

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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Table of Contents

Preface and Legal Notices	v
1 mysqld Options and Variables	1
1.1 Option and Variable Changes for MySQL 5.7	59
1.2 Option and Variable Changes for MySQL 8.0	89
1.3 Option and Variable Changes for MySQL 8.1	139
1.4 Option and Variable Changes for MySQL 8.2	142
1.5 Option and Variable Changes for MySQL 8.3	144
2 Built-In Functions and Operators	149
3 Loadable Functions	165
4 INFORMATION_SCHEMA Tables	169
5 Performance Schema Tables	173
6 sys Schema Objects	177
7 Keywords and Reserved Words	183
7.1 Keywords and Reserved Words in MySQL 5.7	202
7.2 Keywords and Reserved Words in MySQL 8.0	223
7.3 Keywords and Reserved Words in MySQL 8.1	252
7.4 Keywords and Reserved Words in MySQL 8.2	276
7.5 Keywords and Reserved Words in MySQL 8.3	301
8 Build (Configuration) Options	327

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Chapter 1 mysqld Options and Variables

Table of Contents

1.1 Option and Variable Changes for MySQL 5.7	59
1.2 Option and Variable Changes for MySQL 8.0	89
1.3 Option and Variable Changes for MySQL 8.1	139
1.4 Option and Variable Changes for MySQL 8.2	142
1.5 Option and Variable Changes for MySQL 8.3	144

The following table shows all the options and variables available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
abort-slave-		8.0.29		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
event-count														
Aborted_clients							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Aborted_connects							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Acl_cache_items_count							Yes	Global	No		Yes	Yes	Yes	Yes
active-roles-or-logins	8.0.21	all_roles_or_logins	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	Yes
admin8.0.14.address				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
admin8.0.14.				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
adminssl8.0.218.0.26	8.0.21			Yes	Yes						Some	Yes	Yes	Yes
admin8.0.21.ca				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.capath				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.cert				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.cipher				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.crl				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.crlpath				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.key				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.ciphersuite				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
admin8.0.21.version				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
allow-suspicious-udfs				Yes	Yes					Yes	Yes	Yes	Yes	Yes
ansi				Yes	Yes					Yes	Yes	Yes	Yes	Yes
audit5.7.9,log8.0.11				Yes	Yes					Yes	Yes	Yes	Yes	Yes
audit5.7.9,buffer_size8.0.11				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
audit5.7.9,compression8.0.11				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes
audit5.7.9,8.0.34.action8.0.11				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
audit5.7.9,8.0.11.current_session					Yes			Both	No	Yes	Yes	Yes	Yes	Yes
Audit5.7.9,8.0.11.current_size						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
audit8.0.33.database				Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
Audit_log_direct_writes						Yes		Global	No			Yes	Yes	Yes
audit5.7.9,disable8.0.28				Yes	Yes	Yes		Global	Yes	Some	Some	Yes	Yes	Yes
audit5.7.9,encryption8.0.11				Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes
Audit5.7.9,8.0.11.event_max_drop_size						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Audit5.7.9,events8.0.11						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
Audit_5.7.9_events_filtered_8.0.11							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Audit_5.7.9_events_lost_8.0.11							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Audit_5.7.9_events_written_8.0.11							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_8.0.34_acctde_accts_8.0.11			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_file_8.0.11			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_filter_id_8.0.11						Yes		Both	No	Some	Yes	Yes	Yes	Yes
audit_5.7.9_flush_8.0.11						Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
audit_8.0.34_flush_inter_Yes_1_second_Yes								Global	No		Some	Yes	Yes	Yes
audit_5.7.9_format_8.0.11			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_format_unix_8.0.26			Yes_immed	Yes_immed	Yes_immed			Global	Yes	Some	Some	Yes	Yes	Yes
audit_5.7.9_8.0.34_acctde_accts_8.0.11			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
audit_8.0.26_max_size	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
audit_8.0.17_password_history_Yes_3000_Yes_30_days	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
audit_5.7.9_8.0.34_acctde_accts_8.0.11	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes
audit_8.0.24_prune_seconds	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
audit_5.7.21_read_buffer_size_Yes_size_Yes	Yes	Yes	Yes					Varies	Varies	Some	Yes	Yes	Yes	Yes
audit_5.7.9_rotate_on_size_8.0.11	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_8.0.34_acctment_policy_Yes_Yes_Yes	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes
audit_5.7.9_strategy_8.0.11	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Audit_5.7.9_total_size_8.0.11							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Audit_5.7.9_write_waits_8.0.11							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
authen_8.0.27_8.0.35_fido_id_Yes_id_Yes_Yes	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
authen_8.0.26_8.0.35_kerberos_Yes_service_Yes_Yes_kerby_tab	Yes	Yes	Yes					Global	No		Some	Yes	Yes	Yes
authen_8.0.26_8.0.35_kerberos_Yes_service_Yes_Yes_principal	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
authen_5.7.19_8.0.11_ldap_seal_Yes_Yes_Yes_method_name	Yes	Yes	Yes					Global	Yes	Some	Yes	Yes	Yes	Yes
authen_5.7.19_8.0.11_ldap_seal_Yes_Yes_Yes_dn	Yes	Yes	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
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	dn		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	pwd		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	path		Global	Yes	Some	Yes	Yes	Yes	Yes
authentication	5.7.19	tion_ldap	Yes	Yes	Yes	connect_timeout		Global	Yes			Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	group_search_attr		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.21	tion_ldap	Yes	Yes	Yes	group_search_file		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	size		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	status		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	pool_size		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.20	5.7.19	tion_ldap	Yes	Yes	Yes	server		Global	Yes		Some	Yes	Yes	Yes
authentication	5.7.19	tion_ldap	Yes	Yes	Yes	responses_timeout		Global	Yes			Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	server	lost	Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	server	port	Global	Yes	Some	Yes	Yes	Yes	Yes
Authen	8.0.21	tion_ldap_sasl_supported_metho	Yes	Yes	Yes	ods		Global	No		Some	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	method_name		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	user_search_attr		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	auth_method_name		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	bind_dn		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	bind_root_dn		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	bind_root_pwd		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	log_pass		Global	Yes	Some	Yes	Yes	Yes	Yes
authentication	5.7.19	tion_ldap	Yes	Yes	Yes	connect_timeout		Global	Yes			Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	group_search_attr		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.21	tion_ldap	Yes	Yes	Yes	group_search_file		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	init_pool_size		Global	Yes	Some	Yes	Yes	Yes	Yes
authen 8.0.11	5.7.19	tion_ldap	Yes	Yes	Yes	log_status		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
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_ldap_simple	8.0.20			Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes
authentication_ldap_simple				Yes	Yes	Yes	Yes	Global	Yes			Yes	Yes	Yes
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_ldap_simple	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_webauthn_rp				Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
authentication_windows_logon_level	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes	Yes
authentication_windows_logon_level	5.7.19, 8.0.11			Yes	Yes	Yes	Yes	Global	No	Yes	Yes	Yes	Yes	Yes
auto_generate_certs				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
auto_increment_increment				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
auto_increment_offset				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
autocommit				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
automatic_sp_privileges				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
avoid_upgrade	5.7.6, 5.6.24, 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
basedir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
big_tables				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
bind_address				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Binlog_cache_disk_use						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_cache_use						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
binlog_checksum				Yes	Yes					Yes	Yes	Yes	Yes	Yes
binlog_checksum				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog_direct_non_transactional_updates				Yes	Yes	Yes	All	Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog-do-db				Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
binlog_encrypt	8.0.14			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
binlog_error_action	5.7.6			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog_expire_logs_auto_purge	8.0.29			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
binlog_expire_logs_seconds	8.0.1			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
binlog_for	8.0.34			Yes	Yes	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
binlog	5.7.5	group_commit_size	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog	5.7.5	group_commit_size	Yes	Yes	Yes	Yes	delays	Yes	count	Yes	Yes	Yes	Yes	Yes
binlog	5.7.6	id_simple_replay	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
binlog-ignore-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes
binlog_max_fsync_time	5.7.9	sh_queue	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog_order_commits			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
binlog_state_encrypt	8.0.14	state_encrypt	Yes	Yes	Yes	Yes	at_start	Global	No	Some	Yes	Yes	Yes	Yes
binlog-row-event-max-size				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
binlog_row_image			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
binlog_bw_metadata	8.0.1		Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes
binlog_bw_value_opt	8.0.3		Yes	Yes	Yes			Both	Yes		Yes	Yes	Yes	Yes
binlog_rows_query_log		Yes	event	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_disk_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
binlog_stmt_cache_size		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
Binlog_stmt_cache_use							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
binlog_transaction_compression	8.0.20	transaction_compression	Yes	Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
binlog_transaction_compression_level_zstd	8.0.20		Yes	Yes	Yes	Yes	level_zstd	Both	Yes		Some	Yes	Yes	Yes
binlog_transaction_dependency_history_size	5.7.22	transaction_dependency_history_size	Yes	Yes	Yes	Yes	8.0.1	Global	Yes	Some	Yes	Yes	Yes	Yes
binlog_transaction_dependency_tracking	5.7.22, 8.0.35	transaction_dependency_tracking	Yes	Yes	Yes	Yes	8.0.1 8.2.0	Global	Yes	Some	Yes	Yes	Yes	Yes
binlog	5.7.15	5.6.22, 5.7.1	Yes	Yes	Yes	Yes		Both	Yes					
block_encryption_mode	5.7.4		Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
bootstrap	5.7.6		Yes	Yes						Yes				
build	8.0.31				Yes			Global	No		Some	Yes	Yes	Yes
bulk_insert_buffer_size		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
Bytes_received							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Bytes_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
caching_sha2_password	8.0.4	auto_generate_rsa_keys	Yes	Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
caching_sha2_password	8.0.24	digests	Yes	Yes	Yes	Yes	rounds	Global	No		Some	Yes	Yes	Yes
caching_sha2_password	8.0.3	password_truncate_key_path	Yes	Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
caching_sha2_password	8.0.3	subkey	Yes	Yes	Yes	Yes	key_path	Global	No		Yes	Yes	Yes	Yes
Caching_sha2_password_rsa_public_key	8.0.4		Yes	Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
character_set_client				Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
character-set-client-handshake	8.0.35, 8.2.0		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
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		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_5777xy_users	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
chroot				Yes	Yes					Yes	Yes	Yes	Yes	Yes
clone_8.0.17tune_concurrency	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.27ck_ddl			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17er_size			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17timeout			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.29y_after_datadrop	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.24r_timeout_after_error	Yes		Yes	Yes	Yes	two failures	Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17table_compression	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17concurrency	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17data_bandwidth	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17network_bandwidth	Yes		Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14ca			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14cert			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.14key			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
clone_8.0.17d_donor_list	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_alter_8.0.3_resource_group						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Com_alter_server						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
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

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
Com_binlog							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_call_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_change_db							Yes	Both	No	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
Com_change_replication_source	8.0.23						Yes	Both	No		Some	Yes	Yes	Yes
Com_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_checksum							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create	8.0.2						Yes	Global	No		Yes	Yes	Yes	Yes
Com_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_resource_group	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes
Com_create_role							Yes	Global	No		Yes	Yes	Yes	Yes
Com_create_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_udf							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_create_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_dealloc_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_delete_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_do							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_db							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_event							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_function							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_procedure							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_resource_group	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes
Com_drop_role							Yes	Global	No		Yes	Yes	Yes	Yes
Com_drop_server							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_trigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_drop_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_empty_query							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_execute_sql							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
Com_esp _{5.7.2} _in_other							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_flush							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_get_diagnostics							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_grant							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_grant_roles							Yes	Global	No		Yes	Yes	Yes	Yes
Com_g _{5.7.6} _replication_start							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Com_g _{5.7.6} _replication_stop							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Com_ha_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_ha_open							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_ha_read							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_help							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_insert							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_insert_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_install_component							Yes	Global	No		Yes	Yes	Yes	Yes
Com_install_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_kill							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_load							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_lock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_optimize							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_preload_keys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_prepare_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_purge							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_purge_before_date							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_release_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_rename_table							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_rename_user							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_repair							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_replace							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_replace_select							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_r _{8.0.22} a_start							Yes	Both	No		Some	Yes	Yes	Yes
Com_r _{8.0.22} a_stop							Yes	Both	No		Some	Yes	Yes	Yes
Com_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_resignal							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_r _{8.0.4} art							Yes	Both	No		Yes	Yes	Yes	Yes
Com_revoke							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_revoke_all							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_revoke_roles							Yes	Global	No		Yes	Yes	Yes	Yes
Com_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_rollback_to_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_select							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
Com_set_option							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_set_resource_group	8.0.3						Yes	Global	No		Yes	Yes	Yes	Yes
Com_set_role							Yes	Global	No		Yes	Yes	Yes	Yes
Com_show_authors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_binary_log_status							Yes	Both	No				Yes	Yes
Com_show_binlog_events							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_binlogs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCharsets							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCollations							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showContributors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateDb							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateEvent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateFunc							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateProc							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateTable							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showCreateTrigger							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_set576	5.7.6						Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showDatabases							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showEngineLogs							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showEngineMutex							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showEngineStatus							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showErrors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showEvents							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showFields							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showFunctionCode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showFunctionStatus							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showGrants							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showKeys							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showMasterStatus	8.2.0						Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showNdbStatus							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showOpenTables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showPlugins							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showPrivileges							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showProcedureCode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showProcedureStatus							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showProcesslist							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showProfile							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showProfiles							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_showRelayLogEvents							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_setReplicaStatus	8.0.22						Yes	Both	No		Some	Yes	Yes	Yes
Com_setReplicas	8.0.22						Yes	Both	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
Com_show_slave_hosts							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_slave_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_slave_57.6us_nonblocking							Yes	Both	No					
Com_show_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_storage_engines							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_table_status							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_triggers							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_variables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_show_warnings							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_start	5.7.9						Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_signal							Yes	Both	No	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
Com_stmt_execute							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_stmt_fetch							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_stmt_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_stmt_reprepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_stmt_reset							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_stmt_send_long_data							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_truncate							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_uninstall_component							Yes	Global	No		Yes	Yes	Yes	Yes
Com_uninstall_plugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_unlock_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_update_multi							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_commit							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_end							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_prepare							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_recover							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Com_xa_start							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
completion_type	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
component_masking.dictionary_name	Yes	Yes	Yes	Yes	Yes	Yes	Global	No	None					Yes
component_masking.masking_table	Yes	Yes	Yes	Yes	Yes	Yes	Global	No						Yes
component_scheduler.scheduler	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
Compression	8.0.18						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Compression_algorithm	8.0.18						Yes	Global	No		Some	Yes	Yes	Yes
Compression_level	8.0.18						Yes	Global	No		Some	Yes	Yes	Yes
concurrent_insert	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
connect_timeout				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Connec ^{5.7.16} 8.0.1	t ₁₇ _control_delay_generated			Yes			Yes	Global	No	Some	Yes	Yes	Yes	Yes
connec ^{5.7.17} 8.0.1	t ₁₇ _control_fai _{yes} es_ones _{yes} connections _{yes} _thre _{yes} e _{yes}			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
connec ^{5.7.17} 8.0.1	t ₁₇ _control_ma _{yes} com _{yes} ect _{yes} ies _{yes} _delay			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
connec ^{5.7.17} 8.0.1	t ₁₇ _control_mi _{yes} com _{yes} ect _{yes} ies _{yes} _delay			Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
Connection_errors_accept							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Connection_errors_internal							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Connection_errors_max_connections							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Connection_errors_peer_address							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Connection_errors_select							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Connection_errors_tcpwrap							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
connec ^{8.0.28} 8.0.28	t _{memory} _chun _{yes} s _{yes} 12			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
connec ^{8.0.28} 8.0.28	t _{memory} _lim _{yes} es _{yes}			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
Connections							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
console				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
creat ^{8.0.14} 8.0.14	t _{in} _listene _{yes} r _{yes} shre _{yes}			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
Created_tmp_disk_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Created_tmp_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Created_tmp_tables							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
cte_m ^{8.0.3} 8.0.3	c _{ecursion} _dep _{yes}			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_ca						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_capath						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_cert						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_cipher						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_ciphersuites						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_crl						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_crlpath						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_key						Yes	Global	No		Some	Yes	Yes	Yes
Curre ^{8.0.16} 8.0.16	s_version						Yes	Global	No		Some	Yes	Yes	Yes
daemon_mem ^{8.0.22} 8.0.22	d_enab _{yes} le _{yes} b _{yes} log			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
daemon_mem ^{8.0.22} 8.0.22	d_eng _{yes} l _{yes} name			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
daemon_mem ^{8.0.22} 8.0.22	d_eng _{yes} l _{yes} path			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
daemon_mem ^{8.0.22} 8.0.22	d_opt _{yes}			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
daemon_mem ^{8.0.22} 8.0.22	d_r_ba _{yes} sh _{yes}			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
daemon_mem ^{8.0.22} 8.0.22	d_w_ba _{yes} sh _{yes}			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
daemon	5.7.6			Yes	Yes					Yes	Yes	Yes	Yes	Yes
datadir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
date_format		8.0.3				Yes		Global	No	Yes				
datetime_format		8.0.3				Yes		Global	No	Yes				
ddl_rewriter	8.0.16			Yes	Yes						Some	Yes	Yes	Yes
debug				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
debug_sync						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
debug-sync-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes
default-authentication-plugin		5.7.2	8.0.27	Yes	Yes									
default_authentication_plugin	5.7.2	8.0.27		Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
default_ctype	8.0.11	8.0.27		Yes	Yes			Both	Yes		Yes	Yes	Yes	Yes
default_password_lifetime	5.7.4	8.0.27		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
default_storage_engine		8.0.16		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
default_table_encryption	8.0.16	8.0.27		Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
default_time_zone				Yes	Yes					Yes	Yes	Yes	Yes	Yes
default_tmp_storage_engine		8.0.16		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
default_week_format		8.0.16		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
defaults-extra-file				Yes						Yes	Yes	Yes	Yes	Yes
defaults-file				Yes						Yes	Yes	Yes	Yes	Yes
defaults-group-suffix				Yes						Yes	Yes	Yes	Yes	Yes
delay_key_write				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_error	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
delayed_innodb_limit	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_innodb_threads	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
delayed_innodb_timeout	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
delayed_queue_size	5.6.7			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Delayed_writes	5.6.7						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Deprecated_use_innodb_processlist_count				Yes				Global	No					Yes
Deprecated_use_innodb_processlist_last_update				Yes				Global	No					Yes
des-key-file		5.7.6	8.0.3	Yes	Yes					Yes				

