

MySQL Server Version Reference

Abstract

This document provides a single resource for summary information about MySQL server, including specific information on changes between different versions for options and variables, and summary tables showing the availability across MySQL series for several server features, such as operators and functions, [INFORMATION_SCHEMA](#) and Performance Schema tables, sys schema objects, keywords and reserved words, and build options.

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For help with using MySQL, please visit the [MySQL Forums](#), where you can discuss your issues with other MySQL users.

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Chapter 1 mysqld Options and Variables

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The following table shows all the options and variables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Intr:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Depr:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- **Cmd:** Whether the item is valid on the command line.
- **Cnf:** Whether the item is valid within a configuration file.
- **Srvr:** Whether the item is a server system variable.
- **Stat:** Whether the item is a status variable.
- **Scp:** The scope of the item (session-specific, global, or both). A value of [Varies](#) indicates that the scope varies across versions.
- **Dyn:** Whether the item is dynamically settable while the server is running. A value of [Varies](#) indicates that this attribute varies across versions.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 1.1 Option and Variable Reference

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
abort-slave-event-count		8.0.29		Yes	Yes					Yes	Yes	Yes			
Aborted_clients						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Aborted_connects						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Acl_cache_items_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
active8.0.2_all_roles_yes_log	8.0.2		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
admin8.0.14_address			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.14_t			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.218.0.26_ssl			Yes	Yes						Some	Yes	Yes	Yes		
admin8.0.21_ca			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_capath			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_cert			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_cipher			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_crl			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_crlpath			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_key			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_ciphersuite			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
admin8.0.21_version			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
allow-suspicious-udfs			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
ansi			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
audit5.7.9,log8.0.11			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
audit5.7.9_log_buffer_size8.0.11			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes	Yes
audit5.7.21_compression8.0.11			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
audit5.7.9_8.0.34connection8.0.11			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
audit5.7.9_log_current_session8.0.11			Yes			Both	No			Yes	Yes	Yes	Yes	Yes	Yes
Audit5.7.9_log_current_size8.0.11					Yes	Global	No			Yes	Yes	Yes	Yes	Yes	Yes
audit8.0.33_database			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Audit_log_direct_writes					Yes	Global	No				Yes	Yes	Yes	Yes	Yes
audit5.7.37_disable8.0.28			Yes	Yes	Yes		Global	Yes		Some	Some	Yes	Yes	Yes	Yes
audit5.7.21_encryption8.0.11			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Audit _{5.7.9_8.0.11} _event_max_drop_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _events							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _events_filtered							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _events_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _events_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _aude_a	Yes	un	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _file			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _filter_id							Yes	Both	No	Some	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _flush							Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit _{8.0.34} _flush_int	Yes	al	sec	Yes				Global	No		Some	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _format	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.26} _format_un	Yes	time	Yes	stamp	Yes			Global	Yes	Some	Some	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.34} _aude_a	Yes	un	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit _{8.0.26} _max_size	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes	Yes
audit _{8.0.17} _password	Yes	to	Yes	ke	Yes	days		Global	Yes		Some	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.34} _acy	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
audit _{8.0.24} _prune_seconds	Yes		Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _read_buff	Yes	si	Yes	Yes				Varies	Varies	Some	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _rotate_on	Yes	ze	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.34} _ement	Yes	li	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit _{5.7.9_8.0.11} _strategy	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _total_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Audit _{5.7.9_8.0.11} _write_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
authen _{8.0.27_8.0.35_8.2.0} _fido	Yes	in	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
authen _{8.0.26} _ation_kerbe	Yes	Yes	vi	Yes	key_ta	Global	No			Some	Yes	Yes	Yes	Yes	Yes
authen _{8.0.26} _ation_kerbe	Yes	Yes	vi	Yes	princip	Global	Yes			Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	Yes	method_name		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	base_dn	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	root_dn	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	root_pwd	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	timeo	Global	Yes			Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	search	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.21, 8.0.11	Yes	s1	Yes	nd	Yes	search	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	size	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	status	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	sol_size	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	8.0.20	Yes	s1	Yes	nd	Yes	temp	Global	Yes		Some	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	timeo	Global	Yes			Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	host	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	port	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Authentication_ldap_sasl_supported	8.0.21	Yes	s1	Yes	nd	Yes	getset	Global	No		Some	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	s1	Yes	nd	Yes	search_all	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	method_global	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	base_dn	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	root_dn	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	root_pwd	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	cauth	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	correct_timeo	Global	Yes			Yes	Yes	Yes	Yes
authentication_ldap	5.7.19, 8.0.11	Yes	smp	Yes	nd	Yes	group_search	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.21, 8.0.11	Yes	smp	Yes	nd	Yes	group_search	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_in	Yes_pool_size	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_lo	Yes_status	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_max	Yes_pool_size	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	8.0.20 8.0.11		Yes	tmp	Yes_ref	Yes_ral	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap			Yes	tmp	Yes_res	Yes_response_time	Global	Yes			Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_ser	Yes_server_host	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_ser	Yes_server_port	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_te	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_ldap	5.7.19 8.0.11		Yes	tmp	Yes_us	Yes_search	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_policy			Yes		Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
authentication_webapi			Yes		Yes_id	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes
authentication_windows	5.7.9 8.0.11		Yes_l	Yes_le	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
authentication_windows	5.7.9 8.0.11		Yes_us	Yes_pr	Yes_principal_name		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
auto_generate_certs			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
auto_increment_increments			Yes	nt	Yes	Yes	Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
auto_increment_offset			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
autocommit			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
automatic_sp_privileges			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
avoid_temp表升级	5.7.6 5.7.6		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes		
back_log			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
basedir			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
big_tables			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
bind_address			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_cache_disk_use					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_cache_use					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_checksum			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_checksum			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_direct_non_transaction_update			Yes	Yes	Yes	Yes_update	Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog-do-db			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog Encryption	8.0.14		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
binlog_error_action	5.7.6			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_expire_logs_seconds	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
binlog_expire_logs_time	8.0.30			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
binlog_format	8.0.34			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_no_delay_allowed	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_group_commit_sync_no_delay_count	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_gtid_simple_recovery	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog-ignore-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
binlog_max_push_queue	5.7.9			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_order_commits				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_state_encrypt_starter_key_at_start	8.0.14			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
binlog-row-event-max-size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_row_image				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binlog_low_metadata	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
binlog_low_value_opt	8.0.3			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
binlog_rows_query_log				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_disk_use						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_stmt_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_use						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_transaction_persistent	8.0.20			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
binlog_transaction_persistent_level_z	8.0.20			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
binlog_transaction_persistent_history_size	5.7.22	8.0.1		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
binlog_transaction_persistent_tracking	5.7.22	8.0.35	8.0.20	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
binlog_impossible_updates	5.7.5	5.6.25	7.6	Yes	Yes	Yes		Both	Yes						
block_encryption_mode	5.7.4			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
bootstrap	5.7.6			Yes	Yes					Yes					
build	8.0.31					Yes		Global	No		Some	Yes	Yes	Yes	Yes
bulk_insert_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bytes_received						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Bytes_sent						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
caching_sha2_password_auto_generate_rsa_keys	8.0.4			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
caching_sha2_password_digest_timeounds	8.0.24			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
caching_sha2_password_expiry_path	8.0.3			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
caching_sha2_password_pure_c_expiry_path	8.0.3			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Caching_sha2_password_rsa_public_key	8.0.4			Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
character_set_client					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set-client-handshake	8.0.35, 8.2.0		Yes	Yes						Yes	Yes	Yes	Yes		
character_set_connection					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set_database					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set_filesystem	Yes	sem	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set_results					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set_server	Yes		Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
character_set_system					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
character_sets_dir	Yes		Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
check_proxy_users	5.7.7		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
check_table_functions	8.0.42, 8.4.5		Yes	Yes						Some					Some
chroot			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
clone_8.0.17_outofline_concurrent	8.0.17		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_ck_ddl			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_buffer_size			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_timeout			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.29_my_after_d	8.0.29		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.24_error_timeout	8.0.24		Yes	Yes	Yes	network_failover		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_compression	8.0.17		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_concurrency			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_data_bandwidth			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_network_bandwidth			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14_ca			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14_cert			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14_key			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17_id_donor_l	8.0.17		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
collation_connection					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
collation_database					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
collation_server	Yes		Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Com_admin_commands						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_db						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_db_upgrade						Yes		Both	No	Yes					
Com_alter_event						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_function						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_procedure						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_8.0.3_resource_group	8.0.3				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Com_alter_server						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_alter_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_tablespace							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_alter_user_default_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_analyze							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_assign_to_keycache							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_begin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_binlog							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_call_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_master							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_change_repl_filter	5.7.3						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_change_replication_source	8.0.23						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_checksum							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create	8.0.2						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_create_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_create_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_udf							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_create_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_dealloc_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_delete_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_do							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_drop_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_drop_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_drop_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_empty_query							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_execute_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_5.7.12_in_other							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_flush							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_get_diagnostics							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_grant							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_grant_roles							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_5.7.6_replication_start							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_5.7.6_replication_stop							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_open							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_ha_read							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_help							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_insert							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_insert_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_install_component							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_install_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_kill							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_load							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_lock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_optimize							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_preload_keys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_prepare_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_purge							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_purge_before_date							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_release_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rename_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rename_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_repair							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_replace							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_replace_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_8.0.22_ca_start							Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_8.0.22_ca_stop							Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_resignal							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_8.0.4_art							Yes	Both	No		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_revoke							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_revoke_all							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_revoke_roles							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_rollback_to_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_set_option							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_set_8.0.3_resource_group							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_set_role							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_show_authors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_binary_log_status							Yes	Both	No				Yes	Yes	Yes
Com_show_binlog_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_binlogs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_showCharsets							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_collations							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_contributors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_func							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_proc							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_create_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_5.7.6_create_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_databases							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_logs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_mutex							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_engine_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_errors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_fields							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_function_code							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_function_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_grants							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_keys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_8.2.0er_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_show_ndb_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_open_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_plugins							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_privileges							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_procedure_code							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Com_show_procedure_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_processlist							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_profile							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_profiles							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_relaylog_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_replica_status	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_show_replicas	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes	Yes
Com_show_slave_hosts							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_slave_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_slaves	5.7.6	status_nonblocking					Yes	Both	No						
Com_show_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_storage_engines							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_table_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_triggers							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_variables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_show_warnings							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_start	5.7.9	down					Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_signal							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_slave_start							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_slave_stop							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	
Com_stmt_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_execute							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_fetch							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_reprepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_stmt_send_long_data							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_truncate							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_uninstall_component							Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_uninstall_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_unlock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_update_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_end							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_recover							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Com_xa_start							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
completion_type		Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
component_masking.d	Yes	io	Yes	Yes	flush_in	Global	No	seconds				Yes	Yes		
component_masking.m	Yes	in	Yes	Yes	datebase		Global	No				Yes	Yes		
component_scheduler	8.0.34	scheduler	Yes	ab	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Compressi	8.0.18					Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compression_algorithm	8.0.18					Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Compression_level	8.0.18					Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
concurrent_insert			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
connect_timeout			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connecti	5.7.17	n_control_delay_generated	Yes				Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
8.0.1															
connec	5.7.17	n_control_le	Yes	le	com	tions_d	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
8.0.1															
connec	5.7.17	n_control_m	Yes	c	connection	_delay	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
8.0.1															
connec	5.7.17	n_control_m	Yes	c	nection	_delay	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
8.0.1															
Connection_errors_accept					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_internal					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_max_connections				Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_peer_address				Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_select				Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connection_errors_tcpwrap				Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
connec	8.0.28	n_memory_c	Yes	k	Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
connec	8.0.28	n_memory_l	Yes	t	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes
Connections						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
console			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
core-		file		Yes	Yes						Yes	Yes	Yes	Yes	Yes
core_file						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
creat	8.0.14	min_listener	Yes	th	Yes	ad	Yes		Global	No		Some	Yes	Yes	Yes
Created_tmp_disk_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Created_tmp_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Created_tmp_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
cte_m	8.0.3	recursion_de	Yes	sh	Yes	Yes			Both	Yes		Yes	Yes	Yes	Yes
Curre	8.0.16	ls_ca					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_capath					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_cert					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_cipher					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_ciphersuites					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_crl					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_crlpath					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Curre	8.0.16	ls_key					Yes	Global	No		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Current_s_version	8.0.16						Yes	Global	No		Some	Yes	Yes	Yes	Yes
daemon_mem_leaked_engines	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_engines_max	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_engines_percent	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_operations	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_size	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_time	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_type	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_percent	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_size	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_time	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_type	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value_percent	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value_size	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value_time	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value_type	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
daemon_mem_leaked_regions_value_value_value	8.0.22			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes		
delay_key_write				Yes	Yes	Yes	Yes	Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_engines	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_instant_limited	5.6.7			Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_instant_threads	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_instant_time	5.6.7			Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
delayed_query_size	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_warnings	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Deprecated_use_is_processlist_count					Yes		Global	No						Yes	Yes
Deprecated_use_is_processlist_last					Yes	Yes	Global	No					Yes	Yes	Yes
des-key-file	5.7.6	8.0.3	Yes	Yes						Yes					
disable_partition-engine-check	5.7.17	5.7.17		Yes	Yes					Some					
disable_storage_engine	5.7.8		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
disconnect_on_expired_password	5.7.1		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
disconnect_slave-event-count	8.0.29		Yes	Yes						Yes	Yes	Yes			
div_precision_increment		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
dragn_drop_error_flag	8.0.4	Yes	Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
dragn_drop_status	8.0.12					Yes		Global	No		Some	Yes	Yes	Yes	Yes
early-plugin-load	5.7.11		Yes	Yes						Some	Yes	Yes	Yes	Yes	Yes
end_markers_in_json		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
enforce_gtid_consistency		Yes	Yes	Yes				Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
enter_dce_encryption	8.0.30	Yes	Yes	Yes	Yes	Yes	a_key	Global	Yes		Some	Yes	Yes	Yes	Yes
enter_dce_encryption_upper_limit	8.0.30	Yes	Yes	Yes	Yes	Yes	upper_limit	Global	Yes		Some	Yes	Yes	Yes	Yes
eq_range_index_dive		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
error_count				Yes				Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Error buffered_bytes	8.0.22					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Error buffered_events	8.0.22					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Error expired_events	8.0.22					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Error latest_write	8.0.22					Yes		Global	No		Some	Yes	Yes	Yes	Yes
event_scheduler		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
executed_gtids	5.7.5	5.7.6	Yes	Yes	Yes	Yes	period	Global	Yes						
exit_info			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
expire_logs_days	8.0.3		Yes	Yes	Yes			Global	Yes	Yes	Yes				
explain_format	8.0.32		Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes	Yes
explain_json_format		Yes	Yes	Yes				Both	Yes					Yes	Yes
explicit_defaults_for_timestamp	5.6.6		Yes	Yes	Yes	Yes	stamp	Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
external-locking			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
external_user				Yes				Session	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
federated			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
Firewall.access_denied	5.7.19						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Firewall.access_granted	5.7.19						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Firewall.cached_entries	5.7.19						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
flush			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flush_commands							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
flush_time			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
foreign_key_checks						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ft_boolean_syntax			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ft_max_word_len			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_min_word_len			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_query_expansion_limit		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ft_stopword_file		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
gdb			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
general_log			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
general_log_file		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
general_random_password_engine	8.0.18	Yes	Yes	Yes				Both	Yes		Some	Yes	Yes	Yes	Yes
Global_connection_memory	8.0.28					Yes		Global	No		Some	Yes	Yes	Yes	Yes
global_connection_memory_limit	8.0.28	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
global_connection_memory_usage	8.0.28	Yes	Yes	Yes				Both	Yes		Some	Yes	Yes	Yes	Yes
Gr_all_consensus_proposals_count			Yes		Both	No					Yes	Yes	Yes	Yes	Yes
Gr_all_consensus_time_sum			Yes		Both	No					Yes	Yes	Yes	Yes	Yes
Gr_certification_garbage_collector_usage		Yes	Yes	Both	No						Yes	Yes	Yes	Yes	Yes
Gr_certification_garbage_collector_usage_imbalance		Yes	Yes	Both	No						Yes	Yes	Yes	Yes	Yes
Gr_consensus_bytes_received_sum		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_consensus_bytes_sent_sum		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_control_messages_sent_bytes_sum		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_control_messages_sent_count		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_control_messages_sent_roundtrip_time_mean		Yes	Yes	Both	No						Yes	Yes	Yes	Yes	Yes
Gr_data_messages_sent_bytes_sum		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_data_messages_sent_count		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_data_messages_sent_roundtrip_time_mean		Yes	Yes	Both	No						Yes	Yes	Yes	Yes	Yes
Gr_empty_consensus_proposals_count		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_extended_consensus_count		Yes		Both	No						Yes	Yes	Yes	Yes	Yes
Gr_flow_control_throttle_active_count		Yes				Global	No				Yes	Yes	Yes	Yes	Yes
Gr_flow_control_throttle_count		Yes				Global	No				Yes	Yes	Yes	Yes	Yes
Gr_flow_control_throttle_last_throttle_time_mean		Yes	Yes		Global	No	amp				Yes	Yes	Yes	Yes	Yes
Gr_flow_control_throttle_time_sum		Yes			Global	No					Yes	Yes	Yes	Yes	Yes
Gr_last_consensus_end_timestamp		Yes		Both	No						Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Gr_total_messages_sent_count					Yes	Both	No				Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_after					Yes	Both	No				Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_after					Yes	Both	No	Num			Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_after					Yes	Both	No	Count			Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_after					Yes	Both	No	Time_Sum			Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_before					Yes	Both	No	Count			Yes	Yes	Yes	Yes	Yes
Gr_transactions_consistency_before					Yes	Both	No	Sum			Yes	Yes	Yes	Yes	Yes
group_concat_max_len	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.21_application_advrt_recovery_exec	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes	Yes
group_5.7.17_5.7.21_8.0.4a	Yes	Yes	Yes	Yes	Yes	Both	Joint	Global	Yes	Some					
group_5.7.17_7.8.4.0	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_7.8.4.0	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.16_application_advrt_increments	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_advrt_group	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.17_application_c	Yes	Yes	Yes	Yes	Yes	Global	Yes			Some	Yes	Yes	Yes	Yes	Yes
group_8.0.3_application_comuniti	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.16_application_comuniti	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.27_application_communicati	Yes	Yes	Yes	Yes	Yes	Global	Yes			Some	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_componen	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_compre	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.14_application_comuni	Yes	Yes	Yes	Yes	Yes	Both	Yes			Some	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_end	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.24_application_ex	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Some	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.12															
group_5.7.17_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes	Local	Some	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes	Local	Some	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes	Percent		Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes	Local		Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.2_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_f	Yes	Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_g	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_g	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_g	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_5.7.17_replication_g	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_8.0.22_replication_ip	Yes	Yes	Yes	Yes	Yes	Global	Yes			Some	Yes	Yes	Yes	Yes	Yes
group_5.7.17_8.0.22ion_ip	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes			
group_5.7.17_replication_l	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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group_replication_member_timeout	8.0.13		Yes	Yes	Yes	Yes	timeout	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_member_weight	5.7.20	8.0.2	Yes	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_message_size	8.0.16		Yes	Yes	Yes	Yes	size	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_primary_selection	8.0.27		Yes	Yes	Yes	Yes	leader	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_priority	5.7.17		Yes	Yes	Yes	Yes	priority	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_purge_baggage	8.0.17		Yes	Yes	Yes	Yes	purge_baggage	Global	Yes						Yes
group_replication_purge_baggage_threshold			Yes	Yes	Yes	Yes	purge_baggage_threshold	Global	Yes						Yes
group_repl	8.0.4							Global	No	Yes	Yes	Yes	Yes		
group_repl	5.7.17	8.0.34	Yes	Yes	Yes	Yes	complete_at	Global	Yes	Some	Yes	Yes	Yes	Yes	
group_replication_reconnect	8.0.18		Yes	Yes	Yes	Yes	reconnect	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_reconnect_get_public_ip	8.0.4		Yes	Yes	Yes	Yes	get_public_ip	Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_persistent_key	8.0.4		Yes	Yes	Yes	Yes	persistent_key	Global	Yes		Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_instantiation	5.7.17		Yes	Yes	Yes	Yes	instantiation	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ref_count	5.7.17		Yes	Yes	Yes	Yes	ref_count	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ssl_ca	5.7.17		Yes	Yes	Yes	Yes	ssl_ca	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ssl_capath	5.7.17		Yes	Yes	Yes	Yes	ssl_capath	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ssl_cert	5.7.17		Yes	Yes	Yes	Yes	ssl_cert	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ssl_cipher	5.7.17		Yes	Yes	Yes	Yes	ssl_cipher	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ssl_crl	5.7.17		Yes	Yes	Yes	Yes	ssl_crl	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_sslrlpath	5.7.17		Yes	Yes	Yes	Yes	sslrlpath	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_sslkey	5.7.17		Yes	Yes	Yes	Yes	sslkey	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_verify_peer	5.7.17		Yes	Yes	Yes	Yes	verify_peer	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reconnect_ciphers	8.0.19		Yes	Yes	Yes	Yes	ciphers	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_reconnect_version	8.0.19		Yes	Yes	Yes	Yes	version	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_reuse_ssl	5.7.17		Yes	Yes	Yes	Yes	ssl	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_reuse_zstd_compression	8.0.18		Yes	Yes	Yes	Yes	zstd_compression	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_send_immediate_mode	5.7.17		Yes	Yes	Yes	Yes	immediate_mode	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_send_mod	5.7.17		Yes	Yes	Yes	Yes	mod	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_send_mod_no	5.7.17		Yes	Yes	Yes	Yes	mod_no	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_send_mod_no	8.0.21		Yes	Yes	Yes	Yes	mod_no	Global	Yes		Some	Yes	Yes	Yes	Yes
group_replication_send_size_limit	5.7.19		Yes	Yes	Yes	Yes	size_limit	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_send_majority	5.7.19	8.0.2	Yes	Yes	Yes	Yes	majority	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
group_replication_send_value	8.0.26	8.3.0	Yes	Yes	Yes	Yes	value	Global	Yes		Some	Yes	Yes	Yes	Yes
gtid_executed						Yes		Varies	No	Yes	Yes	Yes	Yes	Yes	Yes
gtid_executed_compression	5.7.6		Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gtid_mode			Yes	Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
gtid_next						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gtid_owned						Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes
gtid_purged						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Handler_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_discover							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_external_lock							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_mrr_init							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_first							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_key							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_last							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_next							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_prev							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_rnd							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_read_rnd_next							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_savepoint_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Handler_write							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
have_compress						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_crypt	5.7.6	8.0.3				Yes		Global	No	Yes					
have_dynamic_loading						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_geometry						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_open	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
have_prof	5.6.8					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_query	5.7.20	8.0.26				Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_rtree_keys						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_ssl	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
have_statement_timeout						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
have_symlink						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
help			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
histogram_generation	8.0.21		Yes	ax	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
host_cache_size			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
hostname						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
identity						Yes		Sessions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ignore_bu	5.5.22	8.0.3	Yes	Yes	Yes			Global	No	Yes					
ignore_db	5.7.16		Yes	Yes						Yes					
immed	8.0.14					Yes		Global	No	Yes					
inform	8.0.3					Yes	Yes	Sessions	Yes	Some	Yes	Yes	Yes	Yes	Yes
information_schema			Yes	ts	Yes	xpl	Yes	Both	Yes		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
init_connect				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
init_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
init_8.0.26.ca	8.0.26			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
init_slave	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
init_5.7.16.e	5.7.16			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
init_5.7.16.e- insecure	5.7.16			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
innodb	5.6.21, 5.7.5			Yes	Yes					Yes	Yes	Yes	Yes		
innodb_adaptive_flushing				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_flushing				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_hash_index				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_hash_index_parallel	5.7.8			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_max_parallel	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_add_new_log_file	5.6.3	5.7.4	new	Yes	Yes	Yes		Global	No						
innodb_api_8.0.22_commit	8.0.22			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
innodb_api_8.0.22_table	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_8.0.22_table_b	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_8.0.22_table_mci	8.0.22			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes		
innodb_api_8.0.22_level	8.0.22			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes			
innodb_autoextend_increment				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_autoinc_lock_mode				Yes	de	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_available_undo_logs	5.7.19	8.0.2					Yes	Global	No	Yes					
innodb_background_dump	5.7.10			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_bytes_data				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_bytes_dirty				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size	5.7.15			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	ug	Yes		Global	No		Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	sp	Yes	sh	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	sp	Yes	sh	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	sp	Yes	sh	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_size				Yes	sp	Yes	sh	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_dump_status				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_free				Yes	en	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_free	8.0.14			Yes	co	Yes	fi	Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_buffer_pool_free				Yes	ta	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_free				Yes	da	Yes	rt	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_free				Yes	da	Yes	st	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_free				Yes	da	Yes	up	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_load_status				Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_data				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_dirty				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Innodb_buffer_pool_pages_flushed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_free							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_latched							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_misc							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_total							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_evict							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ahead_rnd							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_change_pool_resize_status	5.7.5						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_change_pool_resize_status_low	8.0.31						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Innodb_change_pool_resize_status_high	8.0.31						Yes	Global	No		Some	Yes	Yes	Yes	Yes
innodb_buffer_pool	Yes	Yes	Yes					Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_wait_free							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_max_size	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_min_size	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_debug	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checkpoint_dblwrite	8.0.2	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_checksum_algorithm	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checksums	5.6.3	Yes	Yes	Yes				Global	No	Yes					
innodb_cmp_per_index	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_commit_concurrency	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_debug	5.7.8	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_level	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_threads	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_type	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_concurrency_tickets	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_file_path	Yes	Yes	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_fsyncs						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_home_dir	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_fsyncs					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_reads					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_writes					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_read						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_reads						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_writes						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_written						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_dbwr_pages_written						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_dbwr_writes						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_8.0.27_buffer_size	Yes	Yes	Yes					Session	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_8.0.31_log_crash_recover	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.27_threads	Yes	Yes	Yes					Session	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_5.7.15_deadlock_detect	Yes	Yes	Yes					Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_8.0.3_dedicated_server			Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes
innodb_5.7.9-default_row_format	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.4_directories	Yes	Yes	Yes					Global	No		Yes	Yes	Yes	Yes	Yes
innodb_5.7.6_disable_resave	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes					
innodb_disable_sort	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite	Yes	Yes	Yes					Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.20_doublewrite_mechanism	Yes	Yes	Yes	Yes				Global	No		Some	Yes	Yes	Yes	Yes
innodb_8.0.20_doublewrite	Yes	Yes	Yes					Global	No		Some	Yes	Yes	Yes	Yes
innodb_8.0.20_doublewrite_Yes	Yes	Yes	Yes					Global	No		Some	Yes	Yes	Yes	Yes
innodb_8.0.20_doublewrite_Yes	Yes	Yes	Yes					Global	No		Some	Yes	Yes	Yes	Yes
innodb_8.0.22_end_and_innodb	Yes	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_fast_shutdown	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_file_make_page	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_file_5.7.7_format	Yes	Yes	Yes					Global	Yes	Yes					
innodb_file_5.7.7_format	Yes	Yes	Yes					Global	No	Yes					
innodb_file_5.7.7_format_Yes	Yes	Yes	Yes					Global	Yes	Yes					
innodb_file_per_table	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_ll_factor	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_log_at_trx_commit	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_log_at_trx_commit_Yes	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_method	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_neighbo	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.8_flush_sync	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flushing_avg_loops	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_force_load_csa	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_force_recovery	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.13_sync_threshold	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_ft_aux_table			Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_cache_size	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_enable_diag	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_enable_stopword	Yes	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_max_token_size	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_min_token_size	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_num_word_limit	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.2_result_cache	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_ft_server_stop	Yes	sortable	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_sort_pll	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.2_total_cach	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_user_stop	Yes	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_have_atomic_builtins					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.18_le_flush_p	Yes		Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_io_capacity	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_io_capacity_max	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lang_5.7.7_prefix	Yes	Yes	Yes					Global	Yes	Yes					
innodb_limit_optimis	Yes	c	Yes	Yes	debug			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lock_wait_tin	Yes	ut	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lo_5.6.3_unsafe	Yes	r	Yes	Yes	lo			Global	No	Yes					
innodb_log_buffer_s	Yes		Yes	Yes				Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.13_bg_checkpoint	Yes	full	Yes	Yes	no			Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_5.7.20_bg_checkpoint	Yes	now	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.18_bg_checksums	Yes	5.7.9	Yes	Yes	hm			Global	Yes						
innodb_5.7.19_bg_checksums	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_compressed	Yes	pay	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lo_8.0.30e_size	Yes		Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lo_8.0.30es_in	Yes	oup	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_group_home	Yes	di	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_bg_spin_cpu	Yes		Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_bg_spin_cpu	Yes		Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_bg_wait_for	Yes	us	Yes	Yes	spin	Yes	lwm	Global	Yes		Yes	Yes	Yes	Yes	Yes
Innodb_log_waits						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.14_bg_write_ahe	Yes	s	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_log_write_requests						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.22_bg_writer_th	Yes	ads	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
Innodb_log_writes						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lru_scan_depth	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_pag	Yes	p	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_pag	Yes	p	Yes	Yes	lwm			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_purge_lag	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_purge_lag	Yes	elag	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_max_undo_log	Yes	ze	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.6_merge_thresho	Yes	s	Yes	Yes	all	Yes	debug	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_disable	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_enable	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_reset	Yes		Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_monitor_resetall	Yes	ll	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_num_open_files						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_5.7.9_interleaved	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_p	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_t	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_online_alter	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_open_files	Yes	Yes	Yes				Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_optimize_full	Yes	Yes	Yes	xt	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_optimize	Yes	Yes	Yes	st	Yes	Yes	Session	Yes							
Innodb_os_log_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_pending_fsyncs						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_pending_writes						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_written						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.4_page_cleaners	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_page_size						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_page_size	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_pages_created						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_pages_read						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_pages_written						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.14_parallel_reads	Yes	Yes	Yes	rs	Yes	Yes	Session	Yes		Some	Yes	Yes	Yes	Yes	Yes
innodb_print_all_deads	Yes	Yes	Yes	ock	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.3_int_ddl_log	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_batch	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_purge_rseg_truncate	Yes	Yes	Yes	frequency			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_threads	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_random_read_threshold	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_ahead_threshold	Yes	Yes	Yes	sh	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_io_threads	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_only	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.17 redo_log_archived	Yes	Yes	Yes	s	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
innodb_8.0.30 redo_log_capacity	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_capacity_resized					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_checkpoint_lsn					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_current_lsn					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.21 redo_log_enabled						Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
innodb_8.0.1 redo_log_encrypt	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_flushed_to_disk_lsn					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_logical_size					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_physical_size					Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_read_only						Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_resize_status						Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.30 redo_log_uuid						Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
innodb_replication	Yes	Yes	Yes	ay	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_rollback_on_temp表	Yes	Yes	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rollback_segment	Yes	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_current_waits						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time_avg						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time_max						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_waits						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_rows_deleted						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_rows_inserted						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_rows_read						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_rows_updated						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_saved_page_number	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbScan_damaged_pages	8.0.2	8.0.4	Yes	Yes	Yes			Global	No						
innodbSegment_resize	8.0.26	Yes	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
innodbSort_buffer_size	Yes	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodbSpin_wait_delay	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbSpin_wait_timeout	8.0.16	Yes	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
innodbStats_auto_recalc	Yes	1.0	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStats_include_selected_index	5.7.17 8.0.1	Yes	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodbStats_method	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStats_on_meta_table	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStats_persistent	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStats_persistentSamplePages	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStats_samplePages	5.6.3	sample	Yes	Yes	Yes			Global	Yes	Yes					
innodbStats_transparentPages	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStatusFile			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
innodbStatusOutput	5.7.4	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStatusOutputSocket	5.7.4	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbStrictMode	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbSupportXA	5.7.10	xa	Yes	Yes	Yes			Both	Yes	Yes					
innodbSyncArraySize	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodbSyncDebug	5.7.8	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodbSyncSpinLoop	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
InnodbSystemRowsDeleted				Yes				Global	No		Some	Yes	Yes	Yes	Yes
InnodbSystemRowsInserted				Yes				Global	No		Some	Yes	Yes	Yes	Yes
InnodbSystemRowsRead				Yes				Global	No		Some	Yes	Yes	Yes	Yes
InnodbSystemRowsUpdated				Yes				Global	No		Some	Yes	Yes	Yes	Yes
innodbTableLocks	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbTempDataFile	5.7.1	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
innodb_8.0.13_tmp_tablespaces	Yes	Yes	Yes	Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
innodb_thread_concurrency	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_thread_sleep_delay	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.11_thdadir		Yes	Yes	Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
Innodb_truncated_status_writes					Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_purge_view	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_rseg_n_size	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_undo_directory	Yes	Yes	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.1_undo_log_encrypt	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_undo_log_truncate	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.19_8.0.2	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes					
innodb_5.7.21_tablespace	Yes	Yes	Yes	Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
8.0.4															
Innodb_8.0.14_do tablespaces_active				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.14_do tablespaces_explicit				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.14_do tablespaces_implicit				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
Innodb_8.0.14_do tablespaces_total				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
innodb_8.0.26_fdatasync	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb_use_native_algorithm	Yes	Yes	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_use_5.6.3_5.7.41	Yes	Yes	Yes	Yes	Yes	Yes		Global	No						
innodb_8.0.21_validate_tablespaces	Yes	Yes	Yes	Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
innodb_version					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_write_io_threads	Yes	Yes	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
insert_id					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
install				Yes						Yes	Yes	Yes	Yes	Yes	Yes
install-manual				Yes						Yes	Yes	Yes	Yes	Yes	Yes
interactive_timeout	Yes	Yes	Yes	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
interactive_5.7.15_tmp_d8.0.16	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Some				
interactive_8.0.12_tmp_mem_st	Yes	Yes	Yes	Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
join_buffer_size	Yes	Yes	Yes	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keep_files_on_create	Yes	Yes	Yes	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_not_flushed						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_unused						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_used						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
key_buffer_size	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_age_threshold	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_block_size	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_division_limit	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Key_read_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

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Key_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Key_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_cmk_id	5.7.19, 8.0.11	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_conf_file	5.7.19, 8.0.11	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_data_file	5.7.19, 8.0.11	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_region	5.7.19, 8.0.11	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_x509_certificate_file	5.7.21, 8.0.11	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	
keyring_aws_x509_private_key_file	5.7.21, 8.0.11	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	
keyring_aws_data	5.7.11, 8.0.34	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	
keyring_ashicorp_auth	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_ca	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_ca_certs	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_auth	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_ca_cert	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_cache	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_role	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_server	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_commit_store	8.0.18	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_root	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_set	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_setter	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_ashicorp_stash	8.0.18	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
keyring_migrate_destination	5.7.21, 8.0.41	Yes	Yes							Some	Yes	Yes	Yes	Yes	Yes
keyring_migration_from_component		Yes	Yes												Yes
keyring_migrate_host	5.7.21, 8.0.41	Yes	Yes							Some	Yes	Yes	Yes	Yes	Yes
keyring_migrate_password	5.7.21, 8.0.41	Yes	Yes							Some	Yes	Yes	Yes	Yes	Yes
keyring_migrate_port	5.7.21, 8.0.41	Yes	Yes							Some	Yes	Yes	Yes	Yes	Yes

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keyring_5.7.21_migrate_to_socket	5.7.21, 8.0.41+			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_5.7.21_migrate_to_source	5.7.21, 8.0.41+			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_8.0.24_migration_to_component	8.0.24			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_5.7.21_migrate_to_user	5.7.21, 8.0.41+			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
keyring_8.0.228.0.34_cert	8.0.228.0.34	ca	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_impart	8.0.228.0.34	impart	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_crypt	8.0.228.0.34	crypt	Yes	Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_dy_file	8.0.228.0.34	dy_file	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_dy_fini	8.0.228.0.34	dy_fini	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_management	8.0.228.0.34	management	Yes	Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_master	8.0.228.0.34	master	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_secrets	8.0.228.0.34	secrets	Yes	dpb	Yes	Yes		Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_stanency	8.0.228.0.34	stanency	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_starter	8.0.228.0.34	starter	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_staults	8.0.228.0.34	staults	Yes	spo	Yes	Yes		Global	No	Some	Yes	Yes	Yes		
keyring_8.0.228.0.34_stvirtual	8.0.228.0.34	stvirtual	Yes	su	Yes	Yes		Global	No	Some	Yes	Yes	Yes		
keyring_5.7.12_kv_conf_dir	5.7.12, 8.0.11	kv_conf_dir	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
keyring_5.7.21_operations	5.7.21, 8.0.4	operations			Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
language	5.5.0		Yes	Yes	Yes			Global	No	Yes		Yes	Yes	Yes	
large_files_support				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
large_page_size				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
large_pages			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
last_insert_id				Yes				Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Last_query_cost					Yes			Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Last_query_partial_plans					Yes			Session	No	Yes	Yes	Yes	Yes	Yes	Yes
lc-messages			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
lc-messages-dir			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
lc_time_names			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
license				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
local_infile			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
local-service				Yes						Yes	Yes	Yes	Yes	Yes	Yes
lock_8.0.17				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_loop				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
lock_8.0.17_debug_miss				Yes	ng	Yes	c	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_debug_miss				Yes	ng	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_debug_miss				Yes	ng	Yes	l	o	Yes	Global	No	Some	Yes	Yes	Yes
lock_8.0.17_dependent				Yes	s	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_extra_dependent				Yes	de	Yes	es	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_output_d				Yes	ct	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_print_tx				Yes	Y	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_trace_loops				Yes	Y	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_trace_miss				Yes	ng	Yes	c	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_trace_miss				Yes	ng	Yes	Y	Yes		Global	No	Some	Yes	Yes	Yes
lock_8.0.17_trace_miss				Yes	ng	Yes	l	o	Yes	Global	No	Some	Yes	Yes	Yes
lock_wait_timeout				Yes	Y	Yes	Y		Both	Yes	Yes	Yes	Yes	Yes	Yes
Locked_5.7.6								Yes	Global	No	Yes	Yes	Yes	Yes	Yes
locked_in_memory								Yes	Global	No	Yes	Yes	Yes	Yes	Yes
log_bin_5.7.6				Yes	Y	Yes	Y	r	Y	initial	Global	Yes			
log-bin					Yes	Y					Yes	Yes	Yes	Yes	Yes
log_bin						Yes			Global	No	Yes	Yes	Yes	Yes	Yes
log_bin_basename						Yes			Global	No	Yes	Yes	Yes	Yes	Yes
log-bin-index					Yes	Y	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
log_bin_trust_function	8.0.34			Yes	_c	Yes	to	Y		Global	Yes	Yes	Yes	Yes	Yes
log_bin_use_rowid	8.0.18			Yes	nt	Yes	Y			Global	Yes	Yes	Yes	Yes	
log_bin_5.7.9				in_as	8.0.11	Yes	ie	Yes	password	Global	Yes	Yes			
log-error						Yes	Y	Yes		Global	No	Yes	Yes	Yes	Yes
log_error_8.0.2				filter	8.0.4	Y	es	Y	Yes		Global	Yes			
log_error_8.0.2				services		Yes	Y	Yes		Global	Yes		Yes	Yes	Yes
log_error_8.0.13				suppression		Yes	l	Yes	Y	Global	Yes	Some	Yes	Yes	Yes
log_error_5.7.2				verbosity		Yes	Y	Yes		Global	Yes	Yes	Yes	Yes	Yes
log-isam						Yes	Y				Yes	Yes	Yes	Yes	Yes
log_output						Yes	Y	Yes		Global	Yes	Yes	Yes	Yes	Yes
log_queries_not_using_index				Yes	in	Yes	Y	Yes		Global	Yes	Yes	Yes	Yes	Yes
log-raw						Yes	Y	Yes		Global	Yes	Yes	Yes	Yes	Yes
log_rca_updates	8.0.26			Yes	Y	Yes	Y		Global	No		Some	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
log-short-format				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_slave_updates	8.0.26			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
log-slow-admin-statements			5.7.1	Yes	Yes										
log_s5.7w1_admin_statements				Yes	nt	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes
log_s8.0w14_extra				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
log_s8.0w26_replica_statements				Yes	men	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes
log-slow-slave-statements			5.7.1	Yes	Yes										
log_s5.7w1_8.0.26_statements				Yes	nt	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes
log_s5.7t18.0.34_unsafe				Yes	fo	Yes	in			Global	Yes	Some	Yes	Yes	Yes
log_s5.7t58.0.2			8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_s5.7t5log_fac			8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_s5.7t5log_inc			8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log_s5.7t5log_tag			8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some				
log-tc				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log-tc-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
log_throttle_queries				Yes	nt	Yes	in	Yes	indexes	Global	Yes	Yes	Yes	Yes	Yes
log_t5.7t2_stamps				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
log-warnings	5.7.2	8.0.3		Yes	Yes	Yes		Global	Yes	Yes					
long_query_time				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
low_priority_updates				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
lower_case_file_system					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
lower_case_table_name				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mandatory_roles	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
master-info-file		8.0.18		Yes	Yes					Yes	Yes	Yes	Yes		
master_info	8.0.23			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes			
master-retry-count		5.6.1		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
master_verify_checksum	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_allowed_packet				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
max-binlog-dump-events				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_stmt_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_connect_errors				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_connections				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_delayed_threads	5.6.7			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_digest_length	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
max_error_count				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_execution_time	5.7.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_exceeded						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_set						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max_execution_time_set_failed						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_heap_table_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_insert_delayed_threads	5.6.7			Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_join_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_length	8.0.20			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_packets_in_geometry	5.7.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_prepared_stmt_count				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_relay_log_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_seeks_for_key				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sort_length				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sp_recursion_depth				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_statement_5.7.8						Yes	Both	Yes							
Max_statement_5.7.8_exceeded						Yes	Both	No							
Max_statement_5.7.8_set						Yes	Both	No							
Max_statement_5.7.8_set_failed						Yes	Both	No							
max_tmp_table_size	5.6.7	8.0.3				Yes		Both	Yes	Yes					
Max_used_connections						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max_used_connections_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_user_connections				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_write_lock_count				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mecab_5.7.6_charset						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mecab_5.7.6_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
memlock						Yes				Yes	Yes	Yes	Yes	Yes	Yes
metadata_5.7.4s_8.0.13_size	5.7.4s	8.0.13	Yes	Yes	Yes	Yes		Global	No	Yes	Some				
metadata_5.7.4s_8.0.13_status	5.7.4s	8.0.13	Yes	Yes	Yes	Yes		Global	No	Yes	Some				
min_examined_row_limit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
multi_rangejoin	5.6.7	8.0.3	Yes	Yes	Yes	Yes		Both	Yes	Yes					