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
disable_partition-engine-check	5.7.17	5.7.17		Yes	Yes					Some				
disable_storage_engine	5.7.8	storage_eng	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
disconnect_on_expired_password	5.7.11	password	Yes	Yes	Yes			Global	No	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
dragn_drag_error_flag	8.0.4	og_error_flag	Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes
dragn_datus	8.0.12	datus					Yes	Global	No		Some	Yes	Yes	Yes
early_plugin-load	5.7.11		Yes	Yes						Some	Yes	Yes	Yes	Yes
end_markers_in_json			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
enforce_gtid_consistency			Yes	Yes	Yes			Global	Varies	Yes	Yes	Yes	Yes	Yes
enter_8.0.30_encryption	8.0.30	maximizes_key_size	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes
enter_8.0.30_encryption	8.0.30	says_it_supports_legacy	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes
eq_range_index_dive_Yes_it			Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
error_count				Yes				Session	No	Yes	Yes	Yes	Yes	Yes
Error_8.0.22_buffered_bytes						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Error_8.0.22_buffered_events						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Error_8.0.22_expired_events						Yes	Global	No		Some	Yes	Yes	Yes	Yes
Error_8.0.22_latest_write						Yes	Global	No		Some	Yes	Yes	Yes	Yes
event_scheduler			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
executed_gtids_5.7.6	5.7.5	gtids_5.7.6	Yes	Yes	Yes			Global	Yes					
exit_info				Yes	Yes					Yes	Yes	Yes	Yes	Yes
expire_log_8.0.13	8.0.13	ys	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes		
explain_8.0.32_rmat		rmat	Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes
explain_json_format_version		version	Yes	Yes	Yes			Both	Yes					Yes
explicit_defaults_for_timestamp	5.6.6	ts_for_timestamp	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
external-locking			Yes	Yes						Yes	Yes	Yes	Yes	Yes
external_user					Yes			Session	No	Yes	Yes	Yes	Yes	Yes
federated			Yes	Yes						Yes	Yes	Yes	Yes	Yes
Firewall_8.0.11_access_denied	5.7.19	access_denied				Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Firewall_8.0.11_access_granted	5.7.19	access_granted				Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Firewall_8.0.11_cached_entries	5.7.19	cached_entries				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
flush				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Flush_commands							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
flush_time				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
foreign_key_checks						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ft_boolean_syntax			Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
ft_max_word_len			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
ft_min_word_len			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
ft_query_expansion_limit	Yes		Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes
ft_stopword_file			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
gdb				Yes	Yes					Yes	Yes	Yes	Yes	Yes
general_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
general_log_file				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
gener8.0.18random_password	Yes		Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes
Global8.0.28connection_memory							Yes	Global	No		Some	Yes	Yes	Yes
global8.0.28connection_memory	Yes		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes
global8.0.28connection_memory	Yes		Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes
Gr_all_consensus_proposals_count				Yes			Both	No			Yes	Yes	Yes	
Gr_all_consensus_time_sum							Yes	Both	No		Yes	Yes	Yes	
Gr_certification_garbage_collector_count				Yes			Both	No			Yes	Yes	Yes	
Gr_certification_garbage_collector_time_sum				Yes			Both	No			Yes	Yes	Yes	
Gr_consensus_bytes_received_sum							Yes	Both	No		Yes	Yes	Yes	
Gr_consensus_bytes_sent_sum							Yes	Both	No		Yes	Yes	Yes	
Gr_control_messages_sent_bytes_sum				Yes			Both	No			Yes	Yes	Yes	
Gr_control_messages_sent_count							Yes	Both	No			Yes	Yes	Yes
Gr_control_messages_sent_roundtrip_time				Yes			Both	No			Yes	Yes	Yes	
Gr_data_messages_sent_bytes_sum							Yes	Both	No		Yes	Yes	Yes	
Gr_data_messages_sent_count							Yes	Both	No		Yes	Yes	Yes	
Gr_data_messages_sent_roundtrip_time				Yes			Both	No			Yes	Yes	Yes	
Gr_empty_consensus_proposals_count							Yes	Both	No		Yes	Yes	Yes	
Gr_extended_consensus_count							Yes	Both	No		Yes	Yes	Yes	
Gr_last_consensus_end_timestamp							Yes	Both	No		Yes	Yes	Yes	
Gr_total_messages_sent_count							Yes	Both	No		Yes	Yes	Yes	
Gr_transactions_consistency_after_system				Yes			Both	No			Yes	Yes	Yes	
Gr_transactions_consistency_after_system				Yes			Both	No			Yes	Yes	Yes	
Gr_transactions_consistency_after_transaction				Yes			Both	No			Yes	Yes	Yes	
Gr_transactions_consistency_after_transaction				Yes			Both	No			Yes	Yes	Yes	
Gr_transactions_consistency_before_system				Yes			Both	No			Yes	Yes	Yes	
Gr_transactions_consistency_before_system				Yes			Both	No			Yes	Yes	Yes	
group_concat_max_len	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes
group8.0.21application_advise	Yes	Yes	Yes	Yes	Yes	every_endpoints	Global	Yes			Some	Yes	Yes	Yes
group5.7.175.7.218.0.41	Yes	Yes	Yes	Yes	Yes	joint_group	Global	Yes	Some					

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
group_57epb17	8.4.0	ion_al	Yes	Yes	Yes	Yes	versi	Global	Yes	Some	Yes	Yes	Yes	Yes
group_57epb17	8.4.0	ication_aud	Yes	Yes	Yes	Yes	ment	incremen	Global	Yes	Some	Yes	Yes	Yes
group_80-16	8.4.0	ication_aud	Yes	Yes	Yes	Yes	trials		Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.4.0	lication_bod	Yes	Yes	Yes	Yes	trap_grou		Global	Yes	Some	Yes	Yes	Yes
group_80-17	8.4.0	lication_clo	Yes	Yes	Yes	Yes	threshold		Global	Yes	Some	Yes	Yes	Yes
group_80-03	8.4.0	lication_com	Yes	Yes	Yes	Yes	debug_opti		Global	Yes	Yes	Yes	Yes	Yes
group_80-16	8.4.0	lication_com	Yes	Yes	Yes	Yes	max_message		Global	Yes	Some	Yes	Yes	Yes
group_80-27	8.4.0	lication_communic	Yes	Yes	Yes	ack		Global	No		Some	Yes	Yes	Yes
group_57epb17	8.4.0	lication_commu	Yes	Yes	Yes	Yes	nem_stop_timeou		Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.4.0	lication_commu	Yes	Yes	Yes	Yes	nem_stop_thres		Global	Yes	Some	Yes	Yes	Yes
group_80-14	8.4.0	lication_cons	Yes	Yes	Yes	Yes	statio		Both	Yes		Some	Yes	Yes
group_57epb17	8.4.0	lication_enforce	Yes	Yes	Yes	Yes	update_everywher		Global	Yes	Some	Yes	Yes	Yes
group_57epb24	8.0.12	lication_ex	Yes	Yes	Yes	Yes	action		Global	Yes	Some	Some	Yes	Yes
group_57epb17	8.0.12	lication_flo	Yes	com	Yes	Yes	ol_applier_th		Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.0.2	lication_flo	Yes	com	Yes	Yes	ol_iden		Global	Yes	Some	Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	ld_perce		Global	Yes		Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	max_quota		Global	Yes		Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	mber_quota		Global	Yes		Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	n quota		Global	Yes		Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	recover		Global	Yes		Yes	Yes	Yes
group_57epb17	8.0.2	lication_flo	Yes	com	Yes	Yes	ode		Global	Yes	Some	Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	period		Global	Yes		Yes	Yes	Yes
group_80-02	8.0.2	lication_flo	Yes	com	Yes	Yes	lease_pe		Global	Yes		Yes	Yes	Yes
group_57epb17	8.0.2	lication_for	Yes	membe	Yes	Yes	rs		Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.0.2	lication_gr	Yes	yes_na	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.0.2	lication_gr	Yes	yes_se	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes
group_57epb17	8.0.2	lication_gt	Yes	assimme	Yes	Yes	block_s		Global	Yes	Some	Yes	Yes	Yes
group_80-22	8.0.2	lication_ip	Yes	low	Yes	Yes	est		Global	Yes		Some	Yes	Yes
group_57epb17	8.0.22	on_ip	Yes	siti	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	
group_57epb17	8.0.22	lication_lo	Yes	ad	Yes	Yes	ss		Global	Yes	Some	Yes	Yes	Yes
group_80-13	8.0.22	lication_membe	Yes	Yes	Yes	Yes	r_expe	lineout	Global	Yes		Some	Yes	Yes
group_57epb20	8.0.2	lication_membe	Yes	Yes	Yes	Yes	r_weight		Global	Yes	Some	Yes	Yes	Yes
group_80-16	8.0.2	lication_mes	Yes	Yes	Yes	Yes	age_cach	e_size	Global	Yes		Some	Yes	Yes
group_80-27	8.0.2	lication_pax	Yes	Yes	Yes	Yes	singl	leader	Global	Yes		Some	Yes	Yes
group_57epb17	8.0.4	lication_po	Yes	spine	Yes	Yes	loop		Global	Yes	Some	Yes	Yes	Yes
group_repl	8.0.4	8.0.4	ion_primary_member		Yes	Global	No		Yes	Yes	Yes	Yes	Yes	
group_57epb17	8.0.34	on_red	Yes	Yes	Yes	Yes	comple	e_at	Global	Yes	Some	Yes	Yes	Yes
group_80-18	8.0.34	ication_red	Yes	Yes	Yes	Yes	compression_all		Global	Yes		Some	Yes	Yes
group_80-04	8.0.4	lication_red	Yes	Yes	Yes	Yes	et_polic	lic_key	Global	Yes		Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
Handler_read_rnd_next							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Handler_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Handler_savepoint							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Handler_savepoint_rollback							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Handler_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Handler_write							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
have_compress						Yes		Global	No	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
have_geometry						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_opens	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_profiler	5.6.8					Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_query	5.7.20	e				Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_rtree_keys						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_ssl	8.0.26					Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_statement_timeout	5.7.4					Yes		Global	No	Yes	Yes	Yes	Yes	Yes
have_symlink						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
help				Yes	Yes					Yes	Yes	Yes	Yes	Yes
histogram_generation	8.0.2			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes
host_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
hostname						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
identity						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
ignore_bu	5.5.22	8.0.3	d	Yes	Yes	Yes		Global	No	Yes				
ignore_db	5.7.16			Yes	Yes					Yes				
ignore_db	5.7.16					Yes		Global	No	Yes				
immed	8.0.14			server_version		Yes		Session	Yes		Some	Yes	Yes	Yes
inform	8.0.3			on_schema_change	Yes	Yes	Yes	Both	Yes		Yes	Yes	Yes	Yes
init_connect				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
init_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
init	8.0.26	ca		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
init_slave	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
initi	5.7.16	e		Yes	Yes					Yes	Yes	Yes	Yes	Yes
initi	5.7.16	e-		Yes	Yes					Yes	Yes	Yes	Yes	Yes
innodb	5.6.21,			Yes	Yes					Yes	Yes	Yes	Yes	
innodb_adaptive_flush	Yes	g		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_flush	Yes	g	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_adaptive_hash	Yes	dex	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innod	5.7.8	adaptive_hash	Yes	Yes	Yes	artes	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
innodb_adaptive_max_size	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_add5.6.3n5.7.4mempool_size	Yes	Dep	Yes	Yes	Yes	Yes		Global	No					
innodb_api8.0.22commit	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_api8.0.22ble_rlock	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_api8.0.22le_binlog	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_api8.0.22le_mdl	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_api8.0.22level	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_autoextend_in	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_autoinc_lock_m	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_ava5.7.198.0.2do_logs							Yes	Global	No	Yes				
innod5.7.10kground_dro	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
Innodb_buffer_pool_bytes_data							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_bytes_dirty							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innod5.7.5uffer_pool_cle	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_dele	Yes	Dep	Yes	Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
innodb_buffer_pool_dupe	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_dupe	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innod5.7.62ffer_pool_dupe	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_dump_status							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_f	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innod8.0.14ffer_pool_in	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
innodb_buffer_pool_in	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_loa	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_loa	Yes	Dep	Yes	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_buffer_pool_loa	Yes	Dep	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_load_s							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_da							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_d							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_f							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_l							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_m							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_pages_t							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_a							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ae							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ae							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_read_ae							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innod5.7.5ffer_pool_resize							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_resize							Yes	Global	No		Some	Yes	Yes	Yes
Innodb_buffer_pool_resize							Yes	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
innodb_buffer_pool_size	Yes		Yes			Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_wait_free					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_buffer_pool_write_requests					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_max_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffer_min_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_change_buffering	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checkpoint_distance	Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
innodb_checksum_algorithm	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_checkpoint_time	56.3ms		Yes	Yes	Yes	Global	No	Yes						
innodb_cmp_per_index_ablity	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_commit_concurrency	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compress_debug	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_failure_retries	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_level	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_compression_page_size	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_concurrency_tickets	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_file_path	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_fsyncs					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_data_home_dir	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_fsyncs					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_reads					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_data_pending_writes					Yes	Global	No	Yes	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_dblwr_pages_written						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_dblwr_writes						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_buffer_size	Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes	Yes	Yes
innodb_log_crash_recover	Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
innodb_threads	Yes	Yes	Yes			Both	Yes		Some	Yes	Yes	Yes	Yes	Yes
innodb_thread_concurrency	15	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
innodb_dedicated_server	Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes	Yes
innodb_fault_tolerant	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rectories	Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes	Yes
innodb_sable_resize	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes						
innodb_disable_sort_merge	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_doublewrite	Yes	Yes	Yes			Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rollback_bypass	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
innodb_rollback_dml	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes	Yes
innodb_rollback_fdm	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
innodb_8.0.20_blewrite_pages	Yes	Yes	Yes			Global	No			Some	Yes	Yes	Yes	Yes
innodb_8.0.22_end_and_innodb	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
innodb_fast_shutdown	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_file_make_page_dirty	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_fileformat	5.7.7	Yes	Yes	Yes		Global	Yes	Yes	Yes					
innodb_fileformat_check	5.7.7	Yes	Yes	Yes		Global	No	Yes						
innodb_fileformat_max	5.7.7	Yes	Yes	Yes		Global	Yes	Yes	Yes					
innodb_file_per_table	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_ll_factor	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_log_at_trx_commit	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_log_at_trx_commit_it	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_method	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flush_neighbours	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.8_flush_sync	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_flushing_avg_ps	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_force_load_compressed	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_force_recovery	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.13_mc_threshold	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
innodb_ft_aux_table			Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_cache_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_enable_diag_print	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_enable_stopword	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_max_token_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_min_token_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_num_word_optimize	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.2_result_cache_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_server_stopword_table	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_sort_pll_degree	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.2_total_cache_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_ft_user_stopword_table	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_have_atomic_builtins					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.18_e_flush_pct	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
innodb_io_capacity	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_io_capacity_max	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lar_5.7.7_prefix	Yes	Yes	Yes			Global	Yes	Yes						
innodb_limit_optimism	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_lock_wait_timeout	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_5.6.3_insafe_mode	Yes	Yes	Yes	Yes		Global	No	Yes						
innodb_log_buffer_size	Yes	Yes	Yes			Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.13_checkpoint_puzzlesnow	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
innodb_5.7.2g_checkpoint_lowrow	Yes	Low	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
innodb_5.7.18_g_checksums	5.7.9	Yes	Yes	Yes	Yes		Global	Yes						
innodb_5.7.19_g_checksums		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_compressed_pages		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_size	8.0.30	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_size_in_pages	8.0.30	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_log_group_home	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_g_spin_cpu_low_watermark		Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_g_spin_cpu_high_watermark		Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb_8.0.11_g_wait_for_yet_to_be_in_use		Yes	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
Innodb_log_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_5.7.14_g_write_ahead_log_size		Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_log_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_8.0.22_g_writer_threads		Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Innodb_log_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_lru_scan_depth	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_page_pct	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_max_dirty_page_pct_low_watermark	Yes	Yes	Yes				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_low_watermark	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_g_undo_log_size	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.6_g_merge_threshold	Yes	Yes	Yes	Yes	Yes	Yes	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_reset_low_watermark	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_num_open_files							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_5.7.9_g_interleaved	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_pct	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_old_blocks_time	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_online_alter_log_max_size	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_open_files	Yes	Yes	Yes				Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
innodb_optimize_full_txs_only	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_5.7.5_g_optimize_pct_low_watermark	Yes	Yes	Yes				Session	Yes						
Innodb_os_log_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_pending_fsyncs							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_pending_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_os_log_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_5.7.4_g_page_cleaners	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_page_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_page_size	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_pages_created							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
Innodb_pages_read							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_pages_written							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_parallel_read	8.0.14	Yes	read	Yes	Yes			Session	Yes		Some	Yes	Yes	Yes
innodb_print_all_deadlocks		Yes	checks	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_print_ddl_logs	8.0.3	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes
innodb_purge_batch_size		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_rseg_truncate	5.7.5	Yes	Yes	freqency				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_purge_threads		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes
innodb_random_read_ahead		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_ahead_threshold		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_read_io_threads		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes
innodb_read_only		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes
innodb_log_arch_expire_time	8.0.17	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes
innodb_log_capacity	8.0.30	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes
Innodb_log_capacity_resized	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_checkpoint_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_current_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_enabled	8.0.21						Yes	Global	No		Some	Yes	Yes	Yes
innodb_log_encrypt	8.0.1	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes
Innodb_log_flushed_to_disk_lsn	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_logical_size	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_physical_size	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_read_only	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_resize_status	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_log_uuid	8.0.30						Yes	Global	No		Some	Yes	Yes	Yes
innodb_replication_delay		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_rollback_on_timeout		Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes
innodb_rollback_segments		Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_current_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time_avg							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_time_max							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_row_lock_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_rows_deleted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_rows_inserted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_rows_read							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Innodb_rows_updated							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
innodb_saved_page_number		Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
innodb_segment_dir	8.0.4	Yes	Yes	Yes				Global	No					
innodb_segment_reserve	8.0.26	Yes	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes
innodb_sort_buffer_size		Yes	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
innodb_spin_wait_delay	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb8.0.16n_wait_pausemultiplier	Yes	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
innodb_stats_auto_recalc	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.17ts_include	Yes	Yes	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
innodb8.0.1stats_method	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_on_metadata	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_persistent	Yes		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_stats_persistentsample_pages	Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.6.3status_sample_pages	Yes	Yes	Yes				Global	Yes	Yes					
innodb_stats_transientsample_pages	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodbstatus_file			Yes	Yes						Yes	Yes	Yes	Yes	Yes
innodb5.7.4status_output	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.4status_outputlocks	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_strict_mode	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.10support_xa	Yes	Yes	Yes				Both	Yes	Yes					
innodb_sync_array_size	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.8sync_debug	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_sync_spin_loop	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Innodb8.0.19temp_rows_deleted					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Innodb8.0.19temp_rows_inserted					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Innodb8.0.19temp_rows_read					Yes		Global	No		Some	Yes	Yes	Yes	Yes
Innodb8.0.19temp_rows_updated					Yes		Global	No		Some	Yes	Yes	Yes	Yes
innodb_table_locks	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.1temp_data_file	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb8.0.13temp_tablespaces	Yes	Yes	Yes				Global	No		Some	Yes	Yes	Yes	Yes
innodb_thread_concurrency	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_thread_sleep_ms	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb5.7.11mdir	Yes	Yes	Yes				Both	Yes	Some	Yes	Yes	Yes	Yes	Yes
Innodb_truncated_status_writes					Yes		Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_purge_view	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_trx_rseg_n_size	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_undo_directory	Yes	Yes	Yes				Global	No	Yes	Yes	Yes	Yes	Yes	Yes
innodb8.0.1undo_log_encrypt	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
innodb5.7.5undo_log_truncate	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
innodb_undo5.7.198.0.2	Yes	Yes	Yes				Global	Yes	Yes					
innodb_undo5.7.218.0.4	Yes	Yes	Yes				Global	Varies	Yes	Yes	Yes	Yes	Yes	Yes
Innodb8.0.14o_tablespaces_active				Yes			Global	No		Some	Yes	Yes	Yes	Yes
Innodb8.0.14o_tablespaces_explicit				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
Innodb_tablespaces_implicit	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes
Innodb_tablespaces_total	8.0.14						Yes	Global	No		Some	Yes	Yes	Yes
innodb_fdatasync	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
innodb_use_native_ai	5.6.3_5.7.4			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_use_parallel	5.6.3_5.7.4			Yes	Yes	Yes		Global	No					
innodb_idate_tablespace_path	8.0.21			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
innodb_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
innodb_write_io_threads				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
insert_id						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
install					Yes					Yes	Yes	Yes	Yes	Yes
install-manual					Yes					Yes	Yes	Yes	Yes	Yes
interactive_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
inter5.7.5_tmp_dir	5.7.5_8.0.16			Yes	Yes	Yes		Global	Yes	Yes	Some			
inter8.0.2_tmp_mem_storage_engine	8.0.2			Yes	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes
join_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
keep_files_on_create				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Key_blocks_not_flushed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Key_blocks_unused							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Key_blocks_used							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
key_buffer_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_age_threshold				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_block_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
key_cache_division_limit				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Key_read_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Key_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Key_write_requests							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Key_writes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
keyring_cmk_id	5.7.19_8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_conf_file	5.7.19_8.0.11			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes
keyring_data_file	5.7.19_8.0.11			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes
keyring_region	5.7.19_8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_ed_file	5.7.21_8.0.34_8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_ed_password	5.7.21_8.0.34_8.0.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_ta	5.7.11_8.0.34			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_shicorp_auth	8.0.18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
keyring_shicorp_ca	8.0.18			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
keyring	8.0.18	shicorp_ca	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_auth_path	Yes				Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_ca_path	Yes				Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_caching	Yes				Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_role_id	Yes				Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_server	Yes	1			Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_commit_store	Yes	path			Global	No		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_role_id	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_secrets_id	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_secret	Yes	user			Global	Yes		Some	Yes	Yes	Yes	Yes
keyring	8.0.18	shicorp_stores_path	Yes	path	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-destination			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-host			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-password			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-port			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-socket			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-source			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	8.0.24	migration-to-component			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	5.7.21, 8.0.4	migration-user			Yes	Yes				Some	Yes	Yes	Yes	Yes
keyring	8.0.22 8.0.31	certificate	Yes	state	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	component	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	cryptographic	Yes	enable	Yes	int	Yes		Global	No		Some	Yes	Yes
keyring	8.0.22 8.0.31	file	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	fingerprint	Yes	print	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	hagemeier	Yes	enable	Yes	int	Yes		Global	No		Some	Yes	Yes
keyring	8.0.22 8.0.31	master_key	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	retro_point	Yes	point	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring	8.0.22 8.0.31	fancy	Yes	Yes	Yes			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
keyring_8.0.22_8.0.31er	8.0.22	8.0.31er		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring_8.0.22_8.0.31ults_endpoints	8.0.22	8.0.31ults_endpoints		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring_8.0.22_8.0.31tual_VasIt	8.0.22	8.0.31tual_VasIt		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
keyring_5.7.12_cv_conf_dir	5.7.12	cv_conf_dir	8.0.11	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
keyring_5.7.21_operations	5.7.21	operations	8.0.4			Yes		Global	Yes	Some	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
large_page_size						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
large-pages				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
last_insert_id						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
Last_query_cost							Yes	Session	No	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
lc-messages-dir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
lc_time_names				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
license						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
local_infile				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
local-service				Yes						Yes	Yes	Yes	Yes	Yes
lock_8.0.17	8.0.17			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_debug_loop	8.0.17	debug_loop		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_debug_mis	8.0.17	debug_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_debug_mis	8.0.17	debug_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_debug_mis	8.0.17	debug_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_dependenc	8.0.17	dependenc		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_extra_dependenc	8.0.17	extra_dependenc		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_output_dir	8.0.17	output_dir		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_print_txt	8.0.17	print_txt		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_trace_loo	8.0.17	trace_loo		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_trace_mis	8.0.17	trace_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_trace_mis	8.0.17	trace_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_8.0.17_trace_mis	8.0.17	trace_mis		Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
lock_wait_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Locke5.7.6connects	5.7.6	connects					Yes	Global	No	Yes	Yes	Yes	Yes	Yes
locked_in_memory						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
log_backward_cop	5.7.6	backward_cop	5.7.9	Yes	Yes	Yes	Definitions	Global	Yes					