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myisam-block-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
myisam_data_pointer	Yes	ze	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
myisam_max_sort_file	Yes	ize	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
myisam_mmap_size	Yes	Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes	Yes
myisam_recover_opti	Yes	Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes	Yes
myisam_repair_ibd	5.7.38, 5.7.39, 8.0.29	8.0.30	Yes	Yes	Yes		Both	Yes	Some	Some					
myisam_sort_buffer	Yes	e	Yes	Yes			Both	Yes		Yes	Yes	Yes	Yes	Yes	Yes
myisam_stats_method	Yes	Yes	Yes				Both	Yes		Yes	Yes	Yes	Yes	Yes	Yes
myisam_use_mmap	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
mysql_firewall_database	Yes	e	Yes	Yes			Global	No				Yes	Yes	Yes	Yes
mysql_firewall_mode	Yes	ewall mode	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
mysql_firewall_reload	Yes	in	Yes	val	seconds		Global	No				Yes	Yes	Yes	Yes
mysql_firewall_trace	Yes	ewall trace	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
mysql-native-password	8.4.0		Yes	Yes											Yes
mysql_password_lifetime	5.7.7, 8.0.16	password_lifetime	Yes	pro	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
mysql_native_password	5.7.12, 8.0.11		Yes	Yes						Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_aborted_clients						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_address						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_bind_address	5.7.17	bind_address	Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_received						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_received_compressed_payload	18.0.19	bytes_received_compressed_payload	Yes	lo	Both	No				Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_received_uncompressed_payload	18.0.19	bytes_received_uncompressed_payload	Yes	ra	Both	No				Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_sent						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_sent_compressed_payload	18.0.19	bytes_sent_compressed_payload	Yes	Both	No					Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_bytes_sent_uncompressed_frames	18.0.19	bytes_sent_uncompressed_frames	Yes	Both	No					Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_compression_algorithm						Yes	Session	No		Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_compression_level	18.0.19	compression_level	Yes	or	Yes	s	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_connect_time	15.7.12	connect_time	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_connection_accept_errors						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_connection_errors						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_accepted						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_closed						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_rejected						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_create_view						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysqlx_crud_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_drop_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_find							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_insert							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_modify_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_cursor_close							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_cursor_fetch							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_cursor_open							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql8.0.20_create_table_def	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
mysql8.0.20_create_table_max	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_document_id	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_enable_hello	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_errors_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_errors_unknown_message_type							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_expect_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_expect_open							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7.12_create_worker	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_init_error							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql8.0.24_interactive	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
mysql8.0.24_default	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
mysql8.0.24_max_client	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
mysql5.7.12_max_allowed_packet	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7.12_max_connections	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_messages_sent							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql5.7.12_max_worker_threads	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_notice_global_sent							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_notice_other_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_notice_warning_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_notified_by_group_replication							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_port							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7.12_port		Yes	Yes	Yes	Yes	Yes	Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7.17_port_open_time	Yes	Yes	Yes	Yes	Yes	Yes	Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_deallocate							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_execute							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_prep_prepare							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysql8.0.24_read_timeout	Yes	Yes	Yes	Yes	Yes	Yes	Session	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_rows_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_accepted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_closed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysqlx_sessions_fatal_error							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_killed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_sessions_rejected							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_socket							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7s15_socket			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_accept_renegotiates							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_active							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_ca			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_capath			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_cert			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_cipher			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher_list							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_crl			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_crlpath			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_ctx_verify_depth							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_ctx_verify_mode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_finished_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql5.7s12_key			Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_server_not_after							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_server_not_before							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_verify_depth							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_verify_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_disable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_enable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_ensure_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_mysqlx							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_xplugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_get_collection_options							Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_kill_client							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_clients							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_objects							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_modify_collection_opt							Yes	Both	No		Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Mysqlx_stmt_ping							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql8.0.4_wait_timeout	Yes	Yes	Yes					Session	Yes		Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads_active							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysql8.0.4_write_timeout	Yes	Yes	Yes					Session	Yes		Yes	Yes	Yes	Yes	Yes
mysql8.0.20_td_default	Yes	mp	Yes	siz	Yes	level		Global	Yes		Some	Yes	Yes	Yes	Yes
mysql8.0.20_td_max_clients	Yes	Yes	Yes	compression_level				Global	Yes		Some	Yes	Yes	Yes	Yes
named_pipe			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
named_5.7.25_full_access	Yes	g	Yes	sp	Yes			Global	No	Some	Some	Yes	Yes	Yes	Yes
8.0.14															
ndb-5.7.10-allow_ndb-7.5.0_copying-alter-table		Yes	Yes	Yes				Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_8.0.23_adaptive_send_deferred_count	Yes	mp	Yes	rep	Yes	Global	No			Some	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_deferred_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_forced_count	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_8.0.23_adaptive_send_forced_count	Yes	rep	Global	No						Some	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_forced_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_forced_count_l	Yes	la	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_l	Yes	la	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_unforced_count	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_8.0.23_adaptive_send_unforced_count	Yes	rep	Global	No						Some	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_adaptive_send_unforced_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_s	Yes	s	Global	No				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_bytes_received_count			Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_8.0.23_bytes_received_count_repli	Yes							Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_bytes_received_count_session	Yes							Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_slave	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_bytes_sent_count			Yes					Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_8.0.23_bytes_sent_count_replica	Yes							Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_bytes_sent_count_session	Yes							Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_slave	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_event_bytes_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nodata_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nodata_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_pk_op_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_pruned_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_pruned_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_range_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_range_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_read_row_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_read_row_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_scan_batch_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_scan_batch_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_table_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_table_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_api_trans_abort_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_trans_abort_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_uk_op_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_exec_complete_count_slave	8.0.23	-ans	ndb-8.0.23				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_count_replica	8.0.23	-ans	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_wait_meta_request_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_api_wait_ndb-8.0.23	8.0.23	beta_request_count_slave				Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_replica	8.0.23	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_session						Yes	Session	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_nanos_count_slave	8.0.23	ndb-8.0.23				Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_replica	8.0.23	ndb-8.0.23				Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_session						Yes	Session	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_api_wait_scan_result_count_slave	8.0.23	ndb-8.0.23				Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
ndb-apply-allow-skip-epoch	8.0.28-ndb-8.0.28				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
ndb_autoincrement_p			Yes	set	Yes	s	z	Yes		Both	Yes	Yes	Yes	Yes	Yes
ndb_batch_size					Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_blob_read_batch_bytes					Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_blob_write_batch_bytes					Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_cache_5.7.20-8.0.1me			Yes	Yes	Yes			Global	Yes	Yes					
ndb_clear_apply_stat			Yes			Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_cluster_connection_pool					Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb-cluster-connection-pool-nodeids	5.7.10-ndb-7.5.0				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes
Ndb_cluster_node_id						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_config_from_host						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes
Ndb_config_from_port						Yes	Both	No		Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_conflict_fn_generation	8.0.24						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch	ndb-8.0.24						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch_trans							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2_trans							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_win							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_win_ins	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.30															
Ndb_conflict_fn_max_ins	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_conflict_fn_old							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_conflict_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_stable_epoch							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_discard							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_prepare							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_refresh_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-8.0.23	conflict_role	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
ndb-8.0.23															
Ndb_conflict_trans_conflict_commit							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_detect_iter_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_reject_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_row_conflict_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_row_reject_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-connectstring							Yes	Yes				Yes	Yes	Yes	Yes
ndb-7.5.12	node_neighbo	Yes	Yes	Yes				Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-7.5.2															
ndb-8.0.13	neck_shares	Yes	Yes	Yes				Both	Yes		Some	Yes	Yes	Yes	Yes
ndb-8.0.13															
ndb-7.5.11	default_ndb-7.5.1						Yes	Yes	Yes		Global	Yes	Some	Yes	Yes
column-format															
ndb-7.5.11	lt_column	Yes	Yes	Yes				Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-7.5.1															
ndb-deferred-constraints							Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes
ndb_deferred_constraint							Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes
ndb-distribution							Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes
ndb-distribution															
Ndb_distribution							Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes
Ndb_epoch_delete_delete_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
ndb_eventbuffer_free	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_eventbuffer_max	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_execute_count						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_extra_logging	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_f8.0.27-table_stats ndb-8.0.27						Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
ndb_force_send		Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_f5.7.12-replicated ndb-7.5.2		Yes	Yes	Yes			Both	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_enab	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_opti	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_join_pushdown			Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_server				Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_session				Yes		Session	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-apply-status		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_apply_status	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_bin		Yes		Yes			Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_binlog_index	Yes			Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_f8.0.40-cache_size ndb-8.0.40, 8.4.3- ndb-8.4.3	Yes	Yes	Yes				Global	Yes		Some					Some
ndb-log-empty-epochs		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_epochs	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-empty-update		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_update	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-exclusive-reads		Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_exclusive_reads	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_f5.7.29-log-ndb-7.6.14, fail-8.0.21-terminal ndb-8.0.21		Yes	Yes	Yes			Global	No	Some	Some	Yes	Yes	Yes	Yes	Yes
ndb-log-orig			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
ndb_log_orig				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_18.0.31-transaction_ndb-8.0.31	18.0.31	-transaction	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
ndb_18.0.31-transaction_ndb-8.0.31	18.0.31	-transaction	Yes	Yes	Yes	Yes	Yes_level	Global	Yes		Some	Yes	Yes	Yes	Yes
ndb-log-transaction-dependency	8.0.33-ndb-8.0.33			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
ndb-log-transaction-id				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_transaction_id					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-update-as-write				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-update-minimal	5.7.18-ndb-7.6.3			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb-log-updated-only				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_m_8.0.18.0.21-8.0.22-list_size_ndb-8.0.18.0.21-8.0.22	8.0.18.0.21	8.0.22-list_size	ndb-8.0.18.0.21	8.0.22			Yes	Global	No		Some				
ndb_m_8.0.16-data_check_ndb-8.0.16	8.0.16	-data_check	ndb-8.0.16	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
ndb_m_8.0.16-data_check_ndb-8.0.16	8.0.16	-data_check	ndb-8.0.16	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Ndb_m_8.0.16-data_detected_count_ndb-8.0.16	8.0.16	-data_detected_count	ndb-8.0.16				Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_m_8.0.18-data_excluded_count_ndb-8.0.22	8.0.18	-data_excluded_count	ndb-8.0.22				Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb_m_8.0.19-data_sync_ndb-8.0.19	8.0.19	-data_sync	ndb-8.0.19				Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
Ndb_m_8.0.18-data_synced_count_ndb-8.0.18	8.0.18	-data_synced_count	ndb-8.0.18				Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-mgm-tls	8.3.0-ndb-8.3.0			Yes	Yes	Yes		Global	No					Some	Yes
ndb-mgmd-host				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
ndb-nodeid				Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_number_of_data_nodes						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_optimization_delay				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_optimized_node_selection				Yes						Yes	Yes	Yes	Yes	Yes	Yes
ndb_optimized_node_Yes	Yes	Yes	n	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pruned_scan_count						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_defined						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_dropped						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_executed						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_reads						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_15.7.12_backup_ndb-7.5.2				Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
ndb_recv_thread_act	Yes	Yes	Yes	threshold			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_recv_thread_cpu	Yes	sk	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_18.0.130_a_batch_s_ndb-8.0.30	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
ndb_18.0.130_a_blob_wr_ndb-8.0.30	Yes	ba	Yes	h	Yes	es	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
Ndb_replic8.0.23x_replicated_ep_ndb-8.0.23	8.0.23	x	Yes				Global	No		Yes	Yes	Yes	Yes	Yes	Yes
ndb_report_thresh_b	Yes	og	Yes	so	Yes	slip	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_report_thresh_b	Yes	og	Yes	sm	Yes	age	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_15.7.23_checksum_ndb-7.6.8					Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_scan_count						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_8.0.18_dist_lockайл_imset			Yes	Yes	Yes	ut	Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
ndb_8.0.17-schema_ndb-8.0.17			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
ndb_8.0.16_dist_time			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes	Yes
ndb_8.0.17_dist_upgrade_low			Yes	Yes	Yes	Yes	Global	No		Some	Yes	Yes	Yes	Yes	Yes
Ndb_8.0.42_participant_count				Yes			Global	No		Some					Some
ndb_show_foreign_key	Yes	sock	Yes	able	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_slave_8.0.23dict	8.0.23	dict	Ye	s	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_slave_max_replicated_epoch						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ndb_sp5.7.18n_name	5.7.18					Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
ndb_table_no_logging						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_table_temporary						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb-tls-search-path	8.3.0-ndb-8.3.0			Yes	Yes	Yes		Global	No					Some	Yes
Ndb_t8.0.17-hint_count_session	8.0.17						Yes	Both	No		Some	Yes	Yes	Yes	Yes
ndb-transid-mysql-connection-map				Yes						Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_copying_alter_table				Yes				Both	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_exact_count						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_transaction	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb_version_string						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-wait-connected				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndb-wait-setup				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
ndbin8.0.13-ndb-8.0.13	8.0.13			Yes						Some	Yes	Yes	Yes	Yes	Yes
ndbinfo_database						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_bytes	Yes			Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_rows	Yes			Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_offline						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_show_hidden	Yes			Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_table_prefix						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
net_buffer_length	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_read_timeout	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_retry_count	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
net_write_timeout	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
new		8.0.35, 8.2.0		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	
ngram5.7.6oken_size	5.7.6		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
no-dd-upgrade	8.0.4	8.0.16		Yes	Yes					Yes	Yes	Yes	Yes		
no-defaults				Yes						Yes	Yes	Yes	Yes	Yes	Yes
no-monitor	8.0.12			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
Not_flushed_delayed_rows	5.6.7					Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
offline_mode	5.7.5			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
old		8.0.35, 8.2.0		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
old_alter_table				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
old_passwords	5.7.6	8.0.11	Yes	Yes	Yes		Both	Yes	Yes						
old-style-user-limits	8.0.30			Yes	Yes					Yes	Yes	Yes	Yes		
Ongoing_anonymous_gtid_violating_transactions				Yes	Global	No	cou	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Ongoing_anonymous_transaction_count				Yes	Global	No		Yes		Yes	Yes	Yes	Yes	Yes	Yes
Ongoing_automatic_gtid_violating_transactions				Yes	Global	No	cou	Yes		Yes	Yes	Yes	Yes	Yes	Yes
Open_files					Yes	Global	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes
open_files_limit			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open_streams						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open_table_definitions						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open_tables						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Opened_files						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Opened_table_definitions						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Opened_tables						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_prune_level	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_search_depth	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_switch	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_features	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_limit	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_max	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_off	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
original_commit_timestamp	8.0.11			Yes		Session	Yes			Yes	Yes	Yes	Yes	Yes	Yes
original_server_version	8.0.14			Yes		Session	Yes			Some	Yes	Yes	Yes	Yes	Yes
parse_max_mem_size	5.7.12		Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
partitions	8.0.16		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
partition	5.7.16		Yes	Yes					Yes						
password_history	8.0.8		Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
password_require_current	8.0.13		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
password_reuse_interactions	8.0.3		Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
performance_schema			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_accounts_lost					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_outrigger_shares	Yes		Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_classes_lost					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_instances_lost					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-stages-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-statements-cpu	8.0.28			Yes	Yes						Some	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-statements-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
performance-schema-consumer-events-transactions-current	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-transactions-history	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-transactions-history-long	5.7.3			Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-global-instrumentation				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-statements-digest				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-thread-instrumentation				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Performance_schema_digest_lost							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	ze	Yes				Global	No		Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.3	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.3	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_classes_l	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_handles_l	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_instances	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_hosts_lost						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_d	Yes	Yes	size	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_index_stat_lost	Yes							Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-	Yes	Yes								Yes	Yes	Yes	Yes	Yes	Yes
instrument															
Performance_schema_locker_lost				Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	c	Yes	classes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	c	Yes	instances				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.8	Yes	d	Yes	length				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf8.0.3	Yes	d	Yes	sample_ag				Global	Yes		Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	f	Yes	classes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	f	Yes	handles				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	f	Yes	instances				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.6	Yes	i	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	m	Yes	classes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.3	Yes	m	Yes	locks				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	m	Yes	r				Global	No				Yes	Yes	Yes
performance_schema_m	Yes	m	Yes	r				Global	No				Yes	Yes	Yes
performance_schema_m	Yes	m	Yes	x				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	m	Yes	x				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.4	Yes	p	Yes	part				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	p	Yes	part				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
perf5.7.2	Yes	p	Yes	part				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	r	Yes	classes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	r	Yes	instances				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	r	Yes	lock				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	s	Yes	set				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_m	Yes	s	Yes	set				Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	length	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	schemas	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	classes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.2	Yes	Yes	Yes	Yes	Yes	stack	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.2	Yes	Yes	Yes	Yes	Yes	handles	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.2	Yes	Yes	Yes	Yes	Yes	instances	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	lock_stat	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	ad_classes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_instrument	5.7.6	Yes	Yes	Yes	Yes	Yes	ad_instances	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_memory_classes	5.7.2	Yes	Yes	Yes	Yes	Yes	classes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_metadata_lock	5.7.3	Yes	Yes	Yes	Yes	Yes	lock	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_meter_lost		Yes	Yes	Yes	Yes	Yes	lost	Global	No				Yes	Yes	Yes
Performance_schema_metric_lost		Yes	Yes	Yes	Yes	Yes	lost	Global	No				Yes	Yes	Yes
Performance_schema_mutex_classes		Yes	Yes	Yes	Yes	Yes	classes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_mutex_instances		Yes	Yes	Yes	Yes	Yes	instances	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_nested_statement	5.7.2	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_prepared_statement	5.7.4	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_program_lost	5.7.2	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_classes		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_instances		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_session_connect		Yes	Yes	Yes	Yes	Yes	connect	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_session_connect		Yes	Yes	Yes	Yes	Yes	connect	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_socket_connect		Yes	Yes	Yes	Yes	Yes	connect	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_socket_connect		Yes	Yes	Yes	Yes	Yes	connect	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_stage_classes		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_statement_classes		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_handles		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_instances		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_table_lock_stat	5.7.6	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_classes		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_instances		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_users_lost		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_users_lost		Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
persistently_admin	8.0.14	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Some	Yes	Yes	Yes	Yes	Yes
persistently_sensitive_value	8.0.29	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Some	Yes	Yes	Yes	Yes	Yes
persisted_globals	8.0.228.2.0	Yes	Yes	Yes	Yes	Yes	lost	Global	No	Yes	Yes	Yes	Yes	Yes	Yes

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pid_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
plugin_dir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
plugin-load				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
plugin-load-add				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
plugin-xxx				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
port				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
port-open-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
preload_buffer_size	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Prepared_stmt_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes	Yes
print-defaults				Yes						Yes	Yes	Yes	Yes	Yes	Yes
print_identified_with	8.0.17	Yes	Yes	Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes
profiling	5.6.8				Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
profiling_history_size	5.6.8	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
proto_compression	8.0.18	Yes	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
protocol_version					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
proxy_user					Yes			Session	No	Yes	Yes	Yes	Yes	Yes	Yes
pseudo_rpl_mode	8.0.26				Yes			Session	Yes		Some	Yes	Yes	Yes	Yes
pseudo_slave_mode	8.0.26				Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
pseudo_thread_id					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Qcache_free_blocks	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_free_memory	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_hits	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_invalidate	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_lowmem_prunes	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_no_index	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_queries_in_cache	5.7.208.0.3					Yes	Global	No	Yes						
Qcache_total_blocks	5.7.208.0.3					Yes	Global	No	Yes						
Queries						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
query_alloc_block_size	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
query_cache_size	5.7.208.0.3	Yes	Yes	Yes			Global	Yes	Yes						
query_cache_min_res_unit	5.7.208.0.3	Yes	Yes	Yes			Global	Yes	Yes						
query_cache_uses_lru	5.7.208.0.3	Yes	Yes	Yes			Global	Yes	Yes						
query_caching	5.7.208.0.3	Yes	Yes	Yes			Global	Yes	Yes						
query_prealloc_size	8.0.29	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Questions						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
rand_seed1					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rand_seed2					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
range_alloc_block_size	5.7.9	Yes	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rbr_error_mode	5.7.1	Yes	Yes	Yes	Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
read_buffer_size		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
read_only			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
read_rnd_buffer_size		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
regex_stack_limit	8.0.4	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
regex_time_limit	8.0.4	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
relay_log			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
relay_log_basename					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
relay_log_index		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
relay_log_file	8.0.18	Yes	Yes	Yes				Global	No	Yes	Yes	Yes			
relay_log_repository	8.0.23	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes			
relay_log_purge		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
relay_log_recovery		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
relay_log_space_limit		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
remove			Yes							Yes	Yes	Yes	Yes	Yes	Yes
replication_low_batch_size	8.0.26	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
replication_ndb-8.0.26															
replication_checkpoint_gtid	8.0.26	Yes	up	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
replication_checkpoint_lsn	8.0.26	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
replication_compressed_journals	8.0.26	Yes	to	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
replication_exec_mode	8.0.26	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
replication_load_tmpdir	8.0.26	Yes	Yes	Yes				Global	No		Some	Yes	Yes	Yes	Yes
replication_max_allowed_packet	8.0.26	Yes	check	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
replication_set_timeout	8.0.26	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
replication_open_temp_tables	8.0.26				Yes			Global	No		Some	Yes	Yes	Yes	Yes
replication_parallel_workers	8.0.26	8.0.29	parallel_type	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replication_parallel_workers_size_max	8.0.26	8.0.29	size_max	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replication_preserve_compatibility	8.0.26	8.0.29	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replication_rows_last_search_algorithm	8.0.26	8.0.29	rows	Yes	Yes	Yes		Global	No		Some	Yes	Yes		
replication_skip_errors	8.0.26	8.0.29	skip	Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes	Yes
replication_gtid_verify_pos	8.0.26	8.0.29	gtid	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
replication_transaction_pos	8.0.26	8.0.29	transaction	Yes	str	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
replication_type_converter	8.0.26	8.0.29	type_converter	Yes	ns	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
replicate-do-db					Yes	Yes					Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
replicate-do-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-ignore-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-ignore-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-rewrite-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-same-server-id				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-wild-do-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replicate-wild-ignore-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
replica _{5.7.33} on_optimize	8.0.23			Yes or No	Yes at plugin			Global	Yes	Some	Some	Yes	Yes	Yes	Yes
replica _{5.7.33} on_sender	8.0.23			Yes	Yes	Yes	Yes	Global	Yes	Some	Some	Yes	Yes	Yes	Yes
report_host				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_password				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_port				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
report_user				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
require_low_format	8.0.19				Yes			Session	Yes		Some	Yes	Yes	Yes	Yes
require_secure_transport	5.7.8			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resource_group_supported	8.0.31					Yes		Global	No		Some	Yes	Yes	Yes	Yes
restrict_ip_non_local	8.4.0			Yes and Yes	Yes			Both	Yes						Yes
result_metadata	8.0.3				Yes			Session	Yes		Yes	Yes	Yes	Yes	Yes
rewrite_enabled	5.7.6				Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rewrite_enabled_for_threads	8.0.31			Yes without plugin	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Rewrite_number_loaded_rules	5.7.6					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_number_reloads	5.7.6					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_number_rewritten_queries	5.7.6					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewrite_reload_error	5.7.6					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rewrite_verbose	5.7.6					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_max_size	8.0.11			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_clients						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
rpl_semi_sync_master	Yes	na	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_avg_wait	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_wait_time	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_waits	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_times	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_tx		na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_status		na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_timefunc_fail	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_immed	Yes	na	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_rate	Yes	na	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_avg_wait_time	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_wait_time	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_waits	Yes	na	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_5.7.3	Yes	ai	Yes	Yes	Yes	slave	co	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_5.7.2	Yes	ai	Yes	Yes	Yes	no	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_pos_backlog	Yes	ai	Yes	Yes	Yes	no	Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_sessions	Yes	ai	Yes	Yes	Yes	sessions	Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_yes_tx		ai	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_8.0.26	Yes	na	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_replica_status		na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_8.0.26	Yes	na	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_8.0.26	Yes	ab	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_slave_status		ab	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_8.0.26	Yes	ac	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_clients		ac	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_8.0.26	Yes	na	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_avg_wait_time	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_wait_time	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_waits	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_times	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_tx	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_status	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_timefunc_fail	Yes	na	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_8.0.26	Yes	na	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_8.0.26	Yes	ra	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_avg_wait_time	Yes	ra	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_wait_time	Yes	ra	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_tx_waits	Yes	ra	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_8.0.26	Yes	ai	Yes	Yes	Yes	replica	co	Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_8.0.26	Yes	ai	Yes	Yes	Yes	no	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4			
rpl_s	8.0.26			sync_source	Yes	ai	Yes	point	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_s	8.0.26			sync_source_wait_pos_back	Yes	av	Yes	Global	No		Global	No		Some	Yes	Yes	Yes	Yes
Rpl_s	8.0.26			sync_source_wait_sessions	Yes			Global	No		Global	No		Some	Yes	Yes	Yes	Yes
Rpl_s	8.0.26			sync_source_yes_tx			Yes	Global	No		Global	No		Some	Yes	Yes	Yes	Yes
rpl_s	8.0.26			replica_time	Yes	ut	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
rpl_s	5.7.2	8.0.26	timed		Yes		Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rsa_publi	8.0.16						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
safe-user-create		8.0.11			Yes	Yes				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_definition_c		Yes			Yes	Yes				Global	Yes			Yes	Yes	Yes	Yes	Yes
second	8.0.16			engine_cost_threshold	Yes					Session	Yes			Some	Yes	Yes	Yes	Yes
Second	8.0.13			engine_execution_count			Yes	Both	No					Some	Yes	Yes	Yes	Yes
secure_aud	5.7.5	8.0.3	5.7.5		Yes	Yes	Yes			Global	Yes	Yes						
secure_file_priv					Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Select_full_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Select_full_range_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
select	8.0.22			to_buffer	Yes	e	Yes	Yes		Both	Yes			Some	Yes	Yes	Yes	Yes
select	8.0.22			to_disk_sy	Yes		Yes			Both	Yes			Some	Yes	Yes	Yes	Yes
select	8.0.22			to_disk_sy	Yes	de	Yes			Both	Yes			Some	Yes	Yes	Yes	Yes
Select_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Select_range_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Select_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
server_id					Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
server_id_bits					Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
server_uuid							Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session	5.7.6			track_gtids	Yes		Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session	5.7.4			track_schema	Yes		Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session	5.7.4			track_state	Yes	an	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session	5.7.4			track_system	Yes	ar	Yes	ble		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session	5.7.8			track_trans	Yes	io	Yes	info		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
set_operations_buff					Yes	si	Yes	Yes		Both	Yes				Yes	Yes	Yes	Yes
sha256	5.7.5	8.0.16	id_auto		Yes	Yes	Yes	Yes	sa_keys	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sha256_pa	8.0.16			id_pri	Yes		Yes	Yes	_pri	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sha256_pa	5.7.7	8.0.16	id_prox		Yes		Yes		Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sha256_pa	8.0.16			id_pub	Yes	k	Yes	pa	Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
shared_memory					Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
shared_memory_base_n					Yes		Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
show	5.7.6	5.7.11	8.0.1		Yes		Yes	Yes		Global	Yes	Yes						
show	8.0.18			create_table_s	Yes	se	Yes	ondary_engin		Session	Yes			Some	Yes	Yes	Yes	Yes
show	5.7.22			create_table_v	Yes	os	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
	8.0.11																	

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
show_binlog_in_create	8.0.30		Yes	Yes	Yes and Yes	format	Both	Yes	Yes	Some	Yes	Yes	Yes	Yes	Yes
show_binlog_globals	5.7.6	5.6.24	5.7.6	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	
show-replica-auth-info	8.0.26			Yes	Yes					Some	Yes	Yes	Yes	Yes	Yes
show-slave-auth-info		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
simple	5.7.5	5.6.23	5.7.6	Yes	Yes	Yes		Global	No						
skip-character-set-client-handshake		8.0.35, 8.2.0		Yes	Yes					Yes	Yes	Yes	Yes		
skip_external_locking			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip-grant-tables				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip-host-cache		8.0.30		Yes	Yes					Yes	Yes	Yes	Yes		
skip-name_resolve			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip_networking			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_new		8.0.35, 8.2.0		Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
skip_partition		5.7.16		Yes	Yes					Yes					
skip_replica_start		8.0.26		Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
skip_show_database				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_slave_start		8.0.26		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
skip_ssl		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes		
skip_stack_trace				Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes
slave_all_ndb-8.0.26	8.0.26	watching	ndb-8.0.26	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
slave_checkpoint_gro	8.0.26	nt_gro	Yes	Yes	Yes			Global	Yes						
slave_checkpoint_per	8.0.26	nt_per	Yes	Yes	Yes			Global	Yes						
slave_compressed_prc	8.0.18	ed_prc	Yes	Yes	Yes			Global	Yes						
slave_exec_mode			Yes	Yes	Yes			Global	Yes						
Slave_heartbeat_perio	5.7.6	8.0.1					Yes	Global	No	Yes					
Slave_last_update	5.7.6	8.0.1					Yes	Global	No	Yes					
slave_load_filedir	8.0.26	dir	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_max_wed_page	8.0.26	wed_page	Yes	Yes	Yes			Global	Yes						
slave_net_out	8.0.26	out	Yes	Yes	Yes			Global	Yes						
Slave_open_p_tables	8.0.26						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_parallel_type	5.7.2	8.0.26	_type	Yes	Yes	Yes		Global	Yes						
slave_parallel_workers	8.0.26		Yes	Yes	Yes			Global	Yes						
slave_pending_jobs	8.0.26	jobs	Yes	Yes	Yes			Global	Yes						
slave_preserve_comma	5.7.5	8.0.26	_comm	Yes	ord	Yes		Global	Yes						
Slave_receive_heartbeats	5.7.6	8.0.1					Yes	Global	No	Yes					
Slave_retried_transactions	5.7.6	8.0.1					Yes	Global	No	Yes					
Slave_rows_search_algorithm_u	8.0.26				Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_rows_search_algori	8.0.18	m	Yes	ri	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes		
Slave_running	5.7.6	8.0.1					Yes	Global	No	Yes					
slave_skip_errors	8.0.26		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
slave_sql_verify_checksum			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
slave_sqlify_checksum	8.0.26		Yes	su	Yes	Yes		Global	Yes						
slave_transaction_ran	8.0.26	tion_ran	Yes	ie	Yes	Yes		Global	Yes						
slave_typevers	8.0.26	ers	Yes	Yes	Yes			Global	Yes						
Slow_launch_threads							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
slow_launch_time			Yes	Yes	Yes			Global	Yes						
Slow_queries							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
slow_query_log			Yes	Yes	Yes			Global	Yes						
slow_query_log_file			Yes	Yes	Yes			Global	Yes						
slow_start_timeout			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
socket			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
sort_buffer_size			Yes	Yes	Yes			Both	Yes						
Sort_merge_passes							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Sort_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Sort_rows							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Sort_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
source	8.0.26	ifify_checks	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
sporadic-binlog-dump-fail			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
sql_auto_is_null					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_big_selects					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_buffer_result					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_generate_invisible	8.0.30	Yes_p	YesIMARY	Yeskey			Both	Yes		Some	Yes	Yes	Yes	Yes	Yes
sql_log_bin					Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_log_off					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_mode			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_notes					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_quote_show_create					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_8.0.26ca_skip_counter	8.0.26	ca_skip_counter			Yes		Global	Yes		Some	Yes	Yes	Yes	Yes	Yes
sql_8.0.13require_primary	8.0.13	require_primary	Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes	Yes
sql_safe_updates					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_select_limit					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_slave_8.0.26counter	8.0.26	counter			Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sql_warnings					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl	8.0.26		Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
Ssl_accept_renegotiates						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_accepts						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_ca			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_callback_cache_hits						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_capath			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_cert			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_cipher						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_cipher			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_cipher_list						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_client_connects						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_connect_renegotiates						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_crl			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_crlpath			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_ctx_verify_depth						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_ctx_verify_mode						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_default_timeout						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_finished_accepts						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_finished_connects						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ssl_f18.0.34	8.0.34		Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes	Yes	Yes
ssl_key			Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
Ssl_server_not_after							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_server_not_before							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_hits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_misses							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_s8.0.29_on_cache_mode	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes	Yes
Ssl_session_cache_overflows							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
ssl_s8.0.29_on_cache_timeout							Yes	Global	No		Some	Yes	Yes	Yes	Yes
ssl_s8.0.29_on_cache_t	Yes	ou	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
Ssl_session_cache_timeouts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_sessions_reused							Yes	Session	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_used_session_cache_entries							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_verify_depth							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_verify_mode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
Ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
standalone		Yes	Yes							Yes	Yes	Yes	Yes	Yes	Yes
statement_id							Yes		Session	No		Yes	Yes	Yes	Yes
storage_engine	5.7.5						Yes		Both	Yes					
stored_program_cache	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
stored_program_defin	Yes	on	Yes	sac	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
super-large-pages			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
superread_only	5.7.8		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
symbolic-links	8.0.2		Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
sync_binlog			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_frm	5.7.6		Yes	Yes	Yes			Global	Yes	Yes					
sync_master	8.0.26	fo	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay_log			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay8.0.34_info			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
sync_8.0.26_ce_info			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
sysdate-is-now			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
sysverb8.0.13_log.facility		Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
sysverb8.0.13_log.include		Y	sd	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
sysverb8.0.13_log.tag			Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
system_time_zone							Yes		Global	No	Yes	Yes	Yes	Yes	Yes
table_definition_cach		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table8.0.16_cryptoptn_pr		Yes	leg	Yes	chess			Global	Yes		Some	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
telemetry.otel_exporter_otlp_traces_enabled		Yes						Global	No			Yes	Yes	Yes	Yes
telemetry.otel_exporter_otlp_traces_header		Yes						Global	No			Yes	Yes	Yes	Yes
telemetry.otel_exporter_otlp_traces_max_size		Yes						Global	No				Yes	Yes	Yes
telemetry.otel_exporter_otlp_traces_min_size		Yes						Global	No				Yes	Yes	Yes
telemetry.otel_exporter_otlp_traces_processor		Yes						Global	No			Yes	Yes	Yes	Yes
telemetry.otel_exporter_otlp_traces_time_limit		Yes						Global	No			Yes	Yes	Yes	Yes
telemetry.otel_log_level			Yes					Global	Yes			Yes	Yes	Yes	Yes
telemetry.otel_resource_attributes			Yes					Global	No			Yes	Yes	Yes	Yes
telemetry.query_text_enabled			Yes					Global	Yes			Yes	Yes	Yes	Yes
telemetry.trace_enabled				Yes				Global	Yes			Yes	Yes	Yes	Yes
temp_pool		5.7.188.0.1	Yes	Yes						Yes					
tempt_8.0.23_max_mmap		Yes	Yes	Yes				Global	Yes			Some	Yes	Yes	Yes
tempt_8.0.22_max_ram		Yes	Yes	Yes				Global	Yes			Yes	Yes	Yes	Yes
tempt_8.0.168.0.26_mmap		Yes	Yes	Yes				Global	Yes			Some	Yes	Yes	Yes
termi_8.0.26_gy_use_prem		Yes	Yes	Yes				Both	Yes			Some	Yes	Yes	Yes
thread_cache_size		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_cop_5.6.1_5.7.2		Yes	Yes	Yes				Global	No						
thread_handling		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_algorith_8.0.11		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_dedicated_8.0.23		Yes	Yes	Yes				Global	No			Some	Yes	Yes	Yes
thread_pool_high_pr_8.0.11		Yes	Yes	Yes	connection			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_longrun		Yes	x	Yes	init			Global	Yes						Yes
thread_pool_max_act_8.0.19		Yes	q	Yes	y		reads	Global	Yes			Some	Yes	Yes	Yes
thread_pool_max_trans_8.0.23		Yes	c	Yes	s		init	Global	Yes			Some	Yes	Yes	Yes
thread_pool_max_unus_8.0.11		Yes	t	Yes	s		ads	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_prio_ki_8.0.11		Yes	p	Yes	s		ner	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_query_th_8.0.31		Yes	ad	Yes	s		per group	Global	Yes			Some	Yes	Yes	Yes
thread_pool_size_8.0.11		Yes	Y	Yes	s			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_stall_l_8.0.11		Yes	t	Yes	s			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thread_pool_transac_8.0.31		Yes	n	Yes	s		ay	Global	Yes			Some	Yes	Yes	Yes
thread_stack			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_cached							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_connected							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_created							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Threads_running							Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
time_format	8.0.3				Yes			Global	No	Yes					

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
time_zone					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
timed_mutex	5.5.39 5.6.20	5.7.5	Yes	Yes	Yes			Global	Yes						
timestamp					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tls_certificates_end_date_validation	Yes	Yes	Yes	Yes	Yes			Global	No			Yes	Yes	Yes	Yes
tls_ciphersuites	8.0.16	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes	Yes
Tls_18.0.30	19.0.30					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Tls_sni_server_name						Yes		Session	No			Yes	Yes	Yes	Yes
tls_version	5.7.10		Yes	Yes	Yes			Global	Varies	Some	Yes	Yes	Yes	Yes	Yes
tmp_table_size		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tmpdir		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
transaction_alloc_block_size	Yes	Yes	Yes		Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_allow_batching				Yes				Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_isolation		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_reallocation_size	8.0.29	Yes	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_read_only		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
transaction_timeout	5.7.6 8.0.26	Yes	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	
tx_isolation	5.7.20 8.0.3				Yes			Both	Yes	Yes					
tx_read_only	5.7.20 8.0.3				Yes			Both	Yes	Yes					
unique_checks					Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
updatable_views_with_limit	Yes	Yes	Yes		Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
upgrade	8.0.16		Yes	Yes						Some	Yes	Yes	Yes	Yes	Yes
Uptime						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Uptime_since_flush_status						Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
use_secondary_engine	8.0.13			Yes				Session	Yes		Some	Yes	Yes	Yes	Yes
user			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
validate_config	8.0.16		Yes	Yes						Some	Yes	Yes	Yes	Yes	Yes
validate_password		Yes	Yes							Yes	Yes	Yes	Yes	Yes	Yes
validate_password_change	5.7.15	Yes	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
validate_password_d	Yes	Yes	Yes	Yes	Yes			Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_dictionary_file	5.7.8	Yes	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_dictionary_file	5.7.8	Yes	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_length	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_m	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_n	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_p	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password_special_characters	Yes	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3	8.4
validate_password. 8.0.34	password_change	Yes	get	Yes	share	letters_per	Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_change	Yes	k	Yes	r	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_dictionary	Yes	i	Yes	y	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_dictionary_file	Yes	st	Yes	l	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_dictionary_file	Yes	ord	Yes	l	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_length	Yes	th	Yes	Y	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_must_contain	Yes	d	Yes	e	Yes	unt	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_nul	Yes	eser	Yes	un	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_possess	Yes	esc	Yes	c	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_password. 8.0.4	password_special_characters_count	Yes	cial	Yes	ha	Yes	count	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
validate_user_plugins			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
verbose			Yes	Yes						Yes	Yes	Yes	Yes	Yes	Yes
version					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_comment					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_machine					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_os					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_compile_zlib					Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
version_5.7.8-9.2.0s_sess	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_5.7.8-9.2.0s_sess	Yes	n	Yes	Yes		Both	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
wait_timeout			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
warning_count					Yes			Session	No	Yes	Yes	Yes	Yes	Yes	Yes
windowing_use_high_precision	Yes	c	Yes	Yes	Y	Yes		Both	Yes		Yes	Yes	Yes	Yes	Yes
xa_deferred_on_prepare	Yes	Y	Yes	Yes	Y	Yes		Both	Yes		Some	Yes	Yes	Yes	Yes

1.1 Option and Variable Changes for MySQL 5.7

The following list details the changes to specific options and variables within MySQL 5.7.

- **audit_log**

Introduced in version 5.7.9

- **audit_log_buffer_size**

Introduced in version 5.7.9

- **audit_log_compression**

Introduced in version 5.7.21

- **audit_log_connection_policy**

Introduced in version 5.7.9

- **audit_log_current_session**

Introduced in version 5.7.9

- **Audit_log_current_size**

Introduced in version 5.7.9

- [audit_log_disable](#)

Introduced in version 5.7.37

- [audit_log_encryption](#)

Introduced in version 5.7.21

- [Audit_log_event_max_drop_size](#)

Introduced in version 5.7.9

- [Audit_log_events](#)

Introduced in version 5.7.9

- [Audit_log_events_filtered](#)

Introduced in version 5.7.9

- [Audit_log_events_lost](#)

Introduced in version 5.7.9

- [Audit_log_events_written](#)

Introduced in version 5.7.9

- [audit_log_exclude_accounts](#)

Introduced in version 5.7.9

- [audit_log_file](#)

Introduced in version 5.7.9

- [audit_log_filter_id](#)

Introduced in version 5.7.13

- [audit_log_flush](#)

Introduced in version 5.7.9

- [audit_log_format](#)

Introduced in version 5.7.9

Value parameter changes in version 5.7.21:

- Default is NEW

- [audit_log_format_unix_timestamp](#)

Introduced in version 5.7.35

- [audit_log_include_accounts](#)

Introduced in version 5.7.9

- [audit_log_policy](#)

Introduced in version 5.7.9

- **`audit_log_read_buffer_size`**

Introduced in version 5.7.21

Value parameter changes in version 5.7.23:

- Default is 32768, minimum is 32768, maximum is 4194304

- **`audit_log_rotate_on_size`**

Introduced in version 5.7.9

- **`audit_log_statement_policy`**

Introduced in version 5.7.9

- **`audit_log_strategy`**

Introduced in version 5.7.9

- **`Audit_log_total_size`**

Introduced in version 5.7.9

- **`Audit_log_write_waits`**

Introduced in version 5.7.9

- **`authentication_ldap_sasl_auth_method_name`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_bind_base_dn`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_bind_root_dn`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_bind_root_pwd`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_ca_path`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_group_search_attr`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_group_search_filter`**

Introduced in version 5.7.21

- **`authentication_ldap_sasl_init_pool_size`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_log_status`**

Introduced in version 5.7.19

- **`authentication_ldap_sasl_max_pool_size`**

Introduced in version 5.7.19

- [`authentication_ldap_sasl_server_host`](#)

Introduced in version 5.7.19

- [`authentication_ldap_sasl_server_port`](#)

Introduced in version 5.7.19

- [`authentication_ldap_sasl_tls`](#)

Introduced in version 5.7.19

- [`authentication_ldap_sasl_user_search_attr`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_auth_method_name`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_bind_base_dn`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_bind_root_dn`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_bind_root_pwd`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_ca_path`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_group_search_attr`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_group_search_filter`](#)

Introduced in version 5.7.21

- [`authentication_ldap_simple_init_pool_size`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_log_status`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_max_pool_size`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_server_host`](#)

Introduced in version 5.7.19

- [`authentication_ldap_simple_server_port`](#)

Introduced in version 5.7.19

- **`authentication_ldap_simple_tls`**
Introduced in version 5.7.19
- **`authentication_ldap_simple_user_search_attr`**
Introduced in version 5.7.19
- **`authentication_windows_log_level`**
Introduced in version 5.7.9
- **`authentication_windows_use_principal_name`**
Introduced in version 5.7.9
- **`auto_generate_certs`**
Introduced in version 5.7.5
- **`avoid_temporal_upgrade`**
Introduced in version 5.7.6
Deprecated in version 5.7.6
- **`binlog_error_action`**
Introduced in version 5.7.6
Value parameter changes in version 5.7.7:
 - Default is ABORT_SERVER
- **`binlog_format`**
Value parameter changes in version 5.7.7:
 - Default is ROW
- **`binlog_group_commit_sync_delay`**
Introduced in version 5.7.5
- **`binlog_group_commit_sync_no_delay_count`**
Introduced in version 5.7.5
- **`binlog_gtid_simple_recovery`**
Introduced in version 5.7.6
Value parameter changes in version 5.7.7:
 - Default is ON
- **`binlog_max_flush_queue_time`**
Deprecated in version 5.7.9
- **`binlog_transaction_dependency_history_size`**
Introduced in version 5.7.22
- **`binlog_transaction_dependency_tracking`**

Introduced in version 5.7.22

- [`binlogging_impossible_mode`](#)

Introduced in version 5.7.5

Removed in version 5.7.6

- [`block_encryption_mode`](#)

Introduced in version 5.7.4

- [`bootstrap`](#)

Deprecated in version 5.7.6

- [`check_proxy_users`](#)

Introduced in version 5.7.7

- [`Com_change_repl_filter`](#)

Introduced in version 5.7.3

- [`Com_explain_other`](#)

Introduced in version 5.7.2

- [`Com_group_replication_start`](#)

Introduced in version 5.7.6

- [`Com_group_replication_stop`](#)

Introduced in version 5.7.6

- [`Com_show_create_user`](#)

Introduced in version 5.7.6

- [`Com_show_slave_status_nonblocking`](#)

Introduced in version 5.7.0

Removed in version 5.7.6

- [`Com_shutdown`](#)

Introduced in version 5.7.9

- [`Connection_control_delay_generated`](#)

Introduced in version 5.7.17

- [`connection_control_failed_connections_threshold`](#)

Introduced in version 5.7.17

- [`connection_control_max_connection_delay`](#)

Introduced in version 5.7.17

- [`connection_control_min_connection_delay`](#)

Introduced in version 5.7.17

- **daemonize**

Introduced in version 5.7.6

- **default-authentication-plugin**

Removed in version 5.7.2

- **default_authentication_plugin**

Introduced in version 5.7.2

- **default_password_lifetime**

Introduced in version 5.7.4

Value parameter changes in version 5.7.11:

- Default is 0, minimum is 0, maximum is 65535

- **des-key-file**

Deprecated in version 5.7.6

- **disable-partition-engine-check**

Introduced in version 5.7.17

Deprecated in version 5.7.17

Value parameter changes in version 5.7.21:

- Default is ON

- **disabled_storage_engines**

Introduced in version 5.7.8

- **disconnect_on_expired_password**

Introduced in version 5.7.1

- **early-plugin-load**

Introduced in version 5.7.11

Value parameter changes in version 5.7.12:

- Default is empty string

- **enforce_gtid_consistency**

Value parameter changes in version 5.7.6:

- Default is OFF

- **eq_range_index_dive_limit**

Value parameter changes in version 5.7.4:

- Default is 200, minimum is 0, maximum is 4294967295

- **`executed_gtids_compression_period`**
Introduced in version 5.7.5
Removed in version 5.7.6
- **`Firewall_access_denied`**
Introduced in version 5.7.9
- **`Firewall_access_granted`**
Introduced in version 5.7.9
- **`Firewall_cached_entries`**
Introduced in version 5.7.9
- **`group_replication_allow_local_disjoint_gtids_join`**
Introduced in version 5.7.17
Deprecated in version 5.7.21
- **`group_replication_allow_local_lower_version_join`**
Introduced in version 5.7.17
- **`group_replication_auto_increment_increment`**
Introduced in version 5.7.17
- **`group_replication_bootstrap_group`**
Introduced in version 5.7.17
- **`group_replication_components_stop_timeout`**
Introduced in version 5.7.17
- **`group_replication_compression_threshold`**
Introduced in version 5.7.17
- **`group_replication_enforce_update_everywhere_checks`**
Introduced in version 5.7.17
- **`group_replication_exit_state_action`**
Introduced in version 5.7.24
- **`group_replication_flow_control_applier_threshold`**
Introduced in version 5.7.17
- **`group_replication_flow_control_certifier_threshold`**
Introduced in version 5.7.17
- **`group_replication_flow_control_mode`**
Introduced in version 5.7.17
- **`group_replication_force_members`**

Introduced in version 5.7.17

- `group_replication_group_name`

Introduced in version 5.7.17

- `group_replication_group_seeds`

Introduced in version 5.7.17

- `group_replication_gtid_assignment_block_size`

Introduced in version 5.7.17

- `group_replication_ip_whitelist`

Introduced in version 5.7.17

- `group_replication_local_address`

Introduced in version 5.7.17

- `group_replication_member_weight`

Introduced in version 5.7.20

- `group_replication_poll_spin_loops`

Introduced in version 5.7.17

- `group_replication_recovery_complete_at`

Introduced in version 5.7.17

- `group_replication_recovery_reconnect_interval`

Introduced in version 5.7.17

- `group_replication_recovery_retry_count`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_ca`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_capath`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_cert`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_cipher`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_crl`

Introduced in version 5.7.17

- `group_replication_recovery_ssl_crlpath`

Introduced in version 5.7.17

- **group_replication_recovery_ssl_key**
Introduced in version 5.7.17
- **group_replication_recovery_ssl_verify_server_cert**
Introduced in version 5.7.17
- **group_replication_recovery_use_ssl**
Introduced in version 5.7.17
- **group_replication_single_primary_mode**
Introduced in version 5.7.17
- **group_replication_ssl_mode**
Introduced in version 5.7.17
- **group_replication_start_on_boot**
Introduced in version 5.7.17
- **group_replication_transaction_size_limit**
Introduced in version 5.7.19
Value parameter changes in version 5.7.38:
 - Default is 150000000, minimum is 0, maximum is 2147483647
- **group_replication_unreachable_majority_timeout**
Introduced in version 5.7.19
- **gtid_executed_compression_period**
Introduced in version 5.7.6
- **gtid_mode**
Value parameter changes in version 5.7.6:
 - Default is OFF
- **have_crypt**
Deprecated in version 5.7.6
- **have_query_cache**
Deprecated in version 5.7.20
- **have_statement_timeout**
Introduced in version 5.7.4
- **ignore-db-dir**
Deprecated in version 5.7.16
- **ignore_db_dirs**
Deprecated in version 5.7.16

- [**initialize**](#)

Introduced in version 5.7.6

- [**initialize-insecure**](#)

Introduced in version 5.7.6

- [**innodb**](#)

Deprecated in version 5.7.5

- [**innodb_adaptive_hash_index_parts**](#)

Introduced in version 5.7.8

- [**innodb_additional_mem_pool_size**](#)

Removed in version 5.7.4

- [**Innodb_available_undo_logs**](#)

Deprecated in version 5.7.19

- [**innodb_background_drop_list_empty**](#)

Introduced in version 5.7.10

- [**innodb_buffer_pool_chunk_size**](#)

Introduced in version 5.7.5

- [**innodb_buffer_pool_dump_at_shutdown**](#)

Value parameter changes in version 5.7.7:

- Default is ON

- [**innodb_buffer_pool_dump_pct**](#)

Introduced in version 5.7.2

Value parameter changes in version 5.7.7:

- Default is 25, minimum is 1, maximum is 100

- [**innodb_buffer_pool_load_at_startup**](#)

Value parameter changes in version 5.7.7:

- Default is ON

- [**Innodb_buffer_pool_resize_status**](#)

Introduced in version 5.7.5

- [**innodb_checksum_algorithm**](#)

Value parameter changes in version 5.7.7:

- Default is crc32

- [**innodb_compress_debug**](#)

Introduced in version 5.7.8

- [`innodb_deadlock_detect`](#)

Introduced in version 5.7.15

- [`innodb_default_row_format`](#)

Introduced in version 5.7.9

- [`innodb_disable_resize_buffer_pool_debug`](#)

Introduced in version 5.7.6

- [`innodb_file_format`](#)

Deprecated in version 5.7.7

Value parameter changes in version 5.7.7:

- Default is Barracuda

- [`innodb_file_format_check`](#)

Deprecated in version 5.7.7

- [`innodb_file_format_max`](#)

Deprecated in version 5.7.7

Value parameter changes in version 5.7.9:

- Default is Barracuda

- [`innodb_fill_factor`](#)

Introduced in version 5.7.5

- [`innodb_flush_sync`](#)

Introduced in version 5.7.8

- [`innodb_ft_max_token_size`](#)

Value parameter changes in version 5.7.3:

- Default is 84, minimum is 10, maximum is 84

- [`innodb_ft_result_cache_limit`](#)

Introduced in version 5.7.2

Value parameter changes in version 5.7.4:

- Default is 2000000000, minimum is 1000000, maximum is $2^{32}-1$

- [`innodb_ft_total_cache_size`](#)

Introduced in version 5.7.2

- [`innodb_large_prefix`](#)

Deprecated in version 5.7.7

Value parameter changes in version 5.7.7:

- Default is ON

- [`innodb_log_buffer_size`](#)

Value parameter changes in version 5.7.6:

- Default is 16777216, minimum is 1048576, maximum is 4294967295

- [`innodb_log_checkpoint_now`](#)

Introduced in version 5.7.2

- [`innodb_log_checksum_algorithm`](#)

Introduced in version 5.7.8

Removed in version 5.7.9

- [`innodb_log_checksums`](#)

Introduced in version 5.7.9

- [`innodb_log_file_size`](#)

Value parameter changes in version 5.7.11:

- Default is 50331648, minimum is 4194304, maximum is 512GB / innodb_log_files_in_group

- [`innodb_log_write_ahead_size`](#)

Introduced in version 5.7.4

- [`innodb_max_dirty_pages_pct`](#)

Value parameter changes in version 5.7.5:

- Default is 75, minimum is 0, maximum is 99.999

- [`innodb_max_dirty_pages_pct_lwm`](#)

Value parameter changes in version 5.7.5:

- Default is 0, minimum is 0, maximum is 99.999

- [`innodb_max_undo_log_size`](#)

Introduced in version 5.7.5

- [`innodb_merge_threshold_set_all_debug`](#)

Introduced in version 5.7.6

- [`innodb numa_interleave`](#)

Introduced in version 5.7.9

- [`innodb_optimize_point_storage`](#)

Introduced in version 5.7.5

Removed in version 5.7.6

- [`innodb_page_cleaners`](#)

Introduced in version 5.7.4

Value parameter changes in version 5.7.8:

- Default is 4, minimum is 1, maximum is 64

- **`innodb_page_size`**

Value parameter changes in version 5.7.6:

- Default is 16384

- **`innodb_purge_rseg_truncate_frequency`**

Introduced in version 5.7.5

- **`innodb_purge_threads`**

Value parameter changes in version 5.7.8:

- Default is 4, minimum is 1, maximum is 32

- **`innodb_stats_include_delete_marked`**

Introduced in version 5.7.17

- **`innodb_status_output`**

Introduced in version 5.7.4

- **`innodb_status_output_locks`**

Introduced in version 5.7.4

- **`innodb_strict_mode`**

Value parameter changes in version 5.7.7:

- Default is ON

- **`innodb_support_xa`**

Deprecated in version 5.7.10

- **`innodb_sync_debug`**

Introduced in version 5.7.8

- **`innodb_temp_data_file_path`**

Introduced in version 5.7.1

- **`innodb_thread_sleep_delay`**

Value parameter changes in version 5.7.4:

- Default is 10000, minimum is 0, maximum is 1000000

- **`innodb_tmpdir`**

Introduced in version 5.7.11

- **`innodb_undo_directory`**

Value parameter changes in version 5.7.8:

- Default is not specified

- [`innodb_undo_log_truncate`](#)

Introduced in version 5.7.5

- [`innodb_undo_logs`](#)

Deprecated in version 5.7.19

- [`innodb_undo_tablespaces`](#)

Deprecated in version 5.7.21

Value parameter changes in version 5.7.8:

- Default is 0, minimum is 0, maximum is 95

- [`innodb_use_sys_malloc`](#)

Removed in version 5.7.4

- [`internal_tmp_disk_storage_engine`](#)

Introduced in version 5.7.5

Value parameter changes in version 5.7.6:

- Default is INNODB

- [`keyring_aws_cmk_id`](#)

Introduced in version 5.7.19

- [`keyring_aws_conf_file`](#)

Introduced in version 5.7.19

- [`keyring_aws_data_file`](#)

Introduced in version 5.7.19

- [`keyring_aws_region`](#)

Introduced in version 5.7.19

Value parameter changes in version 5.7.27:

- Default is us-east-1

Value parameter changes in version 5.7.39:

- Default is us-east-1

- [`keyring_encrypted_file_data`](#)

Introduced in version 5.7.21

- [`keyring_encrypted_file_password`](#)

Introduced in version 5.7.21

- [`keyring_file_data`](#)

Introduced in version 5.7.11

- [`keyring-migration-destination`](#)

Introduced in version 5.7.21

- **keyring-migration-host**

Introduced in version 5.7.21

- **keyring-migration-password**

Introduced in version 5.7.21

- **keyring-migration-port**

Introduced in version 5.7.21

- **keyring-migration-socket**

Introduced in version 5.7.21

- **keyring-migration-source**

Introduced in version 5.7.21

- **keyring-migration-user**

Introduced in version 5.7.21

- **keyring_okv_conf_dir**

Introduced in version 5.7.12

- **keyring_operations**

Introduced in version 5.7.21

- **Locked_connects**

Introduced in version 5.7.6

- **log_backward_compatible_user_definitions**

Introduced in version 5.7.6

Removed in version 5.7.9

- **log_builtin_as_identified_by_password**

Introduced in version 5.7.9

- **log_error_verbosity**

Introduced in version 5.7.2

- **log-slow-admin-statements**

Removed in version 5.7.1

- **log_slow_admin_statements**

Introduced in version 5.7.1

- **log-slow-slave-statements**

Removed in version 5.7.1

- **`log_slow_slave_statements`**

Introduced in version 5.7.1

- **`log_statements_unsafe_for_binlog`**

Introduced in version 5.7.11

- **`log_syslog`**

Introduced in version 5.7.5

- **`log_syslog_facility`**

Introduced in version 5.7.5

- **`log_syslog_include_pid`**

Introduced in version 5.7.5

- **`log_syslog_tag`**

Introduced in version 5.7.5

- **`log-tc-size`**

Value parameter changes in version 5.7.21 (bitsize=64):

- Default is 6 * page size, minimum is 6 * page size, maximum is 18446744073709551615

Value parameter changes in version 5.7.21 (bitsize=32):

- Default is 6 * page size, minimum is 6 * page size, maximum is 4294967295

- **`log_timestamps`**

Introduced in version 5.7.2

- **`log-warnings`**

Deprecated in version 5.7.2

Value parameter changes in version 5.7.2 (bitsize=64):

- Default is 2, minimum is 0, maximum is 18446744073709551615

Value parameter changes in version 5.7.2 (bitsize=32):

- Default is 2, minimum is 0, maximum is 4294967295

- **`max_digest_length`**

Introduced in version 5.7.6

- **`max_execution_time`**

Introduced in version 5.7.8

- **`Max_execution_time_exceeded`**

Introduced in version 5.7.8

- **`Max_execution_time_set`**

Introduced in version 5.7.8

- [`Max_execution_time_set_failed`](#)

Introduced in version 5.7.8

- [`max_points_in_geometry`](#)

Introduced in version 5.7.8

- [`max_statement_time`](#)

Introduced in version 5.7.4

Removed in version 5.7.8

- [`Max_statement_time_exceeded`](#)

Introduced in version 5.7.4

Removed in version 5.7.8

- [`Max_statement_time_set`](#)

Introduced in version 5.7.4

Removed in version 5.7.8

- [`Max_statement_time_set_failed`](#)

Introduced in version 5.7.4

Removed in version 5.7.8

- [`Max_used_connections_time`](#)

Introduced in version 5.7.5

- [`mecab_charset`](#)

Introduced in version 5.7.6

- [`mecab_rc_file`](#)

Introduced in version 5.7.6

- [`metadata_locks_cache_size`](#)

Deprecated in version 5.7.4

- [`metadata_locks_hash_instances`](#)

Deprecated in version 5.7.4

- [`myisam_repair_threads`](#)

Removed in version 5.7.39

Deprecated in version 5.7.38

- [`mysql_firewall_mode`](#)

Introduced in version 5.7.9

- [`mysql_firewall_trace`](#)

Introduced in version 5.7.9

- **mysql_native_password_proxy_users**

Introduced in version 5.7.7

- **mysqlx**

Introduced in version 5.7.12

- **mysqlx_bind_address**

Introduced in version 5.7.17

- **mysqlx_connect_timeout**

Introduced in version 5.7.12

- **mysqlx_idle_worker_thread_timeout**

Introduced in version 5.7.12

- **mysqlx_max_allowed_packet**

Introduced in version 5.7.12

- **mysqlx_max_connections**

Introduced in version 5.7.12

- **mysqlx_min_worker_threads**

Introduced in version 5.7.12

- **mysqlx_port**

Introduced in version 5.7.12

- **mysqlx_port_open_timeout**

Introduced in version 5.7.17

- **mysqlx_socket**

Introduced in version 5.7.15

- **mysqlx_ssl_ca**

Introduced in version 5.7.12

- **mysqlx_ssl_capath**

Introduced in version 5.7.12

- **mysqlx_ssl_cert**

Introduced in version 5.7.12

- **mysqlx_ssl_cipher**

Introduced in version 5.7.12

- **mysqlx_ssl_crl**

Introduced in version 5.7.12

- **mysqlx_ssl_crlpath**

Introduced in version 5.7.12

- [mysqlx_ssl_key](#)