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
log-bin				Yes	Yes					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	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
log_bin_trust_function_creators	8.0.34			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log_bin_uselog_events	8.0.18			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	
log_bin_password	5.7.19	bin_as_	8.0.11	Yes	Yes	Yes		Global	Yes	Yes				
log-error				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
log_error_filter	8.0.2			Yes	Yes	Yes		Global	Yes					
log_error_services	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
log_error_suppression_list	8.0.13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
log_error_verbosity	5.7.2			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log-isam					Yes	Yes				Yes	Yes	Yes	Yes	Yes
log_output				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log_queries_not_using_indexes				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log_raw				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log_reraun_updates	8.0.26			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
log-short-format				Yes	Yes					Yes	Yes	Yes	Yes	Yes
log_slave_poses	8.0.26			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
log_slow_admin_statements		5.7.1		Yes	Yes									
log_slow_admin_statements	5.7.1			Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
log_slow_xtra	8.0.14			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
log_slow_replica_statements	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
log_slow_slave_statements		5.7.1		Yes	Yes									
log_slow_statement	5.7.1	8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
log_slow_statement_unsafe_for_logs	5.7.1	8.0.34		Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
log_slow_transactions	5.7.15	8.0.2	8.0.13	Yes	Yes	Yes		Global	Yes	Yes	Some			
log_slow_transaction_facade	5.7.15	8.0.13		Yes	Yes	Yes		Global	Yes	Yes	Some			
log_slow_inclined	5.7.15	8.0.13		Yes	Yes	Yes		Global	Yes	Yes	Some			
log_slow_tag	5.7.15	8.0.13		Yes	Yes	Yes		Global	Yes	Yes	Some			

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
log-tc				Yes	Yes					Yes	Yes	Yes	Yes	Yes
log-tc-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes
log_throttle_queries_in�认证				Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes
log_timestamps	5.7.2			Yes	Yes	Yes		Global	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
low_priority_updates				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
lower_case_file_system					Yes			Global	No	Yes	Yes	Yes	Yes	Yes
lower_case_table_names				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
mandatory_roles	8.0.2			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
master-info-file		8.0.18		Yes	Yes					Yes	Yes	Yes	Yes	
master_info_positon	8.0.23			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes		
master_retry_count		5.6.1		Yes	Yes					Yes	Yes	Yes	Yes	Yes
master_version_checks	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max_allowed_packet				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max-binlog-dump-events					Yes	Yes				Yes	Yes	Yes	Yes	Yes
max_binlog_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max_binlog_stmt_cache_size				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max_connect_errors				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max_connections				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
max_delayed_reads	5.6.7			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_donet_length	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
max_error_count				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_exection_time	5.7.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Max_exection_time_exceeded							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Max_exection_time_set							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Max_exection_time_set_failed							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
max_heap_table_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_insert_delayed_threads	5.6.7				Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
max_join_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_length	8.0.20			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
max_ps_in_geometry	5.7.8			Yes	Yes	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
max_prepared_stmt_count	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_relay_log_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_seeks_for_key	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sort_length	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_sp_recursion_depth	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_statement_time	5.7.4 5.7.8				Yes		Both	Yes						
Max_statement_time_exceeded						Yes	Both	No						
Max_statement_time_set						Yes	Both	No						
Max_statement_time_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
Max_used_connections_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
max_user_connections	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
max_write_lock_count	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mecab_charset						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mecab_file				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
memlock				Yes	Yes				Yes	Yes	Yes	Yes	Yes	Yes
metadata_lock_time	5.7.4 8.0.13	Yes	Yes	Yes			Global	No	Yes	Some				
metadata_lock_timeout	5.7.4 8.0.13	Yes	Yes	Yes			Global	No	Yes	Some				
min_examined_row_limit	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
multi_range	5.6.7 8.0.3	Yes	Yes	Yes			Both	Yes	Yes					
myisam-block-size				Yes	Yes					Yes	Yes	Yes	Yes	Yes
myisam_data_pointer_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
myisam_max_sort_file_size	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
myisam mmap_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
myisam_recover_options	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
myisam_repair_threads	5.7.38 8.0.29	Yes	Yes	Yes			Both	Yes	Some	Some				
myisam_sort_buffer_size	Yes	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	Yes
mysql_firewall_database	Yes	Yes	Yes			Global	No					Yes	Yes	
mysql_firewall_mode	5.7.9 8.0.11	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_firewall_reload	Yes	Yes	Yes	Yes	Yes		Global	No				Yes	Yes	Yes
mysql_firewall_trace	5.7.9 8.0.11	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_native_password	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
mysql_8.0.11				Yes	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
Mysqlx_aborted_clients							Yes	Global	No		Yes	Yes	Yes	Yes
Mysqlx_address							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.17d_address	Yes	Yes	Yes					Global	No	Some	Yes	Yes	Yes	Yes
Mysqlx_bytes_received							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_8.0.19es_received_compressed_payload	Yes	Yes	Yes				Yes	Both	No		Some	Yes	Yes	Yes
Mysqlx_8.0.19es_received_uncompressed_frame	Yes	Yes	Yes				Yes	Both	No		Some	Yes	Yes	Yes
Mysqlx_bytes_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_8.0.19es_sent_compressed_payload	Yes	Yes	Yes				Yes	Both	No		Some	Yes	Yes	Yes
Mysqlx_8.0.19es_sent_uncompressed_frame	Yes	Yes	Yes				Yes	Both	No		Some	Yes	Yes	Yes
Mysqlx_8.0.20pression_algorithm							Yes	Session	No		Some	Yes	Yes	Yes
mysqlx_8.0.19pression_algorithm	Yes	Yes	Yes					Global	Yes		Some	Yes	Yes	Yes
Mysqlx_8.0.20ression_level							Yes	Session	No		Some	Yes	Yes	Yes
mysqlx_5.7.12connect_timeout	Yes	Yes	Yes					Global	Yes	Some	Yes	Yes	Yes	Yes
Mysqlx_connection_accept_errors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_connection_errors							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_accepted							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_closed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_connections_rejected							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_create_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_delete							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_drop_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_find							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_insert							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_modify_view							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_crud_update							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_cursor_close							Yes	Both	No		Yes	Yes	Yes	Yes
Mysqlx_cursor_fetch							Yes	Both	No		Yes	Yes	Yes	Yes
Mysqlx_cursor_open							Yes	Both	No		Yes	Yes	Yes	Yes
mysqlx_8.0.20late_default	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes
mysqlx_8.0.20late_max_clients	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes
mysqlx_document_id_unicode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes
mysqlx_enable_hello_message	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Yes	Yes	Yes	Yes
Mysqlx_errors_sent							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_errors_unknown_message_type							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_expect_close							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_expect_open							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12e_worker_threads	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	Yes
Mysqlx_init_error							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
mysqlx_8.0.14teractive_timeout	Yes	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes
mysqlx_8.0.20_default_compression_level	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
mysqlx_8.0.20_max_clients	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
mysqlx_5.7.12_allowed_packet	Yes	set	Yes	Yes			Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_connection	Yes	Yes	Yes				Global	Yes	Some	Yes	Yes	Yes	Yes	Yes
Mysqlx_messages_sent						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_worker_threads	Yes	ds	Yes	Yes			Global	Yes	Some	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	Yes
Mysqlx_port						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_t			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12t_open_time	Yes	est	Yes	Yes			Global	No	Some	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
mysqlx_8.0.4_ad_timeout	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
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
mysqlx_5.7.15_ke			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
mysqlx_5.7.12_ca			Yes	Yes	Yes		Global	No	Some	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_capath	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_cert	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_cipher	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_cipher_list						Yes	Both	No	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_crl	Yes	Yes	Yes			Global	No	Some	Yes	Yes	Yes	Yes	Yes	Yes
mysqlx_5.7.12_crlpath	Yes	Yes	Yes			Global	No	Some	Yes	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
mysqlx_5.7.12_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