Introduced in version 5.7.12

- [named_pipe_full_access_group](#)

Introduced in version 5.7.25

- [ndb-allow-copying-alter-table](#)

Introduced in version 5.7.10-ndb-7.5.0

- [ndb-batch-size](#)

Value parameter changes in version 5.7.37-ndb-7.5.26:

- Default is 32768, minimum is 0, maximum is 2147483648

Value parameter changes in version 5.7.37-ndb-7.6.22:

- Default is 32768, minimum is 0, maximum is 2147483648

- [ndb_cache_check_time](#)

Deprecated in version 5.7.20

- [ndb-cluster-connection-pool-nodeids](#)

Introduced in version 5.7.10-ndb-7.5.0

- [ndb_data_node_neighbour](#)

Introduced in version 5.7.12-ndb-7.5.2

- [ndb-default-column-format](#)

Introduced in version 5.7.11-ndb-7.5.1

Value parameter changes in version 5.7.16-ndb-7.5.4:

- Default is FIXED

- [ndb_default_column_format](#)

Introduced in version 5.7.11-ndb-7.5.1

Value parameter changes in version 5.7.16-ndb-7.5.4:

- Default is FIXED

- [ndb_eventbuffer_max_alloc](#)

Value parameter changes in version 5.7.35-ndb-7.5.23:

- Default is 0, minimum is 0, maximum is 9223372036854775807

Value parameter changes in version 5.7.35-ndb-7.6.19:

- Default is 0, minimum is 0, maximum is 9223372036854775807

- [ndb_fully_replicated](#)

Introduced in version 5.7.12-ndb-7.5.2

- [**ndb-log-fail-terminate**](#)

Introduced in version 5.7.29-ndb-7.6.14

- [**ndb-log-update-minimal**](#)

Introduced in version 5.7.18-ndb-7.6.3

- [**ndb_read_backup**](#)

Introduced in version 5.7.12-ndb-7.5.2

- [**ndb_report_thresh_binlog_epoch_slip**](#)

Value parameter changes in version 5.7.16-ndb-7.5.4:

- Default is 10, minimum is 0, maximum is 256

- [**ndb_row_checksum**](#)

Introduced in version 5.7.23-ndb-7.6.8

- [**Ndb_system_name**](#)

Introduced in version 5.7.18-ndb-7.6.2

- [**ngram_token_size**](#)

Introduced in version 5.7.6

- [**offline_mode**](#)

Introduced in version 5.7.5

- [**old_passwords**](#)

Deprecated in version 5.7.6

Value parameter changes in version 5.7.5:

- Default is 0

- [**optimizer_switch**](#)

Value parameter changes in version 5.7.5:

- Default is not specified

Value parameter changes in version 5.7.6:

- Default is not specified

Value parameter changes in version 5.7.8:

- Default is not specified

Value parameter changes in version 5.7.33:

- Default is not specified

- [**parser_max_mem_size**](#)

Introduced in version 5.7.12

- [`partition`](#)

Deprecated in version 5.7.16

- [`performance_schema_accounts_size`](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [`performance-schema-consumer-events-transactions-current`](#)

Introduced in version 5.7.3

- [`performance-schema-consumer-events-transactions-history`](#)

Introduced in version 5.7.3

- [`performance-schema-consumer-events-transactions-history-long`](#)

Introduced in version 5.7.3

- [`performance_schema_events_transactions_history_long_size`](#)

Introduced in version 5.7.3

- [`performance_schema_events_transactions_history_size`](#)

Introduced in version 5.7.3

- [`performance_schema_hosts_size`](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [`Performance_schema_index_stat_lost`](#)

Introduced in version 5.7.6

- [`performance_schema_max_cond_instances`](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [`performance_schema_max_digest_length`](#)

Introduced in version 5.7.8

- [`performance_schema_max_file_classes`](#)

Value parameter changes in version 5.7.9:

- Default is 80, minimum is 0, maximum is 256

- [`performance_schema_max_file_instances`](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- **performance_schema_max_index_stat**

Introduced in version 5.7.6

- **performance_schema_max_memory_classes**

Introduced in version 5.7.2

Value parameter changes in version 5.7.5:

- Default is 320, minimum is 0, maximum is 1024

- **performance_schema_max_metadata_locks**

Introduced in version 5.7.3

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 10485760

- **performance_schema_max_mutex_instances**

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 104857600

- **performance_schema_max_prepared_statements_instances**

Introduced in version 5.7.4

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 4194304

- **performance_schema_max_program_instances**

Introduced in version 5.7.2

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- **performance_schema_max_rwlock_classes**

Value parameter changes in version 5.7.3:

- Default is 40, minimum is 0, maximum is 256

Value parameter changes in version 5.7.25:

- Default is 50, minimum is 0, maximum is 256

- **performance_schema_max_socket_instances**

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- [**performance_schema_max_sql_text_length**](#)
Introduced in version 5.7.6
- [**performance_schema_max_statement_stack**](#)
Introduced in version 5.7.2
- [**performance_schema_max_table_handles**](#)
Value parameter changes in version 5.7.6:
 - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- [**performance_schema_max_table_lock_stat**](#)
Introduced in version 5.7.6
- [**Performance_schema_memory_classes_lost**](#)
Introduced in version 5.7.2
- [**Performance_schema_metadata_lock_lost**](#)
Introduced in version 5.7.3
- [**Performance_schema_nested_statement_lost**](#)
Introduced in version 5.7.2
- [**Performance_schema_prepared_statements_lost**](#)
Introduced in version 5.7.4
- [**Performance_schema_program_lost**](#)
Introduced in version 5.7.2
- [**performance_schema_setup_actors_size**](#)
Value parameter changes in version 5.7.6:
 - Default is -1 (signifies autosizing; do not assign this literal value), minimum is -1 (signifies autosizing; do not assign this literal value), maximum is 1048576
- [**performance_schema_setup_objects_size**](#)
Value parameter changes in version 5.7.6:
 - Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576
- [**performance_schema_show_processlist**](#)
Introduced in version 5.7.39
- [**Performance_schema_table_lock_stat_lost**](#)
Introduced in version 5.7.6

- [`performance_schema_users_size`](#)

Value parameter changes in version 5.7.6:

- Default is -1 (signifies autoscaling; do not assign this literal value), minimum is -1 (signifies autoscaling; do not assign this literal value), maximum is 1048576

- [`Qcache_free_blocks`](#)

Deprecated in version 5.7.20

- [`Qcache_free_memory`](#)

Deprecated in version 5.7.20

- [`Qcache_hits`](#)

Deprecated in version 5.7.20

- [`Qcache_inserts`](#)

Deprecated in version 5.7.20

- [`Qcache_lowmem_prunes`](#)

Deprecated in version 5.7.20

- [`Qcache_not_cached`](#)

Deprecated in version 5.7.20

- [`Qcache_queries_in_cache`](#)

Deprecated in version 5.7.20

- [`Qcache_total_blocks`](#)

Deprecated in version 5.7.20

- [`query_alloc_block_size`](#)

Value parameter changes in version 5.7.9:

- Default is 8192, minimum is 1024, maximum is 4294966272

- [`query_cache_limit`](#)

Deprecated in version 5.7.20

- [`query_cache_min_res_unit`](#)

Deprecated in version 5.7.20

- [`query_cache_size`](#)

Deprecated in version 5.7.20

- [`query_cache_type`](#)

Deprecated in version 5.7.20

- [`query_cache_wlock_invalidate`](#)

Deprecated in version 5.7.20

- **range_alloc_block_size**

Value parameter changes in version 5.7.8 (bitsize=64):

- Default is 4096, minimum is 4096, maximum is 18446744073709550592

Value parameter changes in version 5.7.9:

- Default is 4096, minimum is 4096, maximum is 4294966272

- **range_optimizer_max_mem_size**

Introduced in version 5.7.9

Value parameter changes in version 5.7.12:

- Default is 8388608, minimum is 0, maximum is 18446744073709551615

- **rbr_exec_mode**

Introduced in version 5.7.1

- **replication_optimize_for_static_plugin_config**

Introduced in version 5.7.33

- **replication_sender_observe_commit_only**

Introduced in version 5.7.33

- **require_secure_transport**

Introduced in version 5.7.8

- **rewriter_enabled**

Introduced in version 5.7.6

- **Rewriter_number_loaded_rules**

Introduced in version 5.7.6

- **Rewriter_number_reloads**

Introduced in version 5.7.6

- **Rewriter_number_rewritten_queries**

Introduced in version 5.7.6

- **Rewriter_reload_error**

Introduced in version 5.7.6

- **rewriter_verbose**

Introduced in version 5.7.6

- **rpl_semi_sync_master_wait_for_slave_count**

Introduced in version 5.7.3

- **rpl_semi_sync_master_wait_point**

Introduced in version 5.7.2

- **rpl_stop_slave_timeout**

Introduced in version 5.7.2

- **secure_auth**

Deprecated in version 5.7.5

Value parameter changes in version 5.7.5:

- Default is ON

- **secure_file_priv**

Value parameter changes in version 5.7.6:

- Default is platform specific

- **session_track_gtids**

Introduced in version 5.7.6

- **session_track_schema**

Introduced in version 5.7.4

- **session_track_state_change**

Introduced in version 5.7.4

- **session_track_system_variables**

Introduced in version 5.7.4

- **session_track_transaction_info**

Introduced in version 5.7.8

- **sha256_password_auto_generate_rsa_keys**

Introduced in version 5.7.5

- **sha256_password_proxy_users**

Introduced in version 5.7.7

- **show_compatibility_56**

Introduced in version 5.7.6

Deprecated in version 5.7.6

Value parameter changes in version 5.7.8:

- Default is OFF

- **show_create_table_verbosity**

Introduced in version 5.7.22

- **show_old_temporals**

Introduced in version 5.7.6

Deprecated in version 5.7.6

- **simplified_binlog_gtid_recovery**

Introduced in version 5.7.5

Removed in version 5.7.6

- **skip-partition**

Deprecated in version 5.7.16

- **Slave_heartbeat_period**

Deprecated in version 5.7.6

- **Slave_last_heartbeat**

Deprecated in version 5.7.6

- **slave_net_timeout**

Value parameter changes in version 5.7.7:

- Default is 60, minimum is 1, maximum is 31536000

- **slave_parallel_type**

Introduced in version 5.7.2

- **slave_preserve_commit_order**

Introduced in version 5.7.5

- **Slave_received_heartbeats**

Deprecated in version 5.7.6

- **Slave_retried_transactions**

Deprecated in version 5.7.6

- **Slave_running**

Deprecated in version 5.7.6

Value parameter changes in version 5.7.99:

- Default is not specified

- **slave_type_conversions**

Value parameter changes in version 5.7.2:

- Default is

- **sql-mode**

Value parameter changes in version 5.7.5:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_ENGINE_SUBSTITUTION

Value parameter changes in version 5.7.7:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_AUTO_CREATE_USER NO_ENGINE_SUBSTITUTION

Value parameter changes in version 5.7.8:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_ZERO_IN_DATE NO_ZERO_DATE ERROR_FOR_DIVISION_BY_ZERO NO_AUTO_CREATE_USER NO_ENGINE_SUBSTITUTION

- **ssl**

Value parameter changes in version 5.7.5:

- Default is ON

- **storage_engine**

Removed in version 5.7.5

- **stored_program_cache**

Value parameter changes in version 5.7.6:

- Default is 256, minimum is 16, maximum is 524288

- **super_read_only**

Introduced in version 5.7.8

- **sync_binlog**

Value parameter changes in version 5.7.7:

- Default is 1, minimum is 0, maximum is 4294967295

- **sync_frm**

Deprecated in version 5.7.6

- **table_open_cache_instances**

Value parameter changes in version 5.7.8:

- Default is 16, minimum is 1, maximum is 64

- **temp-pool**

Deprecated in version 5.7.18

- **thread_concurrency**

Removed in version 5.7.2

- **thread_handling**

Value parameter changes in version 5.7.9:

- Default is one-thread-per-connection

- **thread_pool_algorithm**

Introduced in version 5.7.9

- **thread_pool_high_priority_connection**

Introduced in version 5.7.9

- **thread_pool_max_unused_threads**

Introduced in version 5.7.9

- **thread_pool_prio_kickup_timer**

Introduced in version 5.7.9

- **thread_pool_size**

Introduced in version 5.7.9

- **thread_pool_stall_limit**

Introduced in version 5.7.9

- **timed_mutexes**

Removed in version 5.7.5

- **tls_version**

Introduced in version 5.7.10

Value parameter changes in version 5.7.28:

- Default is TLSv1,TLSv1.1,TLSv1.2

- **transaction_alloc_block_size**

Value parameter changes in version 5.7.6:

- Default is 8192, minimum is 1024, maximum is 131072

- **transaction_prealloc_size**

Value parameter changes in version 5.7.6:

- Default is 4096, minimum is 1024, maximum is 131072

- **transaction_write_set_extraction**

Introduced in version 5.7.6

Value parameter changes in version 5.7.14:

- Default is OFF

- **tx_isolation**

Deprecated in version 5.7.20

- **tx_read_only**

Deprecated in version 5.7.20

- **validate_password_check_user_name**

Introduced in version 5.7.15

- **validate_password_dictionary_file_last_parsed**

Introduced in version 5.7.8

- **validate_password_dictionary_file_words_count**

Introduced in version 5.7.8

- [`version_tokens_session`](#)

Introduced in version 5.7.8

- [`version_tokens_session_number`](#)

Introduced in version 5.7.8

1.2 Option and Variable Changes for MySQL 8.0

The following list details the changes to specific options and variables within MySQL 8.0.

- [`abort-slave-event-count`](#)

Deprecated in version 8.0.29

- [`Acl_cache_items_count`](#)

Introduced in version 8.0.0

- [`activate_all_roles_on_login`](#)

Introduced in version 8.0.2

- [`admin_address`](#)

Introduced in version 8.0.14

- [`admin_port`](#)

Introduced in version 8.0.14

- [`admin-ssl`](#)

Introduced in version 8.0.21

Deprecated in version 8.0.26

- [`admin_ssl_ca`](#)

Introduced in version 8.0.21

- [`admin_ssl_capath`](#)

Introduced in version 8.0.21

- [`admin_ssl_cert`](#)

Introduced in version 8.0.21

- [`admin_ssl_cipher`](#)

Introduced in version 8.0.21

- [`admin_ssl_crl`](#)

Introduced in version 8.0.21

- [`admin_ssl_crlpath`](#)

Introduced in version 8.0.21

- **admin_ssl_key**
Introduced in version 8.0.21
- **admin_tls_ciphersuites**
Introduced in version 8.0.21
- **admin_tls_version**
Introduced in version 8.0.21

Value parameter changes in version 8.0.28:
 - Default is TLSv1.2,TLSv1.3
- **audit-log**
Introduced in version 8.0.11
- **audit_log_buffer_size**
Introduced in version 8.0.11
- **audit_log_compression**
Introduced in version 8.0.11
- **audit_log_connection_policy**
Introduced in version 8.0.11

Deprecated in version 8.0.34
- **audit_log_current_session**
Introduced in version 8.0.11
- **Audit_log_current_size**
Introduced in version 8.0.11
- **audit_log_database**
Introduced in version 8.0.33
- **audit_log_disable**
Introduced in version 8.0.28
- **audit_log_encryption**
Introduced in version 8.0.11
- **Audit_log_event_max_drop_size**
Introduced in version 8.0.11
- **Audit_log_events**
Introduced in version 8.0.11
- **Audit_log_events_filtered**
Introduced in version 8.0.11

- **`Audit_log_events_lost`**
Introduced in version 8.0.11
- **`Audit_log_events_written`**
Introduced in version 8.0.11
- **`audit_log_exclude_accounts`**
Introduced in version 8.0.11
Deprecated in version 8.0.34
- **`audit_log_file`**
Introduced in version 8.0.11
- **`audit_log_filter_id`**
Introduced in version 8.0.11
- **`audit_log_flush`**
Introduced in version 8.0.11
- **`audit_log_flush_interval_seconds`**
Introduced in version 8.0.34
- **`audit_log_format`**
Introduced in version 8.0.11
- **`audit_log_format_unix_timestamp`**
Introduced in version 8.0.26
- **`audit_log_include_accounts`**
Introduced in version 8.0.11
Deprecated in version 8.0.34
- **`audit_log_max_size`**
Introduced in version 8.0.26
- **`audit_log_password_history_keep_days`**
Introduced in version 8.0.17
- **`audit_log_policy`**
Introduced in version 8.0.11
Deprecated in version 8.0.34
- **`audit_log_prune_seconds`**
Introduced in version 8.0.24
- **`audit_log_read_buffer_size`**
Introduced in version 8.0.11

Value parameter changes in version 8.0.12:

- Default is 32768, minimum is 32768, maximum is 4194304

- **`audit_log_rotate_on_size`**

Introduced in version 8.0.11

- **`audit_log_statement_policy`**

Introduced in version 8.0.11

Deprecated in version 8.0.34

- **`audit_log_strategy`**

Introduced in version 8.0.11

- **`Audit_log_total_size`**

Introduced in version 8.0.11

- **`Audit_log_write_waits`**

Introduced in version 8.0.11

- **`authentication_fido_rp_id`**

Introduced in version 8.0.27

Deprecated in version 8.0.35

- **`authentication_kerberos_service_key_tab`**

Introduced in version 8.0.26

- **`authentication_kerberos_service_principal`**

Introduced in version 8.0.26

- **`authentication_ldap_sasl_auth_method_name`**

Introduced in version 8.0.11

Value parameter changes in version 8.0.20:

- Default is SCRAM-SHA-1

Value parameter changes in version 8.0.23:

- Default is SCRAM-SHA-1

- **`authentication_ldap_sasl_bind_base_dn`**

Introduced in version 8.0.11

- **`authentication_ldap_sasl_bind_root_dn`**

Introduced in version 8.0.11

- **`authentication_ldap_sasl_bind_root_pwd`**

Introduced in version 8.0.11

- **`authentication_ldap_sasl_ca_path`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_group_search_attr`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_group_search_filter`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_init_pool_size`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_log_status`**
Introduced in version 8.0.11
Value parameter changes in version 8.0.18:
 - Default is 1, minimum is 1, maximum is 6
- **`authentication_ldap_sasl_max_pool_size`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_referral`**
Introduced in version 8.0.20
- **`authentication_ldap_sasl_server_host`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_server_port`**
Introduced in version 8.0.11
- **`Authentication_ldap_sasl_supported_methods`**
Introduced in version 8.0.21
- **`authentication_ldap_sasl_tls`**
Introduced in version 8.0.11
- **`authentication_ldap_sasl_user_search_attr`**
Introduced in version 8.0.11
- **`authentication_ldap_simple_auth_method_name`**
Introduced in version 8.0.11
- **`authentication_ldap_simple_bind_base_dn`**
Introduced in version 8.0.11
- **`authentication_ldap_simple_bind_root_dn`**
Introduced in version 8.0.11
- **`authentication_ldap_simple_bind_root_pwd`**

Introduced in version 8.0.11

- [`authentication_ldap_simple_ca_path`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_group_search_attr`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_group_search_filter`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_init_pool_size`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_log_status`](#)

Introduced in version 8.0.11

Value parameter changes in version 8.0.18:

- Default is 1, minimum is 1, maximum is 6

- [`authentication_ldap_simple_max_pool_size`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_referral`](#)

Introduced in version 8.0.20

- [`authentication_ldap_simple_server_host`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_server_port`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_tls`](#)

Introduced in version 8.0.11

- [`authentication_ldap_simple_user_search_attr`](#)

Introduced in version 8.0.11

- [`authentication_policy`](#)

Introduced in version 8.0.27

- [`authentication_windows_log_level`](#)

Introduced in version 8.0.11

- [`authentication_windows_use_principal_name`](#)

Introduced in version 8.0.11

- [`basedir`](#)

Value parameter changes in version 8.0.2:

- Default is parent of mysqld installation directory

- **`binlog_encryption`**

Introduced in version 8.0.14

- **`binlog_expire_logs_auto_purge`**

Introduced in version 8.0.29

- **`binlog_expire_logs_seconds`**

Introduced in version 8.0.1

Value parameter changes in version 8.0.11:

- Default is 2592000, minimum is 0, maximum is 4294967295

- **`binlog_format`**

Deprecated in version 8.0.34

- **`binlog_rotate_encryption_master_key_at_startup`**

Introduced in version 8.0.14

- **`binlog_row_metadata`**

Introduced in version 8.0.1

- **`binlog_row_value_options`**

Introduced in version 8.0.3

- **`binlog_transaction_compression`**

Introduced in version 8.0.20

- **`binlog_transaction_compression_level_zstd`**

Introduced in version 8.0.20

- **`binlog_transaction_dependency_history_size`**

Introduced in version 8.0.1

- **`binlog_transaction_dependency_tracking`**

Introduced in version 8.0.1

Deprecated in version 8.0.35

- **`build_id`**

Introduced in version 8.0.31

- **`caching_sha2_password_auto_generate_rsa_keys`**

Introduced in version 8.0.4

- **`caching_sha2_password_digest_rounds`**

Introduced in version 8.0.24

- [`caching_sha2_password_private_key_path`](#)

Introduced in version 8.0.3

- [`caching_sha2_password_public_key_path`](#)

Introduced in version 8.0.3

- [`Caching_sha2_password_rsa_public_key`](#)

Introduced in version 8.0.4

- [`character_set_client`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4

- [`character-set-client-handshake`](#)

Deprecated in version 8.0.35

- [`character_set_connection`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4

- [`character_set_database`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4

- [`character_set_results`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4

- [`character_set_server`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4

- [`character_set_system`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb3

- [`check-table-functions`](#)

Introduced in version 8.0.42

- [`clone_autotune_concurrency`](#)

Introduced in version 8.0.17

- [`clone_block_ddl`](#)

Introduced in version 8.0.27

- [`clone_buffer_size`](#)

Introduced in version 8.0.17

- [`clone_ddl_timeout`](#)

Introduced in version 8.0.17

- [`clone_delay_after_data_drop`](#)

Introduced in version 8.0.29

- [`clone_donor_timeout_after_network_failure`](#)

Introduced in version 8.0.24

- [`clone_enable_compression`](#)

Introduced in version 8.0.17

- [`clone_max_concurrency`](#)

Introduced in version 8.0.17

- [`clone_max_data_bandwidth`](#)

Introduced in version 8.0.17

- [`clone_max_network_bandwidth`](#)

Introduced in version 8.0.17

- [`clone_ssl_ca`](#)

Introduced in version 8.0.14

- [`clone_ssl_cert`](#)

Introduced in version 8.0.14

- [`clone_ssl_key`](#)

Introduced in version 8.0.14

- [`clone_valid_donor_list`](#)

Introduced in version 8.0.17

- [`collation_database`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4_0900_ai_ci

- [`collation_server`](#)

Value parameter changes in version 8.0.1:

- Default is utf8mb4_0900_ai_ci

- [`Com.Alter_Resource_Group`](#)

Introduced in version 8.0.3

- [Com_alter_user_default_role](#)

Introduced in version 8.0.0

- [Com_change_replication_source](#)

Introduced in version 8.0.23

- [Com_clone](#)

Introduced in version 8.0.2

- [Com_create_resource_group](#)

Introduced in version 8.0.3

- [Com_create_role](#)

Introduced in version 8.0.0

- [Com_drop_resource_group](#)

Introduced in version 8.0.3

- [Com_drop_role](#)

Introduced in version 8.0.0

- [Com_grant_roles](#)

Introduced in version 8.0.0

- [Com_install_component](#)

Introduced in version 8.0.0

- [Com_replica_start](#)

Introduced in version 8.0.22

- [Com_replica_stop](#)

Introduced in version 8.0.22

- [Com_restart](#)

Introduced in version 8.0.4

- [Com_revoke_roles](#)

Introduced in version 8.0.0

- [Com_set_resource_group](#)

Introduced in version 8.0.3

- [Com_set_role](#)

Introduced in version 8.0.0

- [Com_show_replica_status](#)

Introduced in version 8.0.22

- [Com_show_replicas](#)

Introduced in version 8.0.22

- [Com_uninstall_component](#)

Introduced in version 8.0.0

- [component_scheduler.enabled](#)

Introduced in version 8.0.34

- [Compression](#)

Deprecated in version 8.0.18

- [Compression_algorithm](#)

Introduced in version 8.0.18

- [Compression_level](#)

Introduced in version 8.0.18

- [Connection_control_delay_generated](#)

Introduced in version 8.0.1

- [connection_control_failed_connections_threshold](#)

Introduced in version 8.0.1

- [connection_control_max_connection_delay](#)

Introduced in version 8.0.1

- [connection_control_min_connection_delay](#)

Introduced in version 8.0.1

- [connection_memory_chunk_size](#)

Introduced in version 8.0.28

Value parameter changes in version 8.0.34:

- Default is 8192, minimum is 0, maximum is 536870912

- [connection_memory_limit](#)

Introduced in version 8.0.28

- [create_admin_listener_thread](#)

Introduced in version 8.0.14

- [cte_max_recursion_depth](#)

Introduced in version 8.0.3

- [Current_tls_ca](#)

Introduced in version 8.0.16

- [`Current_tls_capath`](#)

Introduced in version 8.0.16

- [`Current_tls_cert`](#)

Introduced in version 8.0.16

- [`Current_tls_cipher`](#)

Introduced in version 8.0.16

- [`Current_tls_ciphersuites`](#)

Introduced in version 8.0.16

- [`Current_tls_crl`](#)

Introduced in version 8.0.16

- [`Current_tls_crlpath`](#)

Introduced in version 8.0.16

- [`Current_tls_key`](#)

Introduced in version 8.0.16

- [`Current_tls_version`](#)

Introduced in version 8.0.16

- [`daemon_memcached_enable_binlog`](#)

Deprecated in version 8.0.22

- [`daemon_memcached_engine_lib_name`](#)

Deprecated in version 8.0.22

- [`daemon_memcached_engine_lib_path`](#)

Deprecated in version 8.0.22

- [`daemon_memcached_option`](#)

Deprecated in version 8.0.22

- [`daemon_memcached_r_batch_size`](#)

Deprecated in version 8.0.22

- [`daemon_memcached_w_batch_size`](#)

Deprecated in version 8.0.22

- [`date_format`](#)

Removed in version 8.0.3

- [`datetime_format`](#)

Removed in version 8.0.3

- [`ddl-rewriter`](#)

Introduced in version 8.0.16

- [`default_authentication_plugin`](#)

Deprecated in version 8.0.27

Value parameter changes in version 8.0.3:

- Default is `mysql_native_password`

Value parameter changes in version 8.0.4:

- Default is `caching_sha2_password`

- [`default_collation_for_utf8mb4`](#)

Introduced in version 8.0.11

- [`default_table_encryption`](#)

Introduced in version 8.0.16

- [`des-key-file`](#)

Removed in version 8.0.3

- [`disconnect-slave-event-count`](#)

Deprecated in version 8.0.29

- [`dragnet.log_error_filter_rules`](#)

Introduced in version 8.0.4

- [`dragnet.Status`](#)

Introduced in version 8.0.12

- [`early-plugin-load`](#)

Introduced in version 8.0.0

- [`enterprise_encryption.maximum_rsa_key_size`](#)

Introduced in version 8.0.30

- [`enterprise_encryption.rsa_support_legacy_padding`](#)

Introduced in version 8.0.30

- [`Error_log_buffered_bytes`](#)

Introduced in version 8.0.22

- [`Error_log_buffered_events`](#)

Introduced in version 8.0.22

- [`Error_log_expired_events`](#)

Introduced in version 8.0.22

- [`Error_log_latest_write`](#)

Introduced in version 8.0.22

- [`event_scheduler`](#)

Value parameter changes in version 8.0.3:

- Default is ON

- [`expire_logs_days`](#)

Deprecated in version 8.0.3

Value parameter changes in version 8.0.2:

- Default is 30, minimum is 0, maximum is 99

Value parameter changes in version 8.0.11:

- Default is 0, minimum is 0, maximum is 99

- [`explain_format`](#)

Introduced in version 8.0.32

- [`explicit_defaults_for_timestamp`](#)

Value parameter changes in version 8.0.2:

- Default is ON

- [`Firewall_access_denied`](#)

Introduced in version 8.0.11

- [`Firewall_access_granted`](#)

Introduced in version 8.0.11

- [`Firewall_cached_entries`](#)

Introduced in version 8.0.11

- [`generated_random_password_length`](#)

Introduced in version 8.0.18

- [`Global_connection_memory`](#)

Introduced in version 8.0.28

- [`global_connection_memory_limit`](#)

Introduced in version 8.0.28

- [`global_connection_memory_tracking`](#)

Introduced in version 8.0.28

- [`group_replication_advertise_recovery_endpoints`](#)

Introduced in version 8.0.21

- `group_replication_allow_local_disjoint_gtids_join`

Removed in version 8.0.4

- `group_replication_autorejoin_tries`

Introduced in version 8.0.16

Value parameter changes in version 8.0.21:

- Default is 3, minimum is 0, maximum is 2016

- `group_replication_clone_threshold`

Introduced in version 8.0.17

- `group_replication_communication_debug_options`

Introduced in version 8.0.3

- `group_replication_communication_max_message_size`

Introduced in version 8.0.16

- `group_replication_communication_stack`

Introduced in version 8.0.27

- `group_replication_components_stop_timeout`

Value parameter changes in version 8.0.27:

- Default is 300, minimum is 2, maximum is 31536000

- `group_replication_consistency`

Introduced in version 8.0.14

- `group_replication_exit_state_action`

Introduced in version 8.0.12

Value parameter changes in version 8.0.16:

- Default is READ_ONLY

Value parameter changes in version 8.0.18:

- Default is READ_ONLY

- `group_replication_flow_control_hold_percent`

Introduced in version 8.0.2

- `group_replication_flow_control_max_quota`

Introduced in version 8.0.2

- `group_replication_flow_control_member_quota_percent`

Introduced in version 8.0.2

- **group_replication_flow_control_min_quota**
Introduced in version 8.0.2
- **group_replication_flow_control_min_recovery_quota**
Introduced in version 8.0.2
- **group_replication_flow_control_period**
Introduced in version 8.0.2
- **group_replication_flow_control_release_percent**
Introduced in version 8.0.2
- **group_replication_ip_allowlist**
Introduced in version 8.0.22
- **group_replication_ip_whitelist**
Deprecated in version 8.0.22
- **group_replication_member_expel_timeout**
Introduced in version 8.0.13

Value parameter changes in version 8.0.14:

 - Default is 0, minimum is 0, maximum is 3600

Value parameter changes in version 8.0.21:

 - Default is 5, minimum is 0, maximum is 3600- **group_replication_member_weight**
Introduced in version 8.0.2
- **group_replication_message_cache_size**
Introduced in version 8.0.16

Value parameter changes in version 8.0.21 (bitsize=64):

 - Default is 1073741824 (1 GB), minimum is 134217728 (128 MB), maximum is 18446744073709551615 (16 EiB)

Value parameter changes in version 8.0.21 (bitsize=32):

 - Default is 1073741824 (1 GB), minimum is 134217728 (128 MB), maximum is 315360004294967295 (4 GB)- **group_replication_paxos_single_leader**
Introduced in version 8.0.27
- **group_replication_primary_member**
Deprecated in version 8.0.4
- **group_replication_recovery_complete_at**
Deprecated in version 8.0.34

- `group_replication_recovery_compression_algorithms`

Introduced in version 8.0.18

- `group_replication_recovery_get_public_key`

Introduced in version 8.0.4

- `group_replication_recovery_public_key_path`

Introduced in version 8.0.4

- `group_replication_recovery_tls_ciphersuites`

Introduced in version 8.0.19

- `group_replication_recovery_tls_version`

Introduced in version 8.0.19

Value parameter changes in version 8.0.28:

- Default is TLSv1.2,TLSv1.3

- `group_replication_recovery_zstd_compression_level`

Introduced in version 8.0.18

- `group_replication_tls_source`

Introduced in version 8.0.21

- `group_replication_unreachable_majority_timeout`

Introduced in version 8.0.2

- `group_replication_view_change_uuid`

Introduced in version 8.0.26

- `gtid_executed_compression_period`

Value parameter changes in version 8.0.23:

- Default is 0, minimum is 0, maximum is 4294967295

- `have_crypt`

Removed in version 8.0.3

- `have_openssl`

Deprecated in version 8.0.26

- `have_ssl`

Deprecated in version 8.0.26

- `histogram_generation_max_mem_size`

Introduced in version 8.0.2

- `ignore_builtin_innodb`

Removed in version 8.0.3

- [`immediate_server_version`](#)
Introduced in version 8.0.14
- [`information_schema_stats_expiry`](#)
Introduced in version 8.0.3
- [`init_replica`](#)
Introduced in version 8.0.26
- [`init_slave`](#)
Deprecated in version 8.0.26
- [`innodb_api_bk_commit_interval`](#)
Deprecated in version 8.0.22
- [`innodb_api_disable_rowlock`](#)
Deprecated in version 8.0.22
- [`innodb_api_enable_binlog`](#)
Deprecated in version 8.0.22
- [`innodb_api_enable_mdl`](#)
Deprecated in version 8.0.22
- [`innodb_api_trx_level`](#)
Deprecated in version 8.0.22
- [`innodb_autoinc_lock_mode`](#)
Value parameter changes in version 8.0.3:
 - Default is 2, minimum is not specified, maximum is not specified
- [`Innodb_available_undo_logs`](#)
Removed in version 8.0.2
- [`innodb_buffer_pool_debug`](#)
Introduced in version 8.0.0
- [`innodb_buffer_pool_in_core_file`](#)
Introduced in version 8.0.14
- [`Innodb_buffer_pool_resize_status_code`](#)
Introduced in version 8.0.31
- [`Innodb_buffer_pool_resize_status_progress`](#)
Introduced in version 8.0.31
- [`innodb_checkpoint_disabled`](#)
Introduced in version 8.0.2

- **`innodb_ddl_buffer_size`**

Introduced in version 8.0.27

- **`innodb_ddl_log_crash_reset_debug`**

Introduced in version 8.0.3

- **`innodb_ddl_threads`**

Introduced in version 8.0.27

- **`innodb_deadlock_detect`**

Introduced in version 8.0.0

- **`innodb-dedicated-server`**

Introduced in version 8.0.3

- **`innodb_directories`**

Introduced in version 8.0.4

- **`innodb_doublewrite`**

Value parameter changes in version 8.0.30:

- Default is ON

- **`innodb_doublewrite_batch_size`**

Introduced in version 8.0.20

- **`innodb_doublewrite_dir`**

Introduced in version 8.0.20

- **`innodb_doublewrite_files`**

Introduced in version 8.0.20

- **`innodb_doublewrite_pages`**

Introduced in version 8.0.20

- **`innodb_extend_and_initialize`**

Introduced in version 8.0.22

- **`innodb_flush_neighbors`**

Value parameter changes in version 8.0.3:

- Default is 0

- **`innodb_fsync_threshold`**

Introduced in version 8.0.13

- **`innodb_idle_flush_pct`**

Introduced in version 8.0.18

- **`innodb_log_checkpoint_fuzzy_now`**

Introduced in version 8.0.13

- [`innodb_log_file_size`](#)

Deprecated in version 8.0.30

- [`innodb_log_files_in_group`](#)

Deprecated in version 8.0.30

- [`innodb_log_spin_cpu_abs_lwm`](#)

Introduced in version 8.0.11

- [`innodb_log_spin_cpu_pct_hwm`](#)

Introduced in version 8.0.11

- [`innodb_log_wait_for_flush_spin_hwm`](#)

Introduced in version 8.0.11

- [`innodb_log_writer_threads`](#)

Introduced in version 8.0.22

- [`innodb_max_dirty_pages_pct`](#)

Value parameter changes in version 8.0.3:

- Default is 90, minimum is 0, maximum is 99.999

- [`innodb_max_dirty_pages_pct_lwm`](#)

Value parameter changes in version 8.0.3:

- Default is 10, minimum is 0, maximum is 99.999

- [`innodb_parallel_read_threads`](#)

Introduced in version 8.0.14

- [`innodb_print_ddl_logs`](#)

Introduced in version 8.0.3

- [`innodb_redo_log_archive_dirs`](#)

Introduced in version 8.0.17

- [`innodb_redo_log_capacity`](#)

Introduced in version 8.0.30

Value parameter changes in version 8.0.34:

- Default is 104857600, minimum is 8388608, maximum is 549755813888

- [`Innodb_redo_log_capacity_resized`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_checkpoint_lsn`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_current_lsn`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_enabled`](#)

Introduced in version 8.0.21

- [`innodb_redo_log_encrypt`](#)

Introduced in version 8.0.1

- [`Innodb_redo_log_flushed_to_disk_lsn`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_logical_size`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_physical_size`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_read_only`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_resize_status`](#)

Introduced in version 8.0.30

- [`Innodb_redo_log_uuid`](#)

Introduced in version 8.0.30

- [`innodb_scan_directories`](#)

Introduced in version 8.0.2

Removed in version 8.0.4

- [`innodb_segment_reserve_factor`](#)

Introduced in version 8.0.26

- [`innodb_spin_wait_delay`](#)

Value parameter changes in version 8.0.14:

- Default is 6, minimum is 0, maximum is 1000

- [`innodb_spin_wait_pause_multiplier`](#)

Introduced in version 8.0.16

- [`innodb_stats_include_delete_marked`](#)

Introduced in version 8.0.1

- [`Innodb_system_rows_deleted`](#)

Introduced in version 8.0.19

- [**Innodb_system_rows_inserted**](#)

Introduced in version 8.0.19

- [**Innodb_system_rows_read**](#)

Introduced in version 8.0.19

- [**Innodb_system_rows_updated**](#)

Introduced in version 8.0.19

- [**innodb_temp_tablespaces_dir**](#)

Introduced in version 8.0.13

- [**innodb_tmpdir**](#)

Introduced in version 8.0.0

- [**innodb_undo_log_encrypt**](#)

Introduced in version 8.0.1

- [**innodb_undo_log_truncate**](#)

Value parameter changes in version 8.0.2:

- Default is ON

- [**innodb_undo_logs**](#)

Removed in version 8.0.2

- [**innodb_undo_tablespaces**](#)

Deprecated in version 8.0.4

Value parameter changes in version 8.0.2:

- Default is 2, minimum is 0, maximum is 127

Value parameter changes in version 8.0.3:

- Default is 2, minimum is 2, maximum is 127

- [**Innodb_undo_tablespaces_active**](#)

Introduced in version 8.0.14

- [**Innodb_undo_tablespaces_explicit**](#)

Introduced in version 8.0.14

- [**Innodb_undo_tablespaces_implicit**](#)

Introduced in version 8.0.14

- [**Innodb_undo_tablespaces_total**](#)

Introduced in version 8.0.14

- [`innodb_use_fdatasync`](#)
Introduced in version 8.0.26
- [`innodb_validate_tablespace_paths`](#)
Introduced in version 8.0.21
- [`internal_tmp_disk_storage_engine`](#)
Removed in version 8.0.16
- [`internal_tmp_mem_storage_engine`](#)
Introduced in version 8.0.2
- [`keyring_aws_cmk_id`](#)
Introduced in version 8.0.11
- [`keyring_aws_conf_file`](#)
Introduced in version 8.0.11
- [`keyring_aws_data_file`](#)
Introduced in version 8.0.11
- [`keyring_aws_region`](#)
Introduced in version 8.0.11
Value parameter changes in version 8.0.17:
 - Default is us-east-1Value parameter changes in version 8.0.30:
 - Default is us-east-1
- [`keyring_encrypted_file_data`](#)
Introduced in version 8.0.11
Deprecated in version 8.0.34
- [`keyring_encrypted_file_password`](#)
Introduced in version 8.0.11
Deprecated in version 8.0.34
- [`keyring_file_data`](#)
Deprecated in version 8.0.34
- [`keyring_hashicorp_auth_path`](#)
Introduced in version 8.0.18
- [`keyring_hashicorp_ca_path`](#)
Introduced in version 8.0.18
- [`keyring_hashicorp_caching`](#)

Introduced in version 8.0.18

- `keyring_hashicorp_commit_auth_path`

Introduced in version 8.0.18

- `keyring_hashicorp_commit_ca_path`

Introduced in version 8.0.18

- `keyring_hashicorp_commit_caching`

Introduced in version 8.0.18

- `keyring_hashicorp_commit_role_id`

Introduced in version 8.0.18

- `keyring_hashicorp_commit_server_url`

Introduced in version 8.0.18

- `keyring_hashicorp_commit_store_path`

Introduced in version 8.0.18

- `keyring_hashicorp_role_id`

Introduced in version 8.0.18

- `keyring_hashicorp_secret_id`

Introduced in version 8.0.18

- `keyring_hashicorp_server_url`

Introduced in version 8.0.18

- `keyring_hashicorp_store_path`

Introduced in version 8.0.18

- `keyring-migration-destination`

Introduced in version 8.0.4

- `keyring-migration-host`

Introduced in version 8.0.4

- `keyring-migration-password`

Introduced in version 8.0.4

- `keyring-migration-port`

Introduced in version 8.0.4

- `keyring-migration-socket`

Introduced in version 8.0.4

- `keyring-migration-source`

Introduced in version 8.0.4

- [`keyring-migration-to-component`](#)

Introduced in version 8.0.24

- [`keyring-migration-user`](#)

Introduced in version 8.0.4

- [`keyring_oci_ca_certificate`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_compartment`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_encryption_endpoint`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_key_file`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_key_fingerprint`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_management_endpoint`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_master_key`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_secrets_endpoint`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [`keyring_oci_tenancy`](#)

Introduced in version 8.0.22

Deprecated in version 8.0.31

- [**keyring_oci_user**](#)
Introduced in version 8.0.22
Deprecated in version 8.0.31
- [**keyring_oci_vaults_endpoint**](#)
Introduced in version 8.0.22
Deprecated in version 8.0.31
- [**keyring_oci_virtual_vault**](#)
Introduced in version 8.0.22
Deprecated in version 8.0.31
- [**keyring_okv_conf_dir**](#)
Introduced in version 8.0.11
- [**keyring_operations**](#)
Introduced in version 8.0.4
- [**local_infile**](#)
Value parameter changes in version 8.0.2:
 - Default is OFF
- [**lock_order**](#)
Introduced in version 8.0.17
- [**lock_order_debug_loop**](#)
Introduced in version 8.0.17
- [**lock_order_debug_missing_arc**](#)
Introduced in version 8.0.17
- [**lock_order_debug_missing_key**](#)
Introduced in version 8.0.17
- [**lock_order_debug_missing_unlock**](#)
Introduced in version 8.0.17
- [**lock_order_dependencies**](#)
Introduced in version 8.0.17
- [**lock_order_extra_dependencies**](#)
Introduced in version 8.0.17
- [**lock_order_output_directory**](#)
Introduced in version 8.0.17
- [**lock_order_print_txt**](#)

Introduced in version 8.0.17

- [`lock_order_trace_loop`](#)

Introduced in version 8.0.17

- [`lock_order_trace_missing_arc`](#)

Introduced in version 8.0.17

- [`lock_order_trace_missing_key`](#)

Introduced in version 8.0.17

- [`lock_order_trace_missing_unlock`](#)

Introduced in version 8.0.17

- [`log_bin_trust_function_creators`](#)

Deprecated in version 8.0.34

- [`log_bin_use_v1_row_events`](#)

Deprecated in version 8.0.18

- [`log_builtin_as_identified_by_password`](#)

Removed in version 8.0.11

- [`log_error_filter_rules`](#)

Introduced in version 8.0.2

Removed in version 8.0.4

- [`log_error_services`](#)

Introduced in version 8.0.2

- [`log_error_suppression_list`](#)

Introduced in version 8.0.13

- [`log_error_verbosity`](#)

Value parameter changes in version 8.0.4:

- Default is 2, minimum is 1, maximum is 3

- [`log_replica_updates`](#)

Introduced in version 8.0.26

- [`log_slave_updates`](#)

Deprecated in version 8.0.26

Value parameter changes in version 8.0.3:

- Default is ON

- [`log_slow_extra`](#)

Introduced in version 8.0.14

- [`log_slow_replica_statements`](#)

Introduced in version 8.0.26

- [`log_slow_slave_statements`](#)

Deprecated in version 8.0.26

- [`log_statements_unsafe_for_binlog`](#)

Deprecated in version 8.0.34

- [`log_syslog`](#)

Removed in version 8.0.13

Deprecated in version 8.0.2

Value parameter changes in version 8.0.2:

- Default is ON (when error logging to system log is enabled)

- [`log_syslog_facility`](#)

Removed in version 8.0.13

- [`log_syslog_include_pid`](#)

Removed in version 8.0.13

- [`log_syslog_tag`](#)

Removed in version 8.0.13

- [`log-warnings`](#)

Removed in version 8.0.3

- [`mandatory_roles`](#)

Introduced in version 8.0.2

- [`master-info-file`](#)

Deprecated in version 8.0.18

- [`master_info_repository`](#)

Deprecated in version 8.0.23

Value parameter changes in version 8.0.2:

- Default is TABLE

- [`master_verify_checksum`](#)

Deprecated in version 8.0.26

- [`max_allowed_packet`](#)

Value parameter changes in version 8.0.3:

- Default is 67108864, minimum is 1024, maximum is 1073741824

- **max_error_count**

Value parameter changes in version 8.0.3:

- Default is 1024, minimum is 0, maximum is 65535

- **max_length_for_sort_data**

Deprecated in version 8.0.20

Value parameter changes in version 8.0.1:

- Default is 4096, minimum is 4, maximum is 8388608

- **max_prepared_stmt_count**

Value parameter changes in version 8.0.18:

- Default is 16382, minimum is 0, maximum is 4194304

- **max_tmp_tables**

Removed in version 8.0.3

- **metadata_locks_cache_size**

Removed in version 8.0.13

- **metadata_locks_hash_instances**

Removed in version 8.0.13

- **multi_range_count**

Removed in version 8.0.3

- **myisam_repair_threads**

Removed in version 8.0.30

Deprecated in version 8.0.29

- **mysql_firewall_mode**

Introduced in version 8.0.11

- **mysql_firewall_trace**

Introduced in version 8.0.11

- **mysql_native_password_proxy_users**

Deprecated in version 8.0.16

- **mysqlx**

Introduced in version 8.0.11

- **Mysqlx_bytes_received_compressed_payload**

Introduced in version 8.0.19

- **Mysqlx_bytes_received_uncompressed_frame**
Introduced in version 8.0.19
- **Mysqlx_bytes_sent_compressed_payload**
Introduced in version 8.0.19
- **Mysqlx_bytes_sent_uncompressed_frame**
Introduced in version 8.0.19
- **Mysqlx_compression_algorithm**
Introduced in version 8.0.20
- **mysqlx_compression_algorithms**
Introduced in version 8.0.19
- **Mysqlx_compression_level**
Introduced in version 8.0.20
- **mysqlx_deflate_default_compression_level**
Introduced in version 8.0.20
- **mysqlx_deflate_max_client_compression_level**
Introduced in version 8.0.20
- **mysqlx_interactive_timeout**
Introduced in version 8.0.4
- **mysqlx_lz4_default_compression_level**
Introduced in version 8.0.20
- **mysqlx_lz4_max_client_compression_level**
Introduced in version 8.0.20
- **mysqlx_read_timeout**
Introduced in version 8.0.4
- **mysqlx_wait_timeout**
Introduced in version 8.0.4
- **mysqlx_write_timeout**
Introduced in version 8.0.4
- **mysqlx_zstd_default_compression_level**
Introduced in version 8.0.20
- **mysqlx_zstd_max_client_compression_level**
Introduced in version 8.0.20
- **named_pipe_full_access_group**

Introduced in version 8.0.14

- [`Ndb_api_adaptive_send_deferred_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_adaptive_send_deferred_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_adaptive_send_forced_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_adaptive_send_forced_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_adaptive_send_unforced_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_adaptive_send_unforced_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_bytes_received_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_bytes_received_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_bytes_sent_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_bytes_sent_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_pk_op_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_pk_op_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_pruned_scan_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_pruned_scan_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_range_scan_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_range_scan_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_read_row_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_read_row_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_scan_batch_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_scan_batch_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_table_scan_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_table_scan_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_abort_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_abort_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_close_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_close_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_commit_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_commit_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_local_read_row_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_local_read_row_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_start_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_trans_start_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_uk_op_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_uk_op_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_exec_complete_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_exec_complete_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_meta_request_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_meta_request_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_nanos_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_nanos_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_scan_result_count_replica`](#)

Introduced in version 8.0.23-ndb-8.0.23

- [`Ndb_api_wait_scan_result_count_slave`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`ndb-applier-allow-skip-epoch`](#)

Introduced in version 8.0.28-ndb-8.0.28

- [`ndb_autoincrement_prefetch_sz`](#)

Value parameter changes in version 8.0.19-ndb-8.0.19:

- Default is 512, minimum is 1, maximum is 65536

- [`ndb-batch-size`](#)

Value parameter changes in version 8.0.29-ndb-8.0.29:

- Default is 32768, minimum is 0, maximum is 2147483648

- [`ndb_cache_check_time`](#)

Removed in version 8.0.1

- [`Ndb_config_generation`](#)

Introduced in version 8.0.24-ndb-8.0.24

- [**Ndb_conflict_fn_max_del_win_ins**](#)

Introduced in version 8.0.30-ndb-8.0.30

- [**Ndb_conflict_fn_max_ins**](#)

Introduced in version 8.0.30-ndb-8.0.30

- [**ndb_conflict_role**](#)

Introduced in version 8.0.23-ndb-8.0.23

- [**ndb_dbg_check_shares**](#)

Introduced in version 8.0.13-ndb-8.0.13

- [**ndb_eventbuffer_max_alloc**](#)

Value parameter changes in version 8.0.26-ndb-8.0.26:

- Default is 0, minimum is 0, maximum is 9223372036854775807

- [**Ndb_fetch_table_stats**](#)

Introduced in version 8.0.27-ndb-8.0.27

- [**ndb_log_bin**](#)

Value parameter changes in version 8.0.16-ndb-8.0.16:

- Default is OFF

- [**ndb_log_cache_size**](#)

Introduced in version 8.0.40-ndb_8.0.40

- [**ndb-log-fail-terminate**](#)

Introduced in version 8.0.21-ndb-8.0.21

- [**ndb_log_transaction_compression**](#)

Introduced in version 8.0.31-ndb-8.0.31

- [**ndb_log_transaction_compression_level_zstd**](#)

Introduced in version 8.0.31-ndb-8.0.31

- [**ndb-log-transaction-dependency**](#)

Introduced in version 8.0.33-ndb-8.0.33

- [**Ndb_metadata_blacklist_size**](#)

Introduced in version 8.0.18-ndb-8.0.18

Removed in version 8.0.22-ndb-8.0.22

Deprecated in version 8.0.21-ndb-8.0.21

- [**ndb_metadata_check**](#)

Introduced in version 8.0.16-ndb-8.0.16

- [`ndb_metadata_check_interval`](#)

Introduced in version 8.0.16-ndb-8.0.16

- [`Ndb_metadata_detected_count`](#)

Introduced in version 8.0.16-ndb-8.0.16

- [`Ndb_metadata_excluded_count`](#)

Introduced in version 8.0.18-ndb-8.0.22

- [`ndb_metadata_sync`](#)

Introduced in version 8.0.19-ndb-8.0.19

- [`Ndb_metadata_synced_count`](#)