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
Mysqlx_ssl_verify_depth							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_verify_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_create_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_disable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_drop_collection_index							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_enable_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_ensure_collection							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_mysqli							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_sql							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_execute_xplugin							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_get_collection_options							Yes	Both	No		Yes	Yes	Yes	Yes
Mysqlx_stmt_kill_client							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_clients							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_notices							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_list_objects							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_stmt_modify_collection_options							Yes	Both	No		Yes	Yes	Yes	Yes
Mysqlx_stmt_ping							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
mysql8.0.4_timeout	Yes	Yes	Yes				Session	Yes		Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Mysqlx_worker_threads_active							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
mysql8.0.4_timeout	Yes	Yes	Yes				Session	Yes		Yes	Yes	Yes	Yes	Yes
mysql8.0.20d_default_depression	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
mysql8.0.20d_max_clients	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes		Some	Yes	Yes	Yes	Yes
named_pipe				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
named5.7.25_full_access_group	Yes	Yes	Yes	Yes	Yes	Yes	Global	No		Some	Some	Yes	Yes	Yes
ndb-5.7.10-allow_ndb-7.5.0_copying-alter-table	Yes	Yes	Yes				Both	Yes		Some	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count	Yes						Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_ndb-8.0.23	Yes	Yes	Yes	Yes	Yes	Yes	Global	No		Some	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_ndb-8.0.23	Yes	Yes	Yes	Yes	Yes	Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_deferred_count_ndb-8.0.23	Yes	Yes	Yes	Yes	Yes	Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count	Yes						Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_ndb-8.0.23	Yes	Yes	Yes	Yes	Yes	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
Ndb_api_adaptive_send_forced_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_forced_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_session							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_slave	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_session							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_adaptive_send_unforced_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_bytes_received_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_received_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_bytes_sent_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_bytes_sent_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_bytes_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_data_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nodata_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_event_nodata_count_injector							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_pk_op_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pk_op_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_pruned_scan_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_pruned_scan_count_slave	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_range_scan_count_replica	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_range_scan_count_session							Yes	Session	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
Ndb_api_range_count_slave	8.0.23			can_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_replica	8.0.23			ad_row_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_read_row_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_read_row_count_slave	8.0.23			rw_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_scan_batch_count_replica	8.0.23			an_batch_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_scan_batch_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_search_count_slave	8.0.23			tch_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_replica	8.0.23			table_scan_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_table_scan_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_table_scan_count_slave	8.0.23			table_scan_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_replica	8.0.23			trans_abort_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_trans_abort_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_abort_count_slave	8.0.23			trans_abort_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_replica	8.0.23			trans_close_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_trans_close_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_close_count_slave	8.0.23			trans_close_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_replica	8.0.23			trans_commit_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_trans_commit_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_commit_count_slave	8.0.23			trans_commit_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_replica	8.0.23			trans_local_read_row_count_replica			Yes	Global	No		Some	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_session	8.0.23						Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_local_read_row_count_slave	8.0.23			trans_local_read_row_count_slave			Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_api_trans_start_count	8.0.23						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		
Ndb_api_trans_start_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_trans_start_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_trans_start_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_uk_op_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_uk_op_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_uk_op_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_uk_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_exec_complete_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_exec_complete_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_wait_exec_complete_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_exec_complete_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_meta_request_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_meta_request_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_wait_meta_request_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_meta_request_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_nanos_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_nanos_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_wait_nanos_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_nanos_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_scan_result_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_scan_result_count_replica ndb-8.0.23	8.0.23						Yes	Global	No		Some	Yes	Yes	Yes		
Ndb_api_wait_scan_result_count_session							Yes	Session	No	Yes	Yes	Yes	Yes	Yes		
Ndb_api_wait_scan_result_count_slave ndb-8.0.23	8.0.23						Yes	Global	No	Yes	Yes	Yes	Yes	Yes		
ndb-application-allow-skip-epoch	8.0.28				Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
ndb_autoincrement_prefetch				Yes	Fetch	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb-batch-size				Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb-blob-				Yes	Yes	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
read-batch-bytes														
ndb-blob-write-batch-bytes				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_cache	5.7.20	8.0.11	de	Yes	Yes	Yes		Global	Yes	Yes				
ndb_clear_apply_status				Yes		Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb-cluster-connection-pool				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb-cluster-node-ids	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
Ndb_config_from_host						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Ndb_config_from_port						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_generation	8.0.24					Yes	Global	No		Some	Yes	Yes	Yes	Yes
ndb-8.0.24														
Ndb_conflict_fn_epoch						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch_trans						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_epoch2_trans						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_fn_max_del_win						Yes	Global	No		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-8.0.30														
Ndb_conflict_fn_old						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_conflict_epoch						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_last_stable_epoch						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_discard_count				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_reflected_op_prepare_count				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_refresh_op_count					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
ndb-8.0.23	ct_role			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
ndb-8.0.23														
Ndb_conflict_trans_conflict_commit_count				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_detect_iter_count				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_reject_count				Yes			Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_conflict_trans_row_conflict_count				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
Ndb_conflict_trans_row_reject_count					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
ndb-connectstring				Yes	Yes					Yes	Yes	Yes	Yes	Yes
ndb_d57a12ode_neighbo	5.7.12			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
ndb-d7.5.2														
ndb_d8.0.13eck_shares	8.0.13			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
ndb-d8.0.13														
ndb-d5.7.11-column-format	5.7.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
ndb-d5.7.11t_column_fo	5.7.11			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
ndb-d5.7.11														
ndb-deferred-constraints				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_deferred_constraint				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb-distribution				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_distribution				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_epoch_delete_delete_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
ndb_eventbuffer_free				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_eventbuffer_max_				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_execute_count						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
ndb_extra_logging				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_force_send				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_f5.7.12replicated	5.7.12			Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes
ndb-d7.5.2														
ndb_index_stat_enable				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_index_stat_option				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_join_pushdown						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_server						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ndb_last_commit_epoch_session						Yes	Session	No		Yes	Yes	Yes	Yes	Yes
ndb-log-apply-status				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_log_apply_status				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_log_bin				Yes		Yes		Both	No	Yes	Yes	Yes	Yes	Yes
ndb_log_binlog_index				Yes		Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb-log-empty-epochs				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_epochs				Yes	Yes	Yes		Global	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
ndb_log_empty_update				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_empty_update				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_exclusive_reads				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_log_exclusive_reads				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb-5.7.29-ndb-7.6.14, 8.0.21-terminates-ndb-8.0.21				Yes	Yes	Yes		Global	No	Some	Some	Yes	Yes	Yes
ndb_log_orig				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_log_orig				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_18.0.31_transaction_despresion	ndb-8.0.31			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
ndb_18.0.31_transaction_despresion	ndb-8.0.31			Yes	Yes	Yes	Yes_level_zst	Global	Yes		Some	Yes	Yes	Yes
ndb_log_transaction_dependency	8.0.33-ndb-8.0.33			Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
ndb_log_transaction_id				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_log_transaction_id				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_log_update_as_write				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb-5.7.18-ndb-7.6.3 update-minimal				Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
ndb_log_updated_only				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_m8.0.18-8.0.21-8.0.22_st_size	ndb-8.0.18-8.0.21-8.0.22				Yes	Global	No			Some				
ndb_m8.0.16_ta_check	ndb-8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
ndb_m8.0.16_ta_check_intervals	ndb-8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
Ndb_m 8.0.16 ndb-8.0.16	ta_detected_count						Yes	Global	No		Some	Yes	Yes	Yes
Ndb_m 8.0.18 ndb-8.0.22	ta_excluded_count						Yes	Global	No		Some	Yes	Yes	Yes
ndb_m 8.0.19 ndb-8.0.19	ta_sync					Yes		Global	Yes		Some	Yes	Yes	Yes
Ndb_m 8.0.18 ndb-8.0.18	ta_synced_count						Yes	Global	No		Some	Yes	Yes	Yes
ndb-mgm-tls				Yes	Yes	Yes		Global	No					Yes
ndb-mgmd-host				Yes	Yes					Yes	Yes	Yes	Yes	Yes
ndb-nodeid				Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_number_of_data_nodes							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
ndb-optimization-delay				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb-optimized-node-selection				Yes						Yes	Yes	Yes	Yes	Yes
ndb_optimized_node_selection	Yes	Yes	Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_pruned_scan_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_defined							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_dropped							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_queries_executed							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_pushed_reads							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
ndb_r 5.7.12 ndb-7.5.2	ackup			Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
ndb_recv_thread_active	Yes	Yes	Yes		Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_recv_thread_cpu_time	Yes	Yes	Yes					Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_r 8.0.30 ndb-8.0.30	a_batch_size	Yes	Yes	Yes				Global	Yes		Some	Yes	Yes	Yes
ndb_r 8.0.30 ndb-8.0.30	a_blob_write_size	Yes	Yes	Yes	batch_size	bytes		Global	Yes		Some	Yes	Yes	Yes
Ndb_replica 8.0.23 ndb-8.0.23	replicated_epoch	Yes						Global	No		Yes	Yes	Yes	Yes
ndb_report_thresh_bin	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_report_thresh_bin	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_r 5.7.23 ndb-7.6.8	checksum					Yes		Both	Yes	Some	Yes	Yes	Yes	Yes
Ndb_scan_count							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
ndb_s ndb-8.0.18	8.0.18- dist_lock	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
ndb_s ndb-8.0.17	8.0.17- schema dist- timeout		Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
ndb_s ndb-8.0.16	8.0.16- dist_timeo	Yes	Yes	Yes				Global	No		Some	Yes	Yes	Yes
ndb_s ndb-8.0.17	8.0.17- dist_upgrade	Yes	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes
ndb_show_foreign_key		Yes	Yes	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
ndb_slave_	8.0.23- dict_r	Yes	Yes	Yes				Global	Yes	Yes	Yes	Yes	Yes	Yes
Ndb_slave_max_replicated_epoch					Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ndb_s ndb-7.6.2	5.7.18- name				Yes			Global	No	Some	Yes	Yes	Yes	Yes
ndb_table_no_logging					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes
ndb_table_temporary					Yes			Session	Yes	Yes	Yes	Yes	Yes	Yes
ndb-tls- search- path				Yes	Yes	Yes		Global	No					Yes
Ndb_t ndb-8.0.17	8.0.17- hint_count_session				Yes		Both	No		Some	Yes	Yes	Yes	Yes
ndb_transid- mysql- connection- map				Yes						Yes	Yes	Yes	Yes	Yes
ndb_use_copying_alter_table				Yes				Both	No	Yes	Yes	Yes	Yes	Yes
ndb_use_exact_count				Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_use_transactions		Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
ndb_version				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
ndb_version_string				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
ndb_wait- connected				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndb_wait- setup				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes
ndbin	8.0.13- ndb-8.0.13			Yes						Some	Yes	Yes	Yes	Yes
ndbinfo_database					Yes			Global	No	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_bytes		Yes		Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_max_rows		Yes		Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_offline				Yes				Global	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
ndbinfo_show_hidden				Yes		Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ndbinfo_table_prefix						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
ndbinfo_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
net_buffer_length				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
net_read_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
net_retry_count				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
net_write_timeout				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
new		8.0.35, 8.2.0		Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ngram_token_size	5.7.6			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
no-dd-upgrade	8.0.4	8.0.16		Yes	Yes						Yes	Yes	Yes	Yes
no-defaults				Yes						Yes	Yes	Yes	Yes	Yes
no-monitor	8.0.12			Yes	Yes						Some	Yes	Yes	Yes
Not_flushed_delayed_rows	5.6.17					Yes		Global	No	Yes	Yes	Yes	Yes	Yes
offline_node	5.7.5			Yes	Yes	Yes		Global	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
old_password	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_transaction				Yes	act	Global	cont	No		Yes	Yes	Yes	Yes	Yes
Ongoing_anonymous_transaction_count				Yes		Global	No			Yes	Yes	Yes	Yes	Yes
Ongoing_automatic_gtid_violating_transaction				Yes	act	Global	cont	No		Yes	Yes	Yes	Yes	Yes
Open_files						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
open_files_limit			Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
Open_streams						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Open_table_definitions						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Open_tables						Yes		Both	No	Yes	Yes	Yes	Yes	Yes
Opened_files						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Opened_table_definitions						Yes		Both	No	Yes	Yes	Yes	Yes	Yes
Opened_tables						Yes		Both	No	Yes	Yes	Yes	Yes	Yes
optimizer_prune_level	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_search_depth	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_switch	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace	Yes	Yes	Yes					Both	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_features	Yes	Yes	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
optimizer_trace_limit	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_max_mem_size	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
optimizer_trace_offset	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
origin_8.0.1_commit_timestamp			Yes			Session	Yes			Yes	Yes	Yes	Yes	Yes
origin_8.0.14_server_version			Yes			Session	Yes			Some	Yes	Yes	Yes	Yes
parse_5.7.12_mem_size	Yes	Yes	Yes			Both	Yes	Some	Yes	Yes	Yes	Yes	Yes	Yes
partition_8.0.16_invokes		Yes	Yes	Yes		Global	Yes			Some	Yes	Yes	Yes	Yes
partition_5.7.16	Yes	Yes						Yes						
password_8.0.13_history	Yes	Yes	Yes			Global	Yes			Yes	Yes	Yes	Yes	Yes
password_8.0.13_require_current	Yes	Yes	Yes			Global	Yes			Some	Yes	Yes	Yes	Yes
password_8.0.13_reuse_interval	Yes	Yes	Yes			Global	Yes			Yes	Yes	Yes	Yes	Yes
performance_schema	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_accounts_lost			Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_accounts_unused	Yes	Yes	Yes	size	Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_classes_lost	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_cond_instances_lost	Yes		Yes	Global	No	Yes	Yes	Yes	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-events-statements-cpu	Yes	Yes								Some	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-current	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
performance-schema-consumer-events-statements-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-statements-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes
5.7.3 performance-schema-consumer-events-transactions-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes
5.7.3 performance-schema-consumer-events-transactions-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes
5.7.3 performance-schema-consumer-events-transactions-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-current				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-history				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-events-waits-history-long				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-				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
consumer-global-instrumentation														
performance-schema-consumer-statements-digest				Yes	Yes					Yes	Yes	Yes	Yes	Yes
performance-schema-consumer-thread-instrumentation				Yes	Yes					Yes	Yes	Yes	Yes	Yes
Performance_schema_digest_lost					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_digests_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_size	Yes	Yes	Yes			Global	No		Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no_size	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no_size_long	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no_size_long_5.7.3	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no_size_long_5.7.3	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_events_history_global_no_size_long_5.7.3	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_classes_lost				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_handles_lost				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_file_instances_lost				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_hosts_lost					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_hosts_size	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance_schema_index_stat_lost				Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance-schema-instrument				Yes	Yes					Yes	Yes	Yes	Yes	Yes
Performance_schema_locker_lost					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_com_classes	Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_com_instances	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_digest_length	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_digest_sample_age	Yes	Yes	Yes		Yes	Global	Yes		Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_file_classes	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_file_handles	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_file_instances	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_index_size	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_memory_classes	Yes	Yes	Yes		Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
performance_schema_max_mutex_locks	Yes	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
performance_schema_meter_instances	Yes	met	Yes	cl	Yes			Global	No				Yes	Yes
performance_schema_meter_classes	Yes	met	Yes	cl	Yes			Global	No				Yes	Yes
performance_schema_meter_mutations	Yes	mut	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_meter_instances	Yes	mut	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.4 performance_schema_prepared_statement_instances	Yes	pre	Yes	pre	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.2 performance_schema_program_instances	Yes	pro	Yes	pr	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_classes	Yes	rw	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_instances	Yes	rw	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_soc	Yes	soc	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_rwlock_instances	Yes	soc	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.6 performance_schema_mysql_length	Yes	sql	Yes	ext	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_mysql_tags	Yes	st	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_mysql_stm	Yes	st	Yes	men	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.2 performance_schema_stmt_stack	Yes	sta	Yes	men	Yes	stack		Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_stmt_handles	Yes	tab	Yes	ha	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_stmt_instances	Yes	tab	Yes	in	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.6 performance_schema_stmt_lo_stat	Yes	tab	Yes	lo	Yes	stat		Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_stmt_thrm	Yes	thrm	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_stmt_thrd_instances	Yes	thrm	Yes	in	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.2 performance_schema_memory_classes_lo	Yes	mem	Yes	cl	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.3 performance_schema_metadata_lock_lost	Yes	meta	Yes	lock	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_meter_lost			Yes					Global	No				Yes	Yes
Performance_schema_metric_lost			Yes					Global	No				Yes	Yes
Performance_schema_mutex_classes_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_mutex_instances_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_nested_statement_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
5.7.4 performance_schema_prepared_statement_lo			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
5.7.2 performance_schema_program_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_classes_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_rwlock_instances_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_session_connect_attrs_seen			Yes					Global	No	seen	Yes	Yes	Yes	Yes
Performance_schema_session_connect_attrs			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_session_connect_attrs	Yes	con	Yes	attr	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_session_connect_attrs_size	Yes	con	Yes	attr	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
performance_schema_session_connect_attrs_size	Yes	con	Yes	attr	Yes			Global	No	Yes	Yes	Yes	Yes	Yes
5.7.39 8.0.35 performance_schema_shares_lost	Yes	sh	Yes	pre	Yes			Global	Yes	Some	Some	Yes	Yes	Yes
8.0.22 8.2.0														
Performance_schema_socket_classes_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_socket_instances_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_stage_classes_lost			Yes					Global	No	Yes	Yes	Yes	Yes	Yes
Performance_schema_statement_classes_lost			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
Performance_schema_table_handles_lost					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Performance_schema_table_instances_lost					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Performance_schema_table_lock_stat	5.7.6				Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_classes_lost					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Performance_schema_thread_instances_lost					Yes		Global	No		Yes	Yes	Yes	Yes	Yes
Performance_schema_users_lost						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
performance_schema_users_lost					Yes	Yes	Yes			Global	No	Yes	Yes	Yes
persistently_admin_x	8.0.14				Yes	Yes	Yes					Some	Yes	Yes
persistently_sensitive_variables	8.0.20				Yes	Yes	Yes	Yes	aintext	Global	No		Some	Yes
persisted_globals_load					Yes	Yes	Yes			Global	No		Yes	Yes
pid_file					Yes	Yes	Yes			Global	No	Yes	Yes	Yes
plugin_dir					Yes	Yes	Yes			Global	No	Yes	Yes	Yes
plugin-load					Yes	Yes						Yes	Yes	Yes
plugin-load-add					Yes	Yes						Yes	Yes	Yes
plugin-xxx					Yes	Yes						Yes	Yes	Yes
port					Yes	Yes	Yes			Global	No	Yes	Yes	Yes
port-open-timeout					Yes	Yes						Yes	Yes	Yes
preload_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Prepared_stmt_count							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
print-defaults				Yes								Yes	Yes	Yes
print_statistics	8.0.17			Yes	Yes	Yes		Both	Yes			Some	Yes	Yes
profiling	5.6.8					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
profiling_history_size	5.6.8			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
proto_compression	8.0.18			Yes	Yes	Yes	Yes	Global	Yes			Some	Yes	Yes
protocol_version						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
proxy_user						Yes		Session	No	Yes	Yes	Yes	Yes	Yes
pseudo_sticky_mode	8.0.26					Yes		Session	Yes			Some	Yes	Yes
pseudo_slave	8.0.26					Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
pseudo_thread_id						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
Qcache_free_blocks	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_free_blocks	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_hit	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_insert	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_low_water	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_not_flush	5.7.20	8.0.3					Yes	Global	No	Yes				
Qcache_query	5.7.20	8.0.3	cache				Yes	Global	No	Yes				