Introduced in version 8.0.18-ndb-8.0.18

- [`ndb_read_backup`](#)

Value parameter changes in version 8.0.19-ndb-8.0.19:

- Default is ON

- [`ndb_replica_batch_size`](#)

Introduced in version 8.0.30-ndb-8.0.30

- [`ndb_replica_blob_write_batch_bytes`](#)

Introduced in version 8.0.30-ndb-8.0.30

- [`Ndb_replica_max_replicated_epoch`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- [`ndb_schema_dist_lock_wait_timeout`](#)

Introduced in version 8.0.18-ndb-8.0.18

- [`ndb-schema-dist-timeout`](#)

Introduced in version 8.0.17-ndb-8.0.17

- [`ndb_schema_dist_timeout`](#)

Introduced in version 8.0.16-ndb-8.0.16

- [`ndb_schema_dist_upgrade_allowed`](#)

Introduced in version 8.0.17-ndb-8.0.17

- [`Ndb_schema_participant_count`](#)

Introduced in version 8.0.42

- [`ndb_slave_conflict_role`](#)

Deprecated in version 8.0.23-ndb-8.0.23

- **Ndb_trans_hint_count_session**

Introduced in version 8.0.17-ndb-8.0.17

- **ndb-wait-connected**

Value parameter changes in version 8.0.27-ndb-8.0.27:

- Default is 120, minimum is 0, maximum is 31536000

- **ndb-wait-setup**

Value parameter changes in version 8.0.27-ndb-8.0.27:

- Default is 120, minimum is 0, maximum is 31536000

- **ndbcluster**

Value parameter changes in version 8.0.13-ndb-8.0.13:

- Default is ON

- **ndbinfo**

Introduced in version 8.0.13-ndb-8.0.13

- **new**

Deprecated in version 8.0.35

- **no-dd-upgrade**

Introduced in version 8.0.4

Deprecated in version 8.0.16

- **no-monitor**

Introduced in version 8.0.12

- **old**

Deprecated in version 8.0.35

- **old_passwords**

Removed in version 8.0.11

- **old-style-user-limits**

Deprecated in version 8.0.30

- **optimizer_switch**

Value parameter changes in version 8.0.3:

- Default is not specified

Value parameter changes in version 8.0.13:

- Default is not specified

Value parameter changes in version 8.0.18:

- Default is not specified

Value parameter changes in version 8.0.21:

- Default is not specified

Value parameter changes in version 8.0.22:

- Default is not specified

- **`optimizer_trace_max_mem_size`**

Value parameter changes in version 8.0.4:

- Default is 1048576, minimum is 0, maximum is 4294967295

- **`original_commit_timestamp`**

Introduced in version 8.0.1

- **`original_server_version`**

Introduced in version 8.0.14

- **`partial_revokes`**

Introduced in version 8.0.16

- **`password_history`**

Introduced in version 8.0.3

- **`password_require_current`**

Introduced in version 8.0.13

- **`password_reuse_interval`**

Introduced in version 8.0.3

- **`performance-schema-consumer-events-statements-cpu`**

Introduced in version 8.0.28

- **`performance_schema_max_cond_classes`**

Value parameter changes in version 8.0.12:

- Default is 80, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.13:

- Default is 100, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.27:

- Default is 150, minimum is 0, maximum is 1024

- **`performance_schema_max_digest_sample_age`**

Introduced in version 8.0.3

- **`performance_schema_max_file_classes`**

Value parameter changes in version 8.0.12:

- Default is 80, minimum is 0, maximum is 1024
- **performance_schema_max_memory_classes**

Value parameter changes in version 8.0.1:

- Default is 450, minimum is 0, maximum is 1024

- **performance_schema_max_mutex_classes**

Value parameter changes in version 8.0.1:

- Default is 220, minimum is 0, maximum is 256

Value parameter changes in version 8.0.3:

- Default is 250, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 300, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.27:

- Default is 350, minimum is 0, maximum is 1024

- **performance_schema_max_rwlock_classes**

Value parameter changes in version 8.0.3:

- Default is 60, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 100, minimum is 0, maximum is 1024

- **performance_schema_max_socket_classes**

Value parameter changes in version 8.0.12:

- Default is 10, minimum is 0, maximum is 1024

- **performance_schema_max_stage_classes**

Value parameter changes in version 8.0.12:

- Default is 150, minimum is 0, maximum is 1024

Value parameter changes in version 8.0.13:

- Default is 175, minimum is 0, maximum is 1024

- **performance_schema_max_thread_classes**

Value parameter changes in version 8.0.3:

- Default is 100, minimum is 0, maximum is 256

Value parameter changes in version 8.0.12:

- Default is 100, minimum is 0, maximum is 1024

- **performance_schema_show_processlist**

Introduced in version 8.0.22

Deprecated in version 8.0.35

- `persist_only_admin_x509_subject`

Introduced in version 8.0.14

- `persist_sensitive_variables_in_plaintext`

Introduced in version 8.0.29

- `persisted_globals_load`

Introduced in version 8.0.0

- `print_identified_with_as_hex`

Introduced in version 8.0.17

- `protocol_compression_algorithms`

Introduced in version 8.0.18

- `pseudo_replica_mode`

Introduced in version 8.0.26

- `pseudo_slave_mode`

Deprecated in version 8.0.26

- `Qcache_free_blocks`

Removed in version 8.0.3

- `Qcache_free_memory`

Removed in version 8.0.3

- `Qcache_hits`

Removed in version 8.0.3

- `Qcache_inserts`

Removed in version 8.0.3

- `Qcache_lowmem_prunes`

Removed in version 8.0.3

- `Qcache_not_cached`

Removed in version 8.0.3

- `Qcache_queries_in_cache`

Removed in version 8.0.3

- `Qcache_total_blocks`

Removed in version 8.0.3

- [`query_cache_limit`](#)

Removed in version 8.0.3

- [`query_cache_min_res_unit`](#)

Removed in version 8.0.3

- [`query_cache_size`](#)

Removed in version 8.0.3

Value parameter changes in version 8.0.1 (bitsize=64):

- Default is 0, minimum is 0, maximum is 18446744073709551615

Value parameter changes in version 8.0.1 (bitsize=32):

- Default is 0, minimum is 0, maximum is 4294967295

- [`query_cache_type`](#)

Removed in version 8.0.3

- [`query_cache_wlock_invalidate`](#)

Removed in version 8.0.3

- [`query_prealloc_size`](#)

Deprecated in version 8.0.29

- [`regexp_stack_limit`](#)

Introduced in version 8.0.4

- [`regexp_time_limit`](#)

Introduced in version 8.0.4

- [`relay_log_info_file`](#)

Deprecated in version 8.0.18

- [`relay_log_info_repository`](#)

Deprecated in version 8.0.23

Value parameter changes in version 8.0.2:

- Default is TABLE

- [`replica_allow_batching`](#)

Introduced in version 8.0.26-ndb-8.0.26

Value parameter changes in version 8.0.30-ndb-8.0.30:

- Default is ON

- [`replica_checkpoint_group`](#)

Introduced in version 8.0.26

- [`replica_checkpoint_period`](#)

Introduced in version 8.0.26

- [`replica_compressed_protocol`](#)

Introduced in version 8.0.26

- [`replica_exec_mode`](#)

Introduced in version 8.0.26

- [`replica_load_tmpdir`](#)

Introduced in version 8.0.26

- [`replica_max_allowed_packet`](#)

Introduced in version 8.0.26

- [`replica_net_timeout`](#)

Introduced in version 8.0.26

- [`Replica_open_temp_tables`](#)

Introduced in version 8.0.26

- [`replica_parallel_type`](#)

Introduced in version 8.0.26

Deprecated in version 8.0.29

Value parameter changes in version 8.0.27:

- Default is LOGICAL_CLOCK

- [`replica_parallel_workers`](#)

Introduced in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is 4, minimum is 0, maximum is 1024

- [`replica_pending_jobs_size_max`](#)

Introduced in version 8.0.26

- [`replica_preserve_commit_order`](#)

Introduced in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is ON

- [`Replica_rows_last_search_algorithm_used`](#)

Introduced in version 8.0.26

- [`replica_skip_errors`](#)

Introduced in version 8.0.26

- **replica_sql_verify_checksum**
Introduced in version 8.0.26
- **replica_transaction_retries**
Introduced in version 8.0.26
- **replica_type_conversions**
Introduced in version 8.0.26
- **replication_optimize_for_static_plugin_config**
Introduced in version 8.0.23
- **replication_sender_observe_commit_only**
Introduced in version 8.0.23
- **require_row_format**
Introduced in version 8.0.19
- **Resource_group_supported**
Introduced in version 8.0.31
- **resultset_metadata**
Introduced in version 8.0.3
- **rewriter_enabled_for_threads_without_privilege_checks**
Introduced in version 8.0.31
- **rpl_read_size**
Introduced in version 8.0.11
- **rpl_semi_sync_replica_enabled**
Introduced in version 8.0.26
- **Rpl_semi_sync_replica_status**
Introduced in version 8.0.26
- **rpl_semi_sync_replica_trace_level**
Introduced in version 8.0.26
- **Rpl_semi_sync_source_clients**
Introduced in version 8.0.26
- **rpl_semi_sync_source_enabled**
Introduced in version 8.0.26
- **Rpl_semi_sync_source_net_avg_wait_time**
Introduced in version 8.0.26
- **Rpl_semi_sync_source_net_wait_time**

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_net_waits`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_no_times`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_no_tx`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_status`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_timefunc_failures`](#)

Introduced in version 8.0.26

- [`rpl_semi_sync_source_timeout`](#)

Introduced in version 8.0.26

- [`rpl_semi_sync_source_trace_level`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_tx_avg_wait_time`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_tx_wait_time`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_tx_waits`](#)

Introduced in version 8.0.26

- [`rpl_semi_sync_source_wait_for_replica_count`](#)

Introduced in version 8.0.26

- [`rpl_semi_sync_source_wait_no_replica`](#)

Introduced in version 8.0.26

- [`rpl_semi_sync_source_wait_point`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_wait_pos_backtraverse`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_wait_sessions`](#)

Introduced in version 8.0.26

- [`Rpl_semi_sync_source_yes_tx`](#)

Introduced in version 8.0.26

- [`rpl_stop_replica_timeout`](#)

Introduced in version 8.0.26

- [`rpl_stop_slave_timeout`](#)

Deprecated in version 8.0.26

- [`Rsa_public_key`](#)

Deprecated in version 8.0.16

- [`safe-user-create`](#)

Deprecated in version 8.0.11

- [`schema_definition_cache`](#)

Introduced in version 8.0.0

- [`secondary_engine_cost_threshold`](#)

Introduced in version 8.0.16

- [`Secondary_engine_execution_count`](#)

Introduced in version 8.0.13

- [`secure_auth`](#)

Removed in version 8.0.3

- [`select_into_buffer_size`](#)

Introduced in version 8.0.22

- [`select_into_disk_sync`](#)

Introduced in version 8.0.22

- [`select_into_disk_sync_delay`](#)

Introduced in version 8.0.22

- [`server_id`](#)

Value parameter changes in version 8.0.3:

- Default is 1, minimum is 0, maximum is 4294967295

- [`sha256_password_auto_generate_rsa_keys`](#)

Deprecated in version 8.0.16

- [`sha256_password_private_key_path`](#)

Deprecated in version 8.0.16

- [`sha256_password_proxy_users`](#)

Deprecated in version 8.0.16

- **sha256_password_public_key_path**
Deprecated in version 8.0.16
- **show_compatibility_56**
Removed in version 8.0.1
- **show_create_table_skip_secondary_engine**
Introduced in version 8.0.18
- **show_create_table_verbosity**
Introduced in version 8.0.11
- **show_gipk_in_create_table_and_information_schema**
Introduced in version 8.0.30
- **show-replica-auth-info**
Introduced in version 8.0.26
- **show-slave-auth-info**
Deprecated in version 8.0.26
- **skip-character-set-client-handshake**
Deprecated in version 8.0.35
- **skip-host-cache**
Deprecated in version 8.0.30
- **skip-new**
Deprecated in version 8.0.35
- **skip-replica-start**
Introduced in version 8.0.26
- **skip-slave-start**
Deprecated in version 8.0.26
- **skip-ssl**
Deprecated in version 8.0.26
- **slave_allow_batching**
Deprecated in version 8.0.26-ndb-8.0.26
Value parameter changes in version 8.0.30-ndb-8.0.30:
 - Default is ON
- **slave_checkpoint_group**
Deprecated in version 8.0.26
- **slave_checkpoint_period**

Deprecated in version 8.0.26

- `slave_compressed_protocol`

Deprecated in version 8.0.18

- `Slave_heartbeat_period`

Removed in version 8.0.1

- `Slave_last_heartbeat`

Removed in version 8.0.1

- `slave_load_tmpdir`

Deprecated in version 8.0.26

- `slave_max_allowed_packet`

Deprecated in version 8.0.26

- `slave_net_timeout`

Deprecated in version 8.0.26

- `Slave_open_temp_tables`

Deprecated in version 8.0.26

- `slave_parallel_type`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is LOGICAL_CLOCK

- `slave_parallel_workers`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is 4, minimum is 0, maximum is 1024

- `slave_pending_jobs_size_max`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.12:

- Default is 128M, minimum is 1024, maximum is 16EiB

- `slave_preserve_commit_order`

Deprecated in version 8.0.26

Value parameter changes in version 8.0.27:

- Default is ON

- `Slave_received_heartbeats`

Removed in version 8.0.1

- [`Slave_retried_transactions`](#)

Removed in version 8.0.1

- [`Slave_rows_last_search_algorithm_used`](#)

Deprecated in version 8.0.26

- [`slave_rows_search_algorithms`](#)

Deprecated in version 8.0.18

Value parameter changes in version 8.0.2:

- Default is INDEX_SCAN,HASH_SCAN

- [`Slave_running`](#)

Removed in version 8.0.1

- [`slave-skip-errors`](#)

Deprecated in version 8.0.26

- [`slave_sql_verify_checksum`](#)

Deprecated in version 8.0.26

- [`slave_transaction_retries`](#)

Deprecated in version 8.0.26

- [`slave_type_conversions`](#)

Deprecated in version 8.0.26

- [`source_verify_checksum`](#)

Introduced in version 8.0.26

- [`sql_generate_invisible_primary_key`](#)

Introduced in version 8.0.30

- [`sql-mode`](#)

Value parameter changes in version 8.0.1:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_ZERO_IN_DATE NO_ZERO_DATE ERROR_FOR_DIVISION_BY_ZERO NO_AUTO_CREATE_USER NO_ENGINE_SUBSTITUTION

Value parameter changes in version 8.0.11:

- Default is ONLY_FULL_GROUP_BY STRICT_TRANS_TABLES NO_ZERO_IN_DATE NO_ZERO_DATE ERROR_FOR_DIVISION_BY_ZERO NO_ENGINE_SUBSTITUTION

- [`sql_replica_skip_counter`](#)

Introduced in version 8.0.26

- [`sql_require_primary_key`](#)

Introduced in version 8.0.13

- [`sql_slave_skip_counter`](#)

Deprecated in version 8.0.26

- [`ssl`](#)

Deprecated in version 8.0.26

- [`ssl_fips_mode`](#)

Introduced in version 8.0.11

Deprecated in version 8.0.34

- [`ssl_session_cache_mode`](#)

Introduced in version 8.0.29

- [`ssl_session_cache_timeout`](#)

Introduced in version 8.0.29

- [`ssl_session_cache_timeout`](#)

Introduced in version 8.0.29

- [`symbolic-links`](#)

Deprecated in version 8.0.2

Value parameter changes in version 8.0.2:

- Default is OFF

- [`sync_master_info`](#)

Deprecated in version 8.0.26

- [`sync_relay_log_info`](#)

Deprecated in version 8.0.34

- [`sync_source_info`](#)

Introduced in version 8.0.26

- [`sys.eventlog.facility`](#)

Introduced in version 8.0.13

- [`sys.eventlog.include_pid`](#)

Introduced in version 8.0.13

- [`sys.eventlog.tag`](#)

Introduced in version 8.0.13

- [`table_encryption_privilege_check`](#)

Introduced in version 8.0.16

- **table_open_cache**

Value parameter changes in version 8.0.4:

- Default is 4000, minimum is 1, maximum is 524288

- **tablespace_definition_cache**

Introduced in version 8.0.0

- **Telemetry_traces_supported**

Introduced in version 8.0.33

- **temp_pool**

Removed in version 8.0.1

- **temptable_max_mmap**

Introduced in version 8.0.23

- **temptable_max_ram**

Introduced in version 8.0.2

- **temptable_use_mmap**

Introduced in version 8.0.16

Deprecated in version 8.0.26

- **terminology_use_previous**

Introduced in version 8.0.26

- **thread_pool_algorithm**

Introduced in version 8.0.11

- **thread_pool_dedicated_listeners**

Introduced in version 8.0.23

- **thread_pool_high_priority_connection**

Introduced in version 8.0.11

- **thread_pool_max_active_query_threads**

Introduced in version 8.0.19

- **thread_pool_max_transactions_limit**

Introduced in version 8.0.23

- **thread_pool_max_unused_threads**

Introduced in version 8.0.11

- **thread_pool_prio_kickup_timer**

Introduced in version 8.0.11

- **thread_pool_query_threads_per_group**

Introduced in version 8.0.31

- [`thread_pool_size`](#)

Introduced in version 8.0.11

Value parameter changes in version 8.0.19:

- Default is 16, minimum is 1, maximum is 512

- [`thread_pool_stall_limit`](#)

Introduced in version 8.0.11

- [`thread_pool_transaction_delay`](#)

Introduced in version 8.0.31

- [`thread_stack`](#)

Value parameter changes in version 8.0.2 (bitsize=64):

- Default is 286720, minimum is 131072, maximum is 18446744073709550592

Value parameter changes in version 8.0.27 (bitsize=64):

- Default is 1048576, minimum is 131072, maximum is 18446744073709550592

Value parameter changes in version 8.0.2 (bitsize=32):

- Default is 221184, minimum is 131072, maximum is 4294966272

Value parameter changes in version 8.0.27 (bitsize=32):

- Default is 1048576, minimum is 131072, maximum is 4294966272

- [`time_format`](#)

Removed in version 8.0.3

- [`time_zone`](#)

Value parameter changes in version 8.0.19:

- Default is SYSTEM

- [`tls_ciphersuites`](#)

Introduced in version 8.0.16

- [`Tls_library_version`](#)

Introduced in version 8.0.30

- [`tls_version`](#)

Value parameter changes in version 8.0.16:

- Default is TLSv1,TLSv1.1,TLSv1.2,TLSv1.3

Value parameter changes in version 8.0.28:

- Default is TLSv1.2,TLSv1.3

- **`transaction_prealloc_size`**
Deprecated in version 8.0.29
- **`transaction_write_set_extraction`**
Deprecated in version 8.0.26
Value parameter changes in version 8.0.2:
 - Default is XXHASH64
- **`tx_isolation`**
Removed in version 8.0.3
- **`tx_read_only`**
Removed in version 8.0.3
- **`upgrade`**
Introduced in version 8.0.16
- **`use_secondary_engine`**
Introduced in version 8.0.13
- **`validate-config`**
Introduced in version 8.0.16
- **`validate_password.changed_characters_percentage`**
Introduced in version 8.0.34
- **`validate_password.check_user_name`**
Introduced in version 8.0.4
- **`validate_password.dictionary_file`**
Introduced in version 8.0.4
- **`validate_password.dictionary_file_last_parsed`**
Introduced in version 8.0.4
- **`validate_password.dictionary_file_words_count`**
Introduced in version 8.0.4
- **`validate_password.length`**
Introduced in version 8.0.4
- **`validate_password.mixed_case_count`**
Introduced in version 8.0.4
- **`validate_password.number_count`**
Introduced in version 8.0.4
- **`validate_password.policy`**

Introduced in version 8.0.4

- [validate_password.special_char_count](#)

Introduced in version 8.0.4

- [version_compile_zlib](#)

Introduced in version 8.0.11

- [windowing_use_high_precision](#)

Introduced in version 8.0.2

- [xa_detach_on_prepare](#)

Introduced in version 8.0.29

1.3 Option and Variable Changes for MySQL 8.1

The following list details the changes to specific options and variables within MySQL 8.1.

- [Audit_log_direct_writes](#)

Introduced in version 8.1.0

- [authentication_ldap_sasl_connect_timeout](#)

Introduced in version 8.1.0

- [authentication_ldap_sasl_response_timeout](#)

Introduced in version 8.1.0

- [authentication_ldap_simple_connect_timeout](#)

Introduced in version 8.1.0

- [authentication_ldap_simple_response_timeout](#)

Introduced in version 8.1.0

- [Gr_all_consensus_proposals_count](#)

Introduced in version 8.1.0

- [Gr_all_consensus_time_sum](#)

Introduced in version 8.1.0

- [Gr_certification_garbage_collector_count](#)

Introduced in version 8.1.0

- [Gr_certification_garbage_collector_time_sum](#)

Introduced in version 8.1.0

- [Gr_consensus_bytes_received_sum](#)

Introduced in version 8.1.0

- [Gr_consensus_bytes_sent_sum](#)

Introduced in version 8.1.0

- [`Gr_control_messages_sent_bytes_sum`](#)

Introduced in version 8.1.0

- [`Gr_control_messages_sent_count`](#)

Introduced in version 8.1.0

- [`Gr_control_messages_sent_roundtrip_time_sum`](#)

Introduced in version 8.1.0

- [`Gr_data_messages_sent_bytes_sum`](#)

Introduced in version 8.1.0

- [`Gr_data_messages_sent_count`](#)

Introduced in version 8.1.0

- [`Gr_data_messages_sent_roundtrip_time_sum`](#)

Introduced in version 8.1.0

- [`Gr_empty_consensus_proposals_count`](#)

Introduced in version 8.1.0

- [`Gr_extended_consensus_count`](#)

Introduced in version 8.1.0

- [`Gr_last_consensus_end_timestamp`](#)

Introduced in version 8.1.0

- [`Gr_total_messages_sent_count`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_after_sync_count`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_after_sync_time_sum`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_after_termination_count`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_after_termination_time_sum`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_before_begin_count`](#)

Introduced in version 8.1.0

- [`Gr_transactions_consistency_before_begin_time_sum`](#)

Introduced in version 8.1.0

- **telemetry.live_sessions**

Introduced in version 8.1.0

- **telemetry.otel_bsp_max_export_batch_size**

Introduced in version 8.1.0

- **telemetry.otel_bsp_max_queue_size**

Introduced in version 8.1.0

- **telemetry.otel_bsp_schedule_delay**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_certificates**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_client_certificates**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_client_key**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_compression**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_endpoint**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_headers**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_protocol**

Introduced in version 8.1.0

- **telemetry.otel_exporter_otlp_traces_timeout**

Introduced in version 8.1.0

- **telemetry.otel_log_level**

Introduced in version 8.1.0

- **telemetry.otel_resource_attributes**

Introduced in version 8.1.0

- **telemetry.query_text_enabled**

Introduced in version 8.1.0

- **telemetry.trace_enabled**

Introduced in version 8.1.0

- `tls_certificates_enforced_validation`

Introduced in version 8.1.0

- `Tls_sni_server_name`

Introduced in version 8.1.0

1.4 Option and Variable Changes for MySQL 8.2

The following list details the changes to specific options and variables within MySQL 8.2.

- `abort-slave-event-count`

Removed in version 8.2.0

- `authentication_fido_rp_id`

Deprecated in version 8.2.0

- `authentication_webauthn_rp_id`

Introduced in version 8.2.0

- `binlog_transaction_dependency_tracking`

Deprecated in version 8.2.0

- `character-set-client-handshake`

Deprecated in version 8.2.0

- `Com_show_binary_log_status`

Introduced in version 8.2.0

- `Com_show_master_status`

Deprecated in version 8.2.0

- `disconnect-slave-event-count`

Removed in version 8.2.0

- `expire_logs_days`

Removed in version 8.2.0

- `mysql_firewall_database`

Introduced in version 8.2.0

- `mysql_firewall_reload_interval_seconds`

Introduced in version 8.2.0

- `new`

Deprecated in version 8.2.0

- `old`

Deprecated in version 8.2.0

- **`performance_schema_max_meter_classes`**
Introduced in version 8.2.0
- **`performance_schema_max_metric_classes`**
Introduced in version 8.2.0
- **`Performance_schema_meter_lost`**
Introduced in version 8.2.0
- **`Performance_schema_metric_lost`**
Introduced in version 8.2.0
- **`performance_schema_show_processlist`**
Deprecated in version 8.2.0
- **`set_operations_buffer_size`**
Introduced in version 8.2.0
- **`skip-character-set-client-handshake`**
Deprecated in version 8.2.0
- **`skip-new`**
Deprecated in version 8.2.0
- **`Telemetry_metrics_supported`**
Introduced in version 8.2.0

1.5 Option and Variable Changes for MySQL 8.3

The following list details the changes to specific options and variables within MySQL 8.3.

- **`character-set-client-handshake`**
Removed in version 8.3.0
- **`component_masking.dictionaries_flush_interval_seconds`**
Introduced in version 8.3.0
- **`component_masking.masking_database`**
Introduced in version 8.3.0
- **`daemon_memcached_enable_binlog`**
Removed in version 8.3.0
- **`daemon_memcached_engine_lib_name`**
Removed in version 8.3.0
- **`daemon_memcached_engine_lib_path`**
Removed in version 8.3.0

- **daemon_memcached_option**
Removed in version 8.3.0
- **daemon_memcached_r_batch_size**
Removed in version 8.3.0
- **daemon_memcached_w_batch_size**
Removed in version 8.3.0
- **Deprecated_use_i_s_processlist_count**
Introduced in version 8.3.0
- **Deprecated_use_i_s_processlist_last_timestamp**
Introduced in version 8.3.0
- **explain_json_format_version**
Introduced in version 8.3.0
- **group_replication_ip_whitelist**
Removed in version 8.3.0
- **group_replication_primary_member**
Removed in version 8.3.0
- **group_replication_view_change_uuid**
Deprecated in version 8.3.0
- **innodb**
Removed in version 8.3.0
- **innodb_api_bk_commit_interval**
Removed in version 8.3.0
- **innodb_api_disable_rowlock**
Removed in version 8.3.0
- **innodb_api_enable_binlog**
Removed in version 8.3.0
- **innodb_api_enable_mdl**
Removed in version 8.3.0
- **innodb_api_trx_level**
Removed in version 8.3.0
- **log_bin_use_v1_row_events**
Removed in version 8.3.0
- **master-info-file**

Removed in version 8.3.0

- `master_info_repository`

Removed in version 8.3.0

- `ndb-mgm-tls`

Introduced in version 8.3.0-ndb-8.3.0

- `ndb-tls-search-path`

Introduced in version 8.3.0-ndb-8.3.0

- `old-style-user-limits`

Removed in version 8.3.0

- `relay_log_info_file`

Removed in version 8.3.0

- `relay_log_info_repository`

Removed in version 8.3.0

- `Replica_rows_last_search_algorithm_used`

Removed in version 8.3.0

- `skip-character-set-client-handshake`

Removed in version 8.3.0

- `skip-host-cache`

Removed in version 8.3.0

- `slave_rows_search_algorithms`

Removed in version 8.3.0

- `telemetry.metrics_reader_frequency_1`

Introduced in version 8.3.0

- `telemetry.metrics_reader_frequency_2`

Introduced in version 8.3.0

- `telemetry.metrics_reader_frequency_3`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_certificates`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_cipher`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_cipher_suite`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_client_certificates`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_client_key`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_compression`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_endpoint`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_headers`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_max_tls`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_min_tls`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_protocol`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_metrics_timeout`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_traces_cipher`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_traces_cipher_suite`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_traces_max_tls`

Introduced in version 8.3.0

- `telemetry.otel_exporter_otlp_traces_min_tls`

Introduced in version 8.3.0

- `transaction_write_set_extraction`

Removed in version 8.3.0

1.6 Option and Variable Changes for MySQL 8.4

The following list details the changes to specific options and variables within MySQL 8.4.

- `admin-ssl`

Removed in version 8.4.0

- `authentication_fido_rp_id`

Removed in version 8.4.0

- `avoid_temporal_upgrade`

Removed in version 8.4.0

- `binlog_transaction_dependency_tracking`

Removed in version 8.4.0

- `check-table-functions`

Introduced in version 8.4.5

- `Com_change_master`

Removed in version 8.4.0

- `Com_show_master_status`

Removed in version 8.4.0

- `Com_show_slave_hosts`

Removed in version 8.4.0

- `Com_show_slave_status`

Removed in version 8.4.0

- `Com_slave_start`

Removed in version 8.4.0

- `Com_slave_stop`

Removed in version 8.4.0

- `default_authentication_plugin`

Removed in version 8.4.0

- `group_replication_allow_local_lower_version_join`

Deprecated in version 8.4.0

- `group_replication_preemptive_garbage_collection`

Introduced in version 8.4.0

- `group_replication_preemptive_garbage_collection_rows_threshold`

Introduced in version 8.4.0

- `group_replication_recovery_complete_at`

Removed in version 8.4.0

- `have_openssl`

Removed in version 8.4.0

- [`have_ssl`](#)

Removed in version 8.4.0

- [`keyring_encrypted_file_data`](#)

Removed in version 8.4.0

- [`keyring_encrypted_file_password`](#)

Removed in version 8.4.0

- [`keyring_file_data`](#)

Removed in version 8.4.0

- [`keyring-migration-from-component`](#)

Introduced in version 8.4.0

- [`keyring_oci_ca_certificate`](#)

Removed in version 8.4.0

- [`keyring_oci_compartment`](#)

Removed in version 8.4.0

- [`keyring_oci_encryption_endpoint`](#)

Removed in version 8.4.0

- [`keyring_oci_key_file`](#)

Removed in version 8.4.0

- [`keyring_oci_key_fingerprint`](#)

Removed in version 8.4.0

- [`keyring_oci_management_endpoint`](#)

Removed in version 8.4.0

- [`keyring_oci_master_key`](#)

Removed in version 8.4.0

- [`keyring_oci_secrets_endpoint`](#)

Removed in version 8.4.0

- [`keyring_oci_tenancy`](#)

Removed in version 8.4.0

- [`keyring_oci_user`](#)

Removed in version 8.4.0

- [`keyring_oci_vaults_endpoint`](#)

Removed in version 8.4.0

- **keyring_oci_virtual_vault**
Removed in version 8.4.0
- **language**
Removed in version 8.4.0
- **mysql-native-password**
Introduced in version 8.4.0
Deprecated in version 8.4.0
- **ndb_log_cache_size**
Introduced in version 8.4.3-ndb-8.4.3
- **Ndb_schema_participant_count**
Introduced in version 8.4.5
- **new**
Removed in version 8.4.0
- **no-dd-upgrade**
Removed in version 8.4.0
- **old**
Removed in version 8.4.0
- **restrict_fk_on_non_standard_key**
Introduced in version 8.4.0
Deprecated in version 8.4.0
- **show_old_temporals**
Removed in version 8.4.0
- **skip-ssl**
Removed in version 8.4.0
- **ssl**
Removed in version 8.4.0
- **thread_pool_longrun_trx_limit**
Introduced in version 8.4.0

1.7 Option and Variable Changes for MySQL 9.0

The following list details the changes to specific options and variables within MySQL 9.0.

- **mle_heap_status**
Introduced in version 9.0.0

- **mle_languages_supported**
Introduced in version 9.0.0
- **mle_memory_used**
Introduced in version 9.0.0
- **mle_oom_errors**
Introduced in version 9.0.0
- **mle_session_resets**
Introduced in version 9.0.0
- **mle_sessions**
Introduced in version 9.0.0
- **mle_sessions_max**
Introduced in version 9.0.0
- **mle_status**
Introduced in version 9.0.0
- **mle_stored_functions**
Introduced in version 9.0.0
- **mle_stored_procedures**
Introduced in version 9.0.0
- **mle_stored_program_bytes_max**
Introduced in version 9.0.0
- **mle_stored_program_sql_max**
Introduced in version 9.0.0
- **mle_stored_programs**
Introduced in version 9.0.0
- **mle_threads**
Introduced in version 9.0.0
- **mle_threads_max**
Introduced in version 9.0.0
- **mle.memory_max**
Introduced in version 9.0.0

1.8 Option and Variable Changes for MySQL 9.1

The following list details the changes to specific options and variables within MySQL 9.1.

- **`authentication_openid_connect_configuration`**
Introduced in version 9.1.0
- **`connection_memory_status_limit`**
Introduced in version 9.1.0
- **`Count_hit_query_past_connection_memory_status_limit`**
Introduced in version 9.1.0
- **`Count_hit_tmp_table_size`**
Introduced in version 9.1.0
- **`global_connection_memory_status_limit`**
Introduced in version 9.1.0
- **`Gr_flow_control_throttle_active_count`**
Introduced in version 9.1.0
- **`Gr_flow_control_throttle_count`**
Introduced in version 9.1.0
- **`Gr_flow_control_throttle_last_throttle_timestamp`**
Introduced in version 9.1.0
- **`Gr_flow_control_throttle_time_sum`**
Introduced in version 9.1.0
- **`ndb_log_cache_size`**
Introduced in version 9.1.0-ndb-9.1.0
- **`option_tracker.gr_complete_table_received`**
Introduced in version 9.1.0
- **`option_tracker.gr_complete_table_sent`**
Introduced in version 9.1.0
- **`option_tracker.gr_error_received`**
Introduced in version 9.1.0
- **`option_tracker.gr_error_sent`**
Introduced in version 9.1.0
- **`option_tracker.gr_reset_request_received`**
Introduced in version 9.1.0
- **`option_tracker.gr_reset_request_sent`**
Introduced in version 9.1.0
- **`option_tracker.gr_single_row_received`**

Introduced in version 9.1.0

- [`option_tracker.gr_single_row_sent`](#)

Introduced in version 9.1.0

- [`performance-schema-logger`](#)

Introduced in version 9.1.0

- [`Performance_schema_logger_lost`](#)

Introduced in version 9.1.0

- [`performance_schema_max_logger_classes`](#)

Introduced in version 9.1.0

- [`table_open_cache_triggers`](#)

Introduced in version 9.1.0

- [`Table_open_cache_triggers_hits`](#)

Introduced in version 9.1.0

- [`Table_open_cache_triggers_misses`](#)

Introduced in version 9.1.0

- [`Table_open_cache_triggers_overflows`](#)

Introduced in version 9.1.0

- [`Telemetry_logs_supported`](#)

Introduced in version 9.1.0

- [`telemetry.log_enabled`](#)

Introduced in version 9.1.0

- [`telemetry.otel_blrp_max_export_batch_size`](#)

Introduced in version 9.1.0

- [`telemetry.otel_blrp_max_queue_size`](#)

Introduced in version 9.1.0

- [`telemetry.otel_blrp_schedule_delay`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_certificates`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_cipher`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_cipher_suite`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_client_certificates`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_client_key`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_compression`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_endpoint`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_headers`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_max_tls`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_min_tls`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_protocol`](#)

Introduced in version 9.1.0

- [`telemetry.otel_exporter_otlp_logs_timeout`](#)

Introduced in version 9.1.0

- [`TempTable_count_hit_max_ram`](#)

Introduced in version 9.1.0

1.9 Option and Variable Changes for MySQL 9.2

The following list details the changes to specific options and variables within MySQL 9.2.

- [`Com_create_library`](#)

Introduced in version 9.2.0

- [`Com_drop_library`](#)

Introduced in version 9.2.0

- [`Com_show_create_library`](#)

Introduced in version 9.2.0

- [`Gr_resource_manager_applier_channel_eviction_timestamp`](#)

Introduced in version 9.2.0

- [`Gr_resource_manager_applier_channel_lag`](#)

Introduced in version 9.2.0

- `Gr_resource_manager_applier_channel_threshold_hits`

Introduced in version 9.2.0

- `Gr_resource_manager_channel_lag_monitoring_error_timestamp`

Introduced in version 9.2.0

- `Gr_resource_manager_memory_eviction_timestamp`

Introduced in version 9.2.0

- `Gr_resource_manager_memory_monitoring_error_timestamp`

Introduced in version 9.2.0

- `Gr_resource_manager_memory_threshold_hits`

Introduced in version 9.2.0

- `Gr_resource_manager_memory_used`

Introduced in version 9.2.0

- `Gr_resource_manager_recovery_channel_eviction_timestamp`

Introduced in version 9.2.0

- `Gr_resource_manager_recovery_channel_lag`

Introduced in version 9.2.0

- `Gr_resource_manager_recovery_channel_threshold_hits`

Introduced in version 9.2.0

- `group_replication_resource_manager.applier_channel_lag`

Introduced in version 9.2.0

- `group_replication_resource_manager.memory_used_limit`

Introduced in version 9.2.0

- `group_replication_resource_manager.quarantine_time`

Introduced in version 9.2.0

- `group_replication_resource_manager.recovery_channel_lag`

Introduced in version 9.2.0

- `log-diagnostic`

Introduced in version 9.2.0

- `log-diagnostic-enable`

Introduced in version 9.2.0

- `option_tracker_usage`

Introduced in version 9.2.1

- [`version_tokens_session`](#)

Deprecated in version 9.2.0

- [`version_tokens_session_number`](#)

Deprecated in version 9.2.0

Chapter 2 Built-In Functions and Operators

The following table shows all built-in functions and operators available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 2.1 Built-In Function and Operator Reference

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
&				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
>=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<>, !=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<<				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<=>				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
%, MOD				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
*				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
+				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
-				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
-				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
->	5.7.9			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
->>	5.7.13			Some	Yes							
/				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
:=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
=				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
^				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ABS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACOS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADDDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ADDTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AES_DECRYPT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AES_ENCRYPT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AND, &&				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ANY_VALUE()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Area()	5.7.6			Yes								
AsBinary(), AsWKB()	5.7.6			Yes								
ASCII()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ASIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AsText(), AsWKT()	5.7.6			Yes								
asynchronous_connection_failover_add()	8.0.23			Some failures	Yes							
asynchronous_connection_failover_add_source()	8.0.22			Some failures	Yes							
asynchronous_connection_failover_set_delegate()	8.0.23			Some failures	Yes							
asynchronous_connection_failover_set_source()	8.0.22			Some failures	Yes							
asynchronous_connection_failover_set_timeout()	8.0.27			Some failures	Yes							
ATAN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ATAN2(), ATAN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AVG()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BENCHMARK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BETWEEN ... AND ...				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIN_TO_UUID()					Yes							
BINARY	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_AND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_COUNT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_OR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BIT_XOR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Buffer()	5.7.6			Yes								
CAN_ACCESS_COLUMN()					Yes							
CAN_ACCESS_DATABASE()					Yes							

Name	Introduced	Degraded	Retired	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
CAN_ACCESS_TABLE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_USER()	8.0.22				Some	Yes							
CAN_ACCESS_VIEW()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CASE					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CAST()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CEIL()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CEILING()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Centroid()	5.7.6				Yes								
CHAR()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHAR_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHARACTER_LENGTH()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHARSET()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COALESCE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COERCIBILITY()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLLATION()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPRESS()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONCAT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONCAT_WS()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONNECTION_ID()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contains()	5.7.6				Yes								
CONV()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONVERT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONVERT_TZ()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Convex()	5.7.15				Yes								
COS()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COUNT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COUNT(DISTINCT)					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CRC32()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Crosses()	5.7.6				Yes								
CUME_DIST()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURDATE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_DATE(), CURRENT_DATE					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_ROLE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_TIME(), CURRENT_TIME					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_TIMESTAMP(), CURRENT_TIMESTAMP					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURRENT_USER(), CURRENT_USER					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CURTIME()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
DATABASE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_ADD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATE_SUB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DATEDIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAY()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYNAME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFMONTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFWEEK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DAYOFYEAR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DECODE()	5.7.2	8.0.3	Yes									
DEFAULT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEGREES()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DENSE_RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DES_DECRYPT()	5.7.6	8.0.3	Yes									
DES_ENCRYPT()	5.7.6	8.0.3	Yes									
Dimension()	5.7.6		Yes									
Disjoint()	5.7.6		Yes									
DISTANCE()										Yes	Yes	Yes
DIV				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENCODE()	5.7.2	8.0.3	Yes									
ENCRYPT()	5.7.6	8.0.3	Yes									
EndPoint()	5.7.6		Yes									
Envelope()	5.7.6		Yes									
Equals()	5.7.6		Yes									
EXISTS()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXP()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXPORT_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ExteriorRing	5.7.6		Yes									
EXTRACT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ExtractValue()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIELD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIND_IN_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FIRST_VALUE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FLOOR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORMAT_8016S()					Some	Yes						
FORMAT_8016_TIME()					Some	Yes						
FOUND_ROWS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
FROM_BASE64()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FROM_DAYS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FROM_UNIXTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeomCollection()	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeomCollFromText(), GeometryCollectionFromText()	5.7.6			Yes								
GeomCollFromWKB(), GeometryCollectionFromWKB()	5.7.6			Yes								
GeometryCollection()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GeometryN()	5.7.6			Yes								
GeometryType()	5.7.6			Yes								
GeomFromText(), GeometryFromText()	5.7.6			Yes								
GeomFromWKB(), GeometryFromWKB()	5.7.6			Yes								
GET_DD_COLUMN_PRIVILEGES()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_DD_CREATE_OPTIONS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_DD_INDEX_SUB_PART_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_FORMAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GET_LOCK()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GLength()	5.7.6			Yes								
GREATEST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GROUP_CONCAT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_application_disable_member()	8.0.26			Some action	Yes()	Yes						
group_application_enable_member()	8.0.26			Some time	Yes()	Yes						
group_application_get_communi	8.0.16			Some member	Yes or No	Yes						
group_application_get_write_c	8.0.13			Some member	Yes()	Yes						
group_application_reset_membe	8.0.26			Some member	Yes()	Yes						
group_application_set_as_pri	8.0.29			Some member	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_application_set_commu	8.0.16			Some member	Yes or No	Yes						
group_application_set_write_c	8.0.13			Some member	Yes()	Yes						
group_application_switch_to_m	8.0.13			Some previous mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_application_switch_to_s	8.0.13			Some previous mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GROUP()	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GTID_SUBSET()				Yes	Yes							
GTID_SUBTRACT()				Yes	Yes							
HEX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOUR()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICU_VERSION()	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IFNULL()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
INET_ATON()				Yes								
INET_NTOA()				Yes								
INET6_ATON()				Yes	Yes							
INET6_NTOA()				Yes	Yes							
INSERT()				Yes								
INSTR()				Yes								
InteriorRing5.7.6				Yes								
INTERNAL_AUTO_INCREMENT()				Yes								
INTERNAL_AVG_ROW_LENGTH()				Yes								
INTERNAL_CHECK_TIME()				Yes								
INTERNAL_CHECKSUM()				Yes								
INTERNAL_DATA_FREE()				Yes								
INTERNAL_DATA_LENGTH()				Yes								
INTERNAL_DD_CHAR_LENGTH()				Yes								
INTERNAL_GET_COMMENT_OR_ERROR				Yes								
INTERNAL_SET_ENABLED_ROLE_JSON	8.0.19		Some	Yes								
INTERNAL_SET_HOSTNAME()	8.0.19		Some	Yes								
INTERNAL_SET_USERNAME()	8.0.19		Some	Yes								
INTERNAL_GET_VIEW_WARNING_OR_ERROR	8.0.19		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_COLUMN_CARDINALITY	8.0.19		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_LENGTH()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_SET_ENABLED_ROLE()	8.0.19		Some	Yes								
INTERNAL_SET_MANDATORY_ROLE()	8.0.19		Some	Yes								
INTERNAL_KEYS_DISABLED()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_MAX_DATA_LENGTH()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_TABLE_ROWS()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INTERNAL_UPDATE_TIME()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intersects()	5.7.6		Yes									
INTERVAL()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_FREE_LOCK()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS_IPV4()			Yes	Yes								
IS_IPV4_COMPAT()			Yes	Yes								
IS_IPV4_MAPPED()			Yes	Yes								
IS_IPV6()			Yes	Yes								
IS NOT			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS NOT NULL			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IS NULL			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	Ed7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
IS_USED_LOCK()				Yes								
IS_UUID()				Yes								
IsClosed()	5.7.6		Yes									
IsEmpty()	5.7.6		Yes									
ISNULL()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IsSimple()	5.7.6		Yes									
JSON_A5.7.8END(5.7.9)			Yes									
JSON_A5.7.8V()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_A5.7.9V_APPEND()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_A5.7.8V_INSERT()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_A5.7.22,AGG() 8.0.1			Some	Yes								
JSON_C5.7.8AINS()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_C5.7.8AINS_PATH()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_D5.7.8I()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_E5.7.8RACT()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_I5.7.8T()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_K5.7.8)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_L5.7.8TH()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_M5.7.8() 5.7.22, 8.0.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_M5.7.22,PATCH() 8.0.3			Some	Yes								
JSON_M5.7.22,PRESERVE() 8.0.3			Some	Yes								
JSON_O5.7.8CT()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_O5.7.22,AGG() 8.0.1			Some	Yes								
JSON_O8.0.17APS()			Some	Yes								
JSON_P5.7.22,() 8.0.1			Some	Yes								
JSON_Q5.7.8()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_R5.7.8VE()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_R5.7.8ACE()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_S8.0.17A_VALID()			Some	Yes								
JSON_S8.0.17A_VALIDATION_REPORT			Some	Yes								
JSON_S5.7.8CH()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_S5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_S8.0.2AGE_FREE()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_S5.7.22,E_SIZE() 8.0.2			Some	Yes								
JSON_T8.0.4()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_T5.7.8)			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
JSON_UNQUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_VQUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JSON_VQUOTE()	8.0.21			Some	Yes							
LAG()	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_DAY				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_INSERT_ID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LAST_VALUE()	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LCASE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEAD()	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEAST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LEFT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LineFromText()	5.7.6			Yes								
LineStringFromText()				Yes								
LineFromWKB()	5.7.6			Yes								
LineStringFromWKB()				Yes								
LineString()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOAD_FILE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIME												
LOCALTIMESTAMP,				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOCALTIMESTAMP()												
LOCATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG10()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOG2()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LOWER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LPAD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LTRIM()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKE_SET()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKEDATE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAKETIME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MASTER_POS()	8.0.26			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MATCH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRContains()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRCoveredBy()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRCovers()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRDisjoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBREqual()	5.7.6			Yes								

Name	Introduced	Deprecated	Retired	Ed7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
MBREquals()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRIntersects()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBROverlaps()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRTouches()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MBRWithin()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MD5()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEMBER OF()	8.0.17			Some	Yes							
MICROSECOND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MINUTE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MLineFromText()	5.7.6			Yes								
MultiLineStringFromText()												
MLineFromWKB()	5.7.6			Yes								
MultiLineStringFromWKB()												
MOD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MONTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MONTHNAME()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPointFromText()	5.7.6			Yes								
MultiPointFromText()												
MPointFromWKB()	5.7.6			Yes								
MultiPointFromWKB()												
MPolyFromText()	5.7.6			Yes								
MultiPolygonFromText()												
MPolyFromWKB()	5.7.6			Yes								
MultiPolygonFromWKB()												
MultiLineString()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MultiPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MultiPolygon()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NAME_CONST()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT, !				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT BETWEEN ... AND ...				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT EXISTS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT IN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT LIKE				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOT REGEXP				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NOW()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
NTH_VALUE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NTILE()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NULLIF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NumGeometries()	5.7.6			Yes								
NumInteriorRings()	5.7.6			Yes								
NumPoints()	5.7.6			Yes								
OCT()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OCTET_LENGTH()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OLD_PASSWORD	5.6.5	5.7.5										
OR,					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ORD()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overlaps()	5.7.6			Yes								
PASSWORD()	5.7.6	8.0.11	Yes									
PERCENT_RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PERIOD_ADD()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PERIOD_DIFF()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PI()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Point()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PointFromText()	5.7.6			Yes								
PointFromWKB()	5.7.6			Yes								
PointN()	5.7.6			Yes								
PolyFromText()	5.7.6			Yes								
PolygonFromText()												
PolyFromWKB()	5.7.6			Yes								
PolygonFromWKB()												
Polygon()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POSITION()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POW()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
POWER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROCEDURE ANALYSE()	5.7.18			Yes								
PS_CURR_THREAD_ID()	8.0.16				Some	Yes						
PS_THREAD_ID()	8.0.16				Some	Yes						
QUARTER()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
QUOTE()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RADIANS()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RAND()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RANDOM_BYTES()	5.7.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RANK()	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_INSTR()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.14				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Retired	Ed7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELEASE_ALL_LOCKS()	5.7.5				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RELEASE_LOCK()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPEAT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPLACE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REVERSE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIGHT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RLIKE					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROLES_GRAPHML()						Yes						
ROUND()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_COUNT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROW_NUMBER()	8.0.2					Yes						
RPAD()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RTRIM()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMA()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SEC_TO_TIME()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SECOND()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SESSION_USER()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHA1(), SHA()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHA2()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIGN()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIN()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SLEEP()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOUNDEX()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOUNDS LIKE					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_WAIT()	8.0.26				Some	Yes						
SPACE()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Distance()	5.7.5	5.7.6			Yes							
SQRT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SRID()		5.7.6			Yes							
ST_Area()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsBinary(), ST_AsWKB()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsGeoJSON()	5.7.5				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_AsText(), ST_AsWKT()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Buffer()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Buf5.7.7 Strategy()	5.7.7				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Centroid()					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
ST_Col8.0.24()					Some	Yes						
ST_Contains()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Co5.7.5nHull()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Crosses()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Difference()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Dimension()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Disjoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Distanc8.0.24e()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Dis5.7.6tanceSphere()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_EndPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Envelope()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Equals()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_ExteriorRing()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Fre8.0.23dDistance()				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Geo5.7.5m()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromText(), ST_GeometryCollectionFromText(), ST_GeomCollFromTxt()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromWKB(), ST_GeometryCollectionFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeometryN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeometryType()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Geo5.7.5mGeoJSON()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromText(), ST_GeometryFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_GeomFromWKB(), ST_GeometryFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Hau8.0.23fDistance()				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_InteriorRingN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Interse8.0.23ction()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Intersects()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsClosed()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsEmpty()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsSimple()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_IsV5.7.6()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Lat5.7.5GeoHash()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Lat8.0.12e()				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Len5.7.6()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LineFromText(), ST_LineStringFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LineFromWKB(), ST_LineStringFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Lin8.0.24polatePoint()				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	Ed7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
ST_LineInterpolatePoints()	8.0.24			Some	Yes							
ST_LongFromGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_LongToGeoHash()	8.0.12			Some	Yes							
ST_MakeEnvelope()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MLFromText(), ST_MultiLineStringFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MLFromWKB(), ST_MultiLineStringFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPFromText(), ST_MultiPointFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPFromWKB(), ST_MultiPointFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPolyFromText(), ST_MultiPolygonFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_MPolyFromWKB(), ST_MultiPolygonFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumGeometries()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumInteriorRing(), ST_NumInteriorRings()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_NumPoints()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Overlaps()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PolygonArea()	8.0.24			Some	Yes							
ST_PointFromGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PointN()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PolyFromText(), ST_PolygonFromText()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_PolyFromWKB(), ST_PolygonFromWKB()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Simplify()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SRID()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_StartPoint()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SwapY()	8.0.1				Yes							
ST_SymDifference()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Touches()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Transform()	8.0.13			Some	Yes							
ST_Union()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Value()	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Within()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_X()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_Y()				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
StartPoint()	5.7.6			Yes								

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
STATEMENT_DIGEST()	8.0.4				Yes							
STATEMENT_DIGEST_TEXT()	8.0.4				Yes							
STD()				Yes								
STDDEV()				Yes								
STDDEV_POP()				Yes								
STDDEV_SAMP()				Yes								
STR_TO_DATE()				Yes								
STRCMP()				Yes								
STRING_TO_VECTOR()										Yes	Yes	Yes
SUBDATE()				Yes								
SUBSTR()				Yes								
SUBSTRING()				Yes								
SUBSTRING_INDEX()				Yes								
SUBTIME()				Yes								
SUM()				Yes								
SYSDATE()				Yes								
SYSTEM_USER()				Yes								
TAN()				Yes								
TIME()				Yes								
TIME_FORMAT()				Yes								
TIME_TO_SEC()				Yes								
TIMEDIFF()				Yes								
TIMESTAMP()				Yes								
TIMESTAMPADD()				Yes								
TIMESTAMPDIFF()				Yes								
TO_BASE64()				Yes								
TO_DAYS()				Yes								
TO_SECONDS()				Yes								
Touches()	5.7.6			Yes								
TRIM()				Yes								
TRUNCATE()				Yes								
UCASE()				Yes								
UNCOMPRESS()				Yes								
UNCOMPRESSED_LENGTH()				Yes								
UNHEX()				Yes								
UNIX_TIMESTAMP()				Yes								
UpdateXML()				Yes								
UPPER()				Yes								
USER()				Yes								
UTC_DATE()				Yes								
UTC_TIME()				Yes								

Name	Introduced	Deprecated	Removed	Ed7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
UTC_TIMESTAMP()				Yes								
UUID()				Yes								
UUID_SHORT()				Yes								
UUID_TO_BIN()					Yes							
VALIDATE_PASSWORD_STRENGTH()		Yes		Yes								
VALUES()				Yes								
VAR_POP()				Yes								
VAR_SAMP()				Yes								
VARIANCE()				Yes								
VECTOR_DIM()										Yes	Yes	Yes
VECTOR_TO_STRING()										Yes	Yes	Yes
VERSION()				Yes								
WAIT_F5.7.5_EXECUTED_GTID_SET()	5.7.5	Yes		Yes								
WAIT_UNTIL_S8.0.18_THREAD_AFTER_GTIDS()	8.0.18	Yes	Yes	Yes	Yes							
WEEK()				Yes								
WEEKDAY()				Yes								
WEEKOFYEAR()				Yes								
WEIGHT_STRING()				Yes								
Within()	5.7.6			Yes								
X()	5.7.6			Yes								
XOR					Yes							
Y()	5.7.6			Yes								
YEAR()					Yes							
YEARWEEK()					Yes							
					Yes							
~					Yes							

Chapter 3 Loadable Functions

The following table shows all loadable functions available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 3.1 Loadable Function Reference

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
asymme 5.7.9 _decrypt(8.0.11	Yes		Yes							
asymme 5.7.9 _derive()	8.0.11	Yes		Yes							
asymme 5.7.9 _encrypt(8.0.11	Yes		Yes							
asymme 5.7.9 _sign()	8.0.11	Yes		Yes							
asymme 5.7.9 _verify()	8.0.11	Yes		Yes							
asynch 8.0.23 s_connection_f		Some	Yes								
asynch 8.0.22 s_connection_f		Some	Yes								
asynch 8.0.23 s_connection_f		Some	Yes								
asynch 8.0.22 s_connection_f		Some	Yes								
audit_api_message_emit_ud	Yes		Yes								
audit_log_encryptio	Yes	passw	Yes								
audit_log_encryptio	Yes	passw	Yes								
audit_log_filter_f1	Yes()	Yes		Yes							
audit_log_filter_re	Yes_f	Yes_r()	Yes								
audit_log_filter_re	Yes_u	Yes_s()	Yes								

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
audit_log_filter_set	Yes	filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_set	Yes	lesser	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read_bookmark	Yes	sk()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
audit_log_rotate()			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_asymmetric_pk	5.7.9, 8.0.11	Yes	key	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_asymmetric_pk	5.7.9, 8.0.11	Yes	key	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_asymmetric_parameters	5.7.9, 8.0.11	Yes	\$	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
create_asymest	5.7.9, 8.0.11	Yes	est()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_delist()	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_enlist()	8.0.23		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
flush_rewrite_rules	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist	8.0.23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist	8.0.33	st()		Some	Yes						
gen_blacklist	8.0.23	st()		Some	Yes						
gen_dictionary	8.0.33	ary()		Some	Yes						
gen_dictionary_drop	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary_load	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_random	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_range()		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomada_sin	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomail	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_random_email		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomn	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_random	8.0.33		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randompan		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomssn		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomnin		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomphone		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomus_phone		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
gen_randomsd		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_disable_member	Yes	member	Yes	tion	Yes						
group_replication_enable_member	Yes	member	Yes	ion	Yes						
group_replication_get_commits	Yes	nicat	Yes	pro	Yes	col	Yes	Yes	Yes	Yes	Yes
group_replication_get_writes	Yes	conc	Yes	ency	Yes						
group_replication_reset_member	Yes	er_a	Yes	sions	Yes						

Name	Introduced	Degraded	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
group_replication_set_as_primary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_compatibility	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_set_writer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_secondary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_primary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate	Yes()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate_persistent	Yes()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_hashicorp_update	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_fetch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_generate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_length	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_remove	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_store	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_key_type_free	Yes()	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
load_rewrite_rules	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_change_sin	8.0.33	Some	Yes								
mask_inner	8.0.33	Some	Yes								
mask_innermost	8.0.33	Some	Yes								
mask_innermost	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_outer	8.0.33	Some	Yes								
mask_outermost	8.0.33	Some	Yes								
mask_pan	8.0.33	Some	Yes								
mask_pan	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_pan_relaxed	8.0.33	Some	Yes								
mask_pan_relaxed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_ssn	8.0.33	Some	Yes								
mask_ssn	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mask_update	8.0.33	Some	Yes								
mask_update	8.0.33	Some	Yes								
masking_dictionaries_flush						Yes	Yes	Yes	Yes	Yes	Yes
masking_dictionary_remove	8.0.33	Some	Yes								
masking_dictionary_term_add	8.0.33	Some	Yes								
masking_dictionary_term_remove	8.0.33	Some	Yes								
mle_session_reset									Yes	Yes	Yes
mle_session_state									Yes	Yes	Yes
mle_set_session_state									Yes	Yes	Yes
mysql_firewall_flush	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_query_attribute_string	8.0.23	Some	Yes								
normalize_statement	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
option_tracker_option_register										Yes	Yes
option_tracker_option_unregister										Yes	Yes

Name	Introduced	Deprecated	5.5	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
option_tracker_usage_get()										Yes	Yes
option_tracker_usage_set()										Yes	Yes
read_file_group_allow()	8.0.23	11	Some	Yes							
read_file_groups()	8.0.23	11	Some	Yes							
read_firewall()	8.0.26	18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
read_firewall_te()	8.0.26	18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_read_lock()	5.7.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_write_lock()	5.7.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service_lease_lock()	5.7.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
set_firewall_group_mode()	8.0.23	11	Some	Yes							
set_firewall_()	8.0.26	18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_delete()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_edit()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_lock_cluster()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_lock_shared()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_set()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_show()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version_token_unlock()	9.2.0	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Chapter 4 INFORMATION_SCHEMA Tables

The following table shows all INFORMATION_SCHEMA tables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 4.1 INFORMATION_SCHEMA Table Reference

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
ADMINISTRATORS	8.0.19	8.0.19	8.0.19	ROLE_AUTHORIZATIONS	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
APPLICATION_ROLES	8.0.19				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHARACTER_SETS				CHARACTER_SETS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CHECK_CONSTRAINTS	8.0.16				Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLLATION_CHARACTER_SETS	8.0.19	8.0.19	8.0.19	CHARACTER_SETS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLLATIONS				COLLATIONS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN_PRIVILEGES				COLUMN_PRIVILEGES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN_STATISTICS	8.0.21			STATISTICS		Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMNS				COLUMNS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLUMN_EXTENSIONS	8.0.21			EXTENSIONS		Some	Yes	Yes	Yes	Yes	Yes	Yes
CONNECTION_CONTROL_FAILURES	5.7.17			CONNECTION_CONTROL_FAILURES	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLED_FEATURES	8.0.19			FEATURES	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENGINES				ENGINES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EVENTS				EVENTS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FILES				FILES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GLOBAL_STATUS	8.0.1			GLOBAL_STATUS	8.0.1	Yes						
GLOBAL_VARIABLES	8.0.1			GLOBAL_VARIABLES	8.0.1	Yes						

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
INNODB_BUFFER_PAGE				Yes								
INNODB_BUFFER_PAGE_LRU	Yes			Yes								
INNODB_BUFFER_POOL_STAT	Yes			Yes								
INNODB_CACHED_INDEXES				Yes								
INNODB_CMP				Yes								
INNODB_CMP_PER_INDEX	Yes			Yes								
INNODB_CMP_PER_INDEX_RESET	Yes			Yes								
INNODB_CMP_RESET				Yes								
INNODB_CMPMEM				Yes								
INNODB_CMPMEM_RESET	Yes			Yes								
INNODB8.0.3_COLUMNS				Yes								
INNODB8.0.3_DATAFILES				Yes								
INNODB8.0.3_FIELDS				Yes								
INNODB8.0.3_FOREIGN				Yes								
INNODB8.0.3_FOREIGN_COLS				Yes								
INNODB_FT_BEING_DELETED	Yes			Yes								
INNODB_FT_CONFIG				Yes								
INNODB_FT_DEFAULT_STOPWORD	Yes			Yes								
INNODB_FT_DELETED				Yes								
INNODB_FT_INDEX_CACHE	Yes			Yes								
INNODB_FT_INDEX_TABLE	Yes			Yes								
INNODB8.0.3_INDEXES				Yes								
INNODB_LOCK5.7.14S	5.7.14	8.0.1	Yes									
INNODB_LOCKS5.7.14	5.7.14	8.0.1	Yes									
INNODB_METRICS				Yes								
INNODB8.0.13_SESSION_TEMP_TABLESPACES			Some	Yes								
INNODB_SYS_COLUMNS	8.0.2		Yes									
INNODB_SYS_DATAFILES	8.0.2		Yes									
INNODB_SYS_FIELDS	8.0.2		Yes									
INNODB_SYS_FOREIGN	8.0.2		Yes									
INNODB_SYS_FOREIGNL8.0.2S	8.0.2		Yes									
INNODB_SYS_INDEXES	8.0.2		Yes									
INNODB_SYS_TABLES	8.0.2		Yes									
INNODB_SYS_TABLESP8.0.2S	8.0.2		Yes									
INNODB_SYS_TABLEST8.0.2	8.0.2		Yes									
INNODB5.7.8_VIRTUAL	5.7.8	8.0.2	Yes									
INNODB8.0.3_TABLES				Yes								
INNODB8.0.3_TABLESPACES				Yes								
INNODB8.0.3_TABLESPACES_BRIEF				Yes								
INNODB8.0.3_TABLESTATS				Yes								

Table Name	Introduced	Degraded	Retired	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
INNODB_5.7.1_TEMP_TABLE_INFO					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_TRX					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_VIRTUAL						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KEY_COLUMN_USAGE					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
KEYWORD_8.0.11						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_FIREWALL_8.0.26_USERS					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_FIREWALL_8.0.26_WHITELIST					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ndb_transid_mysql_connected					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARAMETERS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARTITIONS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLUGINS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROCESSLIST						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROFILING						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REFERENTIAL_CONSTRAINTS					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RESOURCE_GROUPS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROLE_CLOUD_GRANTS						Some	Yes						
ROLE_PERMISSIONS						Some	Yes						
ROLE_TABLE_GRANTS						Some	Yes						
ROUTINES						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMA_PRIVILEGES						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMATA						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SCHEMATE_8.0.22_EXTENSIONS						Some	Yes						
SESSION_STATUS	8.0.1	Yes											
SESSION_VARIABLES	8.0.1	Yes											
ST_GEOLOGY_COLUMNS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_SPATIAL_REFERENCE_SYSTEMS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ST_UNITS_MEASURE						Some	Yes						
STATISTICS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_CONSTRAINTS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_8.0.21_CONSTRAINTS_EXTENSIONS						Some	Yes						
TABLE_PRIVILEGES						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLES						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TABLE_EXTENSIONS						Some	Yes						
TABLESPACES	8.0.22	Yes	Yes			Yes	Yes	Yes	Yes				
TABLESPACES_8.0.21_EXTENSIONS						Some	Yes						
TP_THREAD_GROUP_STATE		Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TP_THREAD_GROUP_STATS		Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TP_THREAD_STATE		Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TRIGGERS						Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
USER_ATTRIBUTES	8.0.21				Some	Yes						
USER_PRIVILEGES			Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VIEW_ROLE_USAGE	8.0.13				Some	Yes						
VIEW_TABLE_USAGE	8.0.13				Some	Yes						
VIEWS			Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Chapter 5 Performance Schema Tables

The following table shows all Performance Schema tables available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
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- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 5.1 Performance Schema Table Reference

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
accounts				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
binary_log_transaction_compression	8.0.20			Some	Yes							
clone_address	8.0.17			Some	Yes							
clone_us	8.0.17			Some	Yes							
component_scheduler_tasks	8.0.34			Some	Yes							
cond_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
data_1801_waits	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
data_1801s	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
error_8.0.22				Some	Yes							
events_errors_summary_by_account		Yes_by_error		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_host		Yes_error		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_thread		Yes_error		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_user		Yes_error		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_errors_summary_global		Yes_error		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_current		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_history		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_history_long		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
events_stages_summary_by_account_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_host	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_thread_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_user_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_stages_summary_global_by_event_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_current	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_histogram_8.0.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_histogram_global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_history	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_history_long	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_account_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_digest	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_program	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_read_executed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_transaction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_statements_summary_global_by_event_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_current	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_history	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_history_long	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_account_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_host	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_thread_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_transactions_summary_global_by_event_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_current	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_history	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_history_long	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_account_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_host	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_thread_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_user_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
events_waits_summary_global_by_event_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
file_instances	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
file_summary_by_event_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
file_summary_by_instance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
firewall_group_allowlist			Some	Yes								
firewall_groups			Some	Yes								
firewall_membership			Some	Yes								

Table Name	Introduced	Degraded	Retired	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
global_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
global_variable_attributes										Yes	Yes	Yes
global_variables	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
host_cache				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
hosts				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
keyring_component_status	8.0.24			Some	Yes							
keyring_oids	8.0.16			Some	Yes							
log_status	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_account_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_host_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_thread_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_by_user_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_summary_global_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
metadata_locks	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mutex_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_option											Yes	Yes
ndb_replication_applier_status										Yes	Yes	Yes
ndb_sys_excluded_objects	8.0.21			Some	Yes							
ndb_sys_pending_objects	8.0.21			Some	Yes							
objects_summary_global_by_type				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_timers				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
persisted_variables	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
prepared_statements_instant	5.7.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
processes	8.0.22			Some	Yes							
replication_applier_config	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_applier_filters	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_applier_global_filters	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_applier_stats	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_applier_stats_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_applier_stats_by_worker	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_asynchronous_connections	8.0.22			Some	Yes							
replication_asynchronous_connections	8.0.23			Some	Yes							
replication_connection_configuration	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_connection_status	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_group_communication	8.0.27			Some	Yes							
replication_group_member_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
replication_group_member	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rwlock_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_account_connect				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_connect_attrs				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
session_status	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_variables	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_actors				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_consumers				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_instruments				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_objects				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_pads	8.0.3				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
setup_timers	5.7.21	8.0.4		Yes								
socket_instances				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
socket_summary_by_event_name				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
socket_summary_by_instance				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_account	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_host	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
status_user	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_handles	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_index_usage				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
table_lock_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
threads				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tls_channel_status	8.0.21				Some	Yes						
tp_thread_group_state	8.0.14				Some	Yes						
tp_thread_group_stats	8.0.14				Some	Yes						
tp_thread_state	8.0.14				Some	Yes						
user_defined_functions	8.0.2				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_tables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
users				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
variables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
variables_info					Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
variables_metadata										Yes	Yes	Yes

Chapter 6 sys Schema Objects

The following tables show all `sys` schema objects available in MySQL Server. Each table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Deprecated:** The version or versions in which the item was deprecated. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server release series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 6.1 sys Schema Table and Trigger Reference

Table or Trigger Name	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
<code>sys_config</code>	Yes								
<code>sys_config_insert</code>	Yes								
<code>sys_config_update</code>	Yes								

Table 6.2 sys Schema View Reference

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
<code>host_summary</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file_type</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_stages</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
host_summary_by_statement_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
host_summary_by_statement_type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_stats_by_schema	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_stats_by_table	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lock_waits	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_by_thread_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_file_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_file_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_wait_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
io_global_wait_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
latest_file_io	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_host_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_thread_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_by_user_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_global_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
memory_global_total	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
metrics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
processlist, x \$processlist	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_check_lost_statement	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_auto_instrumentation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_index_statistics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_object_view	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_redundant_index	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_lock_waits	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_statistics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_table_statistics_with_buffer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_tables_with_full_table_scans	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
schema_unused_lexemes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session, x \$session	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
session_ssl_status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statement_analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_errors_or_warnings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_full_table_scans	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_runtimes_in_95th_percentile	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_sorting	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
statements_with_temp_tables	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary, x \$user_summary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
user_summary_by_file Yes x \$user_summary_by_file_io	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_file Yes x \$user_summary_by_file_type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_stages Yes x \$user_summary_by_stages	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_statement Yes x \$user_summary_by_statement_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
user_summary_by_statement Yes x \$user_summary_by_statement_type	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
version 5.7.28, 8.0.18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
wait_classes_global_by_avg_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
wait_classes_global_by_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_by_host_by_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_by_user_by_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
waits_global_by_latency	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$ps_digest_95th_percentile_by_avg_us	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$ps_digest_avg_latency_distribution	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$ps_schema_table_statistics_io	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$schema_flattened_keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Table 6.3 sys Schema Stored Procedure Reference

Stored Procedure Name	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
create synonym Yes (\$synonym_name)	Yes								
diagnose Yes (\$diagnose_name)	Yes								
execute Yes (\$prepared_stmt_name)	Yes								

Stored Procedure Name	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
ps_setup	Yes	able	background	Yes	id_thre	Yes()	Yes	Yes	Yes
ps_setup	Yes	able	Yes	consume	Yes))	Yes	Yes	Yes
ps_setup	Yes	able	Yes	instrum	Yes	nt()	Yes	Yes	Yes
ps_setup	Yes	able	Yes	hread	Yes		Yes	Yes	Yes
ps_setup	Yes	able	Yes	background	Yes	_thre	Yes()	Yes	Yes
ps_setup	Yes	able	Yes	consume	Yes		Yes	Yes	Yes
ps_setup	Yes	able	Yes	instrum	Yes)	Yes	Yes	Yes
ps_setup	Yes	able	Yes	hread	Yes		Yes	Yes	Yes
ps_setup	Yes	load	Yes	aved()	Yes		Yes	Yes	Yes
ps_setup	Yes	set	Yes	defau	Yes)	Yes	Yes	Yes
ps_setup	Yes	ave()	Yes		Yes		Yes	Yes	Yes
ps_setup	Yes	how_d	Yes	abled	Yes		Yes	Yes	Yes
ps_setup	Yes	how_d	Yes	abled_	Yes	sumere	Yes)	Yes	Yes
ps_setup	Yes	how_d	Yes	abled_	Yes	strume	Yes()	Yes	Yes
ps_setup	Yes	how_e	Yes	aled()	Yes		Yes	Yes	Yes
ps_setup	Yes	how_e	Yes	aled_c	Yes	sumers	Yes)	Yes	Yes
ps_setup	Yes	how_e	Yes	aled_i	Yes	rumen	Yes()	Yes	Yes
ps_state	Yes	avg	Yes	latency	Yes	listtoge	n()	Yes	Yes
ps_trace	Yes	statement	Yes	diger	Yes)	Yes	Yes	Yes
ps_trace	Yes	read	Yes		Yes		Yes	Yes	Yes
ps_truncate	Yes	_all	Yes	bles()	Yes		Yes	Yes	Yes
statement	Yes	perform	Yes	ance_an	Yes	yzer	Yes)	Yes	Yes
table_ex	Yes	s()	Yes		Yes		Yes	Yes	Yes

Table 6.4 sys Schema Stored Function Reference

Stored Function Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
extract_schema_from	Yes	le_nam	Yes	()	Yes						
extract_table_from	Yes	le_nam	Yes	()	Yes						
format_bytes	8.0.16	Yes	Yes		Yes						
format_path()		Yes	Yes		Yes						
format_statement()		Yes	Yes		Yes						
format_time()	8.0.16	Yes	Yes		Yes						
list_add()		Yes	Yes		Yes						
list_drop()		Yes	Yes		Yes						
ps_is_account_enab	Yes	le	Yes)	Yes						
ps_is_consumer_enab	Yes	le	Yes)	Yes						
ps_is_instrument_de	Yes	lt	Yes	abled	Yes		Yes	Yes	Yes	Yes	Yes
ps_is_instrument_de	Yes	lt	Yes	abled	Yes		Yes	Yes	Yes	Yes	Yes
ps_is_thread_instru	Yes	ted	Yes		Yes		Yes	Yes	Yes	Yes	Yes

Stored Function Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
<code>ps_thread_account()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_id(8.0.16)</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_stack()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_trx_info()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>quote_5.7.14ifier()</code>	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>sys_get_config()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_major()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_minor()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<code>version_patch()</code>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Chapter 7 Keywords and Reserved Words

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This section contains information on the keywords and reserved words within the server when creating and submitting queries to the system. For more information on reserved words and their impact on your queries, see [Keywords and Reserved Words](#), in the MySQL Manual.

The following table shows all keywords and reserved words available in MySQL Server. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version in which the item was introduced.
- **Removed:** The version in which the item was removed.
- Whether the item is available in the corresponding MySQL Server release series. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

Table 7.1 Keyword and Reserved Word Reference

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
ACCESSIBLE			Yes (R)						
ACCOUNT	5.7.6		Yes						
ACTION			Yes						
ACTIVE	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
ADD			Yes (R)						
ADMIN				Yes	Yes	Yes	Yes	Yes	Yes
AFTER				Yes	Yes	Yes	Yes	Yes	Yes
AGAINST				Yes	Yes	Yes	Yes	Yes	Yes
AGGREGATE				Yes	Yes	Yes	Yes	Yes	Yes
ALGORITHM				Yes	Yes	Yes	Yes	Yes	Yes
ALL				Yes (R)					
ALTER				Yes (R)					
ALWAYS	5.7.6		Yes						
ANALYSE		8.0.1	Yes	Yes					
ANALYZE			Yes (R)						
AND			Yes (R)						
ANY			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
ARRAY	8.0.17			Yes	Yes	Yes	Yes	Yes	Yes
AS			Yes (R)						
ASC			Yes (R)						
ASCII			Yes						
ASENSITIVE			Yes (R)						
AT			Yes						
ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
AUTHENTICATION	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
AUTO								Yes	Yes
AUTOEXTEND_SIZE			Yes						
AUTO_INCREMENT			Yes						
AVG			Yes						
AVG_ROW_LENGTH			Yes						
BACKUP			Yes						
BEFORE			Yes (R)						
BEGIN			Yes						
BERNOULLI								Yes	Yes
BETWEEN			Yes (R)						
BIGINT			Yes (R)						
BINARY			Yes (R)						
BINLOG			Yes						
BIT			Yes						
BLOB			Yes (R)						
BLOCK			Yes						
BOOL			Yes						
BOOLEAN			Yes						
BOTH			Yes (R)						
BTREE			Yes						
BUCKETS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
BULK	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
BY			Yes (R)						
BYTE			Yes						
CACHE			Yes						
CALL			Yes (R)						
CASCADE			Yes (R)						
CASCDED			Yes						
CASE			Yes (R)						
CATALOG_NAME			Yes						
CHAIN			Yes						
CHALLENGE_RESPONSE	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
CHANGE			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
CHANGED			Yes						
CHANNEL	5.7.6		Yes						
CHAR			Yes (R)						
CHARACTER			Yes (R)						
CHARSET			Yes						
CHECK			Yes (R)						
CHECKSUM			Yes						
CIPHER			Yes						
CLASS_ORIGIN			Yes						
CLIENT			Yes						
CLONE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
CLOSE			Yes						
COALESCE			Yes						
CODE			Yes						
COLLATE			Yes (R)						
COLLATION			Yes						
COLUMN			Yes (R)						
COLUMNS			Yes						
COLUMN_FORMAT			Yes						
COLUMN_NAME			Yes						
COMMENT			Yes						
COMMIT			Yes						
COMMITTED			Yes						
COMPACT			Yes						
COMPLETION			Yes						
COMPONENT				Yes	Yes	Yes	Yes	Yes	Yes
COMPRESSED			Yes						
COMPRESS	5.7.8		Yes						
CONCURRENT			Yes						
CONDITION			Yes (R)						
CONNECTION			Yes						
CONSISTENT			Yes						
CONSTRAINT			Yes (R)						
CONSTRAINT_CATALOG			Yes						
CONSTRAINT_NAME			Yes						
CONSTRAINT_SCHEMA			Yes						
CONTAINS			Yes						
CONTEXT			Yes						
CONTINUE			Yes (R)						
CONVERT			Yes (R)						
CPU			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
CREATE			Yes (R)						
CROSS			Yes (R)						
CUBE			Yes	Yes (R)					
CUME_DIST	8.0.2			Yes (R)					
CURRENT			Yes						
CURRENT_DATE			Yes (R)						
CURRENT_TIME			Yes (R)						
CURRENT_TIMESTAMP			Yes (R)						
CURRENT_USER			Yes (R)						
CURSOR			Yes (R)						
CURSOR_NAME			Yes						
DATA			Yes						
DATABASE			Yes (R)						
DATABASES			Yes (R)						
DATAFILE			Yes						
DATE			Yes						
DATETIME			Yes						
DAY			Yes						
DAY_HOUR			Yes (R)						
DAY_MICROSECOND			Yes (R)						
DAY_MINUTE			Yes (R)						
DAY_SECOND			Yes (R)						
DEALLOCATE			Yes						
DEC			Yes (R)						
DECIMAL			Yes (R)						
DECLARE			Yes (R)						
DEFAULT			Yes (R)						
DEFAULT_AUTH			Yes						
DEFINER			Yes						
DEFINITION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
DELAYED			Yes (R)						
DELAY_KEY_WRITE			Yes						
DELETE			Yes (R)						
DENSE_RANK	8.0.2			Yes (R)					
DESC			Yes (R)						
DESCRIBE			Yes (R)						
DESCRIPTION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
DES_KEY_FILE	8.0.3	Yes	Yes						
DETERMINISTIC			Yes (R)						
DIAGNOSTICS			Yes						
DIRECTORY			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
DISABLE			Yes						
DISCARD			Yes						
DISK			Yes						
DISTINCT			Yes (R)						
DISTINCTROW			Yes (R)						
DIV			Yes (R)						
DO			Yes						
DOUBLE			Yes (R)						
DROP			Yes (R)						
DUAL			Yes (R)						
DUMPFILE			Yes						
DUPLICATE			Yes						
DYNAMIC			Yes						
EACH			Yes (R)						
ELSE			Yes (R)						
ELSEIF			Yes (R)						
EMPTY	8.0.4			Yes (R)					
ENABLE			Yes						
ENCLOSED			Yes (R)						
ENCRYPT	5.7.11			Yes	Yes	Yes	Yes	Yes	Yes
END			Yes						
ENDS			Yes						
ENFORCED	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
ENGINE			Yes						
ENGINES			Yes						
ENGINE_ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
ENUM			Yes						
ERROR			Yes						
ERRORS			Yes						
ESCAPE			Yes						
ESCAPED			Yes (R)						
EVENT			Yes						
EVENTS			Yes						
EVERY			Yes						
EXCEPT				Yes (R)					
EXCHANGE			Yes						
EXCLUDE	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
EXECUTE			Yes						
EXISTS			Yes (R)						
EXIT			Yes (R)						
EXPANSION			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
EXPIRE			Yes						
EXPLAIN			Yes (R)						
EXPORT			Yes						
EXTENDED			Yes						
EXTENT_SIZE			Yes						
FACTOR	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
FAILED_ATTEMPTS	8.0.19			Yes	Yes	Yes	Yes	Yes	Yes
FALSE			Yes (R)						
FAST			Yes						
FAULTS			Yes						
FETCH			Yes (R)						
FIELDS			Yes						
FILE			Yes						
FILE_BLOCK_SIZE	5.7.6			Yes	Yes	Yes	Yes	Yes	Yes
FILTER	5.7.3			Yes	Yes	Yes	Yes	Yes	Yes
FINISH	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
FIRST			Yes						
FIRST_VALUE	8.0.2			Yes (R)					
FIXED			Yes						
FLOAT			Yes (R)						
FLOAT4			Yes (R)						
FLOAT8			Yes (R)						
FLUSH			Yes						
FOLLOWING	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
FOLLOWS	5.7.2			Yes	Yes	Yes	Yes	Yes	Yes
FOR			Yes (R)						
FORCE			Yes (R)						
FOREIGN			Yes (R)						
FORMAT			Yes						
FOUND			Yes						
FROM			Yes (R)						
FULL			Yes						
FULLTEXT			Yes (R)						
FUNCTION			Yes	Yes (R)					
GENERAL			Yes						
GENERATE	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
GENERATE	5.7.6			Yes (R)					
GEOMCOLLECTION	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes
GEOMETRY			Yes						
GEOMETRYCOLLECTION			Yes						
GET			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
GET_FORMAT			Yes						
GET_MASTER	8.0.4	PUBLIC_KEY		Yes	Yes	Yes	Yes		
GET_SOURCE	8.0.23	PUBLIC_KEY		Yes	Yes	Yes	Yes	Yes	Yes
GLOBAL			Yes						
GRANT			Yes (R)						
GRANTS			Yes						
GROUP			Yes (R)						
GROUPING	8.0.1			Yes (R)					
GROUPS	8.0.2			Yes (R)					
GROUP_REPLICATION	5.7.6	CATION	Yes						
GTIDS						Yes	Yes	Yes	Yes
GTID_ORDER	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
HANDLER			Yes						
HASH			Yes						
HAVING			Yes (R)						
HELP			Yes						
HIGH_PRIORITY			Yes (R)						
HISTOGRAM	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
HISTORY	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
HOST			Yes						
HOSTS			Yes						
HOUR			Yes						
HOUR_MICROSECOND			Yes (R)						
HOUR_MINUTE			Yes (R)						
HOUR_SECOND			Yes (R)						
IDENTIFIED			Yes						
IF			Yes (R)						
IGNORE			Yes (R)						
IGNORE_SERVER_IDS			Yes						
IMPORT			Yes						
IN			Yes (R)						
INACTIVE	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
INDEX			Yes (R)						
INDEXES			Yes						
INFILE			Yes (R)						
INITIAL	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
INITIAL_SIZE			Yes						
INITIATE	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
INNER			Yes (R)						
INOUT			Yes (R)						
INSENSITIVE			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
INSERT			Yes (R)						
INSERT_METHOD			Yes						
INSTALL			Yes						
INSTANCE	5.7.11		Yes						
INT			Yes (R)						
INT1			Yes (R)						
INT2			Yes (R)						
INT3			Yes (R)						
INT4			Yes (R)						
INT8			Yes (R)						
INTEGER			Yes (R)						
INTERSECT	8.0.31			Yes (R)					
INTERVAL			Yes (R)						
INTO			Yes (R)						
INVISIBLE				Yes	Yes	Yes	Yes	Yes	Yes
INVOKER			Yes						
IO			Yes						
IO_AFTER_GTIDS			Yes (R)						
IO_BEFORE_GTIDS			Yes (R)						
IO_THREAD			Yes						
IPC			Yes						
IS			Yes (R)						
ISOLATION			Yes						
ISSUER			Yes						
ITERATE			Yes (R)						
JOIN			Yes (R)						
JSON	5.7.8		Yes						
JSON_TABLE	8.0.4			Yes (R)					
JSON_VALUE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
KEY			Yes (R)						
KEYRING	8.0.24			Yes	Yes	Yes	Yes	Yes	Yes
KEYS			Yes (R)						
KEY_BLOCK_SIZE			Yes						
KILL			Yes (R)						
LAG	8.0.2			Yes (R)					
LANGUAGE			Yes						
LAST			Yes						
LAST_VALUE	8.0.2			Yes (R)					
LATERAL	8.0.14			Yes (R)					
LEAD	8.0.2			Yes (R)					
LEADING			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
LEAVE			Yes (R)						
LEAVES			Yes						
LEFT			Yes (R)						
LESS			Yes						
LEVEL			Yes						
LIKE			Yes (R)						
LIMIT			Yes (R)						
LINEAR			Yes (R)						
LINES			Yes (R)						
LINESTRING			Yes						
LIST			Yes						
LOAD			Yes (R)						
LOCAL			Yes						
LOCALTIME			Yes (R)						
LOCALTIMESTAMP			Yes (R)						
LOCK			Yes (R)						
LOCKED	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
LOCKS			Yes						
LOG						Yes	Yes	Yes	Yes
LOGFILE			Yes						
LOGS			Yes						
LONG			Yes (R)						
LONGBLOB			Yes (R)						
LONGTEXT			Yes (R)						
LOOP			Yes (R)						
LOW_PRIORITY			Yes (R)						
MANUAL								Yes (R)	Yes (R)
MASTER			Yes						
MASTER_AUTO_POSITION			Yes	Yes	Yes	Yes	Yes		
MASTER_BIND			Yes (R)						
MASTER_C 8.0.18 SESSION_ALGORITHMS			Yes	Yes	Yes	Yes	Yes		
MASTER_CONNECT_RETRY			Yes	Yes	Yes	Yes	Yes		
MASTER_DELAY			Yes	Yes	Yes	Yes	Yes		
MASTER_HEARTBEAT_PERIOD			Yes	Yes	Yes	Yes	Yes		
MASTER_HOST			Yes	Yes	Yes	Yes	Yes		
MASTER_LOG_FILE			Yes	Yes	Yes	Yes	Yes		
MASTER_LOG_POS			Yes	Yes	Yes	Yes	Yes		
MASTER_PASSWORD			Yes	Yes	Yes	Yes	Yes		
MASTER_PORT			Yes	Yes	Yes	Yes	Yes		
MASTER_P 8.0.4 IC_KEY_PATH				Yes	Yes	Yes	Yes		
MASTER_RETRY_COUNT			Yes	Yes	Yes	Yes	Yes		

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
MASTER_SERVER_ID	8.0.23		Yes	Yes					
MASTER_SSL			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CA			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CAPATH			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CERT			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CIPHER			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CRL			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_CRLPATH			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_KEY			Yes	Yes	Yes	Yes	Yes		
MASTER_SSL_VERIFY_SERVER_CERT			Yes (R)						
MASTER_THREADS	8.0.19			Yes	Yes	Yes	Yes		
MASTER_TRANSACTION_NESTLEVEL	5.7.10		Yes	Yes	Yes	Yes	Yes		
MASTER_USER			Yes	Yes	Yes	Yes	Yes		
MASTER_WAITCOMPRESSION_LEVEL	8.0.18		Yes	Yes	Yes	Yes	Yes		
MATCH			Yes (R)						
MAXVALUE			Yes (R)						
MAX_CONNECTIONS_PER_HOUR			Yes						
MAX_QUERIES_PER_HOUR			Yes						
MAX_ROWS			Yes						
MAX_SIZE			Yes						
MAX_STATEMENT_TIMEOUT	5.7.4	5.7.8	Yes						
MAX_UPDATES_PER_HOUR			Yes						
MAX_USER_CONNECTIONS			Yes						
MEDIUM			Yes						
MEDIUMBLOB			Yes (R)						
MEDIUMINT			Yes (R)						
MEDIUMTEXT			Yes (R)						
MEMBER	8.0.17			Yes	Yes	Yes	Yes	Yes	Yes
MEMORY			Yes						
MERGE			Yes						
MESSAGE_TEXT			Yes						
MICROSECOND			Yes						
MIDDLEINT			Yes (R)						
MIGRATE			Yes						
MINUTE			Yes						
MINUTE_MICROSECOND			Yes (R)						
MINUTE_SECOND			Yes (R)						
MIN_ROWS			Yes						
MOD			Yes (R)						
MODE			Yes						
MODIFIES			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
MODIFY			Yes						
MONTH			Yes						
MULTILINESTRING			Yes						
MULTIPOINT			Yes						
MULTIPOLYGON			Yes						
MUTEX			Yes						
MYSQL_ERRNO			Yes						
NAME			Yes						
NAMES			Yes						
NATIONAL			Yes						
NATURAL			Yes (R)						
NCHAR			Yes						
NDB			Yes						
NDBCLUSTER			Yes						
NESTED	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
NETWORK	8.0.16	SPACE		Yes	Yes	Yes	Yes	Yes	Yes
NEVER	5.7.4		Yes						
NEW			Yes						
NEXT			Yes						
NO			Yes						
NODEGROUP			Yes						
NONBLOCKING	5.7.6		Yes (R)						
NONE			Yes						
NOT			Yes (R)						
NOWAIT	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
NO_WAIT			Yes						
NO_WRITE_TO_BINLOG			Yes (R)						
NTH_VALUE	8.0.2			Yes (R)					
NTILE	8.0.2			Yes (R)					
NULL			Yes (R)						
NULLS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
NUMBER			Yes						
NUMERIC			Yes (R)						
NVARCHAR			Yes						
OF	8.0.1			Yes (R)					
OFF	8.0.20			Yes	Yes	Yes	Yes	Yes	Yes
OFFSET			Yes						
OJ	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
OLD	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
OLD_PASSWORD	5.7.5		Yes						
ON			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
ONE			Yes						
ONLY			Yes						
OPEN			Yes						
OPTIMIZE			Yes (R)						
OPTIMIZE ^{5.7.5}		5.5	Yes (R)						
OPTION			Yes (R)						
OPTIONAL	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
OPTIONALLY			Yes (R)						
OPTIONS			Yes						
OR			Yes (R)						
ORDER			Yes (R)						
ORDINAL	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
ORGANIZATION	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
OTHERS	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
OUT			Yes (R)						
OUTER			Yes (R)						
OUTFILE			Yes (R)						
OVER	8.0.2			Yes (R)					
OWNER			Yes						
PACK_KEYS			Yes						
PAGE			Yes						
PARALLEL					Yes (R)				
PARSER			Yes						
PARSE_GOTO ^{5.7.6}	5.7.6	EXPR	Yes						
PARSE_TREE					Yes	Yes	Yes	Yes	Yes
PARTIAL			Yes						
PARTITION			Yes (R)						
PARTITIONING			Yes						
PARTITIONS			Yes						
PASSWORD			Yes						
PASSWORD ^{8.0.19}	8.0.19	TIME		Yes	Yes	Yes	Yes	Yes	Yes
PATH	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
PERCENT ^{8.0.2}	8.0.2			Yes (R)					
PERSIST				Yes	Yes	Yes	Yes	Yes	Yes
PERSIST ^{8.0.2}	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
PHASE			Yes						
PLUGIN			Yes						
PLUGINS			Yes						
PLUGIN_DIR			Yes						
POINT			Yes						
POLYGON			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
PORT			Yes						
PRECEDES	5.7.2		Yes						
PRECEDIN	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
PRECISION			Yes (R)						
PREPARE			Yes						
PRESERVE			Yes						
PREV			Yes						
PRIMARY			Yes (R)						
PRIVILEGES			Yes						
PRIVILEGE	8.0.18	CHECKS_USER		Yes	Yes	Yes	Yes	Yes	Yes
PROCEDURE			Yes (R)						
PROCESS	8.0.11			Yes	Yes	Yes	Yes	Yes	Yes
PROCESSLIST			Yes						
PROFILE			Yes						
PROFILES			Yes						
PROXY			Yes						
PURGE			Yes (R)						
QUALIFY							Yes (R)	Yes (R)	Yes (R)
QUARTER			Yes						
QUERY			Yes						
QUICK			Yes						
RANDOM	8.0.18			Yes	Yes	Yes	Yes	Yes	Yes
RANGE			Yes (R)						
RANK	8.0.2			Yes (R)					
READ			Yes (R)						
READS			Yes (R)						
READ_ONLY			Yes						
READ_WRITE			Yes (R)						
REAL			Yes (R)						
REBUILD			Yes						
RECOVER			Yes						
RECURSIV	8.0.1			Yes (R)					
REDOFILE		8.0.3	Yes	Yes					
REDO_BUFFER_SIZE			Yes						
REDUNDANT			Yes						
REFERENCE	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
REFERENCES			Yes (R)						
REGEXP			Yes (R)						
REGISTRATION	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
RELAY			Yes						
RELAYLOG			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
RELAY_LOG_FILE			Yes						
RELAY_LOG_POS			Yes						
RELAY_THREAD			Yes						
RELEASE			Yes (R)						
RELOAD			Yes						
REMOTE	8.0.3	8.0.14		Yes					
REMOVE			Yes						
RENAME			Yes (R)						
REORGANIZE			Yes						
REPAIR			Yes						
REPEAT			Yes (R)						
REPEATABLE			Yes						
REPLACE			Yes (R)						
REPLICA	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes
REPLICAS	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes
REPLICATE ^{5.7.13} _DB			Yes						
REPLICATE ^{5.7.13} _TABLE			Yes						
REPLICATE ^{5.7.13} _IGNORE_DB			Yes						
REPLICATE ^{5.7.13} _IGNORE_TABLE			Yes						
REPLICATE ^{5.7.13} _REWRITE_DB			Yes						
REPLICATE ^{5.7.13} _WILD_DO_TABLE			Yes						
REPLICATE ^{5.7.13} _WILD_IGNORE_TABLE			Yes						
REPLICATION			Yes						
REQUIRE			Yes (R)						
REQUIRE ^{8.0.19} _FORMAT				Yes	Yes	Yes	Yes	Yes	Yes
RESET			Yes						
RESIGNAL			Yes (R)						
RESOURCE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
RESPECT	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
RESTART	8.0.4			Yes	Yes	Yes	Yes	Yes	Yes
RESTORE			Yes						
RESTRICT			Yes (R)						
RESUME			Yes						
RETAIN	8.0.14			Yes	Yes	Yes	Yes	Yes	Yes
RETURN			Yes (R)						
RETURNED_SQLSTATE			Yes						
RETURNING ^{8.0.21}				Yes	Yes	Yes	Yes	Yes	Yes
RETURNS			Yes						
REUSE	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
REVERSE			Yes						
REVOKE			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
RIGHT			Yes (R)						
RLIKE			Yes (R)						
ROLE			Yes						
ROLLBACK			Yes						
ROLLUP			Yes						
ROTATE	5.7.11		Yes						
ROUTINE			Yes						
ROW			Yes	Yes (R)					
ROWS			Yes	Yes (R)					
ROW_COUNT			Yes						
ROW_FORMAT			Yes						
ROW_NUMBER	8.0.2			Yes (R)					
RTREE			Yes						
S3					Yes	Yes	Yes	Yes	Yes
SAVEPOINT			Yes						
SCHEDULE			Yes						
SCHEMA			Yes (R)						
SCHEMAS			Yes (R)						
SCHEMA_NAME			Yes						
SECOND			Yes						
SECONDARY	8.0.16			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_ENGINE	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_ENGINE_ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY_LOAD	8.0.13			Yes	Yes	Yes	Yes	Yes	Yes
SECOND_MICROSECOND			Yes (R)						
SECURITY			Yes						
SELECT			Yes (R)						
SENSITIVE			Yes (R)						
SEPARATOR			Yes (R)						
SERIAL			Yes						
SERIALIZABLE			Yes						
SERVER			Yes						
SESSION			Yes						
SET			Yes (R)						
SHARE			Yes						
SHOW			Yes (R)						
SHUTDOWN			Yes						
SIGNAL			Yes (R)						
SIGNED			Yes						
SIMPLE			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
SKIP	8.0.1			Yes	Yes	Yes	Yes	Yes	Yes
SLAVE			Yes						
SLOW			Yes						
SMALLINT			Yes (R)						
SNAPSHOT			Yes						
SOCKET			Yes						
SOME			Yes						
SONAME			Yes						
SOUNDS			Yes						
SOURCE			Yes						
SOURCE_8.0.23_POSITION				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23_SESSION_ALGORITHMS			Yes						
SOURCE_8.0.23_SELECT_RETRY				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23_BEAT_PERIOD				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23FILE				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23OS				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23WORD				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23C_KEY_PATH				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23_COUNT				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23A				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23PATH				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23ERT				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23IPHER				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23RL				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23RLPATH				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23KEY				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23VERIFY_SERVER_CERT				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23IPHERSUITES				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23ERSION				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23				Yes	Yes	Yes	Yes	Yes	Yes
SOURCE_8.0.23COMPRESSION_LEVEL				Yes	Yes	Yes	Yes	Yes	Yes
SPATIAL			Yes (R)						
SPECIFIC			Yes (R)						
SQL			Yes (R)						
SQLEXCEPTION			Yes (R)						
SQLSTATE			Yes (R)						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
SQLWARNING			Yes (R)						
SQL_AFTER_GTIDS			Yes						
SQL_AFTER_MTS_GAPS			Yes						
SQL_BEFORE_GTIDS			Yes						
SQL_BIG_RESULT			Yes (R)						
SQL_BUFFER_RESULT			Yes						
SQL_CACHE	8.0.3		Yes	Yes					
SQL_CALC_FOUND_ROWS			Yes (R)						
SQL_NO_CACHE			Yes						
SQL_SMALL_RESULT			Yes (R)						
SQL_THREAD			Yes						
SQL_TSI_DAY			Yes						
SQL_TSI_HOUR			Yes						
SQL_TSI_MINUTE			Yes						
SQL_TSI_MONTH			Yes						
SQL_TSI_QUARTER			Yes						
SQL_TSI_SECOND			Yes						
SQL_TSI_WEEK			Yes						
SQL_TSI_YEAR			Yes						
SRID	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
SSL			Yes (R)						
STACKED			Yes						
START			Yes						
STARTING			Yes (R)						
STARTS			Yes						
STATS_AUTO_RECALC			Yes						
STATS_PERSISTENT			Yes						
STATS_SAMPLE_PAGES			Yes						
STATUS			Yes						
STOP			Yes						
STORAGE			Yes						
STORED	5.7.6		Yes (R)						
STRAIGHT_JOIN			Yes (R)						
STREAM	8.0.20			Yes	Yes	Yes	Yes	Yes	Yes
STRING			Yes						
SUBCLASS_ORIGIN			Yes						
SUBJECT			Yes						
SUBPARTITION			Yes						
SUBPARTITIONS			Yes						
SUPER			Yes						
SUSPEND			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
SWAPS			Yes						
SWITCHES			Yes						
SYSTEM	8.0.3			Yes (R)					
TABLE			Yes (R)						
TABLES			Yes						
TABLESAMPLE								Yes (R)	Yes (R)
TABLESPACE			Yes						
TABLE_CHECKSUM			Yes						
TABLE_NAME			Yes						
TEMPORARY			Yes						
TEMPTABLE			Yes						
TERMINATED			Yes (R)						
TEXT			Yes						
THAN			Yes						
THEN			Yes (R)						
THREAD_PRIORITY	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
TIES	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
TIME			Yes						
TIMESTAMP			Yes						
TIMESTAMPADD			Yes						
TIMESTAMPDIFF			Yes						
TINYBLOB			Yes (R)						
TINYINT			Yes (R)						
TINYTEXT			Yes (R)						
TLS	8.0.21			Yes	Yes	Yes	Yes	Yes	Yes
TO			Yes (R)						
TRAILING			Yes (R)						
TRANSACTION			Yes						
TRIGGER			Yes (R)						
TRIGGERS			Yes						
TRUE			Yes (R)						
TRUNCATE			Yes						
TYPE			Yes						
TYPES			Yes						
UNBOUNDED	8.0.2			Yes	Yes	Yes	Yes	Yes	Yes
UNCOMMITTED			Yes						
UNDEFINED			Yes						
UNDO			Yes (R)						
UNDOFILE			Yes						
UNDO_BUFFER_SIZE			Yes						
UNICODE			Yes						

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
UNINSTALL			Yes						
UNION			Yes (R)						
UNIQUE			Yes (R)						
UNKNOWN			Yes						
UNLOCK			Yes (R)						
UNREGISTER	8.0.27			Yes	Yes	Yes	Yes	Yes	Yes
UNSIGNED			Yes (R)						
UNTIL			Yes						
UPDATE			Yes (R)						
UPGRADE			Yes						
URL	8.0.32			Yes	Yes	Yes	Yes	Yes	Yes
USAGE			Yes (R)						
USE			Yes (R)						
USER			Yes						
USER_RESOURCES			Yes						
USE_FRM			Yes						
USING			Yes (R)						
UTC_DATE			Yes (R)						
UTC_TIME			Yes (R)						
UTC_TIMESTAMP			Yes (R)						
VALIDATE	5.7.5		Yes						
VALUE			Yes						
VALUES			Yes (R)						
VARBINARY			Yes (R)						
VARCHAR			Yes (R)						
VARCHARACTER			Yes (R)						
VARIABLES			Yes						
VARYING			Yes (R)						
VCPU	8.0.3			Yes	Yes	Yes	Yes	Yes	Yes
VECTOR									Yes
VIEW			Yes						
VIRTUAL	5.7.6		Yes (R)						
VISIBLE				Yes	Yes	Yes	Yes	Yes	Yes
WAIT			Yes						
WARNINGS			Yes						
WEEK			Yes						
WEIGHT_STRING			Yes						
WHEN			Yes (R)						
WHERE			Yes (R)						
WHILE			Yes (R)						
WINDOW	8.0.2			Yes (R)					

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0
WITH			Yes (R)						
WITHOUT	5.7.5		Yes						
WORK			Yes						
WRAPPER			Yes						
WRITE			Yes (R)						
X509			Yes						
XA			Yes						
XID	5.7.5		Yes						
XML			Yes						
XOR			Yes (R)						
YEAR			Yes						
YEAR_MONTH			Yes (R)						
ZEROFILL			Yes (R)						
ZONE	8.0.22			Yes	Yes	Yes	Yes	Yes	Yes

7.1 Keywords and Reserved Words in MySQL 5.7

This section provides information about keywords and reserved words in MySQL 5.7.