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
Qcache_tot	5.1.7_20.8.0.3						Yes	Global	No	Yes				
Queries							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
query_alloc_block_size	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Global	Yes	Yes					
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Global	Yes	Yes					
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Global	Yes	Yes					
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Global	Yes	Yes					
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Both	Yes	Yes					
query_cach	5.7.20.8.0.3	Yes	Yes	Yes			Both	Yes	Yes					
query_prea	8.0.29_size	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Questions							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
rand_seed1						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
rand_seed2						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
range_alloc_block_size	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
range_imizer_max_m	Yes	Yes	Yes				Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rbr_e	5.7.1_mode					Yes		Session	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_8.0.4_stack_limit	Yes	Yes	Yes				Global	Yes		Yes	Yes	Yes	Yes	Yes
regex_8.0.4_me_limit	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_8.0.18_file		Yes	Yes	Yes			Global	No	Yes	Yes	Yes	Yes	Yes	
relay_log_8.0.23_repos	Yes	Yes	Yes				Global	Yes	Yes	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
repli	8.0.26_low_batching	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
	ndb-8.0.26													
repli	8.0.26_ecckpoint_g	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_ecckpoint_p	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_impressed_p	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_ec_mode	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_ad_tmpdir	Yes	Yes	Yes			Global	No		Some	Yes	Yes	Yes	Yes
repli	8.0.26_px_allowed_p	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_lt_timeout	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Repli	8.0.26_en_temp_tables					Yes	Global	No		Some	Yes	Yes	Yes	Yes
repli	8.0.26_8.0.29_ll_type	Yes	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
repli	8.0.26_parallel_wor	Yes	Yes	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
replicate_8.0.26_pending_jobs	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
replicate_8.0.26_reserve_commits	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
Replicate_8.0.26_ws_last_search_algorithm	Yes	Yes	Yes	Yes	Yes	Yes		Global	No		Some	Yes	Yes	
replicate_8.0.26_ip_errors	Yes	Yes	Yes	Yes	Yes	Yes		Global	No		Some	Yes	Yes	Yes
replicate_8.0.26_ll_verify_checksums	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
replicate_8.0.26_transaction_requires	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
replicate_8.0.26ope_conversations	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
replicate-do-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-do-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-ignore-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-ignore-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-rewrite-db				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-same-server-id				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-wild-do-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate-wild-ignore-table				Yes	Yes					Yes	Yes	Yes	Yes	Yes
replicate_5.7.33n_optimize_for_sticky_plugins	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Some	Yes	Yes	Yes	Yes
replicate_5.7.33n_sender_observer_compatibility_only	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Some	Some	Yes	Yes	Yes	Yes
report_host				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
report_password				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
report_port				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
report_user				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
require_8.0.19ow_format					Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
require_5.7.8ecure_transparent	Yes	Yes	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resource_8.0.31group_supported						Yes	Global	No		Some	Yes	Yes	Yes	Yes
result_8.0.3_metadata					Yes		Session	Yes		Yes	Yes	Yes	Yes	Yes
rewrite_5.7.6enabled					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
rewritten_for_threads_without_privileges	8.0.31	Enabled for threads without privileges		Yes	out_privileges	Global	Yes	checks		Some	Yes	Yes	Yes	Yes
Rewritten_number_loaded_rules	5.7.6					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewritten_number_reloads	5.7.6					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewritten_number_rewritten_queries	5.7.6					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rewritten_reload_error	5.7.6					Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rewritten_verbose	5.7.6					Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
rpl_size	8.0.11			Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
Rpl_semi_sync_master_clients						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_yesable	Yes	able	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_avg_wait_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_wait_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_net_waits						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_times						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_no_tx						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_status						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_timefunc_failures						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_yesmed	Yes	med	Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_yesace	Yes	ace	Yes	Yes	level	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_avg_wait_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_wait_time						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_tx_waits						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_size	5.7.13			Yes	it	Yes	slave	count	Global	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_yesit	Yes	it	Yes	slave			Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_master_yesint	Yes	it	Yes	int	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_pos_backtrace						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_wait_sessions						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_master_yes_tx						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_size	8.0.26			Yes	nable	Yes	Yes		Global	Yes		Some	Yes	Yes
Rpl_semi_sync_replica_status	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_replica_yesrace	Yes	race	Yes	slave	Yes		Global	Yes		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_yesable	Yes	able	Yes	slave	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_slave_status						Yes	Global	No	Yes	Yes	Yes	Yes	Yes	Yes
rpl_semi_sync_slave_yesace	Yes	ace	Yes	slave	level	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_clients	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
rpl_semi_sync_source_yesable	Yes	able	Yes	Yes			Global	Yes		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_avg_wait_time	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_wait_time	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_net_waits	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_times	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_no_tx	8.0.26					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Rpl_semi_sync_source_status	8.0.26					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
Rpl_sync_source_time	8.0.26			func_failure	Yes		Global	No		Some	Yes	Yes	Yes	Yes
rpl_sync_source_time	8.0.26		Y	med	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
rpl_sync_source_time	8.0.26		Y	ace	Yes	Yes	Y	Global	Yes		Some	Yes	Yes	Yes
Rpl_sync_source_tx_avg_wait_time	8.0.26				Yes			Global	No		Some	Yes	Yes	Yes
Rpl_sync_source_tx_wait_time	8.0.26				Yes		Yes	Global	No		Some	Yes	Yes	Yes
Rpl_sync_source_tx_waits	8.0.26					Yes		Global	No		Some	Yes	Yes	Yes
rpl_sync_source_tx_waits	8.0.26		Y	it	Yes	Y	es	Global	Yes		Some	Yes	Yes	Yes
rpl_sync_source_tx_waits	8.0.26		Y	it	Yes	Y	re	Global	Yes		Some	Yes	Yes	Yes
rpl_sync_source_tx_waits	8.0.26		Y	it	Yes	Y	int	Global	Yes		Some	Yes	Yes	Yes
Rpl_sync_source_wait_pos_backtr	8.0.26				Yes	erse		Global	No		Some	Yes	Yes	Yes
Rpl_sync_source_wait_sessions	8.0.26				Yes		Global	No			Some	Yes	Yes	Yes
Rpl_sync_source_yes_tx	8.0.26					Yes		Global	No		Some	Yes	Yes	Yes
rpl_sync_source_timeout	8.0.26		Y	est	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
rpl572s8.0.26timeout	8.0.26		Y	es	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Rsa_public_key							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
safe-user-create	8.0.11		Y	es	Yes					Yes	Yes	Yes	Yes	Yes
schema_definition_cad			Y	es	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
secon8.0.16engine_cost_threshold	8.0.16		Y	es				Session	Yes		Some	Yes	Yes	Yes
Secon8.0.13engine_execution_count	8.0.13				Yes		Both	No			Some	Yes	Yes	Yes
secure_auth5.7.5 8.0.3	5.7.5	8.0.3	Y	es	Yes	Yes		Global	Yes	Yes				
secure_file_priv			Y	es	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Select_full_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Select_full_range_join							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
select8.0.22o_buffer_size	8.0.22		Y	es	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
select8.0.22o_disk_sync	8.0.22		Y	es	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
select8.0.22o_disk_sync_size	8.0.22		Y	el	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
Select_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Select_range_check							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Select_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
server_id			Y	es	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
server_id_bits			Y	es	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
server_uuid						Yes		Global	No	Yes	Yes	Yes	Yes	Yes
sessi5r7.6rack_gtids	5r7.6		Y	es	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sessi5r7.4rack_schema	5r7.4		Y	es	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sessi5r7.4rack_state_change	5r7.4		Y	es	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sessi5r7.4rack_system_st	5r7.4		Y	ries	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sessi5r7.8rack_transact	5r7.8		Y	on	Yes	fo	Yes	Both	Yes	Yes	Yes	Yes	Yes	Yes
set_operations_buffer			Y	size	Yes	Yes	Yes	Both	Yes				Yes	Yes
sha256.75password_auto	5.7.5		Y	ther	Yes	Y	es	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
sha256_password_private				Yes	key_path	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
sha256_password_proxy	5.7.7			Yes	sem	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	Yes
sha256_password_public				Yes	key_path	Yes	Yes	Global	No	Yes	Yes	Yes	Yes	Yes
shared_memory				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
shared_memory_base_name				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
show_57mpa5ib618t0158	5.7.6	5.7.6	8.0.158	Yes	Yes	Yes		Global	Yes	Yes				
show_8r018e_table_skip				Yes	sec	Yes	binary_engine	Session	Yes		Some	Yes	Yes	Yes
show_57e22e_table_ve	5.7.22		8.0.11	Yes	Yes	Yes		Both	Yes	Some	Yes	Yes	Yes	Yes
show_8j030in_create_t				Yes	le	Yes	and_information	Both	Yes		Some	Yes	Yes	Yes
show_57d6t5n624als	5.7.6	5.7.6	5.7.24	Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
show-replica-auth-info	8.0.26			Yes	Yes						Some	Yes	Yes	Yes
show-slave-auth-info		8.0.26		Yes	Yes					Yes	Yes	Yes	Yes	Yes
skip_5f75d5162357.6t	5.7.5	5.7.6	5.7.6	Yes	redo	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
skip-grant-tables				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
skip_ndbcluster				Yes	Yes					Yes	Yes	Yes	Yes	Yes
skip_networking				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
skip_new		8.0.35, 8.2.0		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
skip_show_database				Yes	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
skip-slave-start		8.0.26		Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
skip-ssl				Yes	Yes					Yes	Yes	Yes	Yes	Yes
skip-stack-trace				Yes	Yes					Yes	Yes	Yes	Yes	Yes
slave_alloc	8.0.26	changing		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_checkpoint_group	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_checkpoint_period	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_compression_protocol	8.0.18	ndb-8.0.26		Yes	Yes			Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_exec_mode				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Slave_hearbeat_period	5.7.6	8.0.1					Yes	Global	No	Yes				
Slave_lastheartbeat	5.7.6	8.0.1					Yes	Global	No	Yes				
slave_load_parallel	8.0.26			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
slave_max_paged_packets	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_net_timeout	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Slave_open_temp_tables	8.0.26						Yes	Global	No	Yes	Yes	Yes	Yes	Yes
slave_parallel_type	5.7.2	8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_parallel_workers	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_pending_observation_time	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_preserve_commit_order	5.7.5	8.0.26		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Slave_receive_beats	5.7.6	8.0.1					Yes	Global	No	Yes				
Slave_retractions	5.7.6	8.0.1					Yes	Global	No	Yes				
Slave_rows_search_algorithm_used	8.0.26			Yes				Global	No	Yes	Yes	Yes	Yes	Yes
slave_rowsearch_algorithm	8.0.18			Yes	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
slave-sql-verify-checksum				Yes	Yes					Yes	Yes	Yes	Yes	Yes
slave_sql_checksum	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_transaction_retries	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slave_type_versions	8.0.26			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Slow_launch_threads							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
slow_launch_time				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Slow_queries							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
slow_query_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
slow_query_log_file				Yes	Yes	Yes		Global	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
slow-start-timeout				Yes	Yes					Yes	Yes	Yes	Yes	Yes
socket				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
sort_buffer_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
Sort_merge_passes							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Sort_range							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Sort_rows							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Sort_scan							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
source	8.0.26	ify_checks		Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
sporadic-binlog-dump-fail				Yes	Yes					Yes	Yes	Yes	Yes	Yes
sql_auto_is_null						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_big_selects						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_buffer_result						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_generate_invisible	8.0.30			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
sql_log_bin						Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes
sql_log_off						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_mode				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_notes						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_quote_show_create						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_relay_skip_counter	8.0.26					Yes		Global	Yes		Some	Yes	Yes	Yes
sql_relay_primary	8.0.13			Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes
sql_safe_updates						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_select_limit						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
sql_slave	8.0.26	counter				Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
sql_warnings						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
ssl	8.0.26			Yes	Yes					Yes	Yes	Yes	Yes	Yes
Ssl_accept_renegotiates						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ssl_accepts						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
ssl_ca				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
Ssl_callback_cache_hits						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
ssl_capath				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
ssl_cert				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
Ssl_cipher						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
ssl_cipher				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
Ssl_cipher_list						Yes	Both	No		Yes	Yes	Yes	Yes	Yes
Ssl_client_connects						Yes	Global	No		Yes	Yes	Yes	Yes	Yes
Ssl_connect_renegotiates						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
ssl_crl				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
ssl_crlpath				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
Ssl_ctx_verify_depth							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_ctx_verify_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_default_timeout							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Ssl_finished_accepts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_finished_connects							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
ssl_f _{8.0.11-8.0.34}				Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
ssl_key				Yes	Yes	Yes		Global	Varies	Yes	Yes	Yes	Yes	Yes
Ssl_server_not_after							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Ssl_server_not_before							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_hits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_misses							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_mode							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
ssl_s _{8.0.29} n_cache_mode				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
Ssl_session_cache_overflows							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_session_cache_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_s _{8.0.29} n_cache_timeout							Yes	Global	No		Some	Yes	Yes	Yes
ssl_s _{8.0.29} n_cache_timeout				Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
Ssl_session_cache_timeouts							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_sessions_reused							Yes	Session	No	Yes	Yes	Yes	Yes	Yes
Ssl_used_session_cache_entries							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Ssl_verify_depth							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Ssl_verify_mode							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Ssl_version							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
standalone				Yes	Yes					Yes	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
stored_program_definition	Yes	Yes	Yes	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
super-large-pages				Yes	Yes					Yes	Yes	Yes	Yes	Yes
superread_only	5.7.8	8.0.2		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
symbolic-links		8.0.2		Yes	Yes					Yes	Yes	Yes	Yes	Yes
sync_binlog				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
sync_frm	5.7.6			Yes	Yes	Yes		Global	Yes	Yes				
sync_master	8.0.26	8.0.34		Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay_log				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
sync_relay_info	8.0.34			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
sync_slave_info	8.0.26			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
sysdate-is-now				Yes	Yes					Yes	Yes	Yes	Yes	Yes
sysev8r.13g.facility	8r.13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
sysev8r.13g.include_p	8r.13			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
sysev8r.13g.tag	8r.13			Yes	Yes	Yes		Global	Yes		Some	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
table8.16option_priv	8.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
Table_locks_immediate							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Table_locks_waited							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
table_open_cache				Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes
Table_open_cache_hits							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
table_open_cache_inst				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
Table_open_cache_misses							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
Table_open_cache_overflows							Yes	Both	No	Yes	Yes	Yes	Yes	Yes
tablespace_definition				Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes
tc-heuristic-recover				Yes	Yes					Yes	Yes	Yes	Yes	Yes
Tc_log_max_pages_used							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Tc_log_page_size							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Tc_log_page_waits							Yes	Global	No	Yes	Yes	Yes	Yes	Yes
Telemetry_metrics_supported							Yes	Global	No			Yes	Yes	Yes
Telem8r.33traces_supported	8r.33						Yes	Global	No		Some	Yes	Yes	Yes
telemetry.live_sessions							Yes	Global	No			Yes	Yes	Yes
telemetry.metrics_reader_frequency_1				Yes				Global	No					Yes
telemetry.metrics_reader_frequency_2				Yes				Global	No					Yes
telemetry.metrics_reader_frequency_3				Yes				Global	No					Yes
telemetry.otel_bsp_max_export_batch_size				Yes				Global	No			Yes	Yes	Yes
telemetry.otel_bsp_max_queue_size				Yes				Global	No			Yes	Yes	Yes
telemetry.otel_bsp_schedule_delay				Yes				Global	No			Yes	Yes	Yes
telemetry.otel_exporter_otlp_metrics_cert				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_ciph				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_ciph				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_client				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_client				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_compre				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_endpo				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_head				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_max_				Yes				Global	No					Yes
telemetry.otel_exporter_otlp_metrics_min_				Yes				Global	No					Yes

Name	Intr	Depr	Rem	Cmd	Cnf	Srvr	Stat	Scope	Dyn	5.7	8.0	8.1	8.2	8.3
telemetry.otel_exporter_otlp_me			Yes	ics_prot	Global	No								Yes
telemetry.otel_exporter_otlp_me			Yes	ics_time	Global	No								Yes
telemetry.otel_exporter_otlp_tr			Yes	es_certifi	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_ciph	Global	No								Yes
telemetry.otel_exporter_otlp_tr			Yes	es_ciph	Global	No								Yes
telemetry.otel_exporter_otlp_tr			Yes	es_client	Global	No	Notifies			Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_client	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_compre	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_endpo	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_headin	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_max_t	Global	No								Yes
telemetry.otel_exporter_otlp_tr			Yes	es_min_t	Global	No								Yes
telemetry.otel_exporter_otlp_tr			Yes	es_prot	Global	No				Yes	Yes	Yes		
telemetry.otel_exporter_otlp_tr			Yes	es_timeou	Global	No				Yes	Yes	Yes		
telemetry.otel_log_level			Yes		Global	Yes				Yes	Yes	Yes		
telemetry.otel_resource_attributes			Yes		Global	No				Yes	Yes	Yes		
telemetry.query_text_enabled			Yes		Global	Yes				Yes	Yes	Yes		
telemetry.trace_enabled			Yes		Global	Yes				Yes	Yes	Yes		
temp-pool	5.7.18	8.0.1	Yes	Yes					Yes					
tempt	8.0.23	max_mmap	Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes	
tempt	8.0.2	max_ram	Yes	Yes	Yes		Global	Yes		Yes	Yes	Yes	Yes	
tempt	8.0.16	8.0.26	max_map	Yes	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	
termi	8.0.26	try_use_previ	Yes	Yes	Yes		Both	Yes		Some	Yes	Yes	Yes	
thread_cache_size			Yes	Yes	Yes		Global	Yes	Yes	Yes	Yes	Yes	Yes	
thread_con	5.6.1	5.7.2	Yes	Yes	Yes		Global	No						
thread_handling			Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes	
thread	5.7.9	8.0.11	pool_algorithm	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
threa	8.0.23	pool_dedicated	Yes	Yes	Yes	Yes	Global	No		Some	Yes	Yes	Yes	
threa	5.7.9	8.0.11	pool_high_pri	Yes	Yes	Yes	Yes	Both	Yes	Yes	Yes	Yes	Yes	
threa	8.0.19	8.0.23	pool_max_acti	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	
threa	8.0.23	8.0.23	pool_max_transac	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	
threa	5.7.9	8.0.11	pool_max_unused	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	
threa	5.7.9	8.0.11	pool_prio_kick	Yes	Yes	Yes	Yes	Global	Yes	Yes	Yes	Yes	Yes	
threa	8.0.31	8.0.31	pool_query_threa	Yes	Yes	Yes	Yes	Global	Yes	Some	Yes	Yes	Yes	
threa	5.7.9	8.0.11	pool_size	Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	
threa	5.7.9	8.0.11	pool_stall_lim	Yes	Yes	Yes		Global	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
thread_pool_transactions	8.0.31			Yes_deprecated	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
thread_stack				Yes	Yes	Yes		Global	No	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					
time_zone					Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes	Yes
timed_mutex	5.5.39, 5.7.5 5.6.20			Yes	Yes	Yes		Global	Yes					
timestamp					Yes		Session	Yes	Yes	Yes	Yes	Yes	Yes	Yes
tls_certificates_enforced	Yes			Yes	Yes	Yes		Global	No		Yes	Yes	Yes	Yes
tls_ciphersuites	8.0.16			Yes	Yes	Yes		Global	Yes		Some	Yes	Yes	Yes
Tls_low_version	8.0.30					Yes	Global	No		Some	Yes	Yes	Yes	Yes
Tls_sni_server_name						Yes	Session	No			Yes	Yes	Yes	Yes
tls_versions	5.7.10			Yes	Yes	Yes		Global	Varies	Some	Yes	Yes	Yes	Yes
tmp_table_size				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
tmpdir				Yes	Yes	Yes		Global	No	Yes	Yes	Yes	Yes	Yes
transaction_alloc_blocks	Yes_size			Yes	Yes	Yes		Both	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
transaction_alloc_size	8.0.29			Yes_size	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
transaction_read_only				Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
transaction_set	5.7.6 or 8.0.26			Yes_size	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	
tx_isolation	5.7.20	8.0.3				Yes		Both	Yes	Yes				
tx_readonly	5.7.20	8.0.3				Yes		Both	Yes	Yes				
unique_checks						Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
updatable_views_with_limit	Yes_size			Yes	Yes	Yes		Both	Yes	Yes	Yes	Yes	Yes	Yes
upgrade	8.0.16			Yes	Yes					Some	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_solaris_bar_engine	8.0.13				Yes		Session	Yes		Some	Yes	Yes	Yes	Yes
user				Yes	Yes					Yes	Yes	Yes	Yes	Yes
valid_config	8.0.16			Yes	Yes					Some	Yes	Yes	Yes	Yes
validate_password				Yes	Yes					Yes	Yes	Yes	Yes	Yes
validate_password_check	5.7.15			Yes_use_name	Yes	Yes		Global	Yes	Some	Yes	Yes	Yes	Yes
validate_password_dictionnaries	5.7.15			Yes_name	Yes	Yes		Global	Varies	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
validate_password_dictionary_file_length	5.7	8			Yes	password	Global	No		Yes	Yes	Yes	Yes	Yes
validate_password_dictionary_file_words	5.7	8			Yes	password	Global	No		Yes	Yes	Yes	Yes	Yes
validate_password_length	Yes		Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password_mixed_case	Yes	case	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password_number	Yes	digit	Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password_policy	Yes		Yes	Yes			Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password_special_characters	Yes	alphanumeric	Yes	Yes	unt		Global	Yes		Yes	Yes	Yes	Yes	Yes
validate_password_changed	8.0.34	password.changed	Yes	Yes	arbitrary	Y	users_per	Global	Yes		Some	Yes	Yes	Yes
validate_password_check_user_name	8.0.4	password.check_user_name	Yes	Yes	name	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_dictionary_file_name	8.0.4	password.dictionary_file_name	Yes	Yes	file	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_dictionary_file_length	8.0.4	password.dictionary_file_length	Yes	Yes	password	Y		Global	No		Yes	Yes	Yes	Yes
validate_password_dictionary_file_words	8.0.4	password.dictionary_file_words	Yes	Yes	password	Y		Global	No		Yes	Yes	Yes	Yes
validate_password_length	8.0.4	password.length	Yes	Yes	Yes	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_mixed_case	8.0.4	password.mixed_case	Yes	Yes	case	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_number	8.0.4	password.number	Yes	Yes	digit	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_policy	8.0.4	password.policy	Yes	Yes	Yes	Y		Global	Yes		Yes	Yes	Yes	Yes
validate_password_special_characters	8.0.4	password.special_characters	Yes	Yes	alphanumeric	Y	unt	Global	Yes		Yes	Yes	Yes	Yes
validate_user_plugins			Yes	Yes						Yes	Yes	Yes	Yes	Yes
verbose			Yes	Yes						Yes	Yes	Yes	Yes	Yes
version				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
version_comment				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
version_compile_machine				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
version_compile_os				Yes				Global	No	Yes	Yes	Yes	Yes	Yes
version_compile_zlib	8.0.11	tmpfile_zlib		Yes				Global	No		Yes	Yes	Yes	Yes
version_tokens_session	5.7.8	tokens_session	Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
version_tokens_session_number	5.7.8	tokens_session_number	Yes	Yes	Yes			Both	No	Yes	Yes	Yes	Yes	Yes
wait_timeout			Yes	Yes	Yes			Both	Yes	Yes	Yes	Yes	Yes	Yes
warning_count				Yes				Session	No	Yes	Yes	Yes	Yes	Yes
window_use_high_precision	8.0.2	use_high_precision	Yes	is	Yes	Yes		Both	Yes		Yes	Yes	Yes	Yes
xa_defer_prepare	8.0.29	on_prepare	Yes	Yes	Yes			Both	Yes		Some	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 autoscaling; 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
- **`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_io_capacity_max`](#)

Value parameter changes in version 8.0.29 (platform=Unix, bitsize=64):

- Default is $2 * \text{innodb_io_capacity}$, min of 2000, minimum is 100, maximum is $2^{**64}-1$

- [`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 127Value 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-1

Value 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

- **`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_log_bin**](#)

Value parameter changes in version 8.0.16-ndb-8.0.16:

- Default is OFF

- [**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_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

- **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

- **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
- **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

- **`syseventlog.facility`**

Introduced in version 8.0.13

- **`syseventlog.include_pid`**

Introduced in version 8.0.13

- **`syseventlog.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-tls-search-path`](#)

Introduced in version 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

Chapter 2 Built-In Functions and Operators

The following table shows all built-in functions and operators available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
&				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
->	5.7.9			Yes	Yes	Yes	Yes	Yes
->>	5.7.13			Some	Yes	Yes	Yes	Yes
/				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
<code>:=</code>				Yes	Yes	Yes	Yes	Yes
<code>=</code>				Yes	Yes	Yes	Yes	Yes
<code>=</code>				Yes	Yes	Yes	Yes	Yes
<code>^</code>				Yes	Yes	Yes	Yes	Yes
<code>ABS()</code>				Yes	Yes	Yes	Yes	Yes
<code>ACOS()</code>				Yes	Yes	Yes	Yes	Yes
<code>ADDDATE()</code>				Yes	Yes	Yes	Yes	Yes
<code>ADDTIME()</code>				Yes	Yes	Yes	Yes	Yes
<code>AES_DECRYPT()</code>				Yes	Yes	Yes	Yes	Yes
<code>AES_ENCRYPT()</code>				Yes	Yes	Yes	Yes	Yes
<code>AND, &&</code>				Yes	Yes	Yes	Yes	Yes
<code>ANY_VALUE</code>	5.7.5			Yes	Yes	Yes	Yes	Yes
<code>Area()</code>		5.7.6		Yes				
<code>AsBinary()</code> , <code>AsWKB()</code>		5.7.6		Yes				
<code>ASCII()</code>				Yes	Yes	Yes	Yes	Yes
<code>ASIN()</code>				Yes	Yes	Yes	Yes	Yes
<code>AsText()</code> , <code>AsWKT()</code>		5.7.6		Yes				
<code>asynchronous</code>	8.0.23	<code>connection_failover_add_manager()</code>		Some	Yes	Yes	Yes	Yes
<code>asynchronous</code>	8.0.22	<code>connection_failover_add_source()</code>		Some	Yes	Yes	Yes	Yes
<code>asynchronous</code>	8.0.23	<code>connection_failover_delete_manager()</code>		Some	Yes	Yes	Yes	Yes
<code>asynchronous</code>	8.0.22	<code>connection_failover_delete_source()</code>		Some	Yes	Yes	Yes	Yes
<code>asynchronous</code>	8.0.27	<code>connection_failover_reset()</code>		Some	Yes	Yes	Yes	Yes
<code>ATAN()</code>				Yes	Yes	Yes	Yes	Yes
<code>ATAN2()</code> , <code>ATAN()</code>				Yes	Yes	Yes	Yes	Yes
<code>AVG()</code>				Yes	Yes	Yes	Yes	Yes
<code>BENCHMARK()</code>				Yes	Yes	Yes	Yes	Yes
<code>BETWEEN ...</code> <code>AND ...</code>				Yes	Yes	Yes	Yes	Yes
<code>BIN()</code>				Yes	Yes	Yes	Yes	Yes
<code>BIN_TO_UUID()</code>					Yes	Yes	Yes	Yes
<code>BINARY</code>	8.0.27			Yes	Yes	Yes	Yes	Yes
<code>BIT_AND()</code>				Yes	Yes	Yes	Yes	Yes
<code>BIT_COUNT()</code>				Yes	Yes	Yes	Yes	Yes
<code>BIT_LENGTH()</code>				Yes	Yes	Yes	Yes	Yes
<code>BIT_OR()</code>				Yes	Yes	Yes	Yes	Yes
<code>BIT_XOR()</code>				Yes	Yes	Yes	Yes	Yes
<code>Buffer()</code>	5.7.6			Yes				
<code>CAN_ACCESS_COLUMN()</code>					Yes	Yes	Yes	Yes
<code>CAN_ACCESS_DATABASE()</code>					Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
CAN_ACCESS_TABLE()				Yes	Yes	Yes	Yes	Yes
CAN_ACCESS_TABLE() <small>8.0.22</small>				Some	Yes	Yes	Yes	Yes
CAN_ACCESS_VIEW()				Yes	Yes	Yes	Yes	Yes
CASE				Yes	Yes	Yes	Yes	Yes
CAST()				Yes	Yes	Yes	Yes	Yes
CEIL()				Yes	Yes	Yes	Yes	Yes
CEILING()				Yes	Yes	Yes	Yes	Yes
Centroid()	5.7.6			Yes				
CHAR()				Yes	Yes	Yes	Yes	Yes
CHAR_LENGTH()				Yes	Yes	Yes	Yes	Yes
CHARACTER_LENGTH()				Yes	Yes	Yes	Yes	Yes
CHARSET()				Yes	Yes	Yes	Yes	Yes
COALESCE()				Yes	Yes	Yes	Yes	Yes
COERCIBILITY()				Yes	Yes	Yes	Yes	Yes
COLLATION()				Yes	Yes	Yes	Yes	Yes
COMPRESS()				Yes	Yes	Yes	Yes	Yes
CONCAT()				Yes	Yes	Yes	Yes	Yes
CONCAT_WS()				Yes	Yes	Yes	Yes	Yes
CONNECTION_ID()				Yes	Yes	Yes	Yes	Yes
Contains()	5.7.6			Yes				
CONV()				Yes	Yes	Yes	Yes	Yes
CONVERT()				Yes	Yes	Yes	Yes	Yes
CONVERT_TZ()				Yes	Yes	Yes	Yes	Yes
ConvexHull()	5.7.5	5.7.6		Yes				
COS()				Yes	Yes	Yes	Yes	Yes
COT()				Yes	Yes	Yes	Yes	Yes
COUNT()				Yes	Yes	Yes	Yes	Yes
COUNT(DISTINCT)				Yes	Yes	Yes	Yes	Yes
CRC32()				Yes	Yes	Yes	Yes	Yes
Crosses()	5.7.6			Yes				
CUME_DIST()	8.0.2			Yes	Yes	Yes	Yes	Yes
CURDATE()				Yes	Yes	Yes	Yes	Yes
CURRENT_DATE(), CURRENT_DATE				Yes	Yes	Yes	Yes	Yes
CURRENT_ROLE()				Yes	Yes	Yes	Yes	Yes
CURRENT_TIME(), CURRENT_TIME				Yes	Yes	Yes	Yes	Yes
CURRENT_TIMESTAMP(), CURRENT_TIMESTAMP				Yes	Yes	Yes	Yes	Yes
CURRENT_USER(), CURRENT_USER				Yes	Yes	Yes	Yes	Yes
CURTIME()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
DATABASE()				Yes	Yes	Yes	Yes	Yes
DATE()				Yes	Yes	Yes	Yes	Yes
DATE_ADD()				Yes	Yes	Yes	Yes	Yes
DATE_FORMAT()				Yes	Yes	Yes	Yes	Yes
DATE_SUB()				Yes	Yes	Yes	Yes	Yes
DATEDIFF()				Yes	Yes	Yes	Yes	Yes
DAY()				Yes	Yes	Yes	Yes	Yes
DAYNAME()				Yes	Yes	Yes	Yes	Yes
DAYOFMONTH()				Yes	Yes	Yes	Yes	Yes
DAYOFWEEK()				Yes	Yes	Yes	Yes	Yes
DAYOFYEAR()				Yes	Yes	Yes	Yes	Yes
DECODE()	5.7.2	8.0.3		Yes				
DEFAULT()				Yes	Yes	Yes	Yes	Yes
DEGREES()				Yes	Yes	Yes	Yes	Yes
DENSE_RANK()	8.0.2				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	5.7.5	5.7.6		Yes				
DIV				Yes	Yes	Yes	Yes	Yes
ELT()				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				
EXP()				Yes	Yes	Yes	Yes	Yes
EXPORT_SET()				Yes	Yes	Yes	Yes	Yes
ExteriorRing()	5.7.6			Yes				
EXTRACT()				Yes	Yes	Yes	Yes	Yes
ExtractValue()				Yes	Yes	Yes	Yes	Yes
FIELD()				Yes	Yes	Yes	Yes	Yes
FIND_IN_SET()				Yes	Yes	Yes	Yes	Yes
FIRST_VALUE()	8.0.2				Yes	Yes	Yes	Yes
FLOOR()				Yes	Yes	Yes	Yes	Yes
FORMAT()				Yes	Yes	Yes	Yes	Yes
FORMAT_B()	8.0.16				Some	Yes	Yes	Yes
FORMAT_P()	8.0.16	TIME()			Some	Yes	Yes	Yes
FOUND_ROWS()				Yes	Yes	Yes	Yes	Yes
FROM_BASE64()				Yes	Yes			

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
FROM_DAYS()				Yes	Yes	Yes	Yes	Yes
FROM_UNIXTIME()				Yes	Yes	Yes	Yes	Yes
GeomCollection()	8.0.11				Yes	Yes	Yes	Yes
GeomCollectionFromText()	5.7.6			Yes				
GeomCollectionFromWKB()	5.7.6			Yes				
GeometryCollection()				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
GET_DD_CREATE_OPTIONS()					Yes	Yes	Yes	Yes
GET_DD_INDEX_SUB_PART_LENGTH()					Yes	Yes	Yes	Yes
GET_FORMAT()				Yes	Yes	Yes	Yes	Yes
GET_LOCK()				Yes	Yes	Yes	Yes	Yes
GLength()	5.7.6			Yes				
GREATEST()				Yes	Yes	Yes	Yes	Yes
GROUP_CONCAT()				Yes	Yes	Yes	Yes	Yes
group_replication_disable_member_action()	8.0.26			Some	Yes	Yes	Yes	Yes
group_replication_enable_member_action()	8.0.26			Some	Yes	Yes	Yes	Yes
group_replication_get_communication_protocol()	8.0.16			Some	Yes	Yes	Yes	Yes
group_replication_get_write_concurrency()	8.0.13			Some	Yes	Yes	Yes	Yes
group_replication_reset_member_actions()	8.0.26			Some	Yes	Yes	Yes	Yes
group_replication_set_as_primary()	8.0.29			Some	Yes	Yes	Yes	Yes
group_replication_set_communication_protocol()	8.0.16			Some	Yes	Yes	Yes	Yes
group_replication_set_write_concurrency()	8.0.13			Some	Yes	Yes	Yes	Yes
group_replication_switch_to_multi_primary()	8.0.13			Some	Yes	Yes	Yes	Yes
group_replication_switch_to_single_primary()	8.0.13			Some	Yes	Yes	Yes	Yes
GROUPING	8.0.1				Yes	Yes	Yes	Yes
GTID_SUBSET()				Yes	Yes			
GTID_SUBTRACT()				Yes	Yes			
HEX()				Yes	Yes	Yes	Yes	Yes
HOUR()				Yes	Yes	Yes	Yes	Yes
ICU_VERSION()	8.0.4				Yes	Yes	Yes	Yes
IF()				Yes	Yes	Yes	Yes	Yes
IFNULL()				Yes	Yes	Yes	Yes	Yes
IN()				Yes	Yes	Yes	Yes	Yes
INET_ATON()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
INET_NTOA()				Yes	Yes	Yes	Yes	Yes
INET6_ATON()				Yes	Yes			
INET6_NTOA()				Yes	Yes			
INSERT()				Yes	Yes	Yes	Yes	Yes
INSTR()				Yes	Yes	Yes	Yes	Yes
InteriorRingN()	5.7.6			Yes				
INTERNAL_AUTO_INCREMENT()					Yes	Yes	Yes	Yes
INTERNAL_AVG_ROW_LENGTH()					Yes	Yes	Yes	Yes
INTERNAL_CHECK_TIME()					Yes	Yes	Yes	Yes
INTERNAL_CHECKSUM()					Yes	Yes	Yes	Yes
INTERNAL_DATA_FREE()					Yes	Yes	Yes	Yes
INTERNAL_DATA_LENGTH()					Yes	Yes	Yes	Yes
INTERNAL_DD_CHAR_LENGTH()					Yes	Yes	Yes	Yes
INTERNAL_GET_COMMENT_OR_ERROR()					Yes	Yes	Yes	Yes
INTERNAL _{8.0.19} ENABLED_ROLE_JSON()				Some	Yes	Yes	Yes	Yes
INTERNAL _{8.0.19} HOSTNAME()				Some	Yes	Yes	Yes	Yes
INTERNAL _{8.0.19} USERNAME()				Some	Yes	Yes	Yes	Yes
INTERNAL_GET_VIEW_WARNING_OR_ERROR()				Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_COLUMN_CARDINALITY()				Yes	Yes	Yes	Yes	Yes
INTERNAL_INDEX_LENGTH()				Yes	Yes	Yes	Yes	Yes
INTERNAL _{8.0.19} NABLED_ROLE()				Some	Yes	Yes	Yes	Yes
INTERNAL _{8.0.19} MANDATORY_ROLE()				Some	Yes	Yes	Yes	Yes
INTERNAL_KEYS_DISABLED()				Yes	Yes	Yes	Yes	Yes
INTERNAL_MAX_DATA_LENGTH()				Yes	Yes	Yes	Yes	Yes
INTERNAL_TABLE_ROWS()				Yes	Yes	Yes	Yes	Yes
INTERNAL_UPDATE_TIME()				Yes	Yes	Yes	Yes	Yes
Intersects()	5.7.6			Yes				
INTERVAL()				Yes	Yes	Yes	Yes	Yes
IS				Yes	Yes	Yes	Yes	Yes
IS_FREE_LOCK()				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
IS NOT NULL				Yes	Yes	Yes	Yes	Yes
IS NULL				Yes	Yes	Yes	Yes	Yes
IS_USED_LOCK()				Yes	Yes	Yes	Yes	Yes
IS_UUID()					Yes	Yes	Yes	Yes
IsClosed()	5.7.6			Yes				

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
IsEmpty()	5.7.6			Yes				
ISNULL()				Yes	Yes	Yes	Yes	Yes
IsSimple()	5.7.6			Yes				
JSON_APPEND()	5.7.8	5.7.9		Yes				
JSON_ARRAY()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_ARRAYAPPEND()	5.7.9			Yes	Yes	Yes	Yes	Yes
JSON_ARRAYINSERT()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_ARRAYMERGE()	5.7.22, 8.0.1			Some	Yes	Yes	Yes	Yes
JSON_CONTAINS()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_CONTAINS_PATH()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_DEPTH()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_EXTRACT()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_INSERT()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_KEYS()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_LENGTH()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_MERGE()	5.7.8	5.7.22, 8.0.3		Yes	Yes	Yes	Yes	Yes
JSON_MERGEPATCH()	5.7.22, 8.0.3			Some	Yes	Yes	Yes	Yes
JSON_MERGESERVE()	5.7.22, 8.0.3			Some	Yes	Yes	Yes	Yes
JSON_OBJECT()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_OBJECTG()	5.7.22, 8.0.1			Some	Yes	Yes	Yes	Yes
JSON_OVERLAY()	8.0.17				Some	Yes	Yes	Yes
JSON_PRETTY()	5.7.22, 8.0.1			Some	Yes	Yes	Yes	Yes
JSON_QUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_REMOVE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_REPLACE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_SCHEMAVALIDID()	8.0.17				Some	Yes	Yes	Yes
JSON_SCHEMAVALIDATION_REPORT()	8.0.17				Some	Yes	Yes	Yes
JSON_SEARCH()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_SET()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_STOP_FREE()	8.0.2				Yes	Yes	Yes	Yes
JSON_STOPSIZE()	5.7.22, 8.0.2			Some	Yes	Yes	Yes	Yes
JSON_TABLE()	8.0.4				Yes	Yes	Yes	Yes
JSON_TYPE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_UNQUOTE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_VALUE()	5.7.8			Yes	Yes	Yes	Yes	Yes
JSON_VALUES()	8.0.21				Some	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
LAG()	8.0.2				Yes	Yes	Yes	Yes
LAST_DAY				Yes	Yes	Yes	Yes	Yes
LAST_INSERT_ID()				Yes	Yes	Yes	Yes	Yes
LAST_VALUE	8.0.2				Yes	Yes	Yes	Yes
LCASE()				Yes	Yes	Yes	Yes	Yes
LEAD()	8.0.2				Yes	Yes	Yes	Yes
LEAST()				Yes	Yes	Yes	Yes	Yes
LEFT()				Yes	Yes	Yes	Yes	Yes
LENGTH()				Yes	Yes	Yes	Yes	Yes
LIKE				Yes	Yes	Yes	Yes	Yes
LineFromText(), LineStringFromText()	5.7.6			Yes				
LineFromWKB(), LineStringFromWKB()	5.7.6			Yes				
LineString()				Yes	Yes	Yes	Yes	Yes
LN()				Yes	Yes	Yes	Yes	Yes
LOAD_FILE()				Yes	Yes	Yes	Yes	Yes
LOCALTIME(), LOCALTIME				Yes	Yes	Yes	Yes	Yes
LOCALTIMESTAMP, LOCALTIMESTAMP()				Yes	Yes	Yes	Yes	Yes
LOCATE()				Yes	Yes	Yes	Yes	Yes
LOG()				Yes	Yes	Yes	Yes	Yes
LOG10()				Yes	Yes	Yes	Yes	Yes
LOG2()				Yes	Yes	Yes	Yes	Yes
LOWER()				Yes	Yes	Yes	Yes	Yes
LPAD()				Yes	Yes	Yes	Yes	Yes
LTRIM()				Yes	Yes	Yes	Yes	Yes
MAKE_SET()				Yes	Yes	Yes	Yes	Yes
MAKEDATE()				Yes	Yes	Yes	Yes	Yes
MAKETIME()				Yes	Yes	Yes	Yes	Yes
MASTER_POS_WAIT()	8.0.26			Yes	Yes	Yes	Yes	Yes
MATCH()				Yes	Yes	Yes	Yes	Yes
MAX()				Yes	Yes	Yes	Yes	Yes
MBRContains()				Yes	Yes	Yes	Yes	Yes
MBRCovers()	5.7.6			Yes	Yes	Yes	Yes	Yes
MBRCovered()	5.7.6			Yes	Yes	Yes	Yes	Yes
MBRDisjoint()				Yes	Yes	Yes	Yes	Yes
MBREqual()	5.7.6			Yes				
MBREqual	5.7.6			Yes	Yes	Yes	Yes	Yes
MBRIntersects()				Yes	Yes	Yes	Yes	Yes
MBROverlaps()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
MBRTouches()				Yes	Yes	Yes	Yes	Yes
MBRWithin()				Yes	Yes	Yes	Yes	Yes
MD5()				Yes	Yes	Yes	Yes	Yes
MEMBER OF()	8.0.17				Some	Yes	Yes	Yes
MICROSECOND()				Yes	Yes	Yes	Yes	Yes
MID()				Yes	Yes	Yes	Yes	Yes
MIN()				Yes	Yes	Yes	Yes	Yes
MINUTE()				Yes	Yes	Yes	Yes	Yes
MLineFromText(), MultiLineStringFromText()	5.7.6			Yes				
MLineFromWKB(), MultiLineStringFromWKB()	5.7.6			Yes				
MOD()				Yes	Yes	Yes	Yes	Yes
MONTH()				Yes	Yes	Yes	Yes	Yes
MONTHNAME()				Yes	Yes	Yes	Yes	Yes
MPointFromText(), MultiPointFromText()	5.7.6			Yes				
MPointFromWKB(), MultiPointFromWKB()	5.7.6			Yes				
MPolyFromText(), MultiPolygonFromText()	5.7.6			Yes				
MPolyFromWKB(), MultiPolygonFromWKB()	5.7.6			Yes				
MultiLineString()				Yes	Yes	Yes	Yes	Yes
MultiPoint()				Yes	Yes	Yes	Yes	Yes
MultiPolygon()				Yes	Yes	Yes	Yes	Yes
NAME_CONST()				Yes	Yes	Yes	Yes	Yes
NOT, !				Yes	Yes	Yes	Yes	Yes
NOT BETWEEN ... AND ...				Yes	Yes	Yes	Yes	Yes
NOT IN()				Yes	Yes	Yes	Yes	Yes
NOT LIKE				Yes	Yes	Yes	Yes	Yes
NOT REGEXP				Yes	Yes	Yes	Yes	Yes
NOW()				Yes	Yes	Yes	Yes	Yes
NTH_VALUE	8.0.2				Yes	Yes	Yes	Yes
NTILE()	8.0.2				Yes	Yes	Yes	Yes
NULLIF()				Yes	Yes	Yes	Yes	Yes
NumGeometries()	5.7.6			Yes				
NumInteriorRings	5.7.6			Yes				