- [MySQL 5.7 Keywords and Reserved Words](#)
- [MySQL 5.7 New Keywords and Reserved Words](#)
- [MySQL 5.7 Removed Keywords and Reserved Words](#)

MySQL 5.7 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 5.7, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#); added in 5.7.6 (nonreserved)
- [ACTION](#)
- [ADD](#) (R)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#); added in 5.7.6 (nonreserved)

- `ANALYSE`
 - `ANALYZE (R)`
 - `AND (R)`
 - `ANY`
 - `AS (R)`
 - `ASC (R)`
 - `ASCII`
 - `ASENSITIVE (R)`
 - `AT`
 - `AUTOEXTEND_SIZE`
 - `AUTO_INCREMENT`
 - `AVG`
 - `AVG_ROW_LENGTH`
- B
- `BACKUP`
 - `BEFORE (R)`
 - `BEGIN`
 - `BETWEEN (R)`
 - `BIGINT (R)`
 - `BINARY (R)`
 - `BINLOG`
 - `BIT`
 - `BLOB (R)`
 - `BLOCK`
 - `BOOL`
 - `BOOLEAN`
 - `BOTH (R)`
 - `BTREE`
 - `BY (R)`
 - `BYTE`
- C
- `CACHE`
 - `CALL (R)`

- [CASCADE](#) (R)
- [CASCADED](#)
- [CASE](#) (R)
- [CATALOG_NAME](#)
- [CHAIN](#)
- [CHANGE](#) (R)
- [CHANGED](#)
- [CHANNEL](#); added in 5.7.6 (nonreserved)
- [CHAR](#) (R)
- [CHARACTER](#) (R)
- [CHARSET](#)
- [CHECK](#) (R)
- [CHECKSUM](#)
- [CIPHER](#)
- [CLASS_ORIGIN](#)
- [CLIENT](#)
- [CLOSE](#)
- [COALESCE](#)
- [CODE](#)
- [COLLATE](#) (R)
- [COLLATION](#)
- [COLUMN](#) (R)
- [COLUMNS](#)
- [COLUMN_FORMAT](#)
- [COLUMN_NAME](#)
- [COMMENT](#)
- [COMMIT](#)
- [COMMITTED](#)
- [COMPACT](#)
- [COMPLETION](#)
- [COMPRESSED](#)
- [COMPRESSION](#); added in 5.7.8 (nonreserved)
- [CONCURRENT](#)

- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE`
- `CURRENT`
- `CURRENT_DATE` (R)
- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)
- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)
- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)

- `DAY_SECOND` (R)

- `DEALLOCATE`

- `DEC` (R)

- `DECIMAL` (R)

- `DECLARE` (R)

- `DEFAULT` (R)

- `DEFAULT_AUTH`

- `DEFINER`

- `DELAYED` (R)

- `DELAY_KEY_WRITE`

- `DELETE` (R)

- `DESC` (R)

- `DESCRIBE` (R)

- `DES_KEY_FILE`

- `DETERMINISTIC` (R)

- `DIAGNOSTICS`

- `DIRECTORY`

- `DISABLE`

- `DISCARD`

- `DISK`

- `DISTINCT` (R)

- `DISTINCTROW` (R)

- `DIV` (R)

- `DO`

- `DOUBLE` (R)

- `DROP` (R)

- `DUAL` (R)

- `DUMPFILE`

- `DUPLICATE`

- `DYNAMIC`

E

- `EACH` (R)

- `ELSE` (R)

- `ELSEIF` (R)
- `ENABLE`
- `ENCLOSED` (R)
- `ENCRYPTION`; added in 5.7.11 (nonreserved)
- `END`
- `ENDS`
- `ENGINE`
- `ENGINES`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED` (R)
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCHANGE`
- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN` (R)
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

F

- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`
- `FILE`

- `FILE_BLOCK_SIZE`; added in 5.7.6 (nonreserved)
- `FILTER`; added in 5.7.3 (nonreserved)
- `FIRST`
- `FIXED`
- `FLOAT (R)`
- `FLOAT4 (R)`
- `FLOAT8 (R)`
- `FLUSH`
- `FOLLOWS`; added in 5.7.2 (nonreserved)
- `FOR (R)`
- `FORCE (R)`
- `FOREIGN (R)`
- `FORMAT`
- `FOUND`
- `FROM (R)`
- `FULL`
- `FULLTEXT (R)`
- `FUNCTION`

G

- `GENERAL`
- `GENERATED (R)`; added in 5.7.6 (reserved)
- `GEOMETRY`
- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`
- `GROUP_REPLICATION`; added in 5.7.6 (nonreserved)

H

- `HANDLER`
- `HASH`

- `HAVING` (R)
- `HELP`
- `HIGH_PRIORITY` (R)
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND` (R)
- `HOUR_MINUTE` (R)
- `HOUR_SECOND` (R)
- |
- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL_SIZE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`; added in 5.7.11 (nonreserved)
- `INT` (R)
- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)
- `INT8` (R)

- `INTEGER` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

J

- `JOIN` (R)
- `JSON`; added in 5.7.8 (nonreserved)

K

- `KEY` (R)
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

L

- `LANGUAGE`
- `LAST`
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)

- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKS`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND` (R)
- `MASTER_CONNECT_RETRY`
- `MASTER_DELAY`
- `MASTER_HEARTBEAT_PERIOD`
- `MASTER_HOST`
- `MASTER_LOG_FILE`
- `MASTER_LOG_POS`
- `MASTER_PASSWORD`
- `MASTER_PORT`
- `MASTER_RETRY_COUNT`
- `MASTER_SERVER_ID`
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`

- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_VERSION`; added in 5.7.10 (nonreserved)
- `MASTER_USER`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_STATEMENT_TIME`; added in 5.7.4 (nonreserved); removed in 5.7.8
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)
- `MIN_ROWS`
- `MOD` (R)
- `MODE`

- `MODIFIES` (R)
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`
- `MULTIPOINT`
- `MULTIPOLYGON`
- `MUTEX`
- `MYSQL_ERRNO`

N

- `NAME`
 - `NAMES`
 - `NATIONAL`
 - `NATURAL` (R)
 - `NCHAR`
 - `NDB`
 - `NDBCLUSTER`
 - `NEVER`; added in 5.7.4 (nonreserved)
 - `NEW`
 - `NEXT`
 - `NO`
 - `NODEGROUP`
 - `NONBLOCKING`; removed in 5.7.6
 - `NONE`
 - `NOT` (R)
 - `NO_WAIT`
 - `NO_WRITE_TO_BINLOG` (R)
 - `NULL` (R)
 - `NUMBER`
 - `NUMERIC` (R)
 - `NVARCHAR`
- ## O
- `OFFSET`
 - `OLD_PASSWORD`; removed in 5.7.5

- [ON](#) (R)
- [ONE](#)
- [ONLY](#)
- [OPEN](#)
- [OPTIMIZE](#) (R)
- [OPTIMIZER_COSTS](#) (R); added in 5.7.5 (reserved)
- [OPTION](#) (R)
- [OPTIONALLY](#) (R)
- [OPTIONS](#)
- [OR](#) (R)
- [ORDER](#) (R)
- [OUT](#) (R)
- [OUTER](#) (R)
- [OUTFILE](#) (R)
- [OWNER](#)

P

- [PACK_KEYS](#)
- [PAGE](#)
- [PARSER](#)
- [PARSE_GCOL_EXPR](#); added in 5.7.6 (reserved); became nonreserved in 5.7.8
- [PARTIAL](#)
- [PARTITION](#) (R)
- [PARTITIONING](#)
- [PARTITIONS](#)
- [PASSWORD](#)
- [PHASE](#)
- [PLUGIN](#)
- [PLUGINS](#)
- [PLUGIN_DIR](#)
- [POINT](#)
- [POLYGON](#)
- [PORT](#)
- [PRECEDES](#); added in 5.7.2 (nonreserved)

- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PROCEDURE (R)
- PROCESSLIST
- PROFILE
- PROFILES
- PROXY
- PURGE (R)

Q

- QUARTER
- QUERY
- QUICK

R

- RANGE (R)
- READ (R)
- READS (R)
- READ_ONLY
- READ_WRITE (R)
- REAL (R)
- REBUILD
- RECOVER
- REDOFILE
- REDO_BUFFER_SIZE
- REDUNDANT
- REFERENCES (R)
- REGEXP (R)
- RELAY
- RELAYLOG
- RELAY_LOG_FILE

- `RELAY_LOG_POS`
- `RELAY_THREAD`
- `RELEASE` (R)
- `RELOAD`
- `REMOVE`
- `RENAME` (R)
- `REORGANIZE`
- `REPAIR`
- `REPEAT` (R)
- `REPEATABLE`
- `REPLACE` (R)
- `REPLICATE_DO_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_DO_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_IGNORE_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_IGNORE_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_REWRITE_DB`; added in 5.7.3 (nonreserved)
- `REPLICATE_WILD_DO_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATE_WILD_IGNORE_TABLE`; added in 5.7.3 (nonreserved)
- `REPLICATION`
- `REQUIRE` (R)
- `RESET`
- `RESIGNAL` (R)
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNS`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLLBACK`

- `ROLLUP`
- `ROTATE`; added in 5.7.11 (nonreserved)
- `ROUTINE`
- `ROW`
- `ROWS`
- `ROW_COUNT`
- `ROW_FORMAT`
- `RTREE`

S

- `SAVEPOINT`
- `SCHEDULE`
- `SCHEMA` (R)
- `SCHEMAS` (R)
- `SCHEMA_NAME`
- `SECOND`
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SLAVE`
- `SLOW`

- **SMALLINT** (R)
- **SNAPSHOT**
- **SOCKET**
- **SOME**
- **SONAME**
- **SOUNDS**
- **SOURCE**
- **SPATIAL** (R)
- **SPECIFIC** (R)
- **SQL** (R)
- **SQLEXCEPTION** (R)
- **SQLSTATE** (R)
- **SQLWARNING** (R)
- **SQL_AFTER_GTIDS**
- **SQL_AFTER_MTS_GAPS**
- **SQL_BEFORE_GTIDS**
- **SQL_BIG_RESULT** (R)
- **SQL_BUFFER_RESULT**
- **SQL_CACHE**
- **SQL_CALC_FOUND_ROWS** (R)
- **SQL_NO_CACHE**
- **SQL_SMALL_RESULT** (R)
- **SQL_THREAD**
- **SQL_TSI_DAY**
- **SQL_TSI_HOUR**
- **SQL_TSI_MINUTE**
- **SQL_TSI_MONTH**
- **SQL_TSI_QUARTER**
- **SQL_TSI_SECOND**
- **SQL_TSI_WEEK**
- **SQL_TSI_YEAR**
- **SSL** (R)
- **STACKED**

- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED` (R); added in 5.7.6 (reserved)
- `STRAIGHT_JOIN` (R)
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`

T

- `TABLE` (R)
- `TABLES`
- `TABLESPACE`
- `TABLE_CHECKSUM`
- `TABLE_NAME`
- `TEMPORARY`
- `TEMPTABLE`
- `TERMINATED` (R)
- `TEXT`
- `THAN`
- `THEN` (R)
- `TIME`

- **TIMESTAMP**
- **TIMESTAMPADD**
- **TIMESTAMPDIFF**
- **TINYBLOB** (R)
- **TINYINT** (R)
- **TINYTEXT** (R)
- **TO** (R)
- **TRAILING** (R)
- **TRANSACTION**
- **TRIGGER** (R)
- **TRIGGERS**
- **TRUE** (R)
- **TRUNCATE**
- **TYPE**
- **TYPES**

U

- **UNCOMMITTED**
- **UNDEFINED**
- **UNDO** (R)
- **UNDOFILE**
- **UNDO_BUFFER_SIZE**
- **UNICODE**
- **UNINSTALL**
- **UNION** (R)
- **UNIQUE** (R)
- **UNKNOWN**
- **UNLOCK** (R)
- **UNSIGNED** (R)
- **UNTIL**
- **UPDATE** (R)
- **UPGRADE**
- **USAGE** (R)
- **USE** (R)

- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING` (R)
- `UTC_DATE` (R)
- `UTC_TIME` (R)
- `UTC_TIMESTAMP` (R)

V

- `VALIDATION`; added in 5.7.5 (nonreserved)
- `VALUE`
- `VALUES` (R)
- `VARBINARY` (R)
- `VARCHAR` (R)
- `VARCHARACTER` (R)
- `VARIABLES`
- `VARYING` (R)
- `VIEW`
- `VIRTUAL` (R); added in 5.7.6 (reserved)

W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WITH` (R)
- `WITHOUT`; added in 5.7.5 (nonreserved)
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`

- [XA](#)
- [XID](#); added in 5.7.5 (nonreserved)
- [XML](#)
- [XOR](#) (R)

Y

- [YEAR](#)
- [YEAR_MONTH](#) (R)

Z

- [ZEROFILL](#) (R)

MySQL 5.7 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 5.7, compared to MySQL 5.6. Reserved keywords are marked with (R).

[A](#) | [C](#) | [E](#) | [F](#) | [G](#) | [I](#) | [J](#) | [M](#) | [N](#) | [O](#) | [P](#) | [R](#) | [S](#) | [V](#) | [W](#) | [X](#)

A

- [ACCOUNT](#)
- [ALWAYS](#)

C

- [CHANNEL](#)
- [COMPRESSION](#)

E

- [ENCRYPTION](#)

F

- [FILE_BLOCK_SIZE](#)
- [FILTER](#)
- [FOLLOWS](#)

G

- [GENERATED](#) (R)
- [GROUP_REPLICATION](#)

I

- [INSTANCE](#)

J

- [JSON](#)

M

- `MASTER_TLS_VERSION`

N

- `NEVER`

O

- `OPTIMIZER_COSTS` (R)

P

- `PARSE_GCOL_EXPR`

- `PRECEDES`

R

- `REPLICATE_DO_DB`

- `REPLICATE_DO_TABLE`

- `REPLICATE_IGNORE_DB`

- `REPLICATE_IGNORE_TABLE`

- `REPLICATE_REWRITE_DB`

- `REPLICATE_WILD_DO_TABLE`

- `REPLICATE_WILD_IGNORE_TABLE`

- `ROTATE`

S

- `STACKED`

- `STORED` (R)

V

- `VALIDATION`

- `VIRTUAL` (R)

W

- `WITHOUT`

X

- `XID`

MySQL 5.7 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 5.7, compared to MySQL 5.6. Reserved keywords are marked with (R).

- `OLD_PASSWORD`

7.2 Keywords and Reserved Words in MySQL 8.0

This section provides information about keywords and reserved words in MySQL 8.0.

- [MySQL 8.0 Keywords and Reserved Words](#)
- [MySQL 8.0 New Keywords and Reserved Words](#)
- [MySQL 8.0 Removed Keywords and Reserved Words](#)

MySQL 8.0 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.0, along with changes to individual words from version to version. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#); added in 8.0.14 (nonreserved)
- [ADD](#) (R)
- [ADMIN](#); became nonreserved in 8.0.12
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)
- [ANALYSE](#); removed in 8.0.1
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [ARRAY](#); added in 8.0.17 (reserved); became nonreserved in 8.0.19
- [AS](#) (R)
- [ASC](#) (R)
- [ASCII](#)
- [ASENSITIVE](#) (R)
- [AT](#)
- [ATTRIBUTE](#); added in 8.0.21 (nonreserved)
- [AUTHENTICATION](#); added in 8.0.27 (nonreserved)

- [AUTOEXTEND_SIZE](#)
- [AUTO_INCREMENT](#)
- [AVG](#)
- [AVG_ROW_LENGTH](#)

B

- [BACKUP](#)
- [BEFORE \(R\)](#)
- [BEGIN](#)
- [BETWEEN \(R\)](#)
- [BIGINT \(R\)](#)
- [BINARY \(R\)](#)
- [BINLOG](#)
- [BIT](#)
- [BLOB \(R\)](#)
- [BLOCK](#)
- [BOOL](#)
- [BOOLEAN](#)
- [BOTH \(R\)](#)
- [BTREE](#)
- [BUCKETS](#); added in 8.0.2 (nonreserved)
- [BULK](#); added in 8.0.32 (nonreserved)
- [BY \(R\)](#)
- [BYTE](#)

C

- [CACHE](#)
- [CALL \(R\)](#)
- [CASCADE \(R\)](#)
- [CASCADED](#)
- [CASE \(R\)](#)
- [CATALOG_NAME](#)
- [CHAIN](#)
- [CHALLENGE_RESPONSE](#); added in 8.0.27 (nonreserved)
- [CHANGE \(R\)](#)

- `CHANGED`
- `CHANNEL`
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`
- `CHECK` (R)
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`; added in 8.0.3 (nonreserved)
- `CLOSE`
- `COALESCE`
- `CODE`
- `COLLATE` (R)
- `COLLATION`
- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)

- `CONSTRAINT_CATALOG`
 - `CONSTRAINT_NAME`
 - `CONSTRAINT_SCHEMA`
 - `CONTAINS`
 - `CONTEXT`
 - `CONTINUE` (R)
 - `CONVERT` (R)
 - `CPU`
 - `CREATE` (R)
 - `CROSS` (R)
 - `CUBE` (R); became reserved in 8.0.1
 - `CUME_DIST` (R); added in 8.0.2 (reserved)
 - `CURRENT`
 - `CURRENT_DATE` (R)
 - `CURRENT_TIME` (R)
 - `CURRENT_TIMESTAMP` (R)
 - `CURRENT_USER` (R)
 - `CURSOR` (R)
 - `CURSOR_NAME`
- D
- `DATA`
 - `DATABASE` (R)
 - `DATABASES` (R)
 - `DATAFILE`
 - `DATE`
 - `DATETIME`
 - `DAY`
 - `DAY_HOUR` (R)
 - `DAY_MICROSECOND` (R)
 - `DAY_MINUTE` (R)
 - `DAY_SECOND` (R)
 - `DEALLOCATE`
 - `DEC` (R)

- **DECIMAL** (R)
 - **DECLARE** (R)
 - **DEFAULT** (R)
 - **DEFAULT_AUTH**
 - **DEFINER**
 - **DEFINITION**; added in 8.0.4 (nonreserved)
 - **DELAYED** (R)
 - **DELAY_KEY_WRITE**
 - **DELETE** (R)
 - **DENSE_RANK** (R); added in 8.0.2 (reserved)
 - **DESC** (R)
 - **DESCRIBE** (R)
 - **DESCRIPTION**; added in 8.0.4 (nonreserved)
 - **DES_KEY_FILE**; removed in 8.0.3
 - **DETERMINISTIC** (R)
 - **DIAGNOSTICS**
 - **DIRECTORY**
 - **DISABLE**
 - **DISCARD**
 - **DISK**
 - **DISTINCT** (R)
 - **DISTINCTROW** (R)
 - **DIV** (R)
 - **DO**
 - **DOUBLE** (R)
 - **DROP** (R)
 - **DUAL** (R)
 - **DUMPFILE**
 - **DUPLICATE**
 - **DYNAMIC**
- E
- **EACH** (R)
 - **ELSE** (R)

- `ELSEIF` (R)
 - `EMPTY` (R); added in 8.0.4 (reserved)
 - `ENABLE`
 - `ENCLOSED` (R)
 - `ENCRYPTION`
 - `END`
 - `ENDS`
 - `ENFORCED`; added in 8.0.16 (nonreserved)
 - `ENGINE`
 - `ENGINES`
 - `ENGINE_ATTRIBUTE`; added in 8.0.21 (nonreserved)
 - `ENUM`
 - `ERROR`
 - `ERRORS`
 - `ESCAPE`
 - `ESCAPED` (R)
 - `EVENT`
 - `EVENTS`
 - `EVERY`
 - `EXCEPT` (R)
 - `EXCHANGE`
 - `EXCLUDE`; added in 8.0.2 (nonreserved)
 - `EXECUTE`
 - `EXISTS` (R)
 - `EXIT` (R)
 - `EXPANSION`
 - `EXPIRE`
 - `EXPLAIN` (R)
 - `EXPORT`
 - `EXTENDED`
 - `EXTENT_SIZE`
- F
- `FACTOR`; added in 8.0.27 (nonreserved)

- **FAILED_LOGIN_ATTEMPTS**; added in 8.0.19 (nonreserved)
- **FALSE** (R)
- **FAST**
- **FAULTS**
- **FETCH** (R)
- **FIELDS**
- **FILE**
- **FILE_BLOCK_SIZE**
- **FILTER**
- **FINISH**; added in 8.0.27 (nonreserved)
- **FIRST**
- **FIRST_VALUE** (R); added in 8.0.2 (reserved)
- **FIXED**
- **FLOAT** (R)
- **FLOAT4** (R)
- **FLOAT8** (R)
- **FLUSH**
- **FOLLOWING**; added in 8.0.2 (nonreserved)
- **FOLLOWS**
- **FOR** (R)
- **FORCE** (R)
- **FOREIGN** (R)
- **FORMAT**
- **FOUND**
- **FROM** (R)
- **FULL**
- **FULLTEXT** (R)
- **FUNCTION** (R); became reserved in 8.0.1

G

- **GENERAL**
- **GENERATE**; added in 8.0.32 (nonreserved)
- **GENERATED** (R)
- **GEOMCOLLECTION**; added in 8.0.11 (nonreserved)

- `GEOMETRY`
- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GET_MASTER_PUBLIC_KEY`; added in 8.0.4 (reserved); became nonreserved in 8.0.11
- `GET_SOURCE_PUBLIC_KEY`; added in 8.0.23 (nonreserved)
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`
- `GROUPING (R)`; added in 8.0.1 (reserved)
- `GROUPS (R)`; added in 8.0.2 (reserved)
- `GROUP_REPLICATION`
- `GTID_ONLY`; added in 8.0.27 (nonreserved)

H

- `HANDLER`
- `HASH`
- `HAVING (R)`
- `HELP`
- `HIGH_PRIORITY (R)`
- `HISTOGRAM`; added in 8.0.2 (nonreserved)
- `HISTORY`; added in 8.0.3 (nonreserved)
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND (R)`
- `HOUR_MINUTE (R)`
- `HOUR_SECOND (R)`

I

- `IDENTIFIED`
- `IF (R)`
- `IGNORE (R)`
- `IGNORE_SERVER_IDS`

- `IMPORT`
- `IN` (R)
- `INACTIVE`; added in 8.0.14 (nonreserved)
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`; added in 8.0.27 (nonreserved)
- `INITIAL_SIZE`
- `INITIATE`; added in 8.0.27 (nonreserved)
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT` (R)
- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R); added in 8.0.31 (reserved)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`

- [IS](#) (R)
- [ISOLATION](#)
- [ISSUER](#)
- [ITERATE](#) (R)

J

- [JOIN](#) (R)
- [JSON](#)
- [JSON_TABLE](#) (R); added in 8.0.4 (reserved)
- [JSON_VALUE](#); added in 8.0.21 (nonreserved)

K

- [KEY](#) (R)
- [KEYRING](#); added in 8.0.24 (nonreserved)
- [KEYS](#) (R)
- [KEY_BLOCK_SIZE](#)
- [KILL](#) (R)

L

- [LAG](#) (R); added in 8.0.2 (reserved)
- [LANGUAGE](#)
- [LAST](#)
- [LAST_VALUE](#) (R); added in 8.0.2 (reserved)
- [LATERAL](#) (R); added in 8.0.14 (reserved)
- [LEAD](#) (R); added in 8.0.2 (reserved)
- [LEADING](#) (R)
- [LEAVE](#) (R)
- [LEAVES](#)
- [LEFT](#) (R)
- [LESS](#)
- [LEVEL](#)
- [LIKE](#) (R)
- [LIMIT](#) (R)
- [LINEAR](#) (R)
- [LINES](#) (R)
- [LINESTRING](#)

- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`; added in 8.0.1 (nonreserved)
- `LOCKS`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND` (R)
- `MASTER_COMPRESSION_ALGORITHMS`; added in 8.0.18 (nonreserved)
- `MASTER_CONNECT_RETRY`
- `MASTER_DELAY`
- `MASTER_HEARTBEAT_PERIOD`
- `MASTER_HOST`
- `MASTER_LOG_FILE`
- `MASTER_LOG_POS`
- `MASTER_PASSWORD`
- `MASTER_PORT`
- `MASTER_PUBLIC_KEY_PATH`; added in 8.0.4 (nonreserved)
- `MASTER_RETRY_COUNT`
- `MASTER_SERVER_ID`; removed in 8.0.23
- `MASTER_SSL`
- `MASTER_SSL_CA`

- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`; added in 8.0.19 (nonreserved)
- `MASTER_TLS_VERSION`
- `MASTER_USER`
- `MASTER_ZSTD_COMPRESSION_LEVEL`; added in 8.0.18 (nonreserved)
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`; added in 8.0.17 (reserved); became nonreserved in 8.0.19
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)

- `MIN_ROWS`
 - `MOD` (R)
 - `MODE`
 - `MODIFIES` (R)
 - `MODIFY`
 - `MONTH`
 - `MULTILINESTRING`
 - `MULTIPOINT`
 - `MULTIPOLYGON`
 - `MUTEX`
 - `MYSQL_ERRNO`
- N
- `NAME`
 - `NAMES`
 - `NATIONAL`
 - `NATURAL` (R)
 - `NCHAR`
 - `NDB`
 - `NDBCLUSTER`
 - `NESTED`; added in 8.0.4 (nonreserved)
 - `NETWORK_NAMESPACE`; added in 8.0.16 (nonreserved)
 - `NEVER`
 - `NEW`
 - `NEXT`
 - `NO`
 - `NODEGROUP`
 - `NONE`
 - `NOT` (R)
 - `NOWAIT`; added in 8.0.1 (nonreserved)
 - `NO_WAIT`
 - `NO_WRITE_TO_BINLOG` (R)
 - `NTH_VALUE` (R); added in 8.0.2 (reserved)
 - `NTILE` (R); added in 8.0.2 (reserved)

- `NULL` (R)
- `NULLS`; added in 8.0.2 (nonreserved)

• `NUMBER`

• `NUMERIC` (R)

• `NVARCHAR`

O

- `OF` (R); added in 8.0.1 (reserved)
- `OFF`; added in 8.0.20 (nonreserved)

• `OFFSET`

• `OJ`; added in 8.0.16 (nonreserved)

• `OLD`; added in 8.0.14 (nonreserved)

• `ON` (R)

• `ONE`

• `ONLY`

• `OPEN`

• `OPTIMIZE` (R)

• `OPTIMIZER_COSTS` (R)

• `OPTION` (R)

• `OPTIONAL`; added in 8.0.13 (nonreserved)

• `OPTIONALLY` (R)

• `OPTIONS`

• `OR` (R)

• `ORDER` (R)

• `ORDINALITY`; added in 8.0.4 (nonreserved)

• `ORGANIZATION`; added in 8.0.4 (nonreserved)

• `OTHERS`; added in 8.0.2 (nonreserved)

• `OUT` (R)

• `OUTER` (R)

• `OUTFILE` (R)

• `OVER` (R); added in 8.0.2 (reserved)

• `OWNER`

P

- `PACK_KEYS`

- **PAGE**
- **PARSER**
- **PARTIAL**
- **PARTITION** (R)
- **PARTITIONING**
- **PARTITIONS**
- **PASSWORD**
- **PASSWORD_LOCK_TIME**; added in 8.0.19 (nonreserved)
- **PATH**; added in 8.0.4 (nonreserved)
- **PERCENT_RANK** (R); added in 8.0.2 (reserved)
- **PERSIST**; became nonreserved in 8.0.16
- **PERSIST_ONLY**; added in 8.0.2 (reserved); became nonreserved in 8.0.16
- **PHASE**
- **PLUGIN**
- **PLUGINS**
- **PLUGIN_DIR**
- **POINT**
- **POLYGON**
- **PORT**
- **PRECEDES**
- **PRECEDING**; added in 8.0.2 (nonreserved)
- **PRECISION** (R)
- **PREPARE**
- **PRESERVE**
- **PREV**
- **PRIMARY** (R)
- **PRIVILEGES**
- **PRIVILEGE_CHECKS_USER**; added in 8.0.18 (nonreserved)
- **PROCEDURE** (R)
- **PROCESS**; added in 8.0.11 (nonreserved)
- **PROCESSLIST**
- **PROFILE**
- **PROFILES**

- [PROXY](#)
- [PURGE \(R\)](#)

Q

- [QUARTER](#)
- [QUERY](#)
- [QUICK](#)

R

- [RANDOM](#); added in 8.0.18 (nonreserved)
- [RANGE \(R\)](#)
- [RANK \(R\)](#); added in 8.0.2 (reserved)
- [READ \(R\)](#)
- [READS \(R\)](#)
- [READ_ONLY](#)
- [READ_WRITE \(R\)](#)
- [REAL \(R\)](#)
- [REBUILD](#)
- [RECOVER](#)
- [RECURSIVE \(R\)](#); added in 8.0.1 (reserved)
- [REDOFILE](#); removed in 8.0.3
- [REDO_BUFFER_SIZE](#)
- [REDUNDANT](#)
- [REFERENCE](#); added in 8.0.4 (nonreserved)
- [REFERENCES \(R\)](#)
- [REGEXP \(R\)](#)
- [REGISTRATION](#); added in 8.0.27 (nonreserved)
- [RELAY](#)
- [RELAYLOG](#)
- [RELAY_LOG_FILE](#)
- [RELAY_LOG_POS](#)
- [RELAY_THREAD](#)
- [RELEASE \(R\)](#)
- [RELOAD](#)
- [REMOTE](#); added in 8.0.3 (nonreserved); removed in 8.0.14

- [REMOVE](#)
- [RENAME \(R\)](#)
- [REORGANIZE](#)
- [REPAIR](#)
- [REPEAT \(R\)](#)
- [REPEATABLE](#)
- [REPLACE \(R\)](#)
- [REPLICA](#); added in 8.0.22 (nonreserved)
- [REPLICAS](#); added in 8.0.22 (nonreserved)
- [REPLICATE_DO_DB](#)
- [REPLICATE_DO_TABLE](#)
- [REPLICATE_IGNORE_DB](#)
- [REPLICATE_IGNORE_TABLE](#)
- [REPLICATE_REWRITE_DB](#)
- [REPLICATE_WILD_DO_TABLE](#)
- [REPLICATE_WILD_IGNORE_TABLE](#)
- [REPLICATION](#)
- [REQUIRE \(R\)](#)
- [REQUIRE_ROW_FORMAT](#); added in 8.0.19 (nonreserved)
- [RESET](#)
- [RESIGNAL \(R\)](#)
- [RESOURCE](#); added in 8.0.3 (nonreserved)
- [RESPECT](#); added in 8.0.2 (nonreserved)
- [RESTART](#); added in 8.0.4 (nonreserved)
- [RESTORE](#)
- [RESTRICT \(R\)](#)
- [RESUME](#)
- [RETAIN](#); added in 8.0.14 (nonreserved)
- [RETURN \(R\)](#)
- [RETURNED_SQLSTATE](#)
- [RETURNING](#); added in 8.0.21 (nonreserved)
- [RETURNS](#)
- [REUSE](#); added in 8.0.3 (nonreserved)

- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`; became nonreserved in 8.0.1
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`
- `ROUTINE`
- `ROW` (R); became reserved in 8.0.2
- `ROWS` (R); became reserved in 8.0.2
- `ROW_COUNT`
- `ROW_FORMAT`
- `ROW_NUMBER` (R); added in 8.0.2 (reserved)
- `RTREE`

S

- `SAVEPOINT`
- `SCHEDULE`
- `SCHEMA` (R)
- `SCHEMAS` (R)
- `SCHEMA_NAME`
- `SECOND`
- `SECONDARY`; added in 8.0.16 (nonreserved)
- `SECONDARY_ENGINE`; added in 8.0.13 (nonreserved)
- `SECONDARY_ENGINE_ATTRIBUTE`; added in 8.0.21 (nonreserved)
- `SECONDARY_LOAD`; added in 8.0.13 (nonreserved)
- `SECOND_UNLOAD`; added in 8.0.13 (nonreserved)
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`

- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`; added in 8.0.1 (nonreserved)
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`; added in 8.0.23 (nonreserved)
- `SOURCE_BIND`; added in 8.0.23 (nonreserved)
- `SOURCE_COMPRESSION_ALGORITHMS`; added in 8.0.23 (nonreserved)
- `SOURCE_CONNECT_RETRY`; added in 8.0.23 (nonreserved)
- `SOURCE_DELAY`; added in 8.0.23 (nonreserved)
- `SOURCE_HEARTBEAT_PERIOD`; added in 8.0.23 (nonreserved)
- `SOURCE_HOST`; added in 8.0.23 (nonreserved)
- `SOURCE_LOG_FILE`; added in 8.0.23 (nonreserved)
- `SOURCE_LOG_POS`; added in 8.0.23 (nonreserved)
- `SOURCE_PASSWORD`; added in 8.0.23 (nonreserved)
- `SOURCE_PORT`; added in 8.0.23 (nonreserved)
- `SOURCE_PUBLIC_KEY_PATH`; added in 8.0.23 (nonreserved)
- `SOURCE_RETRY_COUNT`; added in 8.0.23 (nonreserved)

- `SOURCE_SSL`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CA`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CAPATH`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CERT`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CIPHER`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CRL`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_CRLPATH`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_KEY`; added in 8.0.23 (nonreserved)
- `SOURCE_SSL_VERIFY_SERVER_CERT`; added in 8.0.23 (nonreserved)
- `SOURCE_TLS_CIPHERSUITES`; added in 8.0.23 (nonreserved)
- `SOURCE_TLS_VERSION`; added in 8.0.23 (nonreserved)
- `SOURCE_USER`; added in 8.0.23 (nonreserved)
- `SOURCE_ZSTD_COMPRESSION_LEVEL`; added in 8.0.23 (nonreserved)
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CACHE`; removed in 8.0.3
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`

- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`; added in 8.0.3 (nonreserved)
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED` (R)
- `STRAIGHT_JOIN` (R)
- `STREAM`; added in 8.0.20 (nonreserved)
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`
- `SYSTEM` (R); added in 8.0.3 (reserved)

T

- `TABLE` (R)
- `TABLES`
- `TABLESPACE`

- `TABLE_CHECKSUM`
- `TABLE_NAME`
- `TEMPORARY`
- `TEMPTABLE`
- `TERMINATED` (R)
- `TEXT`
- `THAN`
- `THEN` (R)
- `THREAD_PRIORITY`; added in 8.0.3 (nonreserved)
- `TIES`; added in 8.0.2 (nonreserved)
- `TIME`
- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`
- `TINYBLOB` (R)
- `TINYINT` (R)
- `TINYTEXT` (R)
- `TLS`; added in 8.0.21 (nonreserved)
- `TO` (R)
- `TRAILING` (R)
- `TRANSACTION`
- `TRIGGER` (R)
- `TRIGGERS`
- `TRUE` (R)
- `TRUNCATE`
- `TYPE`
- `TYPES`

U

- `UNBOUNDED`; added in 8.0.2 (nonreserved)
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO` (R)
- `UNDOFILE`

- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION` (R)
- `UNIQUE` (R)
- `UNKNOWN`
- `UNLOCK` (R)
- `UNREGISTER`; added in 8.0.27 (nonreserved)
- `UNSIGNED` (R)
- `UNTIL`
- `UPDATE` (R)
- `UPGRADE`
- `URL`; added in 8.0.32 (nonreserved)
- `USAGE` (R)
- `USE` (R)
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING` (R)
- `UTC_DATE` (R)
- `UTC_TIME` (R)
- `UTC_TIMESTAMP` (R)

V

- `VALIDATION`
- `VALUE`
- `VALUES` (R)
- `VARBINARY` (R)
- `VARCHAR` (R)
- `VARCHARACTER` (R)
- `VARIABLES`
- `VARYING` (R)
- `VCPU`; added in 8.0.3 (nonreserved)
- `VIEW`

- `VIRTUAL` (R)

- `VISIBLE`

W

- `WAIT`

- `WARNINGS`

- `WEEK`

- `WEIGHT_STRING`

- `WHEN` (R)

- `WHERE` (R)

- `WHILE` (R)

- `WINDOW` (R); added in 8.0.2 (reserved)

- `WITH` (R)

- `WITHOUT`

- `WORK`

- `WRAPPER`

- `WRITE` (R)

X

- `X509`

- `XA`

- `XID`

- `XML`

- `XOR` (R)

Y

- `YEAR`

- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)

- `ZONE`; added in 8.0.22 (nonreserved)

MySQL 8.0 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.0, compared to MySQL 5.7. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | R | S | T | U | V | W | Z

A

- `ACTIVE`

- `ADMIN`

- `ARRAY`

- `ATTRIBUTE`

- `AUTHENTICATION`

B

- `BUCKETS`

- `BULK`

C

- `CHALLENGE_RESPONSE`

- `CLONE`

- `COMPONENT`

- `CUME_DIST (R)`

D

- `DEFINITION`

- `DENSE_RANK (R)`

- `DESCRIPTION`

E

- `EMPTY (R)`

- `ENFORCED`

- `ENGINE_ATTRIBUTE`

- `EXCEPT (R)`

- `EXCLUDE`

F

- `FACTOR`

- `FAILED_LOGIN_ATTEMPTS`

- `FINISH`

- `FIRST_VALUE (R)`

- `FOLLOWING`

G

- `GENERATE`

- `GEOMCOLLECTION`

- `GET_MASTER_PUBLIC_KEY`

- `GET_SOURCE_PUBLIC_KEY`

- `GROUPING (R)`

- `GROUPS (R)`

- `GTID_ONLY`

H

- `HISTOGRAM`

- `HISTORY`

I

- `INACTIVE`

- `INITIAL`

- `INITIATE`

- `INTERSECT (R)`

- `INVISIBLE`

J

- `JSON_TABLE (R)`

- `JSON_VALUE`

K

- `KEYRING`

L

- `LAG (R)`

- `LAST_VALUE (R)`

- `LATERAL (R)`

- `LEAD (R)`

- `LOCKED`

M

- `MASTER_COMPRESSION_ALGORITHMS`

- `MASTER_PUBLIC_KEY_PATH`

- `MASTER_TLS_CIPHERSUITES`

- `MASTER_ZSTD_COMPRESSION_LEVEL`

- `MEMBER`

N

- `NESTED`
- `NETWORK_NAMESPACE`
- `NOWAIT`
- `NTH_VALUE` (R)
- `NTILE` (R)
- `NULLS`

O

- `OF` (R)
- `OFF`
- `OJ`
- `OLD`
- `OPTIONAL`
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OVER` (R)

P

- `PASSWORD_LOCK_TIME`
- `PATH`
- `PERCENT_RANK` (R)
- `PERSIST`
- `PERSIST_ONLY`
- `PRECEDING`
- `PRIVILEGE_CHECKS_USER`
- `PROCESS`

R

- `RANDOM`
- `RANK` (R)
- `RECURSIVE` (R)
- `REFERENCE`
- `REGISTRATION`
- `REPLICA`
- `REPLICAS`

- REQUIRE_ROW_FORMAT
- RESOURCE
- RESPECT
- RESTART
- RETAIN
- RETURNING
- REUSE
- ROLE
- ROW_NUMBER (R)

S

- SECONDARY
- SECONDARY_ENGINE
- SECONDARY_ENGINE_ATTRIBUTE
- SECONDARY_LOAD
- SECONDARY_UNLOAD
- SKIP
- SOURCE_AUTO_POSITION
- SOURCE_BIND
- SOURCE_COMPRESSION_ALGORITHMS
- SOURCE_CONNECT_RETRY
- SOURCE_DELAY
- SOURCE_HEARTBEAT_PERIOD
- SOURCE_HOST
- SOURCE_LOG_FILE
- SOURCE_LOG_POS
- SOURCE_PASSWORD
- SOURCE_PORT
- SOURCE_PUBLIC_KEY_PATH
- SOURCE_RETRY_COUNT
- SOURCE_SSL
- SOURCE_SSL_CA
- SOURCE_SSL_CAPATH
- SOURCE_SSL_CERT

- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SRID`
- `STREAM`
- `SYSTEM (R)`

T

- `THREAD_PRIORITY`
- `TIES`
- `TLS`

U

- `UNBOUNDED`
- `UNREGISTER`
- `URL`

V

- `VCPU`
- `VISIBLE`

W

- `WINDOW (R)`

Z

- `ZONE`

MySQL 8.0 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.0, compared to MySQL 5.7. Reserved keywords are marked with (R).

- `ANALYSE`
- `DES_KEY_FILE`
- `MASTER_SERVER_ID`

- [PARSE_GCOL_EXPR](#)
- [REDOFILE](#)
- [SQL_CACHE](#)

7.3 Keywords and Reserved Words in MySQL 8.1

This section provides information about keywords and reserved words in MySQL 8.1.

- [MySQL 8.1 Keywords and Reserved Words](#)
- [MySQL 8.1 New Keywords and Reserved Words](#)
- [MySQL 8.1 Removed Keywords and Reserved Words](#)

MySQL 8.1 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.1, along with changes to individual words from version to version. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [ARRAY](#)
- [AS](#) (R)
- [ASC](#) (R)

- `ASCII`
- `ASENSITIVE` (R)
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

B

- `BACKUP`
- `BEFORE` (R)
- `BEGIN`
- `BETWEEN` (R)
- `BIGINT` (R)
- `BINARY` (R)
- `BINLOG`
- `BIT`
- `BLOB` (R)
- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH` (R)
- `BTREE`
- `BUCKETS`
- `BULK`
- `BY` (R)
- `BYTE`

C

- `CACHE`
- `CALL` (R)
- `CASCADE` (R)
- `CASCDED`

- `CASE` (R)
- `CATALOG_NAME`
- `CHAIN`
- `CHALLENGE_RESPONSE`
- `CHANGE` (R)
- `CHANGED`
- `CHANNEL`
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`
- `CHECK` (R)
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`
- `CLOSE`
- `COALESCE`
- `CODE`
- `COLLATE` (R)
- `COLLATION`
- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`

- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE` (R)
- `CUME_DIST` (R)
- `CURRENT`
- `CURRENT_DATE` (R)
- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)
- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)

- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)
- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFILE`
- `DUPLICATE`

- **DYNAMIC**

E

- **EACH** (R)
- **ELSE** (R)
- **ELSEIF** (R)
- **EMPTY** (R)
- **ENABLE**
- **ENCLOSED** (R)
- **ENCRYPTION**
- **END**
- **ENDS**
- **ENFORCED**
- **ENGINE**
- **ENGINES**
- **ENGINE_ATTRIBUTE**
- **ENUM**
- **ERROR**
- **ERRORS**
- **ESCAPE**
- **ESCAPED** (R)
- **EVENT**
- **EVENTS**
- **EVERY**
- **EXCEPT** (R)
- **EXCHANGE**
- **EXCLUDE**
- **EXECUTE**
- **EXISTS** (R)
- **EXIT** (R)
- **EXPANSION**
- **EXPIRE**
- **EXPLAIN** (R)
- **EXPORT**

- EXTENDED
- EXTENT_SIZE

F

- FACTOR
- FAILED_LOGIN_ATTEMPTS
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE_BLOCK_SIZE
- FILTER
- FINISH
- FIRST
- FIRST_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT
- FOUND
- FROM (R)
- FULL
- FULLTEXT (R)
- FUNCTION (R)

G

- `GENERAL`
- `GENERATE`
- `GENERATED (R)`
- `GEOMCOLLECTION`
- `GEOMETRY`
- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GET_MASTER_PUBLIC_KEY`
- `GET_SOURCE_PUBLIC_KEY`
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`
- `GROUPING (R)`
- `GROUPS (R)`
- `GROUP_REPLICATION`
- `GTID_ONLY`

H

- `HANDLER`
- `HASH`
- `HAVING (R)`
- `HELP`
- `HIGH_PRIORITY (R)`
- `HISTOGRAM`
- `HISTORY`
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND (R)`
- `HOUR_MINUTE (R)`
- `HOUR_SECOND (R)`

|

- `IDENTIFIED`
- `IF (R)`
- `IGNORE (R)`
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN (R)`
- `INACTIVE`
- `INDEX (R)`
- `INDEXES`
- `INFILE (R)`
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER (R)`
- `INOUT (R)`
- `INSENSITIVE (R)`
- `INSERT (R)`
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT (R)`
- `INT1 (R)`
- `INT2 (R)`
- `INT3 (R)`
- `INT4 (R)`
- `INT8 (R)`
- `INTEGER (R)`
- `INTERSECT (R)`
- `INTERVAL (R)`
- `INTO (R)`
- `INVISIBLE`
- `INVOKER`
- `IO`

- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

L

- `LAG` (R)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)

- `LIMIT` (R)
 - `LINEAR` (R)
 - `LINES` (R)
 - `LINESTRING`
 - `LIST`
 - `LOAD` (R)
 - `LOCAL`
 - `LOCALTIME` (R)
 - `LOCALTIMESTAMP` (R)
 - `LOCK` (R)
 - `LOCKED`
 - `LOCKS`
 - `LOGFILE`
 - `LOGS`
 - `LONG` (R)
 - `LONGBLOB` (R)
 - `LONGTEXT` (R)
 - `LOOP` (R)
 - `LOW_PRIORITY` (R)
- M
- `MASTER`
 - `MASTER_AUTO_POSITION`
 - `MASTER_BIND` (R)
 - `MASTER_COMPRESSION_ALGORITHMS`
 - `MASTER_CONNECT_RETRY`
 - `MASTER_DELAY`
 - `MASTER_HEARTBEAT_PERIOD`
 - `MASTER_HOST`
 - `MASTER_LOG_FILE`
 - `MASTER_LOG_POS`
 - `MASTER_PASSWORD`
 - `MASTER_PORT`
 - `MASTER_PUBLIC_KEY_PATH`

- `MASTER_RETRY_COUNT`
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`
- `MASTER_TLS_VERSION`
- `MASTER_USER`
- `MASTER_ZSTD_COMPRESSION_LEVEL`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`

- MINUTE
- MINUTE_MICROSECOND (R)
- MINUTE_SECOND (R)
- MIN_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL_ERRNO

N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP
- NONE
- NOT (R)
- NOWAIT
- NO_WAIT

- `NO_WRITE_TO_BINLOG` (R)

- `NTH_VALUE` (R)

- `NTILE` (R)

- `NULL` (R)

- `NULLS`

- `NUMBER`

- `NUMERIC` (R)

- `NVARCHAR`

O

- `OF` (R)

- `OFF`

- `OFFSET`

- `OJ`

- `OLD`

- `ON` (R)

- `ONE`

- `ONLY`

- `OPEN`

- `OPTIMIZE` (R)

- `OPTIMIZER_COSTS` (R)

- `OPTION` (R)

- `OPTIONAL`

- `OPTIONALLY` (R)

- `OPTIONS`

- `OR` (R)

- `ORDER` (R)

- `ORDINALITY`

- `ORGANIZATION`

- `OTHERS`

- `OUT` (R)

- `OUTER` (R)

- `OUTFILE` (R)

- `OVER` (R)

- OWNER

P

- PACK_KEYS
- PAGE
- PARSER
- PARSE_TREE
- PARTIAL
- PARTITION (R)
- PARTITIONING
- PARTITIONS
- PASSWORD
- PASSWORD_LOCK_TIME
- PATH
- PERCENT_RANK (R)
- PERSIST
- PERSIST_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN_DIR
- POINT
- POLYGON
- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE_CHECKS_USER
- PROCEDURE (R)

- [PROCESS](#)
- [PROCESSLIST](#)
- [PROFILE](#)
- [PROFILES](#)
- [PROXY](#)
- [PURGE \(R\)](#)

Q

- [QUARTER](#)
- [QUERY](#)
- [QUICK](#)

R

- [RANDOM](#)
- [RANGE \(R\)](#)
- [RANK \(R\)](#)
- [READ \(R\)](#)
- [READS \(R\)](#)
- [READ_ONLY](#)
- [READ_WRITE \(R\)](#)
- [REAL \(R\)](#)
- [REBUILD](#)
- [RECOVER](#)
- [RECURSIVE \(R\)](#)
- [REDO_BUFFER_SIZE](#)
- [REDUNDANT](#)
- [REFERENCE](#)
- [REFERENCES \(R\)](#)
- [REGEXP \(R\)](#)
- [REGISTRATION](#)
- [RELAY](#)
- [RELAYLOG](#)
- [RELAY_LOG_FILE](#)
- [RELAY_LOG_POS](#)
- [RELAY_THREAD](#)

- `RELEASE` (R)
- `RELOAD`
- `REMOVE`
- `RENAME` (R)
- `REORGANIZE`
- `REPAIR`
- `REPEAT` (R)
- `REPEATABLE`
- `REPLACE` (R)
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE` (R)
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL` (R)
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETAIN`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`

- `RETURNS`
 - `REUSE`
 - `REVERSE`
 - `REVOKE` (R)
 - `RIGHT` (R)
 - `RLIKE` (R)
 - `ROLE`
 - `ROLLBACK`
 - `ROLLUP`
 - `ROTATE`
 - `ROUTINE`
 - `ROW` (R)
 - `ROWS` (R)
 - `ROW_COUNT`
 - `ROW_FORMAT`
 - `ROW_NUMBER` (R)
 - `RTREE`
- S
- `SAVEPOINT`
 - `SCHEDULE`
 - `SCHEMA` (R)
 - `SCHEMAS` (R)
 - `SCHEMA_NAME`
 - `SECOND`
 - `SECONDARY`
 - `SECONDARY_ENGINE`
 - `SECONDARY_ENGINE_ATTRIBUTE`
 - `SECONDARY_LOAD`
 - `SECONDARY_UNLOAD`
 - `SECOND_MICROSECOND` (R)
 - `SECURITY`
 - `SELECT` (R)
 - `SENSITIVE` (R)

- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`

- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`

- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL (R)`
- `STACKED`
- `START`
- `STARTING (R)`
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED (R)`
- `STRAIGHT_JOIN (R)`
- `STREAM`
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`
- `SYSTEM (R)`

T

- `TABLE (R)`
- `TABLES`

- TABLESPACE
 - TABLE_CHECKSUM
 - TABLE_NAME
 - TEMPORARY
 - TEMPTABLE
 - TERMINATED (R)
 - TEXT
 - THAN
 - THEN (R)
 - THREAD_PRIORITY
 - TIES
 - TIME
 - TIMESTAMP
 - TIMESTAMPADD
 - TIMESTAMPDIFF
 - TINYBLOB (R)
 - TINYINT (R)
 - TINYTEXT (R)
 - TLS
 - TO (R)
 - TRAILING (R)
 - TRANSACTION
 - TRIGGER (R)
 - TRIGGERS
 - TRUE (R)
 - TRUNCATE
 - TYPE
 - TYPES
- U
- UNBOUNDED
 - UNCOMMITTED
 - UNDEFINED
 - UNDO (R)

- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION` (R)
- `UNIQUE` (R)
- `UNKNOWN`
- `UNLOCK` (R)
- `UNREGISTER`
- `UNSIGNED` (R)
- `UNTIL`
- `UPDATE` (R)
- `UPGRADE`
- `URL`
- `USAGE` (R)
- `USE` (R)
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING` (R)
- `UTC_DATE` (R)
- `UTC_TIME` (R)
- `UTC_TIMESTAMP` (R)

V

- `VALIDATION`
- `VALUE`
- `VALUES` (R)
- `VARBINARY` (R)
- `VARCHAR` (R)
- `VARCHARACTER` (R)
- `VARIABLES`
- `VARYING` (R)
- `VCPU`

- `VIEW`
- `VIRTUAL` (R)
- `VISIBLE`

W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

MySQL 8.1 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.1, compared to MySQL 8.0. Reserved keywords are marked with (R).

- `PARSE_TREE`

MySQL 8.1 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.1, compared to MySQL 8.0. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.0-8.1.

7.4 Keywords and Reserved Words in MySQL 8.2

This section provides information about keywords and reserved words in MySQL 8.2.

- [MySQL 8.2 Keywords and Reserved Words](#)
- [MySQL 8.2 New Keywords and Reserved Words](#)
- [MySQL 8.2 Removed Keywords and Reserved Words](#)

MySQL 8.2 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.2, along with changes to individual words from version to version. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- [ACCESSIBLE](#) (R)

- [ACCOUNT](#)

- [ACTION](#)

- [ACTIVE](#)

- [ADD](#) (R)

- [ADMIN](#)

- [AFTER](#)

- [AGAINST](#)

- [AGGREGATE](#)

- [ALGORITHM](#)

- [ALL](#) (R)

- [ALTER](#) (R)

- [ALWAYS](#)

- [ANALYZE](#) (R)

- [AND](#) (R)

- [ANY](#)

- [ARRAY](#)

- [AS](#) (R)

- [ASC](#) (R)

- `ASCII`
- `ASENSITIVE` (R)
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

B

- `BACKUP`
- `BEFORE` (R)
- `BEGIN`
- `BETWEEN` (R)
- `BIGINT` (R)
- `BINARY` (R)
- `BINLOG`
- `BIT`
- `BLOB` (R)
- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH` (R)
- `BTREE`
- `BUCKETS`
- `BULK`
- `BY` (R)
- `BYTE`

C

- `CACHE`
- `CALL` (R)
- `CASCADE` (R)
- `CASCDED`

- `CASE` (R)
- `CATALOG_NAME`
- `CHAIN`
- `CHALLENGE_RESPONSE`
- `CHANGE` (R)
- `CHANGED`
- `CHANNEL`
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`
- `CHECK` (R)
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`
- `CLOSE`
- `COALESCE`
- `CODE`
- `COLLATE` (R)
- `COLLATION`
- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`

- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE` (R)
- `CUME_DIST` (R)
- `CURRENT`
- `CURRENT_DATE` (R)
- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)
- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)

- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)
- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFILE`
- `DUPLICATE`

- **DYNAMIC**

E

- **EACH** (R)
- **ELSE** (R)
- **ELSEIF** (R)
- **EMPTY** (R)
- **ENABLE**
- **ENCLOSED** (R)
- **ENCRYPTION**
- **END**
- **ENDS**
- **ENFORCED**
- **ENGINE**
- **ENGINES**
- **ENGINE_ATTRIBUTE**
- **ENUM**
- **ERROR**
- **ERRORS**
- **ESCAPE**
- **ESCAPED** (R)
- **EVENT**
- **EVENTS**
- **EVERY**
- **EXCEPT** (R)
- **EXCHANGE**
- **EXCLUDE**
- **EXECUTE**
- **EXISTS** (R)
- **EXIT** (R)
- **EXPANSION**
- **EXPIRE**
- **EXPLAIN** (R)
- **EXPORT**

- EXTENDED
- EXTENT_SIZE

F

- FACTOR
- FAILED_LOGIN_ATTEMPTS
- FALSE (R)
- FAST
- FAULTS
- FETCH (R)
- FIELDS
- FILE
- FILE_BLOCK_SIZE
- FILTER
- FINISH
- FIRST
- FIRST_VALUE (R)
- FIXED
- FLOAT (R)
- FLOAT4 (R)
- FLOAT8 (R)
- FLUSH
- FOLLOWING
- FOLLOWS
- FOR (R)
- FORCE (R)
- FOREIGN (R)
- FORMAT
- FOUND
- FROM (R)
- FULL
- FULLTEXT (R)
- FUNCTION (R)

G

- `GENERAL`
 - `GENERATE`
 - `GENERATED (R)`
 - `GEOMCOLLECTION`
 - `GEOMETRY`
 - `GEOMETRYCOLLECTION`
 - `GET (R)`
 - `GET_FORMAT`
 - `GET_MASTER_PUBLIC_KEY`
 - `GET_SOURCE_PUBLIC_KEY`
 - `GLOBAL`
 - `GRANT (R)`
 - `GRANTS`
 - `GROUP (R)`
 - `GROUPING (R)`
 - `GROUPS (R)`
 - `GROUP_REPLICATION`
 - `GTIDS`
 - `GTID_ONLY`
- H
- `HANDLER`
 - `HASH`
 - `HAVING (R)`
 - `HELP`
 - `HIGH_PRIORITY (R)`
 - `HISTOGRAM`
 - `HISTORY`
 - `HOST`
 - `HOSTS`
 - `HOUR`
 - `HOUR_MICROSECOND (R)`
 - `HOUR_MINUTE (R)`
 - `HOUR_SECOND (R)`

|

- `IDENTIFIED`
- `IF (R)`
- `IGNORE (R)`
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN (R)`
- `INACTIVE`
- `INDEX (R)`
- `INDEXES`
- `INFILE (R)`
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER (R)`
- `INOUT (R)`
- `INSENSITIVE (R)`
- `INSERT (R)`
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT (R)`
- `INT1 (R)`
- `INT2 (R)`
- `INT3 (R)`
- `INT4 (R)`
- `INT8 (R)`
- `INTEGER (R)`
- `INTERSECT (R)`
- `INTERVAL (R)`
- `INTO (R)`
- `INVISIBLE`
- `INVOKER`

- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

L

- `LAG` (R)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`

- `LIKE` (R)
 - `LIMIT` (R)
 - `LINEAR` (R)
 - `LINES` (R)
 - `LINESTRING`
 - `LIST`
 - `LOAD` (R)
 - `LOCAL`
 - `LOCALTIME` (R)
 - `LOCALTIMESTAMP` (R)
 - `LOCK` (R)
 - `LOCKED`
 - `LOCKS`
 - `LOG`
 - `LOGFILE`
 - `LOGS`
 - `LONG` (R)
 - `LONGBLOB` (R)
 - `LONGTEXT` (R)
 - `LOOP` (R)
 - `LOW_PRIORITY` (R)
- M
- `MASTER`
 - `MASTER_AUTO_POSITION`
 - `MASTER_BIND` (R)
 - `MASTER_COMPRESSION_ALGORITHMS`
 - `MASTER_CONNECT_RETRY`
 - `MASTER_DELAY`
 - `MASTER_HEARTBEAT_PERIOD`
 - `MASTER_HOST`
 - `MASTER_LOG_FILE`
 - `MASTER_LOG_POS`
 - `MASTER_PASSWORD`

- `MASTER_PORT`
- `MASTER_PUBLIC_KEY_PATH`
- `MASTER_RETRY_COUNT`
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`
- `MASTER_TLS_VERSION`
- `MASTER_USER`
- `MASTER_ZSTD_COMPRESSION_LEVEL`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`

- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)
- `MIN_ROWS`
- `MOD` (R)
- `MODE`
- `MODIFIES` (R)
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`
- `MULTIPOINT`
- `MULTIPOLYGON`
- `MUTEX`
- `MYSQL_ERRNO`

N

- `NAME`
- `NAMES`
- `NATIONAL`
- `NATURAL` (R)
- `NCHAR`
- `NDB`
- `NDBCLUSTER`
- `NESTED`
- `NETWORK_NAMESPACE`
- `NEVER`
- `NEW`
- `NEXT`
- `NO`
- `NODEGROUP`
- `NONE`
- `NOT` (R)

- `NOWAIT`
- `NO_WAIT`
- `NO_WRITE_TO_BINLOG` (R)
- `NTH_VALUE` (R)
- `NTILE` (R)
- `NULL` (R)
- `NULLS`
- `NUMBER`
- `NUMERIC` (R)
- `NVARCHAR`

O

- `OF` (R)
- `OFF`
- `OFFSET`
- `OJ`
- `OLD`
- `ON` (R)
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE` (R)
- `OPTIMIZER_COSTS` (R)
- `OPTION` (R)
- `OPTIONAL`
- `OPTIONALLY` (R)
- `OPTIONS`
- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)

- `OUTFILE` (R)

- `OVER` (R)

- `OWNER`

P

- `PACK_KEYS`

- `PAGE`

- `PARALLEL` (R)

- `PARSER`

- `PARSE_TREE`

- `PARTIAL`

- `PARTITION` (R)

- `PARTITIONING`

- `PARTITIONS`

- `PASSWORD`

- `PASSWORD_LOCK_TIME`

- `PATH`

- `PERCENT_RANK` (R)

- `PERSIST`

- `PERSIST_ONLY`

- `PHASE`

- `PLUGIN`

- `PLUGINS`

- `PLUGIN_DIR`

- `POINT`

- `POLYGON`

- `PORT`

- `PRECEDES`

- `PRECEDING`

- `PRECISION` (R)

- `PREPARE`

- `PRESERVE`

- `PREV`

- `PRIMARY` (R)

- `PRIVILEGES`
- `PRIVILEGE_CHECKS_USER`
- `PROCEDURE (R)`
- `PROCESS`
- `PROCESSLIST`
- `PROFILE`
- `PROFILES`
- `PROXY`
- `PURGE (R)`

Q

- `QUARTER`
- `QUERY`
- `QUICK`

R

- `RANDOM`
- `RANGE (R)`
- `RANK (R)`
- `READ (R)`
- `READS (R)`
- `READ_ONLY`
- `READ_WRITE (R)`
- `REAL (R)`
- `REBUILD`
- `RECOVER`
- `RECURSIVE (R)`
- `REDO_BUFFER_SIZE`
- `REDUNDANT`
- `REFERENCE`
- `REFERENCES (R)`
- `REGEXP (R)`
- `REGISTRATION`
- `RELAY`
- `RELAYLOG`

- `RELAY_LOG_FILE`
- `RELAY_LOG_POS`
- `RELAY_THREAD`
- `RELEASE` (R)
- `RELOAD`
- `REMOVE`
- `RENAME` (R)
- `REORGANIZE`
- `REPAIR`
- `REPEAT` (R)
- `REPEATABLE`
- `REPLACE` (R)
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE` (R)
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL` (R)
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETAIN`

- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`
- `ROUTINE`
- `ROW` (R)
- `ROWS` (R)
- `ROW_COUNT`
- `ROW_FORMAT`
- `ROW_NUMBER` (R)
- `RTREE`

S

- `S3`
- `SAVEPOINT`
- `SCHEDULE`
- `SCHEMA` (R)
- `SCHEMAS` (R)
- `SCHEMA_NAME`
- `SECOND`
- `SECONDARY`
- `SECONDARY_ENGINE`
- `SECONDARY_ENGINE_ATTRIBUTE`
- `SECONDARY_LOAD`
- `SECONDARY_UNLOAD`

- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`

- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)

- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL (R)`
- `STACKED`
- `START`
- `STARTING (R)`
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED (R)`
- `STRAIGHT_JOIN (R)`
- `STREAM`
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`
- `SUSPEND`
- `SWAPS`
- `SWITCHES`

- **SYSTEM** (R)

T

- **TABLE** (R)
- **TABLES**
- **TABLESPACE**
- **TABLE_CHECKSUM**
- **TABLE_NAME**
- **TEMPORARY**
- **TEMPTABLE**
- **TERMINATED** (R)
- **TEXT**
- **THAN**
- **THEN** (R)
- **THREAD_PRIORITY**
- **TIES**
- **TIME**
- **TIMESTAMP**
- **TIMESTAMPADD**
- **TIMESTAMPDIFF**
- **TINYBLOB** (R)
- **TINYINT** (R)
- **TINYTEXT** (R)
- **TLS**
- **TO** (R)
- **TRAILING** (R)
- **TRANSACTION**
- **TRIGGER** (R)
- **TRIGGERS**
- **TRUE** (R)
- **TRUNCATE**
- **TYPE**
- **TYPES**

U

- `UNBOUNDED`
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO` (R)
- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION` (R)
- `UNIQUE` (R)
- `UNKNOWN`
- `UNLOCK` (R)
- `UNREGISTER`
- `UNSIGNED` (R)
- `UNTIL`
- `UPDATE` (R)
- `UPGRADE`
- `URL`
- `USAGE` (R)
- `USE` (R)
- `USER`
- `USER_RESOURCES`
- `USE_FRM`
- `USING` (R)
- `UTC_DATE` (R)
- `UTC_TIME` (R)
- `UTC_TIMESTAMP` (R)

V

- `VALIDATION`
- `VALUE`
- `VALUES` (R)
- `VARBINARY` (R)
- `VARCHAR` (R)

- `VARCHARACTER` (R)

- `VARIABLES`

- `VARYING` (R)

- `VCPU`

- `VIEW`

- `VIRTUAL` (R)

- `VISIBLE`

W

- `WAIT`

- `WARNINGS`

- `WEEK`

- `WEIGHT_STRING`

- `WHEN` (R)

- `WHERE` (R)

- `WHILE` (R)

- `WINDOW` (R)

- `WITH` (R)

- `WITHOUT`

- `WORK`

- `WRAPPER`

- `WRITE` (R)

X

- `X509`

- `XA`

- `XID`

- `XML`

- `XOR` (R)

Y

- `YEAR`

- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)

- `ZONE`

MySQL 8.2 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.2, compared to MySQL 8.1. Reserved keywords are marked with (R).

- [GTIDS](#)
- [LOG](#)
- [PARALLEL](#) (R)
- [S3](#)

MySQL 8.2 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.2, compared to MySQL 8.1. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.1-8.2.

7.5 Keywords and Reserved Words in MySQL 8.3

This section provides information about keywords and reserved words in MySQL 8.3.

- [MySQL 8.3 Keywords and Reserved Words](#)
- [MySQL 8.3 New Keywords and Reserved Words](#)
- [MySQL 8.3 Removed Keywords and Reserved Words](#)

MySQL 8.3 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.3, along with changes to individual words from version to version. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)

- `ALWAYS`
- `ANALYZE` (R)
- `AND` (R)
- `ANY`
- `ARRAY`
- `AS` (R)
- `ASC` (R)
- `ASCII`
- `ASENSITIVE` (R)
- `AT`
- `ATTRIBUTE`
- `AUTHENTICATION`
- `AUTOEXTEND_SIZE`
- `AUTO_INCREMENT`
- `AVG`
- `AVG_ROW_LENGTH`

B

- `BACKUP`
- `BEFORE` (R)
- `BEGIN`
- `BETWEEN` (R)
- `BIGINT` (R)
- `BINARY` (R)
- `BINLOG`
- `BIT`
- `BLOB` (R)
- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH` (R)
- `BTREE`
- `BUCKETS`
- `BULK`

- [BY](#) (R)

- [BYTE](#)

C

- [CACHE](#)

- [CALL](#) (R)

- [CASCADE](#) (R)

- [CASCDED](#)

- [CASE](#) (R)

- [CATALOG_NAME](#)

- [CHAIN](#)

- [CHALLENGE_RESPONSE](#)

- [CHANGE](#) (R)

- [CHANGED](#)

- [CHANNEL](#)

- [CHAR](#) (R)

- [CHARACTER](#) (R)

- [CHARSET](#)

- [CHECK](#) (R)

- [CHECKSUM](#)

- [CIPHER](#)

- [CLASS_ORIGIN](#)

- [CLIENT](#)

- [CLONE](#)

- [CLOSE](#)

- [COALESCE](#)

- [CODE](#)

- [COLLATE](#) (R)

- [COLLATION](#)

- [COLUMN](#) (R)

- [COLUMNS](#)

- [COLUMN_FORMAT](#)

- [COLUMN_NAME](#)

- [COMMENT](#)

- `COMMIT`
 - `COMMITTED`
 - `COMPACT`
 - `COMPLETION`
 - `COMPONENT`
 - `COMPRESSED`
 - `COMPRESSION`
 - `CONCURRENT`
 - `CONDITION (R)`
 - `CONNECTION`
 - `CONSISTENT`
 - `CONSTRAINT (R)`
 - `CONSTRAINT_CATALOG`
 - `CONSTRAINT_NAME`
 - `CONSTRAINT_SCHEMA`
 - `CONTAINS`
 - `CONTEXT`
 - `CONTINUE (R)`
 - `CONVERT (R)`
 - `CPU`
 - `CREATE (R)`
 - `CROSS (R)`
 - `CUBE (R)`
 - `CUME_DIST (R)`
 - `CURRENT`
 - `CURRENT_DATE (R)`
 - `CURRENT_TIME (R)`
 - `CURRENT_TIMESTAMP (R)`
 - `CURRENT_USER (R)`
 - `CURSOR (R)`
 - `CURSOR_NAME`
- D
- `DATA`

- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)
- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`
- `DISABLE`
- `DISCARD`
- `DISK`
- `DISTINCT` (R)
- `DISTINCTROW` (R)

- `DIV` (R)
- `DO`
- `DOUBLE` (R)
- `DROP` (R)
- `DUAL` (R)
- `DUMPFILE`
- `DUPLICATE`
- `DYNAMIC`

E

- `EACH` (R)
- `ELSE` (R)
- `ELSEIF` (R)
- `EMPTY` (R)
- `ENABLE`
- `ENCLOSED` (R)
- `ENCRYPTION`
- `END`
- `ENDS`
- `ENFORCED`
- `ENGINE`
- `ENGINES`
- `ENGINE_ATTRIBUTE`
- `ENUM`
- `ERROR`
- `ERRORS`
- `ESCAPE`
- `ESCAPED` (R)
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT` (R)
- `EXCHANGE`
- `EXCLUDE`

- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN` (R)
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE` (R)
- `FIXED`
- `FLOAT` (R)
- `FLOAT4` (R)
- `FLOAT8` (R)
- `FLUSH`
- `FOLLOWING`
- `FOLLOWS`
- `FOR` (R)
- `FORCE` (R)
- `FOREIGN` (R)

- [FORMAT](#)
- [FOUND](#)
- [FROM \(R\)](#)
- [FULL](#)
- [FULLTEXT \(R\)](#)
- [FUNCTION \(R\)](#)

G

- [GENERAL](#)
- [GENERATE](#)
- [GENERATED \(R\)](#)
- [GEOMCOLLECTION](#)
- [GEOMETRY](#)
- [GEOMETRYCOLLECTION](#)
- [GET \(R\)](#)
- [GET_FORMAT](#)
- [GET_MASTER_PUBLIC_KEY](#)
- [GET_SOURCE_PUBLIC_KEY](#)
- [GLOBAL](#)
- [GRANT \(R\)](#)
- [GRANTS](#)
- [GROUP \(R\)](#)
- [GROUPING \(R\)](#)
- [GROUPS \(R\)](#)
- [GROUP_REPLICATION](#)
- [GTIDS](#)
- [GTID_ONLY](#)

H

- [HANDLER](#)
- [HASH](#)
- [HAVING \(R\)](#)
- [HELP](#)
- [HIGH_PRIORITY \(R\)](#)
- [HISTOGRAM](#)

- `HISTORY`
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND` (R)
- `HOUR_MINUTE` (R)
- `HOUR_SECOND` (R)
- |
- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INACTIVE`
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT` (R)
- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)

- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

L

- `LAG` (R)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)

- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- `MASTER`
- `MASTER_AUTO_POSITION`
- `MASTER_BIND` (R)
- `MASTER_COMPRESSION_ALGORITHMS`

- `MASTER_CONNECT_RETRY`
- `MASTER_DELAY`
- `MASTER_HEARTBEAT_PERIOD`
- `MASTER_HOST`
- `MASTER_LOG_FILE`
- `MASTER_LOG_POS`
- `MASTER_PASSWORD`
- `MASTER_PORT`
- `MASTER_PUBLIC_KEY_PATH`
- `MASTER_RETRY_COUNT`
- `MASTER_SSL`
- `MASTER_SSL_CA`
- `MASTER_SSL_CAPATH`
- `MASTER_SSL_CERT`
- `MASTER_SSL_CIPHER`
- `MASTER_SSL_CRL`
- `MASTER_SSL_CRLPATH`
- `MASTER_SSL_KEY`
- `MASTER_SSL_VERIFY_SERVER_CERT` (R)
- `MASTER_TLS_CIPHERSUITES`
- `MASTER_TLS_VERSION`
- `MASTER_USER`
- `MASTER_ZSTD_COMPRESSION_LEVEL`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)

- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)
- `MIN_ROWS`
- `MOD` (R)
- `MODE`
- `MODIFIES` (R)
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`
- `MULTIPOINT`
- `MULTIPOLYGON`
- `MUTEX`
- `MYSQL_ERRNO`

N

- `NAME`
- `NAMES`
- `NATIONAL`
- `NATURAL` (R)
- `NCHAR`
- `NDB`
- `NDBCLUSTER`
- `NESTED`
- `NETWORK_NAMESPACE`

- **NEVER**
 - **NEW**
 - **NEXT**
 - **NO**
 - **NODEGROUP**
 - **NONE**
 - **NOT (R)**
 - **NOWAIT**
 - **NO_WAIT**
 - **NO_WRITE_TO_BINLOG (R)**
 - **NTH_VALUE (R)**
 - **NTILE (R)**
 - **NULL (R)**
 - **NULLS**
 - **NUMBER**
 - **NUMERIC (R)**
 - **NVARCHAR**
- O
- **OF (R)**
 - **OFF**
 - **OFFSET**
 - **OJ**
 - **OLD**
 - **ON (R)**
 - **ONE**
 - **ONLY**
 - **OPEN**
 - **OPTIMIZE (R)**
 - **OPTIMIZER_COSTS (R)**
 - **OPTION (R)**
 - **OPTIONAL**
 - **OPTIONALLY (R)**
 - **OPTIONS**

- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION` (R)
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PASSWORD_LOCK_TIME`
- `PATH`
- `PERCENT_RANK` (R)
- `PERSIST`
- `PERSIST_ONLY`
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`

- **PRECEDES**
- **PRECEDING**
- **PRECISION** (R)
- **PREPARE**
- **PRESERVE**
- **PREV**
- **PRIMARY** (R)
- **PRIVILEGES**
- **PRIVILEGE_CHECKS_USER**
- **PROCEDURE** (R)
- **PROCESS**
- **PROCESSLIST**
- **PROFILE**
- **PROFILES**
- **PROXY**
- **PURGE** (R)

Q

- **QUALIFY** (R)
- **QUARTER**
- **QUERY**
- **QUICK**

R

- **RANDOM**
- **RANGE** (R)
- **RANK** (R)
- **READ** (R)
- **READS** (R)
- **READ_ONLY**
- **READ_WRITE** (R)
- **REAL** (R)
- **REBUILD**
- **RECOVER**
- **RECURSIVE** (R)

- REDO_BUFFER_SIZE
- REDUNDANT
- REFERENCE
- REFERENCES (R)
- REGEXP (R)
- REGISTRATION
- RELAY
- RELAYLOG
- RELAY_LOG_FILE
- RELAY_LOG_POS
- RELAY_THREAD
- RELEASE (R)
- RELOAD
- REMOVE
- RENAME (R)
- REORGANIZE
- REPAIR
- REPEAT (R)
- REPEATABLE
- REPLACE (R)
- REPLICA
- REPLICAS
- REPLICATE_DO_DB
- REPLICATE_DO_TABLE
- REPLICATE_IGNORE_DB
- REPLICATE_IGNORE_TABLE
- REPLICATE_REWRITE_DB
- REPLICATE_WILD_DO_TABLE
- REPLICATE_WILD_IGNORE_TABLE
- REPLICATION
- REQUIRE (R)
- REQUIRE_ROW_FORMAT
- RESET

- **RESIGNAL** (R)
 - **RESOURCE**
 - **RESPECT**
 - **RESTART**
 - **RESTORE**
 - **RESTRICT** (R)
 - **RESUME**
 - **RETAIN**
 - **RETURN** (R)
 - **RETURNED_SQLSTATE**
 - **RETURNING**
 - **RETURNS**
 - **REUSE**
 - **REVERSE**
 - **REVOKE** (R)
 - **RIGHT** (R)
 - **RLIKE** (R)
 - **ROLE**
 - **ROLLBACK**
 - **ROLLUP**
 - **ROTATE**
 - **ROUTINE**
 - **ROW** (R)
 - **ROWS** (R)
 - **ROW_COUNT**
 - **ROW_FORMAT**
 - **ROW_NUMBER** (R)
 - **RTREE**
- S
- **S3**
 - **SAVEPOINT**
 - **SCHEDULE**
 - **SCHEMA** (R)

- `SCHEMAS` (R)
- `SCHEMA_NAME`
- `SECOND`
- `SECONDARY`
- `SECONDARY_ENGINE`
- `SECONDARY_ENGINE_ATTRIBUTE`
- `SECONDARY_LOAD`
- `SECONDARY_UNLOAD`
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`

- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)

- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED` (R)
- `STRAIGHT_JOIN` (R)
- `STREAM`
- `STRING`

- **SUBCLASS_ORIGIN**
- **SUBJECT**
- **SUBPARTITION**
- **SUBPARTITIONS**
- **SUPER**
- **SUSPEND**
- **SWAPS**
- **SWITCHES**
- **SYSTEM (R)**

T

- **TABLE (R)**
- **TABLES**
- **TABLESPACE**
- **TABLE_CHECKSUM**
- **TABLE_NAME**
- **TEMPORARY**
- **TEMPTABLE**
- **TERMINATED (R)**
- **TEXT**
- **THAN**
- **THEN (R)**
- **THREAD_PRIORITY**
- **TIES**
- **TIME**
- **TIMESTAMP**
- **TIMESTAMPADD**
- **TIMESTAMPDIFF**
- **TINYBLOB (R)**
- **TINYINT (R)**
- **TINYTEXT (R)**
- **TLS**
- **TO (R)**
- **TRAILING (R)**

- TRANSACTION

- TRIGGER (R)

- TRIGGERS

- TRUE (R)

- TRUNCATE

- TYPE

- TYPES

U

- UNBOUNDED

- UNCOMMITTED

- UNDEFINED

- UNDO (R)

- UNDOFILE

- UNDO_BUFFER_SIZE

- UNICODE

- UNINSTALL

- UNION (R)

- UNIQUE (R)

- UNKNOWN

- UNLOCK (R)

- UNREGISTER

- UNSIGNED (R)

- UNTIL

- UPDATE (R)

- UPGRADE

- URL

- USAGE (R)

- USE (R)

- USER

- USER_RESOURCES

- USE_FRM

- USING (R)

- UTC_DATE (R)

- [UTC_TIME](#) (R)
- [UTC_TIMESTAMP](#) (R)

V

- [VALIDATION](#)
- [VALUE](#)
- [VALUES](#) (R)
- [VARBINARY](#) (R)
- [VARCHAR](#) (R)
- [VARCHARACTER](#) (R)
- [VARIABLES](#)
- [VARYING](#) (R)
- [VCPU](#)
- [VIEW](#)
- [VIRTUAL](#) (R)
- [VISIBLE](#)

W

- [WAIT](#)
- [WARNINGS](#)
- [WEEK](#)
- [WEIGHT_STRING](#)
- [WHEN](#) (R)
- [WHERE](#) (R)
- [WHILE](#) (R)
- [WINDOW](#) (R)
- [WITH](#) (R)
- [WITHOUT](#)
- [WORK](#)
- [WRAPPER](#)
- [WRITE](#) (R)

X

- [X509](#)
- [XA](#)
- [XID](#)

- [XML](#)
- [XOR \(R\)](#)

Y

- [YEAR](#)
- [YEAR_MONTH \(R\)](#)

Z

- [ZEROFILL \(R\)](#)
- [ZONE](#)

MySQL 8.3 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.3, compared to MySQL 8.2. Reserved keywords are marked with (R).

- [QUALIFY \(R\)](#)

MySQL 8.3 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.3, compared to MySQL 8.2. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.2-8.3.

7.6 Keywords and Reserved Words in MySQL 8.4

This section provides information about keywords and reserved words in MySQL 8.4.

- [MySQL 8.4 Keywords and Reserved Words](#)
- [MySQL 8.4 New Keywords and Reserved Words](#)
- [MySQL 8.4 Removed Keywords and Reserved Words](#)

MySQL 8.4 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 8.4, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE \(R\)](#)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD \(R\)](#)
- [ADMIN](#)
- [AFTER](#)

- **AGAINST**
 - **AGGREGATE**
 - **ALGORITHM**
 - **ALL** (R)
 - **ALTER** (R)
 - **ALWAYS**
 - **ANALYZE** (R)
 - **AND** (R)
 - **ANY**
 - **ARRAY**
 - **AS** (R)
 - **ASC** (R)
 - **ASCII**
 - **ASENSITIVE** (R)
 - **AT**
 - **ATTRIBUTE**
 - **AUTHENTICATION**
 - **AUTO**
 - **AUTOEXTEND_SIZE**
 - **AUTO_INCREMENT**
 - **AVG**
 - **AVG_ROW_LENGTH**
- B
- **BACKUP**
 - **BEFORE** (R)
 - **BEGIN**
 - **BERNOULLI**
 - **BETWEEN** (R)
 - **BIGINT** (R)
 - **BINARY** (R)
 - **BINLOG**
 - **BIT**
 - **BLOB** (R)

- `BLOCK`
- `BOOL`
- `BOOLEAN`
- `BOTH` (R)
- `BTREE`
- `BUCKETS`
- `BULK`
- `BY` (R)
- `BYTE`

C

- `CACHE`
- `CALL` (R)
- `CASCADE` (R)
- `CASCDED`
- `CASE` (R)
- `CATALOG_NAME`
- `CHAIN`
- `CHALLENGE_RESPONSE`
- `CHANGE` (R)
- `CHANGED`
- `CHANNEL`
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`
- `CHECK` (R)
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`
- `CLOSE`
- `COALESCE`
- `CODE`

- `COLLATE` (R)
- `COLLATION`
- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE` (R)
- `CUME_DIST` (R)
- `CURRENT`
- `CURRENT_DATE` (R)

- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)
- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)
- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)

- `DIAGNOSTICS`

- `DIRECTORY`

- `DISABLE`

- `DISCARD`

- `DISK`

- `DISTINCT` (R)

- `DISTINCTROW` (R)

- `DIV` (R)

- `DO`

- `DOUBLE` (R)

- `DROP` (R)

- `DUAL` (R)

- `DUMPFILE`

- `DUPLICATE`

- `DYNAMIC`

E

- `EACH` (R)

- `ELSE` (R)

- `ELSEIF` (R)

- `EMPTY` (R)

- `ENABLE`

- `ENCLOSED` (R)

- `ENCRYPTION`

- `END`

- `ENDS`

- `ENFORCED`

- `ENGINE`

- `ENGINES`

- `ENGINE_ATTRIBUTE`

- `ENUM`

- `ERROR`

- `ERRORS`

- `ESCAPE`

- `ESCAPED` (R)
- `EVENT`
- `EVENTS`
- `EVERY`
- `EXCEPT` (R)
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN` (R)
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE` (R)
- `FIXED`
- `FLOAT` (R)
- `FLOAT4` (R)

- **FLOAT8** (R)

- **FLUSH**

- **FOLLOWING**

- **FOLLOWS**

- **FOR** (R)

- **FORCE** (R)

- **FOREIGN** (R)

- **FORMAT**

- **FOUND**

- **FROM** (R)

- **FULL**

- **FULLTEXT** (R)

- **FUNCTION** (R)

G

- **GENERAL**

- **GENERATE**

- **GENERATED** (R)

- **GEOMCOLLECTION**

- **GEOMETRY**

- **GEOMETRYCOLLECTION**

- **GET** (R)

- **GET_FORMAT**

- **GET_SOURCE_PUBLIC_KEY**

- **GLOBAL**

- **GRANT** (R)

- **GRANTS**

- **GROUP** (R)

- **GROUPING** (R)

- **GROUPS** (R)

- **GROUP_REPLICATION**

- **GTIDS**

- **GTID_ONLY**

H

- `HANDLER`
- `HASH`
- `HAVING` (R)
- `HELP`
- `HIGH_PRIORITY` (R)
- `HISTOGRAM`
- `HISTORY`
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND` (R)
- `HOUR_MINUTE` (R)
- `HOUR_SECOND` (R)
- |
- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INACTIVE`
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`

- `INSTANCE`
 - `INT` (R)
 - `INT1` (R)
 - `INT2` (R)
 - `INT3` (R)
 - `INT4` (R)
 - `INT8` (R)
 - `INTEGER` (R)
 - `INTERSECT` (R)
 - `INTERVAL` (R)
 - `INTO` (R)
 - `INVISIBLE`
 - `INVOKER`
 - `IO`
 - `IO_AFTER_GTIDS` (R)
 - `IO_BEFORE_GTIDS` (R)
 - `IO_THREAD`
 - `IPC`
 - `IS` (R)
 - `ISOLATION`
 - `ISSUER`
 - `ITERATE` (R)
- J
- `JOIN` (R)
 - `JSON`
 - `JSON_TABLE` (R)
 - `JSON_VALUE`
- K
- `KEY` (R)
 - `KEYRING`
 - `KEYS` (R)
 - `KEY_BLOCK_SIZE`
 - `KILL` (R)

L

- `LAG` (R)
- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)

- `LOW_PRIORITY` (R)

M

- `MANUAL` (R)
- `MASTER`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`
- `MESSAGE_TEXT`
- `MICROSECOND`
- `MIDDLEINT` (R)
- `MIGRATE`
- `MINUTE`
- `MINUTE_MICROSECOND` (R)
- `MINUTE_SECOND` (R)
- `MIN_ROWS`
- `MOD` (R)
- `MODE`
- `MODIFIES` (R)
- `MODIFY`
- `MONTH`
- `MULTILINESTRING`

- `MULTIPOINT`
- `MULTIPOLYGON`
- `MUTEX`
- `MYSQL_ERRNO`

N

- `NAME`
- `NAMES`
- `NATIONAL`
- `NATURAL` (R)
- `NCHAR`
- `NDB`
- `NDBCLUSTER`
- `NESTED`
- `NETWORK_NAMESPACE`
- `NEVER`
- `NEW`
- `NEXT`
- `NO`
- `NODEGROUP`
- `NONE`
- `NOT` (R)
- `NOWAIT`
- `NO_WAIT`
- `NO_WRITE_TO_BINLOG` (R)
- `NTH_VALUE` (R)
- `NTILE` (R)
- `NULL` (R)
- `NULLS`
- `NUMBER`
- `NUMERIC` (R)
- `NVARCHAR`

O

- `OF` (R)

- `OFF`
- `OFFSET`
- `OJ`
- `OLD`
- `ON` (R)
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE` (R)
- `OPTIMIZER_COSTS` (R)
- `OPTION` (R)
- `OPTIONAL`
- `OPTIONALLY` (R)
- `OPTIONS`
- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION` (R)
- `PARTITIONING`

- PARTITIONS
- PASSWORD
- PASSWORD_LOCK_TIME
- PATH
- PERCENT_RANK (R)
- PERSIST
- PERSIST_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN_DIR
- POINT
- POLYGON
- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE_CHECKS_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE
- PROFILES
- PROXY
- PURGE (R)

Q

- QUALIFY (R)
- QUARTER

- [QUERY](#)
- [QUICK](#)

R

- [RANDOM](#)
- [RANGE \(R\)](#)
- [RANK \(R\)](#)
- [READ \(R\)](#)
- [READS \(R\)](#)
- [READ_ONLY](#)
- [READ_WRITE \(R\)](#)
- [REAL \(R\)](#)
- [REBUILD](#)
- [RECOVER](#)
- [RECURSIVE \(R\)](#)
- [REDO_BUFFER_SIZE](#)
- [REDUNDANT](#)
- [REFERENCE](#)
- [REFERENCES \(R\)](#)
- [REGEXP \(R\)](#)
- [REGISTRATION](#)
- [RELAY](#)
- [RELAYLOG](#)
- [RELAY_LOG_FILE](#)
- [RELAY_LOG_POS](#)
- [RELAY_THREAD](#)
- [RELEASE \(R\)](#)
- [RELOAD](#)
- [REMOVE](#)
- [RENAME \(R\)](#)
- [REORGANIZE](#)
- [REPAIR](#)
- [REPEAT \(R\)](#)
- [REPEATABLE](#)

- `REPLACE` (R)
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE` (R)
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL` (R)
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETAIN`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`
- `ROLLBACK`

- `ROLLUP`
 - `ROTATE`
 - `ROUTINE`
 - `ROW` (R)
 - `ROWS` (R)
 - `ROW_COUNT`
 - `ROW_FORMAT`
 - `ROW_NUMBER` (R)
 - `RTREE`
- S
- `S3`
 - `SAVEPOINT`
 - `SCHEDULE`
 - `SCHEMA` (R)
 - `SCHEMAS` (R)
 - `SCHEMA_NAME`
 - `SECOND`
 - `SECONDARY`
 - `SECONDARY_ENGINE`
 - `SECONDARY_ENGINE_ATTRIBUTE`
 - `SECONDARY_LOAD`
 - `SECONDARY_UNLOAD`
 - `SECOND_MICROSECOND` (R)
 - `SECURITY`
 - `SELECT` (R)
 - `SENSITIVE` (R)
 - `SEPARATOR` (R)
 - `SERIAL`
 - `SERIALIZABLE`
 - `SERVER`
 - `SESSION`
 - `SET` (R)
 - `SHARE`

- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`

- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)

- STACKED
- START
- STARTING (R)
- STARTS
- STATS_AUTO_RECALC
- STATS_PERSISTENT
- STATS_SAMPLE_PAGES
- STATUS
- STOP
- STORAGE
- STORED (R)
- STRAIGHT_JOIN (R)
- STREAM
- STRING
- SUBCLASS_ORIGIN
- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

T

- TABLE (R)
- TABLES
- TABLESAMPLE (R)
- TABLESPACE
- TABLE_CHECKSUM
- TABLE_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)

- `TEXT`
 - `THAN`
 - `THEN` (R)
 - `THREAD_PRIORITY`
 - `TIES`
 - `TIME`
 - `TIMESTAMP`
 - `TIMESTAMPADD`
 - `TIMESTAMPDIFF`
 - `TINYBLOB` (R)
 - `TINYINT` (R)
 - `TINYTEXT` (R)
 - `TLS`
 - `TO` (R)
 - `TRAILING` (R)
 - `TRANSACTION`
 - `TRIGGER` (R)
 - `TRIGGERS`
 - `TRUE` (R)
 - `TRUNCATE`
 - `TYPE`
 - `TYPES`
- U
- `UNBOUNDED`
 - `UNCOMMITTED`
 - `UNDEFINED`
 - `UNDO` (R)
 - `UNDOFILE`
 - `UNDO_BUFFER_SIZE`
 - `UNICODE`
 - `UNINSTALL`
 - `UNION` (R)
 - `UNIQUE` (R)

- UNKNOWN
- UNLOCK (R)
- UNREGISTER
- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- URL
- USAGE (R)
- USE (R)
- USER
- USER_RESOURCES
- USE_FRM
- USING (R)
- UTC_DATE (R)
- UTC_TIME (R)
- UTC_TIMESTAMP (R)

V

- VALIDATION
- VALUE
- VALUES (R)
- VARBINARY (R)
- VARCHAR (R)
- VARCHARACTER (R)
- VARIABLES
- VARYING (R)

- VCPU
- VIEW
- VIRTUAL (R)
- VISIBLE

W

- WAIT
- WARNINGS

- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

MySQL 8.4 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 8.4, compared to MySQL 8.0. Reserved keywords are marked with (R).

[A](#) | [B](#) | [G](#) | [L](#) | [M](#) | [P](#) | [Q](#) | [S](#) | [T](#)

A

- `AUTO`

B

- `BERNOULLI`

G

- `GTIDS`

L

- [LOG](#)

M

- [MANUAL](#) (R)

P

- [PARALLEL](#) (R)

- [PARSE_TREE](#)

Q

- [QUALIFY](#) (R)

S

- [S3](#)

T

- [TABLESAMPLE](#) (R)

MySQL 8.4 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 8.4, compared to MySQL 8.0. Reserved keywords are marked with (R).

[G](#) | [M](#)

G

- [GET_MASTER_PUBLIC_KEY](#)

M

- [MASTER_AUTO_POSITION](#)
- [MASTER_BIND](#) (R)
- [MASTER_COMPRESSION_ALGORITHMS](#)
- [MASTER_CONNECT_RETRY](#)
- [MASTER_DELAY](#)
- [MASTER_HEARTBEAT_PERIOD](#)
- [MASTER_HOST](#)
- [MASTER_LOG_FILE](#)
- [MASTER_LOG_POS](#)
- [MASTER_PASSWORD](#)
- [MASTER_PORT](#)
- [MASTER_PUBLIC_KEY_PATH](#)
- [MASTER_RETRY_COUNT](#)

- [MASTER_SSL](#)
- [MASTER_SSL_CA](#)
- [MASTER_SSL_CAPATH](#)
- [MASTER_SSL_CERT](#)
- [MASTER_SSL_CIPHER](#)
- [MASTER_SSL_CRL](#)
- [MASTER_SSL_CRLPATH](#)
- [MASTER_SSL_KEY](#)
- [MASTER_SSL_VERIFY_SERVER_CERT \(R\)](#)
- [MASTER_TLS_CIPHERSUITES](#)
- [MASTER_TLS_VERSION](#)
- [MASTER_USER](#)
- [MASTER_ZSTD_COMPRESSION_LEVEL](#)

7.7 Keywords and Reserved Words in MySQL 9.0

This section provides information about keywords and reserved words in MySQL 9.0.

- [MySQL 9.0 Keywords and Reserved Words](#)
- [MySQL 9.0 New Keywords and Reserved Words](#)
- [MySQL 9.0 Removed Keywords and Reserved Words](#)

MySQL 9.0 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 9.0, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE \(R\)](#)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD \(R\)](#)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)

- `ALGORITHM`
 - `ALL` (R)
 - `ALTER` (R)
 - `ALWAYS`
 - `ANALYZE` (R)
 - `AND` (R)
 - `ANY`
 - `ARRAY`
 - `AS` (R)
 - `ASC` (R)
 - `ASCII`
 - `ASENSITIVE` (R)
 - `AT`
 - `ATTRIBUTE`
 - `AUTHENTICATION`
 - `AUTO`
 - `AUTOEXTEND_SIZE`
 - `AUTO_INCREMENT`
 - `AVG`
 - `AVG_ROW_LENGTH`
- B
- `BACKUP`
 - `BEFORE` (R)
 - `BEGIN`
 - `BERNOULLI`
 - `BETWEEN` (R)
 - `BIGINT` (R)
 - `BINARY` (R)
 - `BINLOG`
 - `BIT`
 - `BLOB` (R)
 - `BLOCK`
 - `BOOL`

- `BOOLEAN`

- `BOTH` (R)

- `BTREE`

- `BUCKETS`

- `BULK`

- `BY` (R)

- `BYTE`

C

- `CACHE`

- `CALL` (R)

- `CASCADE` (R)

- `CASCDED`

- `CASE` (R)

- `CATALOG_NAME`

- `CHAIN`

- `CHALLENGE_RESPONSE`

- `CHANGE` (R)

- `CHANGED`

- `CHANNEL`

- `CHAR` (R)

- `CHARACTER` (R)

- `CHARSET`

- `CHECK` (R)

- `CHECKSUM`

- `CIPHER`

- `CLASS_ORIGIN`

- `CLIENT`

- `CLONE`

- `CLOSE`

- `COALESCE`

- `CODE`

- `COLLATE` (R)

- `COLLATION`

- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE` (R)
- `CONVERT` (R)
- `CPU`
- `CREATE` (R)
- `CROSS` (R)
- `CUBE` (R)
- `CUME_DIST` (R)
- `CURRENT`
- `CURRENT_DATE` (R)
- `CURRENT_TIME` (R)
- `CURRENT_TIMESTAMP` (R)

- `CURRENT_USER` (R)
- `CURSOR` (R)
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE` (R)
- `DATABASES` (R)
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR` (R)
- `DAY_MICROSECOND` (R)
- `DAY_MINUTE` (R)
- `DAY_SECOND` (R)
- `DEALLOCATE`
- `DEC` (R)
- `DECIMAL` (R)
- `DECLARE` (R)
- `DEFAULT` (R)
- `DEFAULT_AUTH`
- `DEFINER`
- `DEFINITION`
- `DELAYED` (R)
- `DELAY_KEY_WRITE`
- `DELETE` (R)
- `DENSE_RANK` (R)
- `DESC` (R)
- `DESCRIBE` (R)
- `DESCRIPTION`
- `DETERMINISTIC` (R)
- `DIAGNOSTICS`
- `DIRECTORY`

- `DISABLE`
 - `DISCARD`
 - `DISK`
 - `DISTINCT` (R)
 - `DISTINCTROW` (R)
 - `DIV` (R)
 - `DO`
 - `DOUBLE` (R)
 - `DROP` (R)
 - `DUAL` (R)
 - `DUMPFILE`
 - `DUPLICATE`
 - `DYNAMIC`
- E
- `EACH` (R)
 - `ELSE` (R)
 - `ELSEIF` (R)
 - `EMPTY` (R)
 - `ENABLE`
 - `ENCLOSED` (R)
 - `ENCRYPTION`
 - `END`
 - `ENDS`
 - `ENFORCED`
 - `ENGINE`
 - `ENGINES`
 - `ENGINE_ATTRIBUTE`
 - `ENUM`
 - `ERROR`
 - `ERRORS`
 - `ESCAPE`
 - `ESCAPED` (R)
 - `EVENT`

- `EVENTS`
- `EVERY`
- `EXCEPT` (R)
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS` (R)
- `EXIT` (R)
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN` (R)
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE` (R)
- `FAST`
- `FAULTS`
- `FETCH` (R)
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE` (R)
- `FIXED`
- `FLOAT` (R)
- `FLOAT4` (R)
- `FLOAT8` (R)
- `FLUSH`

- FOLLOWING

- FOLLOWS

- FOR (R)

- FORCE (R)

- FOREIGN (R)

- FORMAT

- FOUND

- FROM (R)

- FULL

- FULLTEXT (R)

- FUNCTION (R)

G

- GENERAL

- GENERATE

- GENERATED (R)

- GEOMCOLLECTION

- GEOMETRY

- GEOMETRYCOLLECTION

- GET (R)

- GET_FORMAT

- GET_SOURCE_PUBLIC_KEY

- GLOBAL

- GRANT (R)

- GRANTS

- GROUP (R)

- GROUPING (R)

- GROUPS (R)

- GROUP_REPLICATION

- GTIDS

- GTID_ONLY

H

- HANDLER

- HASH

- `HAVING` (R)
- `HELP`
- `HIGH_PRIORITY` (R)
- `HISTOGRAM`
- `HISTORY`
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND` (R)
- `HOUR_MINUTE` (R)
- `HOUR_SECOND` (R)
- |
- `IDENTIFIED`
- `IF` (R)
- `IGNORE` (R)
- `IGNORE_SERVER_IDS`
- `IMPORT`
- `IN` (R)
- `INACTIVE`
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT` (R)

- `INT1` (R)
 - `INT2` (R)
 - `INT3` (R)
 - `INT4` (R)
 - `INT8` (R)
 - `INTEGER` (R)
 - `INTERSECT` (R)
 - `INTERVAL` (R)
 - `INTO` (R)
 - `INVISIBLE`
 - `INVOKER`
 - `IO`
 - `IO_AFTER_GTIDS` (R)
 - `IO_BEFORE_GTIDS` (R)
 - `IO_THREAD`
 - `IPC`
 - `IS` (R)
 - `ISOLATION`
 - `ISSUER`
 - `ITERATE` (R)
- J
- `JOIN` (R)
 - `JSON`
 - `JSON_TABLE` (R)
 - `JSON_VALUE`
- K
- `KEY` (R)
 - `KEYRING`
 - `KEYS` (R)
 - `KEY_BLOCK_SIZE`
 - `KILL` (R)
- L
- `LAG` (R)

- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- [MANUAL](#) (R)
- [MASTER](#)
- [MATCH](#) (R)
- [MAXVALUE](#) (R)
- [MAX_CONNECTIONS_PER_HOUR](#)
- [MAX_QUERIES_PER_HOUR](#)
- [MAX_ROWS](#)
- [MAX_SIZE](#)
- [MAX_UPDATES_PER_HOUR](#)
- [MAX_USER_CONNECTIONS](#)
- [MEDIUM](#)
- [MEDIUMBLOB](#) (R)
- [MEDIUMINT](#) (R)
- [MEDIUMTEXT](#) (R)
- [MEMBER](#)
- [MEMORY](#)
- [MERGE](#)
- [MESSAGE_TEXT](#)
- [MICROSECOND](#)
- [MIDDLEINT](#) (R)
- [MIGRATE](#)
- [MINUTE](#)
- [MINUTE_MICROSECOND](#) (R)
- [MINUTE_SECOND](#) (R)
- [MIN_ROWS](#)
- [MOD](#) (R)
- [MODE](#)
- [MODIFIES](#) (R)
- [MODIFY](#)
- [MONTH](#)
- [MULTILINESTRING](#)
- [MULTIPOINT](#)
- [MULTIPOLYGON](#)

- [MUTEX](#)
- [MYSQL_ERRNO](#)

N

- [NAME](#)
- [NAMES](#)
- [NATIONAL](#)
- [NATURAL \(R\)](#)
- [NCHAR](#)
- [NDB](#)
- [NDBCLUSTER](#)
- [NESTED](#)
- [NETWORK_NAMESPACE](#)
- [NEVER](#)
- [NEW](#)
- [NEXT](#)
- [NO](#)
- [NODEGROUP](#)
- [NONE](#)
- [NOT \(R\)](#)
- [NOWAIT](#)
- [NO_WAIT](#)
- [NO_WRITE_TO_BINLOG \(R\)](#)

- [NTH_VALUE \(R\)](#)
- [NTILE \(R\)](#)
- [NULL \(R\)](#)
- [NULLS](#)
- [NUMBER](#)
- [NUMERIC \(R\)](#)
- [NVARCHAR](#)

O

- [OF \(R\)](#)
- [OFF](#)
- [OFFSET](#)

- `OJ`
- `OLD`
- `ON` (R)
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE` (R)
- `OPTIMIZER_COSTS` (R)
- `OPTION` (R)
- `OPTIONAL`
- `OPTIONALLY` (R)
- `OPTIONS`
- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION` (R)
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`

- **PASSWORD_LOCK_TIME**
- **PATH**
- **PERCENT_RANK (R)**
- **PERSIST**
- **PERSIST_ONLY**
- **PHASE**
- **PLUGIN**
- **PLUGINS**
- **PLUGIN_DIR**
- **POINT**
- **POLYGON**
- **PORT**
- **PRECEDES**
- **PRECEDING**
- **PRECISION (R)**
- **PREPARE**
- **PRESERVE**
- **PREV**
- **PRIMARY (R)**
- **PRIVILEGES**
- **PRIVILEGE_CHECKS_USER**
- **PROCEDURE (R)**
- **PROCESS**
- **PROCESSLIST**
- **PROFILE**
- **PROFILES**
- **PROXY**
- **PURGE (R)**

Q

- **QUALIFY (R)**
- **QUARTER**
- **QUERY**
- **QUICK**

R

- `RANDOM`
- `RANGE` (R)
- `RANK` (R)
- `READ` (R)
- `READS` (R)
- `READ_ONLY`
- `READ_WRITE` (R)
- `REAL` (R)
- `REBUILD`
- `RECOVER`
- `RECURSIVE` (R)
- `REDO_BUFFER_SIZE`
- `REDUNDANT`
- `REFERENCE`
- `REFERENCES` (R)
- `REGEXP` (R)
- `REGISTRATION`
- `RELAY`
- `RELAYLOG`
- `RELAY_LOG_FILE`
- `RELAY_LOG_POS`
- `RELAY_THREAD`
- `RELEASE` (R)
- `RELOAD`
- `REMOVE`
- `RENAME` (R)
- `REORGANIZE`
- `REPAIR`
- `REPEAT` (R)
- `REPEATABLE`
- `REPLACE` (R)
- `REPLICA`

- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE (R)`
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL (R)`
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT (R)`
- `RESUME`
- `RETAIN`
- `RETURN (R)`
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE (R)`
- `RIGHT (R)`
- `RLIKE (R)`
- `ROLE`
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`

- `ROUTINE`
 - `ROW (R)`
 - `ROWS (R)`
 - `ROW_COUNT`
 - `ROW_FORMAT`
 - `ROW_NUMBER (R)`
 - `RTREE`
- S**
- `S3`
 - `SAVEPOINT`
 - `SCHEDULE`
 - `SCHEMA (R)`
 - `SCHEMAS (R)`
 - `SCHEMA_NAME`
 - `SECOND`
 - `SECONDARY`
 - `SECONDARY_ENGINE`
 - `SECONDARY_ENGINE_ATTRIBUTE`
 - `SECONDARY_LOAD`
 - `SECONDARY_UNLOAD`
 - `SECOND_MICROSECOND (R)`
 - `SECURITY`
 - `SELECT (R)`
 - `SENSITIVE (R)`
 - `SEPARATOR (R)`
 - `SERIAL`
 - `SERIALIZABLE`
 - `SERVER`
 - `SESSION`
 - `SET (R)`
 - `SHARE`
 - `SHOW (R)`
 - `SHUTDOWN`

- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`

- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`

- **STARTING** (R)
- **STARTS**
- **STATS_AUTO_RECALC**
- **STATS_PERSISTENT**
- **STATS_SAMPLE_PAGES**
- **STATUS**
- **STOP**
- **STORAGE**
- **STORED** (R)
- **STRAIGHT_JOIN** (R)
- **STREAM**
- **STRING**
- **SUBCLASS_ORIGIN**
- **SUBJECT**
- **SUBPARTITION**
- **SUBPARTITIONS**
- **SUPER**
- **SUSPEND**
- **SWAPS**
- **SWITCHES**
- **SYSTEM** (R)

T

- **TABLE** (R)
- **TABLES**
- **TABLESAMPLE** (R)
- **TABLESPACE**
- **TABLE_CHECKSUM**
- **TABLE_NAME**
- **TEMPORARY**
- **TEMPTABLE**
- **TERMINATED** (R)
- **TEXT**
- **THAN**

- `THEN` (R)
- `THREAD_PRIORITY`
- `TIES`
- `TIME`
- `TIMESTAMP`
- `TIMESTAMPADD`
- `TIMESTAMPDIFF`
- `TINYBLOB` (R)
- `TINYINT` (R)
- `TINYTEXT` (R)
- `TLS`
- `TO` (R)
- `TRAILING` (R)
- `TRANSACTION`
- `TRIGGER` (R)
- `TRIGGERS`
- `TRUE` (R)
- `TRUNCATE`
- `TYPE`
- `TYPES`

U

- `UNBOUNDED`
- `UNCOMMITTED`
- `UNDEFINED`
- `UNDO` (R)
- `UNDOFILE`
- `UNDO_BUFFER_SIZE`
- `UNICODE`
- `UNINSTALL`
- `UNION` (R)
- `UNIQUE` (R)
- `UNKNOWN`
- `UNLOCK` (R)

- **UNREGISTER**

- **UNSIGNED** (R)

- **UNTIL**

- **UPDATE** (R)

- **UPGRADE**

- **URL**

- **USAGE** (R)

- **USE** (R)

- **USER**

- **USER_RESOURCES**

- **USE_FRM**

- **USING** (R)

- **UTC_DATE** (R)

- **UTC_TIME** (R)

- **UTC_TIMESTAMP** (R)

V

- **VALIDATION**

- **VALUE**

- **VALUES** (R)

- **VARBINARY** (R)

- **VARCHAR** (R)

- **VARCHARACTER** (R)

- **VARIABLES**

- **VARYING** (R)

- **VCPU**

- **VECTOR**

- **VIEW**

- **VIRTUAL** (R)

- **VISIBLE**

W

- **WAIT**

- **WARNINGS**

- **WEEK**

- `WEIGHT_STRING`

- `WHEN` (R)

- `WHERE` (R)

- `WHILE` (R)

- `WINDOW` (R)

- `WITH` (R)

- `WITHOUT`

- `WORK`

- `WRAPPER`

- `WRITE` (R)

X

- `X509`

- `XA`

- `XID`

- `XML`

- `XOR` (R)

Y

- `YEAR`

- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)

- `ZONE`

MySQL 9.0 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 9.0, compared to MySQL 8.4. Reserved keywords are marked with (R).