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
NumPoints()	5.7.6			Yes				
OCT()				Yes	Yes	Yes	Yes	Yes
OCTET_LENGTH()				Yes	Yes	Yes	Yes	Yes
OLD_PASSWORD()	5.6.5	5.7.5						
OR,				Yes	Yes	Yes	Yes	Yes
ORD()				Yes	Yes	Yes	Yes	Yes
Overlaps()	5.7.6			Yes				
PASSWORD()	5.7.6	8.0.11	Yes					
PERCENT_RANK()					Yes	Yes	Yes	Yes
PERIOD_ADD()				Yes	Yes	Yes	Yes	Yes
PERIOD_DIFF()				Yes	Yes	Yes	Yes	Yes
PI()				Yes	Yes	Yes	Yes	Yes
Point()				Yes	Yes	Yes	Yes	Yes
PointFromText()	5.7.6			Yes				
PointFromWKB()	5.7.6			Yes				
PointN()	5.7.6			Yes				
PolyFromText(), PolygonFromText()	5.7.6			Yes				
PolyFromWKB(), PolygonFromWKB()	5.7.6			Yes				
Polygon()				Yes	Yes	Yes	Yes	Yes
POSITION()				Yes	Yes	Yes	Yes	Yes
POW()				Yes	Yes	Yes	Yes	Yes
POWER()				Yes	Yes	Yes	Yes	Yes
PROCEDURE ANALYSE()	5.7.18			Yes				
PS_CURRENT_READ_ID()	8.0.16				Some	Yes	Yes	Yes
PS_THREAD()	8.0.16				Some	Yes	Yes	Yes
QUARTER()				Yes	Yes	Yes	Yes	Yes
QUOTE()				Yes	Yes	Yes	Yes	Yes
RADIANS()				Yes	Yes	Yes	Yes	Yes
RAND()				Yes	Yes	Yes	Yes	Yes
RANDOM_BYTES()	5.7.4			Yes	Yes	Yes	Yes	Yes
RANK()	8.0.2				Yes	Yes	Yes	Yes
REGEXP				Yes	Yes	Yes	Yes	Yes
REGEXP_INSTR()	8.0.4				Yes	Yes	Yes	Yes
REGEXP_LIKE()	8.0.4				Yes	Yes	Yes	Yes
REGEXP_REPLACE()	8.0.4				Yes	Yes	Yes	Yes
REGEXP_STRIP()	8.0.4				Yes	Yes	Yes	Yes
RELEASE_LOCKS()	5.7.5			Yes	Yes	Yes	Yes	Yes
RELEASE_LOCK()				Yes	Yes	Yes	Yes	Yes
REPEAT()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
REPLACE()				Yes	Yes	Yes	Yes	Yes
REVERSE()				Yes	Yes	Yes	Yes	Yes
RIGHT()				Yes	Yes	Yes	Yes	Yes
RLIKE				Yes	Yes	Yes	Yes	Yes
ROLES_GRAPHML()					Yes	Yes	Yes	Yes
ROUND()				Yes	Yes	Yes	Yes	Yes
ROW_COUNT()				Yes	Yes	Yes	Yes	Yes
ROW_NUMBER	8.0.2				Yes	Yes	Yes	Yes
RPAD()				Yes	Yes	Yes	Yes	Yes
RTRIM()				Yes	Yes	Yes	Yes	Yes
SCHEMA()				Yes	Yes	Yes	Yes	Yes
SEC_TO_TIME()				Yes	Yes	Yes	Yes	Yes
SECOND()				Yes	Yes	Yes	Yes	Yes
SESSION_USER()				Yes	Yes	Yes	Yes	Yes
SHA1(), SHA()				Yes	Yes	Yes	Yes	Yes
SHA2()				Yes	Yes	Yes	Yes	Yes
SIGN()				Yes	Yes	Yes	Yes	Yes
SIN()				Yes	Yes	Yes	Yes	Yes
SLEEP()				Yes	Yes	Yes	Yes	Yes
SOUNDEX()				Yes	Yes	Yes	Yes	Yes
SOUNDS LIKE				Yes	Yes	Yes	Yes	Yes
SOURCE_P	8.0.26	IT()			Some	Yes	Yes	Yes
SPACE()				Yes	Yes	Yes	Yes	Yes
SQRT()				Yes	Yes	Yes	Yes	Yes
SRID()	5.7.6			Yes				
ST_Area()				Yes	Yes	Yes	Yes	Yes
ST_AsBinary(), ST_AsWKB()				Yes	Yes	Yes	Yes	Yes
ST_AsGeo	5.7.5			Yes	Yes	Yes	Yes	Yes
ST_AsText(), ST_AsWKT()				Yes	Yes	Yes	Yes	Yes
ST_Buffer()				Yes	Yes	Yes	Yes	Yes
ST_Buffer	5.7.7	strategy()		Yes	Yes	Yes	Yes	Yes
ST_Centroid()				Yes	Yes	Yes	Yes	Yes
ST_Collect	8.0.24				Some	Yes	Yes	Yes
ST_Contains()				Yes	Yes	Yes	Yes	Yes
ST_Convex	5.7.51			Yes	Yes	Yes	Yes	Yes
ST_Crosses()				Yes	Yes	Yes	Yes	Yes
ST_Difference()				Yes	Yes	Yes	Yes	Yes
ST_Dimension()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
ST_Disjoint()				Yes	Yes	Yes	Yes	Yes
ST_Distance()				Yes	Yes	Yes	Yes	Yes
ST_Distance ^{5.7.6} (Sphere())				Yes	Yes	Yes	Yes	Yes
ST_EndPoint()				Yes	Yes	Yes	Yes	Yes
ST_Envelope()				Yes	Yes	Yes	Yes	Yes
ST_Equals()				Yes	Yes	Yes	Yes	Yes
ST_ExteriorRing()				Yes	Yes	Yes	Yes	Yes
ST_FrechetDistance() ^{8.0.23}					Some	Yes	Yes	Yes
ST_GeoHash ^{5.7.5}				Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromText(), ST_GeometryCollectionFromText(), ST_GeomCollFromTxt()				Yes	Yes	Yes	Yes	Yes
ST_GeomCollFromWKB(), ST_GeometryCollectionFromWKB()				Yes	Yes	Yes	Yes	Yes
ST_GeometryN()				Yes	Yes	Yes	Yes	Yes
ST_GeometryType()				Yes	Yes	Yes	Yes	Yes
ST_GeomFromGeoJSON() ^{5.7.5}				Yes	Yes	Yes	Yes	Yes
ST_GeomFromText(), ST_GeometryFromText()				Yes	Yes	Yes	Yes	Yes
ST_GeomFromWKB(), ST_GeometryFromWKB()				Yes	Yes	Yes	Yes	Yes
ST_HausdorffDistance() ^{8.0.23}					Some	Yes	Yes	Yes
ST_InteriorRingN()				Yes	Yes	Yes	Yes	Yes
ST_Intersection()				Yes	Yes	Yes	Yes	Yes
ST_Intersects()				Yes	Yes	Yes	Yes	Yes
ST_IsClosed()				Yes	Yes	Yes	Yes	Yes
ST_IsEmpty()				Yes	Yes	Yes	Yes	Yes
ST_IsSimple()				Yes	Yes	Yes	Yes	Yes
ST_IsValid ^{5.7.6}				Yes	Yes	Yes	Yes	Yes
ST_LatFromGeoHash() ^{5.7.5}				Yes	Yes	Yes	Yes	Yes
ST_Latitude ^{8.0.12}					Some	Yes	Yes	Yes
ST_Length ^{5.7.6}				Yes	Yes	Yes	Yes	Yes
ST_LineFromText(), ST_LineStringFromText()				Yes	Yes	Yes	Yes	Yes
ST_LineFromWKB(), ST_LineStringFromWKB()				Yes	Yes	Yes	Yes	Yes
ST_LineInterpolatePoint() ^{8.0.24}					Some	Yes	Yes	Yes
ST_LineInterpolatePoints() ^{8.0.24}					Some	Yes	Yes	Yes
ST_LongFromGeoHash() ^{5.7.5}				Yes	Yes	Yes	Yes	Yes
ST_Longitude ^{8.0.12}					Some	Yes	Yes	Yes
ST_MakeEnvelope() ^{5.7.6}				Yes	Yes	Yes	Yes	Yes
ST_MLineFromText(), ST_MultiLineStringFromText()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
ST_MLineFromWKB(), ST_MultiLineStringFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_MPointFromText(), ST_MultiPointFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_MPointFromWKB(), ST_MultiPointFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_MPolyFromText(), ST_MultiPolygonFromText()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_MPolyFromWKB(), ST_MultiPolygonFromWKB()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_NumGeometries()				Yes	Yes	Yes	Yes	Yes
ST_NumInteriorRing(), ST_NumInteriorRings()				Yes	Yes	Yes	Yes	Yes
ST_NumPoints()				Yes	Yes	Yes	Yes	Yes
ST_Overlaps()				Yes	Yes	Yes	Yes	Yes
ST_PointDistance()	8.0.24				Some	Yes	Yes	Yes
ST_PointFromGeoHash()	5.7.5			Yes	Yes	Yes	Yes	Yes
ST_PointFromText()				Yes	Yes	Yes	Yes	Yes
ST_PointFromWKB()				Yes	Yes	Yes	Yes	Yes
ST_PointN()				Yes	Yes	Yes	Yes	Yes
ST_PolyFromText(), ST_PolygonFromText()				Yes	Yes	Yes	Yes	Yes
ST_PolyFromWKB(), ST_PolygonFromWKB()				Yes	Yes	Yes	Yes	Yes
ST_Simplify()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_SRID()				Yes	Yes	Yes	Yes	Yes
ST_StartPoint()				Yes	Yes	Yes	Yes	Yes
ST_SwapXY()	8.0.1				Yes	Yes	Yes	Yes
ST_SymDifference()				Yes	Yes	Yes	Yes	Yes
ST_Touches()				Yes	Yes	Yes	Yes	Yes
ST_Transform()	8.0.13				Some	Yes	Yes	Yes
ST_Union()				Yes	Yes	Yes	Yes	Yes
ST_Validate()	5.7.6			Yes	Yes	Yes	Yes	Yes
ST_Within()				Yes	Yes	Yes	Yes	Yes
ST_X()				Yes	Yes	Yes	Yes	Yes
ST_Y()				Yes	Yes	Yes	Yes	Yes
StartPoint()	5.7.6			Yes				
STATEMENT_GEST()	8.0.4				Yes	Yes	Yes	Yes
STATEMENT_GEST_TEXT()	8.0.4				Yes	Yes	Yes	Yes
STD()				Yes	Yes	Yes	Yes	Yes
STDDEV()				Yes	Yes	Yes	Yes	Yes
STDDEV_POP()				Yes	Yes	Yes	Yes	Yes
STDDEV_SAMP()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
STR_TO_DATE()				Yes	Yes	Yes	Yes	Yes
STRCMP()				Yes	Yes	Yes	Yes	Yes
SUBDATE()				Yes	Yes	Yes	Yes	Yes
SUBSTR()				Yes	Yes	Yes	Yes	Yes
SUBSTRING()				Yes	Yes	Yes	Yes	Yes
SUBSTRING_INDEX()				Yes	Yes	Yes	Yes	Yes
SUBTIME()				Yes	Yes	Yes	Yes	Yes
SUM()				Yes	Yes	Yes	Yes	Yes
SYSDATE()				Yes	Yes	Yes	Yes	Yes
SYSTEM_USER()				Yes	Yes	Yes	Yes	Yes
TAN()				Yes	Yes	Yes	Yes	Yes
TIME()				Yes	Yes	Yes	Yes	Yes
TIME_FORMAT()				Yes	Yes	Yes	Yes	Yes
TIME_TO_SEC()				Yes	Yes	Yes	Yes	Yes
TIMEDIFF()				Yes	Yes	Yes	Yes	Yes
TIMESTAMP()				Yes	Yes	Yes	Yes	Yes
TIMESTAMPADD()				Yes	Yes	Yes	Yes	Yes
TIMESTAMPDIFF()				Yes	Yes	Yes	Yes	Yes
TO_BASE64()				Yes	Yes			
TO_DAYS()				Yes	Yes	Yes	Yes	Yes
TO_SECONDS()				Yes	Yes	Yes	Yes	Yes
Touches()	5.7.6			Yes				
TRIM()				Yes	Yes	Yes	Yes	Yes
TRUNCATE()				Yes	Yes	Yes	Yes	Yes
UCASE()				Yes	Yes	Yes	Yes	Yes
UNCOMPRESS()				Yes	Yes	Yes	Yes	Yes
UNCOMPRESSED_LENGTH()				Yes	Yes	Yes	Yes	Yes
UNHEX()				Yes	Yes	Yes	Yes	Yes
UNIX_TIMESTAMP()				Yes	Yes	Yes	Yes	Yes
UpdateXML()				Yes	Yes	Yes	Yes	Yes
UPPER()				Yes	Yes	Yes	Yes	Yes
USER()				Yes	Yes	Yes	Yes	Yes
UTC_DATE()				Yes	Yes	Yes	Yes	Yes
UTC_TIME()				Yes	Yes	Yes	Yes	Yes
UTC_TIMESTAMP()				Yes	Yes	Yes	Yes	Yes
UUID()				Yes	Yes	Yes	Yes	Yes
UUID_SHORT()				Yes	Yes	Yes	Yes	Yes
UUID_TO_BIN()					Yes	Yes	Yes	Yes
VALIDATE_PASSWORD_STRENGTH()				Yes	Yes	Yes	Yes	Yes
VALUES()				Yes	Yes	Yes	Yes	Yes
VAR_POP()				Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
VAR_SAMP()				Yes	Yes	Yes	Yes	Yes
VARIANCE()				Yes	Yes	Yes	Yes	Yes
VERSION()				Yes	Yes	Yes	Yes	Yes
WAIT_FOR	5.7.5	EXECUTED_GTID_SET()		Yes	Yes	Yes	Yes	Yes
WAIT_UNTIL_SQL_THREAD_AFTER_GTIDS	8.0.18	AFTER_GTIDS		Yes	Yes	Yes		
WEEK()				Yes	Yes	Yes	Yes	Yes
WEEKDAY()				Yes	Yes	Yes	Yes	Yes
WEEKOFYEAR()				Yes	Yes	Yes	Yes	Yes
WEIGHT_STRING()				Yes	Yes	Yes	Yes	Yes
Within()	5.7.6			Yes				
X()	5.7.6			Yes				
XOR				Yes	Yes	Yes	Yes	Yes
Y()	5.7.6			Yes				
YEAR()				Yes	Yes	Yes	Yes	Yes
YEARWEEK()				Yes	Yes	Yes	Yes	Yes
				Yes	Yes	Yes	Yes	Yes
~				Yes	Yes	Yes	Yes	Yes

Chapter 3 Loadable Functions

The following table shows all loadable functions available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
asymmetric _{5.7.9} .crypt()	8.0.11		Yes	Yes	Yes	Yes	Yes
asymmetric _{5.7.9} .drive()	8.0.11		Yes	Yes	Yes	Yes	Yes
asymmetric _{5.7.9} .crypt()	8.0.11		Yes	Yes	Yes	Yes	Yes
asymmetric _{5.7.9} .gn()	8.0.11		Yes	Yes	Yes	Yes	Yes
asymmetric _{5.7.9} .verify()	8.0.11		Yes	Yes	Yes	Yes	Yes
asynchronous _{8.0.23} .connection_failover_add_member()			Some	Yes	Yes	Yes	Yes
asynchronous _{8.0.22} .connection_failover_add_slave()			Some	Yes	Yes	Yes	Yes
asynchronous _{8.0.23} .connection_failover_delete_member()			Some	Yes	Yes	Yes	Yes
asynchronous _{8.0.22} .connection_failover_delete_slave()			Some	Yes	Yes	Yes	Yes
audit_api_message_emit_udf()			Yes	Yes	Yes	Yes	Yes
audit_log_encryption_password_set()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_encryption_password_unset()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_flush()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_remove_filter()		Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3
audit_log_filter_remove_user()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_set_filter()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_filter_set_user()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_read_bookmark()		Yes	Yes	Yes	Yes	Yes	Yes
audit_log_rotate()				Yes	Yes	Yes	Yes
create_asymmetric_priv_key()	5.7.9 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes
create_asymmetric_pub_key()	5.7.9 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes
create_dh_parameters()	5.7.9 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes
create_dsa()	5.7.9 8.0.11	Yes	Yes	Yes	Yes	Yes	Yes
firewall_blocklist()	8.0.23			Some	Yes	Yes	Yes
firewall_enlist()	8.0.23			Some	Yes	Yes	Yes
flush_rewrite_rules()		Yes	Yes	Yes	Yes	Yes	Yes
gen_blacklist()	8.0.23	Yes	Yes	Yes	Yes	Yes	Yes
gen_blocklist()	8.0.23			Some	Yes	Yes	Yes
gen_blocklist()	8.0.23			Some	Yes	Yes	Yes
gen_dictionary()	8.0.23			Some	Yes	Yes	Yes
gen_dictionary_drop()		Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary_load()		Yes	Yes	Yes	Yes	Yes	Yes
gen_dictionary()		Yes	Yes	Yes	Yes	Yes	Yes
gen_range()	8.0.33			Some	Yes	Yes	Yes
gen_range()		Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_csin()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_end()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_email()		Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ip()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_phone()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_pan()		Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_ssn()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_ssn()		Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_u()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_usine()	8.0.33			Some	Yes	Yes	Yes
gen_rnd_us_phone()		Yes	Yes	Yes	Yes	Yes	Yes
gen_rnd_us()	8.0.33			Some	Yes	Yes	Yes
group_replication_disable_member_action		Yes	Yes	Yes	Yes	Yes	Yes
group_replication_enable_member_action		Yes	Yes	Yes	Yes	Yes	Yes
group_replication_get_communication_pr		Yescol()	Yes	Yes	Yes	Yes	Yes
group_replication_get_write_concurrency		Yes	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3
group_replication_reset_member_actions			Yes	Yes	Yes	Yes	Yes
group_replication_set_as_primary()			Yes	Yes	Yes	Yes	Yes
group_replication_set_communication_pr			Yes	Yes	Yes	Yes	Yes
group_replication_set_write_concurrency			Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_multi_prim			Yes	Yes	Yes	Yes	Yes
group_replication_switch_to_single_pri			Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate_cmk()			Yes	Yes	Yes	Yes	Yes
keyring_aws_rotate_keys()			Yes	Yes	Yes	Yes	Yes
keyring_hashicorp_update_config()			Yes	Yes	Yes	Yes	Yes
keyring_key_fetch()			Yes	Yes	Yes	Yes	Yes
keyring_key_generate()			Yes	Yes	Yes	Yes	Yes
keyring_key_length_fetch()			Yes	Yes	Yes	Yes	Yes
keyring_key_remove()			Yes	Yes	Yes	Yes	Yes
keyring_key_store()			Yes	Yes	Yes	Yes	Yes
keyring_key_type_fetch()			Yes	Yes	Yes	Yes	Yes
load_rewrite_rules()			Yes	Yes	Yes	Yes	Yes
mask_canada	8.0.33			Some	Yes	Yes	Yes
mask_iban	8.0.33			Some	Yes	Yes	Yes
mask_inner	8.0.33			Some	Yes	Yes	Yes
mask_inner()			Yes	Yes	Yes	Yes	Yes
mask_outer	8.0.33			Some	Yes	Yes	Yes
mask_outer()			Yes	Yes	Yes	Yes	Yes
mask_pan	8.0.33			Some	Yes	Yes	Yes
mask_pan()			Yes	Yes	Yes	Yes	Yes
mask_pan_reaxed	8.0.33			Some	Yes	Yes	Yes
mask_pan_relaxed()			Yes	Yes	Yes	Yes	Yes
mask_ssn	8.0.33			Some	Yes	Yes	Yes
mask_ssn()			Yes	Yes	Yes	Yes	Yes
mask_uk_ni	8.0.33			Some	Yes	Yes	Yes
mask_uuid	8.0.33			Some	Yes	Yes	Yes
masking_dictionaries_flush()							Yes
masking_di	8.0.33	nary_remove()		Some	Yes	Yes	Yes
masking_di	8.0.33	nary_term_add()		Some	Yes	Yes	Yes
masking_di	8.0.33	nary_term_remove()		Some	Yes	Yes	Yes
mysql_firewall_flush_status()	Yes			Yes	Yes	Yes	Yes
mysql_query	8.0.23	tribute_string()		Some	Yes	Yes	Yes
normalize_statement()			Yes	Yes	Yes	Yes	Yes
read_firew	8.0.23	group_allowlist()		Some	Yes	Yes	Yes
read_firew	8.0.23	groups()		Some	Yes	Yes	Yes
read_firewall_users	8.0.26		Yes	Yes	Yes	Yes	Yes
read_firewall_white	8.0.26)	Yes	Yes	Yes	Yes	Yes

Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3
service_get ^{5.7.8}	read_locks()		Yes	Yes	Yes	Yes	Yes
service_get ^{5.7.8}	write_locks()		Yes	Yes	Yes	Yes	Yes
service_get ^{5.7.8}	use_locks()		Yes	Yes	Yes	Yes	Yes
set_firewall_group_mode() ^{8.0.23}				Some	Yes	Yes	Yes
set_firewall_mode() ^{8.0.26}			Yes	Yes	Yes	Yes	Yes
version_tokens_delete()			Yes	Yes	Yes	Yes	Yes
version_tokens_edit()			Yes	Yes	Yes	Yes	Yes
version_tokens_lock_exclusive()			Yes	Yes	Yes	Yes	Yes
version_tokens_lock_shared()			Yes	Yes	Yes	Yes	Yes
version_tokens_set()			Yes	Yes	Yes	Yes	Yes
version_tokens_show()			Yes	Yes	Yes	Yes	Yes
version_tokens_unlock()			Yes	Yes	Yes	Yes	Yes

Chapter 4 INFORMATION_SCHEMA Tables

The following table shows all INFORMATION_SCHEMA tables available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
ADMINISTRATORS	8.0.19	ROLE_AUTHORIZATIONS			Some	Yes	Yes	Yes
APPLICATIONS	8.0.19	LES			Some	Yes	Yes	Yes
CHARACTER_SETS				Yes	Yes	Yes	Yes	Yes
CHECK_CONSTRAINTS	8.0.16				Some	Yes	Yes	Yes
COLLATION_CHARACTER_SET_APPLICABILITY			Yes		Yes	Yes	Yes	Yes
COLLATIONS				Yes	Yes	Yes	Yes	Yes
COLUMN_PRIVILEGES				Yes	Yes	Yes	Yes	Yes
COLUMN_STATISTICS	8.0.2				Yes	Yes	Yes	Yes
COLUMNS				Yes	Yes	Yes	Yes	Yes
COLUMNS_PERMISSIONS	8.0.21				Some	Yes	Yes	Yes
CONNECTIONS	5.7.17	CONTROL_FAILED_LOGIN_ATTEMPTS	Some		Yes	Yes	Yes	Yes
ENABLED_PLUGINS	8.0.19				Some	Yes	Yes	Yes
ENGINES				Yes	Yes	Yes	Yes	Yes
EVENTS				Yes	Yes	Yes	Yes	Yes
FILES				Yes	Yes	Yes	Yes	Yes
GLOBAL_STATUS			8.0.1	Yes				
GLOBAL_VARIABLES			8.0.1	Yes				

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
INNODB_BUFFER_PAGE				Yes	Yes	Yes	Yes	Yes
INNODB_BUFFER_PAGE_LRU				Yes	Yes	Yes	Yes	Yes
INNODB_BUFFER_POOL_STATS				Yes	Yes	Yes	Yes	Yes
INNODB_CACHED_INDEXES					Yes	Yes	Yes	Yes
INNODB_CMP					Yes	Yes	Yes	Yes
INNODB_CMP_PER_INDEX					Yes	Yes	Yes	Yes
INNODB_CMP_PER_INDEX_RESET					Yes	Yes	Yes	Yes
INNODB_CMP_RESET					Yes	Yes	Yes	Yes
INNODB_CMPMEM					Yes	Yes	Yes	Yes
INNODB_CMPMEM_RESET					Yes	Yes	Yes	Yes
INNODB_CNS	8.0.3				Yes	Yes	Yes	Yes
INNODB_DBFILES	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_BEING_DELETED	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_CONFIG	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_DEFAULT_STOPWORD	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_DELETED	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_INDEX_CACHE	8.0.3				Yes	Yes	Yes	Yes
INNODB_FT_INDEX_TABLE	8.0.3				Yes	Yes	Yes	Yes
INNODB_INDEXES	8.0.3				Yes	Yes	Yes	Yes
INNODB_LOCK_WAITS	5.7.14	8.0.1		Yes				
INNODB_LOCKS	5.7.14	8.0.1		Yes				
INNODB_METRICS				Yes	Yes	Yes	Yes	Yes
INNODB_SCN_TEMP_TABLESPACES	8.0.13				Some	Yes	Yes	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_FOREIGN_COLS	8.0.2			Yes				
INNODB_SYS_INDEXES	8.0.2			Yes				
INNODB_SYS_TABLES	8.0.2			Yes				
INNODB_SYS_TABLESPACES	8.0.2			Yes				
INNODB_SYS_TABLESTATS	8.0.2			Yes				
INNODB_SYS_VIRTUAL	5.7.8	8.0.2		Yes				
INNODB_TABLES	8.0.3				Yes	Yes	Yes	Yes
INNODB_TABLESPACES	8.0.3				Yes	Yes	Yes	Yes
INNODB_TABLESPACES_BRIEF	8.0.3				Yes	Yes	Yes	Yes
INNODB_TABLESTATS	8.0.3				Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
INNODB_TEMP_TABLE_INFO	5.7.1			Yes	Yes	Yes	Yes	Yes
INNODB_TRX				Yes	Yes	Yes	Yes	Yes
INNODB_VARIABLE	8.0.3				Yes	Yes	Yes	Yes
KEY_COLUMN_USAGE				Yes	Yes	Yes	Yes	Yes
KEYWORDS	8.0.11				Yes	Yes	Yes	Yes
MYSQL_FIREWALL_USER	8.0.26			Yes	Yes	Yes	Yes	Yes
MYSQL_FIREWALL_WHITELIST	8.0.26			Yes	Yes	Yes	Yes	Yes
ndb_transid_mysql_connection_map				Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE				Yes	Yes	Yes	Yes	Yes
PARAMETERS				Yes	Yes	Yes	Yes	Yes
PARTITIONS				Yes	Yes	Yes	Yes	Yes
PLUGINS				Yes	Yes	Yes	Yes	Yes
PROCESSLIST				Yes	Yes	Yes	Yes	Yes
PROFILING				Yes	Yes	Yes	Yes	Yes
REFERENTIAL_CONSTRAINTS				Yes	Yes	Yes	Yes	Yes
RESOURCE_UPS	8.0.3				Yes	Yes	Yes	Yes
ROLE_COLUMN_GRANTS	8.0.19				Some	Yes	Yes	Yes
ROLE_ROUTINE_GRANTS	8.0.19				Some	Yes	Yes	Yes
ROLE_TABLE_GRANTS	8.0.19				Some	Yes	Yes	Yes
ROUTINES				Yes	Yes	Yes	Yes	Yes
SCHEMA_PRIVILEGES				Yes	Yes	Yes	Yes	Yes
SCHEMATA				Yes	Yes	Yes	Yes	Yes
SCHEMATA_EXTENSIONS	8.0.22				Some	Yes	Yes	Yes
SESSION_STATUS		8.0.1		Yes				
SESSION_VARIABLES		8.0.1		Yes				
ST_GEOOMETRY_COLUMNS	8.0.1				Yes	Yes	Yes	Yes
ST_SPATIAL_REFERENCE_SYSTEMS	8.0.1				Yes	Yes	Yes	Yes
ST_UNITS_MEASURE	8.0.14				Some	Yes	Yes	Yes
STATISTICS				Yes	Yes	Yes	Yes	Yes
TABLE_CONSTRAINTS				Yes	Yes	Yes	Yes	Yes
TABLE_CONSTRAINT_EXTENSIONS	8.0.24				Some	Yes	Yes	Yes
TABLE_PRIVILEGES				Yes	Yes	Yes	Yes	Yes
TABLES				Yes	Yes	Yes	Yes	Yes
TABLES_EXTENSIONS	8.0.24				Some	Yes	Yes	Yes
TABLESPACES	8.0.22			Yes	Yes	Yes	Yes	Yes
TABLESPACES_EXTENSIONS	8.0.21				Some	Yes	Yes	Yes
TP_THREAD_GROUP_STATE				Yes	Yes	Yes	Yes	Yes
TP_THREAD_GROUP_STATS				Yes	Yes	Yes	Yes	Yes
TP_THREAD_STATE				Yes	Yes	Yes	Yes	Yes
TRIGGERS				Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
USER_ATTRIBUTES	8.0.21				Some	Yes	Yes	Yes
USER_PRIVILEGES				Yes	Yes	Yes	Yes	Yes
VIEW_ROUTES	8.0.13	USAGE			Some	Yes	Yes	Yes
VIEW_TABLES	8.0.13	AGE			Some	Yes	Yes	Yes
VIEWS				Yes	Yes	Yes	Yes	Yes

Chapter 5 Performance Schema Tables

The following table shows all Performance Schema tables available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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.

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- 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 5.1 Performance Schema Table Reference

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
accounts				Yes	Yes	Yes	Yes	Yes
binary_log	8.0.20	transaction_compression_stats		Some	Yes	Yes	Yes	Yes
clone_programs	8.0.17			Some	Yes	Yes	Yes	Yes
clone_stages	8.0.17			Some	Yes	Yes	Yes	Yes
component	8.0.34	scheduler_tasks		Some	Yes	Yes	Yes	Yes
cond_instances				Yes	Yes	Yes	Yes	Yes
data_locks	8.0.1	kits		Yes	Yes	Yes	Yes	Yes
data_locks	8.0.1			Yes	Yes	Yes	Yes	Yes
error_log	8.0.22			Some	Yes	Yes	Yes	Yes
events_errors_summary_by_account_by_error				Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_host_by_error				Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_thread_by_error				Yes	Yes	Yes	Yes	Yes
events_errors_summary_by_user_by_error				Yes	Yes	Yes	Yes	Yes
events_errors_summary_global_by_error				Yes	Yes	Yes	Yes	Yes
events_stages_current				Yes	Yes	Yes	Yes	Yes
events_stages_history				Yes	Yes	Yes	Yes	Yes
events_stages_history_long				Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
events_stages_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes
events_stages_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes
events_stages_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes
events_statements_current				Yes	Yes	Yes	Yes	Yes
events_statements_histogram_by_digest	8.0.1				Yes	Yes	Yes	Yes
events_statements_histogram_global	8.0.1				Yes	Yes	Yes	Yes
events_statements_history				Yes	Yes	Yes	Yes	Yes
events_statements_history_long				Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_digest				Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_program_by_event_name	5.7.2			Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes
events_statements_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes
events_statements_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes
events_transactions_current	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_history	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_history_long	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_account_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_host_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_thread_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_summary_by_user_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes
events_transactions_summary_global_by_event_name	5.7.3			Yes	Yes	Yes	Yes	Yes
events_waits_current				Yes	Yes	Yes	Yes	Yes
events_waits_history				Yes	Yes	Yes	Yes	Yes
events_waits_history_long				Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_account_by_event_name				Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_host_by_event_name				Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_instance				Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_thread_by_event_name				Yes	Yes	Yes	Yes	Yes
events_waits_summary_by_user_by_event_name				Yes	Yes	Yes	Yes	Yes
events_waits_summary_global_by_event_name				Yes	Yes	Yes	Yes	Yes
file_instances				Yes	Yes	Yes	Yes	Yes
file_summary_by_event_name				Yes	Yes	Yes	Yes	Yes
file_summary_by_instance				Yes	Yes	Yes	Yes	Yes
firewall_ip_allowlist	8.0.23	p	allowlist		Some	Yes	Yes	Yes
firewall_ip_ps	8.0.23	ps			Some	Yes	Yes	Yes
firewall_ip_membership	8.0.23	m	bership		Some	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
global_st5.7.6				Yes	Yes	Yes	Yes	Yes
global_val5.7.6				Yes	Yes	Yes	Yes	Yes
host_cache				Yes	Yes	Yes	Yes	Yes
hosts				Yes	Yes	Yes	Yes	Yes
keyring_8.0.24					Some	Yes	Yes	Yes
keyring_8.0.16					Some	Yes	Yes	Yes
log_status8.0.11					Yes	Yes	Yes	Yes
memory_st5.7.2				Yes	Yes	Yes	Yes	Yes
memory_st5.7.2				Yes	Yes	Yes	Yes	Yes
memory_st5.7.2				Yes	Yes	Yes	Yes	Yes
memory_st5.7.2				Yes	Yes	Yes	Yes	Yes
memory_st5.7.2				Yes	Yes	Yes	Yes	Yes
metadata5.7.3				Yes	Yes	Yes	Yes	Yes
mutex_instances				Yes	Yes	Yes	Yes	Yes
ndb_sync8.0.21					Some	Yes	Yes	Yes
ndb_sync8.0.21					Some	Yes	Yes	Yes
objects_summary_global_by_type				Yes	Yes	Yes	Yes	Yes
performance_timers				Yes	Yes	Yes	Yes	Yes
persisted8.0.1					Yes	Yes	Yes	Yes
prepared5.7.4				Yes	Yes	Yes	Yes	Yes
process8.0.22					Some	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
replicat8.0.1					Yes	Yes	Yes	Yes
replicat8.0.1					Yes	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
replicat5.7.2				Yes	Yes	Yes	Yes	Yes
replicat5.7.2				Yes	Yes	Yes	Yes	Yes
replicat8.0.27					Some	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
replicat5.7.6				Yes	Yes	Yes	Yes	Yes
rwlock_instances				Yes	Yes	Yes	Yes	Yes
session_account_connect_attrs				Yes	Yes	Yes	Yes	Yes
session_connect_attrs				Yes	Yes	Yes	Yes	Yes
session_us5.7.6				Yes	Yes	Yes	Yes	Yes
session_val5.7.6				Yes	Yes	Yes	Yes	Yes
setup_actors				Yes	Yes	Yes	Yes	Yes

Table Name	Introduced	Deprecated	Removed	5.7	8.0	8.1	8.2	8.3
setup_consumers				Yes	Yes	Yes	Yes	Yes
setup_instruments				Yes	Yes	Yes	Yes	Yes
setup_objects				Yes	Yes	Yes	Yes	Yes
setup_threads	8.0.3				Yes	Yes	Yes	Yes
setup_timers	5.7.21	8.0.4		Yes				
socket_instances				Yes	Yes	Yes	Yes	Yes
socket_summary_by_event_name				Yes	Yes	Yes	Yes	Yes
socket_summary_by_instance				Yes	Yes	Yes	Yes	Yes
status_by_account	5.7.6			Yes	Yes	Yes	Yes	Yes
status_by_list	5.7.6			Yes	Yes	Yes	Yes	Yes
status_by_read	5.7.6			Yes	Yes	Yes	Yes	Yes
status_by_user	5.7.6			Yes	Yes	Yes	Yes	Yes
table_handles	5.7.3			Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_index_usage				Yes	Yes	Yes	Yes	Yes
table_io_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes
table_lock_waits_summary_by_table				Yes	Yes	Yes	Yes	Yes
threads				Yes	Yes	Yes	Yes	Yes
tls_channel_status	8.0.24				Some	Yes	Yes	Yes
tp_threadup_state	8.0.14				Some	Yes	Yes	Yes
tp_threadup_stats	8.0.14				Some	Yes	Yes	Yes
tp_threadstate	8.0.14				Some	Yes	Yes	Yes
user_defined_functions	8.0.2				Yes	Yes	Yes	Yes
user_variables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes
users				Yes	Yes	Yes	Yes	Yes
variables_by_thread	5.7.6			Yes	Yes	Yes	Yes	Yes
variables_info					Yes	Yes	Yes	Yes

Chapter 6 sys Schema Objects

The following tables show all `sys` schema objects available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
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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 6.1 sys Schema Table and Trigger Reference

Table or Trigger Name	5.7	8.0	8.1	8.2	8.3
<code>sys_config</code>	Yes	Yes	Yes	Yes	Yes
<code>sys_config_insert_user</code>	Yes	Yes	Yes	Yes	Yes
<code>sys_config_update_user</code>	Yes	Yes	Yes	Yes	Yes

Table 6.2 sys Schema View Reference

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3
<code>host_summary</code> , x <code>\$host_summary</code>		Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file_i</code> , x <code>\$host_summary_by_file_io</code>		Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_file_i</code> , x <code>\$host_summary_by_file_io_type</code>		Yes	Yes	Yes	Yes	Yes
<code>host_summary_by_stages</code> , x <code>\$host_summary_by_stages</code>		Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3
host_summary_by_statement_latency	Yes	Yes	Yes	Yes	Yes	Yes
\$host_summary_by_statement_latency	x					
host_summary_by_statement_type	Yes	Yes	Yes	Yes	Yes	Yes
\$host_summary_by_statement_type	x					
innodb_buffer_stats_by_schema	Yes	Yes	Yes	Yes	Yes	Yes
\$innodb_buffer_stats_by_schema	x					
innodb_buffer_stats_by_table	Yes	Yes	Yes	Yes	Yes	Yes
\$innodb_buffer_stats_by_table	x					
innodb_lock_waits	Yes	Yes	Yes	Yes	Yes	Yes
\$innodb_lock_waits	x					
io_by_thread_by_latency	Yes	Yes	Yes	Yes	Yes	Yes
\$io_by_thread_by_latency	x					
io_global_by_file_by_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$io_global_by_file_by_bytes	x					
io_global_by_file_by_latency	Yes	Yes	Yes	Yes	Yes	Yes
\$io_global_by_file_by_latency	x					
io_global_by_wait_by_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$io_global_by_wait_by_bytes	x					
io_global_by_wait_by_latency	Yes	Yes	Yes	Yes	Yes	Yes
\$io_global_by_wait_by_latency	x					
latest_file_io	Yes	Yes	Yes	Yes	Yes	Yes
\$latest_file_io	x					
memory_by_host_by_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$memory_by_host_by_current_bytes	x					
memory_by_thread_by_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$memory_by_thread_by_current_bytes	x					
memory_by_user_by_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$memory_by_user_by_current_bytes	x					
memory_global_by_current_bytes	Yes	Yes	Yes	Yes	Yes	Yes
\$memory_global_by_current_bytes	x					
memory_global_total	Yes	Yes	Yes	Yes	Yes	Yes
\$memory_global_total	x					
metrics	Yes	Yes	Yes	Yes	Yes	Yes

View Name	Deprecated	5.7	8.0	8.1	8.2	8.3
processlist, x \$processlist		Yes	Yes	Yes	Yes	Yes
ps_check_lost_instrumentation	