- `VECTOR`

MySQL 9.0 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 9.0, compared to MySQL 8.4. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 8.4-9.0.

7.8 Keywords and Reserved Words in MySQL 9.1

This section provides information about keywords and reserved words in MySQL 9.1.

- [MySQL 9.1 Keywords and Reserved Words](#)

- [MySQL 9.1 New Keywords and Reserved Words](#)
- [MySQL 9.1 Removed Keywords and Reserved Words](#)

MySQL 9.1 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 9.1, along with changes to individual words from version to version. Reserved keywords are marked with (R).

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)
- [ALL](#) (R)
- [ALTER](#) (R)
- [ALWAYS](#)
- [ANALYZE](#) (R)
- [AND](#) (R)
- [ANY](#)
- [ARRAY](#)
- [AS](#) (R)
- [ASC](#) (R)
- [ASCII](#)
- [ASENSITIVE](#) (R)
- [AT](#)
- [ATTRIBUTE](#)
- [AUTHENTICATION](#)
- [AUTO](#)
- [AUTOEXTEND_SIZE](#)

- `AUTO_INCREMENT`

- `AVG`

- `AVG_ROW_LENGTH`

B

- `BACKUP`

- `BEFORE (R)`

- `BEGIN`

- `BERNOULLI`

- `BETWEEN (R)`

- `BIGINT (R)`

- `BINARY (R)`

- `BINLOG`

- `BIT`

- `BLOB (R)`

- `BLOCK`

- `BOOL`

- `BOOLEAN`

- `BOTH (R)`

- `BTREE`

- `BUCKETS`

- `BULK`

- `BY (R)`

- `BYTE`

C

- `CACHE`

- `CALL (R)`

- `CASCADE (R)`

- `CASCADED`

- `CASE (R)`

- `CATALOG_NAME`

- `CHAIN`

- `CHALLENGE_RESPONSE`

- `CHANGE (R)`

- `CHANGED`
- `CHANNEL`
- `CHAR` (R)
- `CHARACTER` (R)
- `CHARSET`
- `CHECK` (R)
- `CHECKSUM`
- `CIPHER`
- `CLASS_ORIGIN`
- `CLIENT`
- `CLONE`
- `CLOSE`
- `COALESCE`
- `CODE`
- `COLLATE` (R)
- `COLLATION`
- `COLUMN` (R)
- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION` (R)
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT` (R)

- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE (R)`
- `CONVERT (R)`
- `CPU`
- `CREATE (R)`
- `CROSS (R)`
- `CUBE (R)`
- `CUME_DIST (R)`
- `CURRENT`
- `CURRENT_DATE (R)`
- `CURRENT_TIME (R)`
- `CURRENT_TIMESTAMP (R)`
- `CURRENT_USER (R)`
- `CURSOR (R)`
- `CURSOR_NAME`

D

- `DATA`
- `DATABASE (R)`
- `DATABASES (R)`
- `DATAFILE`
- `DATE`
- `DATETIME`
- `DAY`
- `DAY_HOUR (R)`
- `DAY_MICROSECOND (R)`
- `DAY_MINUTE (R)`
- `DAY_SECOND (R)`
- `DEALLOCATE`
- `DEC (R)`

- **DECIMAL** (R)
 - **DECLARE** (R)
 - **DEFAULT** (R)
 - **DEFAULT_AUTH**
 - **DEFINER**
 - **DEFINITION**
 - **DELAYED** (R)
 - **DELAY_KEY_WRITE**
 - **DELETE** (R)
 - **DENSE_RANK** (R)
 - **DESC** (R)
 - **DESCRIBE** (R)
 - **DESCRIPTION**
 - **DETERMINISTIC** (R)
 - **DIAGNOSTICS**
 - **DIRECTORY**
 - **DISABLE**
 - **DISCARD**
 - **DISK**
 - **DISTINCT** (R)
 - **DISTINCTROW** (R)
 - **DIV** (R)
 - **DO**
 - **DOUBLE** (R)
 - **DROP** (R)
 - **DUAL** (R)
 - **DUMPFILE**
 - **DUPLICATE**
 - **DYNAMIC**
- E
- **EACH** (R)
 - **ELSE** (R)
 - **ELSEIF** (R)

- `EMPTY` (R)
 - `ENABLE`
 - `ENCLOSED` (R)
 - `ENCRYPTION`
 - `END`
 - `ENDS`
 - `ENFORCED`
 - `ENGINE`
 - `ENGINES`
 - `ENGINE_ATTRIBUTE`
 - `ENUM`
 - `ERROR`
 - `ERRORS`
 - `ESCAPE`
 - `ESCAPED` (R)
 - `EVENT`
 - `EVENTS`
 - `EVERY`
 - `EXCEPT` (R)
 - `EXCHANGE`
 - `EXCLUDE`
 - `EXECUTE`
 - `EXISTS` (R)
 - `EXIT` (R)
 - `EXPANSION`
 - `EXPIRE`
 - `EXPLAIN` (R)
 - `EXPORT`
 - `EXTENDED`
 - `EXTENT_SIZE`
- F
- `FACTOR`
 - `FAILED_LOGIN_ATTEMPTS`

- **FALSE** (R)
- **FAST**
- **FAULTS**
- **FETCH** (R)
- **FIELDS**
- **FILE**
- **FILE_BLOCK_SIZE**
- **FILTER**
- **FINISH**
- **FIRST**
- **FIRST_VALUE** (R)
- **FIXED**
- **FLOAT** (R)
- **FLOAT4** (R)
- **FLOAT8** (R)
- **FLUSH**
- **FOLLOWING**
- **FOLLOWS**
- **FOR** (R)
- **FORCE** (R)
- **FOREIGN** (R)
- **FORMAT**
- **FOUND**
- **FROM** (R)
- **FULL**
- **FULLTEXT** (R)
- **FUNCTION** (R)

G

- **GENERAL**
- **GENERATE**
- **GENERATED** (R)
- **GEOMCOLLECTION**
- **GEOMETRY**

- `GEOMETRYCOLLECTION`
- `GET (R)`
- `GET_FORMAT`
- `GET_SOURCE_PUBLIC_KEY`
- `GLOBAL`
- `GRANT (R)`
- `GRANTS`
- `GROUP (R)`
- `GROUPING (R)`
- `GROUPS (R)`
- `GROUP_REPLICATION`
- `GTIDS`
- `GTID_ONLY`

H

- `HANDLER`
- `HASH`
- `HAVING (R)`
- `HELP`
- `HIGH_PRIORITY (R)`
- `HISTOGRAM`
- `HISTORY`
- `HOST`
- `HOSTS`
- `HOUR`
- `HOUR_MICROSECOND (R)`
- `HOUR_MINUTE (R)`
- `HOUR_SECOND (R)`

I

- `IDENTIFIED`
- `IF (R)`
- `IGNORE (R)`
- `IGNORE_SERVER_IDS`
- `IMPORT`

- `IN` (R)
- `INACTIVE`
- `INDEX` (R)
- `INDEXES`
- `INFILE` (R)
- `INITIAL`
- `INITIAL_SIZE`
- `INITIATE`
- `INNER` (R)
- `INOUT` (R)
- `INSENSITIVE` (R)
- `INSERT` (R)
- `INSERT_METHOD`
- `INSTALL`
- `INSTANCE`
- `INT` (R)
- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)

- `ISOLATION`

- `ISSUER`

- `ITERATE` (R)

J

- `JOIN` (R)

- `JSON`

- `JSON_TABLE` (R)

- `JSON_VALUE`

K

- `KEY` (R)

- `KEYRING`

- `KEYS` (R)

- `KEY_BLOCK_SIZE`

- `KILL` (R)

L

- `LAG` (R)

- `LANGUAGE`

- `LAST`

- `LAST_VALUE` (R)

- `LATERAL` (R)

- `LEAD` (R)

- `LEADING` (R)

- `LEAVE` (R)

- `LEAVES`

- `LEFT` (R)

- `LESS`

- `LEVEL`

- `LIKE` (R)

- `LIMIT` (R)

- `LINEAR` (R)

- `LINES` (R)

- `LINESTRING`

- `LIST`

- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- `MANUAL` (R)
- `MASTER`
- `MATCH` (R)
- `MAXVALUE` (R)
- `MAX_CONNECTIONS_PER_HOUR`
- `MAX_QUERIES_PER_HOUR`
- `MAX_ROWS`
- `MAX_SIZE`
- `MAX_UPDATES_PER_HOUR`
- `MAX_USER_CONNECTIONS`
- `MEDIUM`
- `MEDIUMBLOB` (R)
- `MEDIUMINT` (R)
- `MEDIUMTEXT` (R)
- `MEMBER`
- `MEMORY`
- `MERGE`

- MESSAGE_TEXT
- MICROSECOND
- MIDDLEINT (R)
- MIGRATE
- MINUTE
- MINUTE_MICROSECOND (R)
- MINUTE_SECOND (R)
- MIN_ROWS
- MOD (R)
- MODE
- MODIFIES (R)
- MODIFY
- MONTH
- MULTILINESTRING
- MULTIPOINT
- MULTIPOLYGON
- MUTEX
- MYSQL_ERRNO

N

- NAME
- NAMES
- NATIONAL
- NATURAL (R)
- NCHAR
- NDB
- NDBCLUSTER
- NESTED
- NETWORK_NAMESPACE
- NEVER
- NEW
- NEXT
- NO
- NODEGROUP

- **NONE**
 - **NOT** (R)
 - **NOWAIT**
 - **NO_WAIT**
 - **NO_WRITE_TO_BINLOG** (R)
 - **NTH_VALUE** (R)
 - **NTILE** (R)
 - **NULL** (R)
 - **NULLS**
 - **NUMBER**
 - **NUMERIC** (R)
 - **NVARCHAR**
- O
- **OF** (R)
 - **OFF**
 - **OFFSET**
 - **OJ**
 - **OLD**
 - **ON** (R)
 - **ONE**
 - **ONLY**
 - **OPEN**
 - **OPTIMIZE** (R)
 - **OPTIMIZER_COSTS** (R)
 - **OPTION** (R)
 - **OPTIONAL**
 - **OPTIONALLY** (R)
 - **OPTIONS**
 - **OR** (R)
 - **ORDER** (R)
 - **ORDINALITY**
 - **ORGANIZATION**
 - **OTHERS**

- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION` (R)
- `PARTITIONING`
- `PARTITIONS`
- `PASSWORD`
- `PASSWORD_LOCK_TIME`
- `PATH`
- `PERCENT_RANK` (R)
- `PERSIST`
- `PERSIST_ONLY`
- `PHASE`
- `PLUGIN`
- `PLUGINS`
- `PLUGIN_DIR`
- `POINT`
- `POLYGON`
- `PORT`
- `PRECEDES`
- `PRECEDING`
- `PRECISION` (R)
- `PREPARE`
- `PRESERVE`

- [PREV](#)
- [PRIMARY \(R\)](#)
- [PRIVILEGES](#)
- [PRIVILEGE_CHECKS_USER](#)
- [PROCEDURE \(R\)](#)
- [PROCESS](#)
- [PROCESSLIST](#)
- [PROFILE](#)
- [PROFILES](#)
- [PROXY](#)
- [PURGE \(R\)](#)

Q

- [QUALIFY \(R\)](#)
- [QUARTER](#)
- [QUERY](#)
- [QUICK](#)

R

- [RANDOM](#)
- [RANGE \(R\)](#)
- [RANK \(R\)](#)
- [READ \(R\)](#)
- [READS \(R\)](#)
- [READ_ONLY](#)
- [READ_WRITE \(R\)](#)
- [REAL \(R\)](#)
- [REBUILD](#)
- [RECOVER](#)
- [RECURSIVE \(R\)](#)
- [REDO_BUFFER_SIZE](#)
- [REDUNDANT](#)
- [REFERENCE](#)
- [REFERENCES \(R\)](#)
- [REGEXP \(R\)](#)

- `REGISTRATION`
- `RELAY`
- `RELAYLOG`
- `RELAY_LOG_FILE`
- `RELAY_LOG_POS`
- `RELAY_THREAD`
- `RELEASE (R)`
- `RELOAD`
- `REMOVE`
- `RENAME (R)`
- `REORGANIZE`
- `REPAIR`
- `REPEAT (R)`
- `REPEATABLE`
- `REPLACE (R)`
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE (R)`
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL (R)`
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`

- `RESTRICT` (R)
- `RESUME`
- `RETAIN`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`
- `ROLLBACK`
- `ROLLUP`
- `ROTATE`
- `ROUTINE`
- `ROW` (R)
- `ROWS` (R)
- `ROW_COUNT`
- `ROW_FORMAT`
- `ROW_NUMBER` (R)
- `RTREE`

S

- `S3`
- `SAVEPOINT`
- `SCHEDULE`
- `SCHEMA` (R)
- `SCHEMAS` (R)
- `SCHEMA_NAME`
- `SECOND`
- `SECONDARY`
- `SECONDARY_ENGINE`

- `SECONDARY_ENGINE_ATTRIBUTE`
- `SECONDARY_LOAD`
- `SECONDARY_UNLOAD`
- `SECOND_MICROSECOND` (R)
- `SECURITY`
- `SELECT` (R)
- `SENSITIVE` (R)
- `SEPARATOR` (R)
- `SERIAL`
- `SERIALIZABLE`
- `SERVER`
- `SESSION`
- `SET` (R)
- `SHARE`
- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`

- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`
- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`

- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)
- `STACKED`
- `START`
- `STARTING` (R)
- `STARTS`
- `STATS_AUTO_RECALC`
- `STATS_PERSISTENT`
- `STATS_SAMPLE_PAGES`
- `STATUS`
- `STOP`
- `STORAGE`
- `STORED` (R)
- `STRAIGHT_JOIN` (R)
- `STREAM`
- `STRING`
- `SUBCLASS_ORIGIN`
- `SUBJECT`
- `SUBPARTITION`
- `SUBPARTITIONS`
- `SUPER`

- [SUSPEND](#)
- [SWAPS](#)
- [SWITCHES](#)
- [SYSTEM](#) (R)

T

- [TABLE](#) (R)
- [TABLES](#)
- [TABLESAMPLE](#) (R)
- [TABLESPACE](#)
- [TABLE_CHECKSUM](#)
- [TABLE_NAME](#)
- [TEMPORARY](#)
- [TEMPTABLE](#)
- [TERMINATED](#) (R)
- [TEXT](#)
- [THAN](#)
- [THEN](#) (R)
- [THREAD_PRIORITY](#)
- [TIES](#)
- [TIME](#)
- [TIMESTAMP](#)
- [TIMESTAMPADD](#)
- [TIMESTAMPDIFF](#)
- [TINYBLOB](#) (R)
- [TINYINT](#) (R)
- [TINYTEXT](#) (R)
- [TLS](#)
- [TO](#) (R)
- [TRAILING](#) (R)
- [TRANSACTION](#)
- [TRIGGER](#) (R)
- [TRIGGERS](#)
- [TRUE](#) (R)

- `TRUNCATE`

- `TYPE`

- `TYPES`

U

- `UNBOUNDED`

- `UNCOMMITTED`

- `UNDEFINED`

- `UNDO (R)`

- `UNDOFILE`

- `UNDO_BUFFER_SIZE`

- `UNICODE`

- `UNINSTALL`

- `UNION (R)`

- `UNIQUE (R)`

- `UNKNOWN`

- `UNLOCK (R)`

- `UNREGISTER`

- `UNSIGNED (R)`

- `UNTIL`

- `UPDATE (R)`

- `UPGRADE`

- `URL`

- `USAGE (R)`

- `USE (R)`

- `USER`

- `USER_RESOURCES`

- `USE_FRM`

- `USING (R)`

- `UTC_DATE (R)`

- `UTC_TIME (R)`

- `UTC_TIMESTAMP (R)`

V

- `VALIDATION`

- `VALUE`
- `VALUES` (R)
- `VARBINARY` (R)
- `VARCHAR` (R)
- `VARCHARACTER` (R)
- `VARIABLES`
- `VARYING` (R)
- `VCPU`
- `VECTOR`
- `VIEW`
- `VIRTUAL` (R)
- `VISIBLE`

W

- `WAIT`
- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- [YEAR](#)
- [YEAR_MONTH](#) (R)

Z

- [ZEROFILL](#) (R)
- [ZONE](#)

MySQL 9.1 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 9.1, compared to MySQL 9.0. Reserved keywords are marked with (R).

There are no keywords added between MySQL 9.0-9.1.

MySQL 9.1 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 9.1, compared to MySQL 9.0. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 9.0-9.1.

7.9 Keywords and Reserved Words in MySQL 9.2

This section provides information about keywords and reserved words in MySQL 9.2.

- [MySQL 9.2 Keywords and Reserved Words](#)
- [MySQL 9.2 New Keywords and Reserved Words](#)
- [MySQL 9.2 Removed Keywords and Reserved Words](#)

MySQL 9.2 Keywords and Reserved Words

The following list shows the keywords and reserved words in MySQL 9.2, along with changes to individual words from version to version. Reserved keywords are marked with (R).

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- [ACCESSIBLE](#) (R)
- [ACCOUNT](#)
- [ACTION](#)
- [ACTIVE](#)
- [ADD](#) (R)
- [ADMIN](#)
- [AFTER](#)
- [AGAINST](#)
- [AGGREGATE](#)
- [ALGORITHM](#)

- [ALL](#) (R)
 - [ALTER](#) (R)
 - [ALWAYS](#)
 - [ANALYZE](#) (R)
 - [AND](#) (R)
 - [ANY](#)
 - [ARRAY](#)
 - [AS](#) (R)
 - [ASC](#) (R)
 - [ASCII](#)
 - [ASENSITIVE](#) (R)
 - [AT](#)
 - [ATTRIBUTE](#)
 - [AUTHENTICATION](#)
 - [AUTO](#)
 - [AUTOEXTEND_SIZE](#)
 - [AUTO_INCREMENT](#)
 - [AVG](#)
 - [AVG_ROW_LENGTH](#)
- B
- [BACKUP](#)
 - [BEFORE](#) (R)
 - [BEGIN](#)
 - [BERNOULLI](#)
 - [BETWEEN](#) (R)
 - [BIGINT](#) (R)
 - [BINARY](#) (R)
 - [BINLOG](#)
 - [BIT](#)
 - [BLOB](#) (R)
 - [BLOCK](#)
 - [BOOL](#)
 - [BOOLEAN](#)

- `BOTH` (R)

- `BTREE`

- `BUCKETS`

- `BULK`

- `BY` (R)

- `BYTE`

C

- `CACHE`

- `CALL` (R)

- `CASCADE` (R)

- `CASCDED`

- `CASE` (R)

- `CATALOG_NAME`

- `CHAIN`

- `CHALLENGE_RESPONSE`

- `CHANGE` (R)

- `CHANGED`

- `CHANNEL`

- `CHAR` (R)

- `CHARACTER` (R)

- `CHARSET`

- `CHECK` (R)

- `CHECKSUM`

- `CIPHER`

- `CLASS_ORIGIN`

- `CLIENT`

- `CLONE`

- `CLOSE`

- `COALESCE`

- `CODE`

- `COLLATE` (R)

- `COLLATION`

- `COLUMN` (R)

- `COLUMNS`
- `COLUMN_FORMAT`
- `COLUMN_NAME`
- `COMMENT`
- `COMMIT`
- `COMMITTED`
- `COMPACT`
- `COMPLETION`
- `COMPONENT`
- `COMPRESSED`
- `COMPRESSION`
- `CONCURRENT`
- `CONDITION (R)`
- `CONNECTION`
- `CONSISTENT`
- `CONSTRAINT (R)`
- `CONSTRAINT_CATALOG`
- `CONSTRAINT_NAME`
- `CONSTRAINT_SCHEMA`
- `CONTAINS`
- `CONTEXT`
- `CONTINUE (R)`
- `CONVERT (R)`
- `CPU`
- `CREATE (R)`
- `CROSS (R)`
- `CUBE (R)`
- `CUME_DIST (R)`
- `CURRENT`
- `CURRENT_DATE (R)`
- `CURRENT_TIME (R)`
- `CURRENT_TIMESTAMP (R)`
- `CURRENT_USER (R)`

- `CURSOR` (R)

- `CURSOR_NAME`

D

- `DATA`

- `DATABASE` (R)

- `DATABASES` (R)

- `DATAFILE`

- `DATE`

- `DATETIME`

- `DAY`

- `DAY_HOUR` (R)

- `DAY_MICROSECOND` (R)

- `DAY_MINUTE` (R)

- `DAY_SECOND` (R)

- `DEALLOCATE`

- `DEC` (R)

- `DECIMAL` (R)

- `DECLARE` (R)

- `DEFAULT` (R)

- `DEFAULT_AUTH`

- `DEFINER`

- `DEFINITION`

- `DELAYED` (R)

- `DELAY_KEY_WRITE`

- `DELETE` (R)

- `DENSE_RANK` (R)

- `DESC` (R)

- `DESCRIBE` (R)

- `DESCRIPTION`

- `DETERMINISTIC` (R)

- `DIAGNOSTICS`

- `DIRECTORY`

- `DISABLE`

- `DISCARD`
 - `DISK`
 - `DISTINCT` (R)
 - `DISTINCTROW` (R)
 - `DIV` (R)
 - `DO`
 - `DOUBLE` (R)
 - `DROP` (R)
 - `DUAL` (R)
 - `DUMPFILE`
 - `DUPLICATE`
 - `DYNAMIC`
- E
- `EACH` (R)
 - `ELSE` (R)
 - `ELSEIF` (R)
 - `EMPTY` (R)
 - `ENABLE`
 - `ENCLOSED` (R)
 - `ENCRYPTION`
 - `END`
 - `ENDS`
 - `ENFORCED`
 - `ENGINE`
 - `ENGINES`
 - `ENGINE_ATTRIBUTE`
 - `ENUM`
 - `ERROR`
 - `ERRORS`
 - `ESCAPE`
 - `ESCAPED` (R)
 - `EVENT`
 - `EVENTS`

- `EVERY`
- `EXCEPT (R)`
- `EXCHANGE`
- `EXCLUDE`
- `EXECUTE`
- `EXISTS (R)`
- `EXIT (R)`
- `EXPANSION`
- `EXPIRE`
- `EXPLAIN (R)`
- `EXPORT`
- `EXTENDED`
- `EXTENT_SIZE`

F

- `FACTOR`
- `FAILED_LOGIN_ATTEMPTS`
- `FALSE (R)`
- `FAST`
- `FAULTS`
- `FETCH (R)`
- `FIELDS`
- `FILE`
- `FILE_BLOCK_SIZE`
- `FILTER`
- `FINISH`
- `FIRST`
- `FIRST_VALUE (R)`
- `FIXED`
- `FLOAT (R)`
- `FLOAT4 (R)`
- `FLOAT8 (R)`
- `FLUSH`
- `FOLLOWING`

- **FOLLOW**
- **FOR** (R)
- **FORCE** (R)
- **FOREIGN** (R)
- **FORMAT**
- **FOUND**
- **FROM** (R)
- **FULL**
- **FULLTEXT** (R)
- **FUNCTION** (R)

G

- **GENERAL**
- **GENERATE**
- **GENERATED** (R)
- **GEOMCOLLECTION**
- **GEOMETRY**
- **GEOMETRYCOLLECTION**
- **GET** (R)
- **GET_FORMAT**
- **GET_SOURCE_PUBLIC_KEY**
- **GLOBAL**
- **GRANT** (R)
- **GRANTS**
- **GROUP** (R)
- **GROUPING** (R)
- **GROUPS** (R)
- **GROUP_REPLICATION**
- **GTIDS**
- **GTID_ONLY**

H

- **HANDLER**
- **HASH**
- **HAVING** (R)

- `HEADER`
 - `HELP`
 - `HIGH_PRIORITY` (R)
 - `HISTOGRAM`
 - `HISTORY`
 - `HOST`
 - `HOSTS`
 - `HOUR`
 - `HOUR_MICROSECOND` (R)
 - `HOUR_MINUTE` (R)
 - `HOUR_SECOND` (R)
- |
- `IDENTIFIED`
 - `IF` (R)
 - `IGNORE` (R)
 - `IGNORE_SERVER_IDS`
 - `IMPORT`
 - `IN` (R)
 - `INACTIVE`
 - `INDEX` (R)
 - `INDEXES`
 - `INFILE` (R)
 - `INITIAL`
 - `INITIAL_SIZE`
 - `INITIATE`
 - `INNER` (R)
 - `INOUT` (R)
 - `INSENSITIVE` (R)
 - `INSERT` (R)
 - `INSERT_METHOD`
 - `INSTALL`
 - `INSTANCE`
 - `INT` (R)

- `INT1` (R)
- `INT2` (R)
- `INT3` (R)
- `INT4` (R)
- `INT8` (R)
- `INTEGER` (R)
- `INTERSECT` (R)
- `INTERVAL` (R)
- `INTO` (R)
- `INVISIBLE`
- `INVOKER`
- `IO`
- `IO_AFTER_GTIDS` (R)
- `IO_BEFORE_GTIDS` (R)
- `IO_THREAD`
- `IPC`
- `IS` (R)
- `ISOLATION`
- `ISSUER`
- `ITERATE` (R)

J

- `JOIN` (R)
- `JSON`
- `JSON_TABLE` (R)
- `JSON_VALUE`

K

- `KEY` (R)
- `KEYRING`
- `KEYS` (R)
- `KEY_BLOCK_SIZE`
- `KILL` (R)

L

- `LAG` (R)

- `LANGUAGE`
- `LAST`
- `LAST_VALUE` (R)
- `LATERAL` (R)
- `LEAD` (R)
- `LEADING` (R)
- `LEAVE` (R)
- `LEAVES`
- `LEFT` (R)
- `LESS`
- `LEVEL`
- `LIBRARY` (R)
- `LIKE` (R)
- `LIMIT` (R)
- `LINEAR` (R)
- `LINES` (R)
- `LINESTRING`
- `LIST`
- `LOAD` (R)
- `LOCAL`
- `LOCALTIME` (R)
- `LOCALTIMESTAMP` (R)
- `LOCK` (R)
- `LOCKED`
- `LOCKS`
- `LOG`
- `LOGFILE`
- `LOGS`
- `LONG` (R)
- `LONGBLOB` (R)
- `LONGTEXT` (R)
- `LOOP` (R)
- `LOW_PRIORITY` (R)

M

- [MANUAL](#) (R)
- [MASTER](#)
- [MATCH](#) (R)
- [MAXVALUE](#) (R)
- [MAX_CONNECTIONS_PER_HOUR](#)
- [MAX_QUERIES_PER_HOUR](#)
- [MAX_ROWS](#)
- [MAX_SIZE](#)
- [MAX_UPDATES_PER_HOUR](#)
- [MAX_USER_CONNECTIONS](#)
- [MEDIUM](#)
- [MEDIUMBLOB](#) (R)
- [MEDIUMINT](#) (R)
- [MEDIUMTEXT](#) (R)
- [MEMBER](#)
- [MEMORY](#)
- [MERGE](#)
- [MESSAGE_TEXT](#)
- [MICROSECOND](#)
- [MIDDLEINT](#) (R)
- [MIGRATE](#)
- [MINUTE](#)
- [MINUTE_MICROSECOND](#) (R)
- [MINUTE_SECOND](#) (R)
- [MIN_ROWS](#)
- [MOD](#) (R)
- [MODE](#)
- [MODIFIES](#) (R)
- [MODIFY](#)
- [MONTH](#)
- [MULTILINESTRING](#)
- [MULTIPOINT](#)

- `MULTIPOLYGON`
- `MUTEX`
- `MYSQL_ERRNO`

N

- `NAME`
- `NAMES`
- `NATIONAL`
- `NATURAL` (R)
- `NCHAR`
- `NDB`
- `NDBCLUSTER`
- `NESTED`
- `NETWORK_NAMESPACE`
- `NEVER`
- `NEW`
- `NEXT`
- `NO`
- `NODEGROUP`
- `NONE`
- `NOT` (R)
- `NOWAIT`
- `NO_WAIT`
- `NO_WRITE_TO_BINLOG` (R)
- `NTH_VALUE` (R)
- `NTILE` (R)
- `NULL` (R)
- `NULLS`
- `NUMBER`
- `NUMERIC` (R)
- `NVARCHAR`

O

- `OF` (R)
- `OFF`

- `OFFSET`
- `OJ`
- `OLD`
- `ON` (R)
- `ONE`
- `ONLY`
- `OPEN`
- `OPTIMIZE` (R)
- `OPTIMIZER_COSTS` (R)
- `OPTION` (R)
- `OPTIONAL`
- `OPTIONALLY` (R)
- `OPTIONS`
- `OR` (R)
- `ORDER` (R)
- `ORDINALITY`
- `ORGANIZATION`
- `OTHERS`
- `OUT` (R)
- `OUTER` (R)
- `OUTFILE` (R)
- `OVER` (R)
- `OWNER`

P

- `PACK_KEYS`
- `PAGE`
- `PARALLEL` (R)
- `PARAMETERS`
- `PARSER`
- `PARSE_TREE`
- `PARTIAL`
- `PARTITION` (R)
- `PARTITIONING`

- PARTITIONS
- PASSWORD
- PASSWORD_LOCK_TIME
- PATH
- PERCENT_RANK (R)
- PERSIST
- PERSIST_ONLY
- PHASE
- PLUGIN
- PLUGINS
- PLUGIN_DIR
- POINT
- POLYGON
- PORT
- PRECEDES
- PRECEDING
- PRECISION (R)
- PREPARE
- PRESERVE
- PREV
- PRIMARY (R)
- PRIVILEGES
- PRIVILEGE_CHECKS_USER
- PROCEDURE (R)
- PROCESS
- PROCESSLIST
- PROFILE
- PROFILES
- PROXY
- PURGE (R)

Q

- QUALIFY (R)
- QUARTER

- [QUERY](#)
- [QUICK](#)

R

- [RANDOM](#)
- [RANGE \(R\)](#)
- [RANK \(R\)](#)
- [READ \(R\)](#)
- [READS \(R\)](#)
- [READ_ONLY](#)
- [READ_WRITE \(R\)](#)
- [REAL \(R\)](#)
- [REBUILD](#)
- [RECOVER](#)
- [RECURSIVE \(R\)](#)
- [REDO_BUFFER_SIZE](#)
- [REDUNDANT](#)
- [REFERENCE](#)
- [REFERENCES \(R\)](#)
- [REGEXP \(R\)](#)
- [REGISTRATION](#)
- [RELAY](#)
- [RELAYLOG](#)
- [RELAY_LOG_FILE](#)
- [RELAY_LOG_POS](#)
- [RELAY_THREAD](#)
- [RELEASE \(R\)](#)
- [RELOAD](#)
- [REMOVE](#)
- [RENAME \(R\)](#)
- [REORGANIZE](#)
- [REPAIR](#)
- [REPEAT \(R\)](#)
- [REPEATABLE](#)

- `REPLACE` (R)
- `REPLICA`
- `REPLICAS`
- `REPLICATE_DO_DB`
- `REPLICATE_DO_TABLE`
- `REPLICATE_IGNORE_DB`
- `REPLICATE_IGNORE_TABLE`
- `REPLICATE_REWRITE_DB`
- `REPLICATE_WILD_DO_TABLE`
- `REPLICATE_WILD_IGNORE_TABLE`
- `REPLICATION`
- `REQUIRE` (R)
- `REQUIRE_ROW_FORMAT`
- `RESET`
- `RESIGNAL` (R)
- `RESOURCE`
- `RESPECT`
- `RESTART`
- `RESTORE`
- `RESTRICT` (R)
- `RESUME`
- `RETAIN`
- `RETURN` (R)
- `RETURNED_SQLSTATE`
- `RETURNING`
- `RETURNS`
- `REUSE`
- `REVERSE`
- `REVOKE` (R)
- `RIGHT` (R)
- `RLIKE` (R)
- `ROLE`
- `ROLLBACK`

- `ROLLUP`
 - `ROTATE`
 - `ROUTINE`
 - `ROW` (R)
 - `ROWS` (R)
 - `ROW_COUNT`
 - `ROW_FORMAT`
 - `ROW_NUMBER` (R)
 - `RTREE`
- S
- `S3`
 - `SAVEPOINT`
 - `SCHEDULE`
 - `SCHEMA` (R)
 - `SCHEMAS` (R)
 - `SCHEMA_NAME`
 - `SECOND`
 - `SECONDARY`
 - `SECONDARY_ENGINE`
 - `SECONDARY_ENGINE_ATTRIBUTE`
 - `SECONDARY_LOAD`
 - `SECONDARY_UNLOAD`
 - `SECOND_MICROSECOND` (R)
 - `SECURITY`
 - `SELECT` (R)
 - `SENSITIVE` (R)
 - `SEPARATOR` (R)
 - `SERIAL`
 - `SERIALIZABLE`
 - `SERVER`
 - `SESSION`
 - `SET` (R)
 - `SHARE`

- `SHOW` (R)
- `SHUTDOWN`
- `SIGNAL` (R)
- `SIGNED`
- `SIMPLE`
- `SKIP`
- `SLAVE`
- `SLOW`
- `SMALLINT` (R)
- `SNAPSHOT`
- `SOCKET`
- `SOME`
- `SONAME`
- `SOUNDS`
- `SOURCE`
- `SOURCE_AUTO_POSITION`
- `SOURCE_BIND`
- `SOURCE_COMPRESSION_ALGORITHMS`
- `SOURCE_CONNECT_RETRY`
- `SOURCE_DELAY`
- `SOURCE_HEARTBEAT_PERIOD`
- `SOURCE_HOST`
- `SOURCE_LOG_FILE`
- `SOURCE_LOG_POS`
- `SOURCE_PASSWORD`
- `SOURCE_PORT`
- `SOURCE_PUBLIC_KEY_PATH`
- `SOURCE_RETRY_COUNT`
- `SOURCE_SSL`
- `SOURCE_SSL_CA`
- `SOURCE_SSL_CAPATH`
- `SOURCE_SSL_CERT`
- `SOURCE_SSL_CIPHER`

- `SOURCE_SSL_CRL`
- `SOURCE_SSL_CRLPATH`
- `SOURCE_SSL_KEY`
- `SOURCE_SSL_VERIFY_SERVER_CERT`
- `SOURCE_TLS_CIPHERSUITES`
- `SOURCE_TLS_VERSION`
- `SOURCE_USER`
- `SOURCE_ZSTD_COMPRESSION_LEVEL`
- `SPATIAL` (R)
- `SPECIFIC` (R)
- `SQL` (R)
- `SQLEXCEPTION` (R)
- `SQLSTATE` (R)
- `SQLWARNING` (R)
- `SQL_AFTER_GTIDS`
- `SQL_AFTER_MTS_GAPS`
- `SQL_BEFORE_GTIDS`
- `SQL_BIG_RESULT` (R)
- `SQL_BUFFER_RESULT`
- `SQL_CALC_FOUND_ROWS` (R)
- `SQL_NO_CACHE`
- `SQL_SMALL_RESULT` (R)
- `SQL_THREAD`
- `SQL_TSI_DAY`
- `SQL_TSI_HOUR`
- `SQL_TSI_MINUTE`
- `SQL_TSI_MONTH`
- `SQL_TSI_QUARTER`
- `SQL_TSI_SECOND`
- `SQL_TSI_WEEK`
- `SQL_TSI_YEAR`
- `SRID`
- `SSL` (R)

- STACKED
- START
- STARTING (R)
- STARTS
- STATS_AUTO_RECALC
- STATS_PERSISTENT
- STATS_SAMPLE_PAGES
- STATUS
- STOP
- STORAGE
- STORED (R)
- STRAIGHT_JOIN (R)
- STREAM
- STRING
- SUBCLASS_ORIGIN
- SUBJECT
- SUBPARTITION
- SUBPARTITIONS
- SUPER
- SUSPEND
- SWAPS
- SWITCHES
- SYSTEM (R)

T

- TABLE (R)
- TABLES
- TABLESAMPLE (R)
- TABLESPACE
- TABLE_CHECKSUM
- TABLE_NAME
- TEMPORARY
- TEMPTABLE
- TERMINATED (R)

- `TEXT`
 - `THAN`
 - `THEN` (R)
 - `THREAD_PRIORITY`
 - `TIES`
 - `TIME`
 - `TIMESTAMP`
 - `TIMESTAMPADD`
 - `TIMESTAMPDIFF`
 - `TINYBLOB` (R)
 - `TINYINT` (R)
 - `TINYTEXT` (R)
 - `TLS`
 - `TO` (R)
 - `TRAILING` (R)
 - `TRANSACTION`
 - `TRIGGER` (R)
 - `TRIGGERS`
 - `TRUE` (R)
 - `TRUNCATE`
 - `TYPE`
 - `TYPES`
- U
- `UNBOUNDED`
 - `UNCOMMITTED`
 - `UNDEFINED`
 - `UNDO` (R)
 - `UNDOFILE`
 - `UNDO_BUFFER_SIZE`
 - `UNICODE`
 - `UNINSTALL`
 - `UNION` (R)
 - `UNIQUE` (R)

- UNKNOWN
- UNLOCK (R)
- UNREGISTER
- UNSIGNED (R)
- UNTIL
- UPDATE (R)
- UPGRADE
- URL
- USAGE (R)
- USE (R)
- USER
- USER_RESOURCES
- USE_FRM
- USING (R)
- UTC_DATE (R)
- UTC_TIME (R)
- UTC_TIMESTAMP (R)

V

- VALIDATION
- VALUE
- VALUES (R)
- VARBINARY (R)
- VARCHAR (R)
- VARCHARACTER (R)
- VARIABLES
- VARYING (R)
- VCPU
- VECTOR
- VIEW
- VIRTUAL (R)
- VISIBLE

W

- WAIT

- `WARNINGS`
- `WEEK`
- `WEIGHT_STRING`
- `WHEN` (R)
- `WHERE` (R)
- `WHILE` (R)
- `WINDOW` (R)
- `WITH` (R)
- `WITHOUT`
- `WORK`
- `WRAPPER`
- `WRITE` (R)

X

- `X509`
- `XA`
- `XID`
- `XML`
- `XOR` (R)

Y

- `YEAR`
- `YEAR_MONTH` (R)

Z

- `ZEROFILL` (R)
- `ZONE`

MySQL 9.2 New Keywords and Reserved Words

The following list shows the keywords and reserved words that are added in MySQL 9.2, compared to MySQL 9.1. Reserved keywords are marked with (R).

- `HEADER`
- `LIBRARY` (R)
- `PARAMETERS`

MySQL 9.2 Removed Keywords and Reserved Words

The following list shows the keywords and reserved words that are removed in MySQL 9.2, compared to MySQL 9.1. Reserved keywords are marked with (R).

There are no keywords removed between MySQL 9.1-9.2.

Chapter 8 Build (Configuration) Options

The following table details the `CMake` configuration options available when building MySQL Server from source. The table contains these columns:

- **Name:** The item name.
- **Introduced:** The version or versions in which the item was introduced. This column appears only if it applies to some item.
- **Removed:** The version or versions in which the item was removed. This column appears only if it applies to some item.
- Whether the item is available in the corresponding MySQL Server series. The indicator links to the item description in the main reference manual if more information is available.

An item has a row in the table if it ever existed in any series shown in the table. The value displayed for a given series indicates item availability in that series:

- Yes: The item is available in all production-ready General Availability (GA) versions. For a series that has not reached GA status, Yes indicates that the item is available in the most recently released pre-GA version.
- Some: The item is available in some GA versions. This is the case if the item was introduced after the first GA version, or removed from some GA version.
- Blank: The item is not available in any GA version. Either it does not exist in the series, or existed in pre-GA versions but was removed before the series reached GA status.

Table 8.1 CMake Option Reference

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
ADD_GD	8.0.18	EX		Some	Yes						
BUILD_CONFIG		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BUNDLE_RUNTIME_LIBRARIES	8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CMAKE_BUILD_TYPE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CMAKE_CXX_FLAGS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CMAKE_C_FLAGS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CMAKE_INSTALL_PREFIX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPILE_COMMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPILE_COMMENT_SERVER	8.0.14		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPRESS_BUG_SECTIONS	8.0.22		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPACK_MONOLITHIC_INSTALL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEFAULT_CHARSET	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEFAULT_COLLATION	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_PERFSCHEMA										Yes	Yes
DISABLE_COND	5.7.31		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_DATA_LOCK			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_ERROR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_FILE	5.7.31		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_IDLE	5.7.31		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_MEMORY	5.7.31		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
DISABLE_5.7.3I_METADATA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_MUTEX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_PS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_RWLOCK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_SOCKET	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_SP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_STAGE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_STATEMENT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_STATEMENT_DIGEST	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_TABLE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_THREAD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_5.7.3I_TRANSACTION	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DISABLE_SHARE	8.0.18		Some								
DOWNLOAD_5.7.500ST	Yes	Yes	Yes	Yes							
DOWNLOAD_5.7.600ST_TIMEOUT	Yes	Yes	Yes	Yes							
ENABLED_LOCAL_INFILE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLED_PROFILING	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_DEBUG_5.7.1C											
8.0.1											
ENABLE_DOWNLOAD	8.0.26	Yes	Some								
ENABLE_DTRACE	8.0.1	Yes									
ENABLE_8.0.11_EXPERIMENTAL_SYSVARS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_GCOV		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ENABLE_GPROF		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_8.0.33_RED_OUTPUT		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_8.0.14_RACE_BUILD		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORCE_5.7.5_SUPPORTED_CVES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FPROFILE_8.0.19_GENERATE		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FPROFILE_8.0.19_E		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HAVE_PSI_MEMORY_INTERFACE	8.0.26	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGNORE_AIO_CHECK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INNODB_5.7.4E_5.7.5C_REF_COUNT											
INSTALL_BINDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_DOCDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_DOCREADMEDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_INCLUDEDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_INFODIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_LAYOUT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_LIBDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_MANDIR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SQLKEYRING	Some	Yes	Yes	Yes	Yes	Yes	Yes				

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
INSTALL MYSQLSHARED	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL MYSQLTESTDIR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL 5.7.9 CONFIGDIR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_PLUGINDIR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL 8.0.18V LIBDIR		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SBINDIR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SCRIPTDIR	Yes										
INSTALL 5.7.6 SECURE_FILE	Yes	IVD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL 5.7.8 SECURE_FILE	Yes	IV_EMBEDDEDDIR									
INSTALL_SHAREDIR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SQLB5.7.8 DIR											
INSTALL_STATIC_LIBRARIES	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
INSTALL_SUPPORTFILE	Yes	R	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LINK_R8.0.0IMIZE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LINK_R8.0.0IMIZE_SEED			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX_IN5.7.1 KIS			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEMCACHED_HOME	5.7.33, 8.0.23		Some	Some							
MSVC_C8.0.33 CK				Some	Yes						
MUTEX_5.7.2			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQLX5.7.17 PORT			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQLX5.7.15 ADDR			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_DATADIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_MAINTAINER_MODE	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_PROJECT_NAME	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_TCP_PORT	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MYSQL_UNIX_ADDR	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NDB_UT8.0.22 INK_DYNAMIC			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ODBC_INCLUDES			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ODBC_LIB_DIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIMI8.0.34 NITIZER_BUILDS			Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REPROD5.7.19 E_BUILD	8.0.11		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SHOW_S8.0.30 PRESSED_COMPILER	8.0.31	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SUNPRO5.7.5 LIBRARY	Yes										
SYSCONFDIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEM5.7.6 D_DIR			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SYSTEM5.7.6 SERVICE_NAME			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TMPDIR5.7.4			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USE_LD_GOLD	8.0.31		Some								

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
USE_LD	8.0.16		Some	Yes	Yes						
WIN_DEBUG_NO_INLINE	5.7.6	5.7.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITHOUT_SERVER		5.7.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITHOUT_xxx_STORAGE		5.7.6	Yes	GINE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ANI	8.0.11		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ASAN	8.0.11	5.7.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_ASAN_SCOPE	8.0.4	5.7.21	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION_CLIENT	8.0.26	5.7.19	Some	GIN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION	8.0.26	5.7.19	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION	8.0.2	5.7.19	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_BOGUS	5.7.5		Yes	Yes	Yes	Yes					
WITH_BOGUS_ID	5.7.31		Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_BUNDLED	5.7.33	5.7.33	Some	Some							
WITH_BUNDLED	5.7.33	5.7.33	Some	Some							
WITH_CLASSPATH		5.7.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_CLOB_PROTOCOL	5.7.2	5.7.2	Yes	RAC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_CLOB	5.7.19	5.7.19	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEBUG		5.7.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_COMPILER	5.7.2	5.7.2	Yes	OPT	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_JAVA	5.7.22	5.7.22	Yes	SET	Some						
WITH_DEFAULT_PERENTITLEMENT	5.7.30	5.7.30	Some	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EMBEDDED_LINE	5.7.2	5.7.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EMBEDDED_SERVER		5.7.4	Yes								
WITH_EMBEDDED_SHARED_LIBRARY	5.7.4		Yes	LIBRARY							
WITH_ERROR_INSERT		5.7.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_EXTRA_CHARSETS		5.7.4	Yes								
WITH_FIBONACCI	5.7.27	5.7.27	Some	Yes	Yes	Yes					
WITH_GMOCK	8.0.26	5.7.2	Yes	Some							
WITH_INNODB	5.7.4	5.7.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_INNODB_EXTRA_D	5.7.2	5.7.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_INNODB_MEMCACHE	5.7.2	5.7.2	Yes	Yes	Yes	Yes					
WITH_JAVA	5.7.16	5.7.16	Yes	OC	Some	Yes	Yes	Yes	Yes	Yes	Yes
WITH_KEYRING_TEST	5.7.11	5.7.11	Some	Yes	Yes	Yes	Yes	Yes			
WITH_LD		5.7.29	Some				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
WITH_LIBEVENT		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LIBWRAP		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_LOG_ORDER	8.0.17		Some	Yes							
WITH_LOG_DIAGNOSTIC											Yes
WITH_LOG	8.0.16		Some	Yes							
WITH_LOG	8.0.13		Some	Yes							
WITH_LOG	5.7.14		Some	Yes							
WITH_LOG	8.0.4	8.0.16	Some								
WITH_MCA	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MCA	5.7.4		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MCA_DEBUG	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_MCA	8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB	8.0.31		Some	Yes							
WITH_NDBAPI_EXAMPLE	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER_STORE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDBMTD		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_BINLOG	Yes										
WITH_NDB_DEBUG	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_JAVA	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_PORT	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_TEST	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB_TLS_SEARCH_PATH						Yes	Yes	Yes	Yes	Yes	Yes
WITH_NDB	5.7.17		Some	Yes							
WITH_PIECE_FLAGS	8.0.26		Some	Yes							
WITH_PIECE_CLUSTER	8.0.18 - 8.0.31		Some								
WITH_PIECE_UF	5.7.12		Some	Yes							
WITH_PIECE	5.7.12		Some	Yes							
WITH_PIECE_JSON	8.0.13		Some	Yes							
WITH_PIECE	8.0.4	8.0.18	Some								
WITH_PIECE	8.0.16		Some	Yes							
WITH_SPLASH	5.7.29		Some	Yes							
WITH_SHOW_PARSE_TREE				Yes							
WITH_SSL		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SSLEMD	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_SSLEMD_DEBUG	8.0.22		Some	Yes							
WITH_SSLEMD_LIBS	8.0.11		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TSOC	8.0.22		Some	Yes							
WITH_TSPLU	5.7.2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TSAN			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_TSPLU	5.7.6		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3	8.4	9.0	9.1	9.2
WITH_UNIT_TESTS		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_UNIXODBC		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_VALGRIND		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_W 8.0.29 MALLOC			Some	Yes							
WITH_ZLIB		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WITH_Z 8.0.18			Some	Yes							
WITH_xxx_STORAGE_ENG	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes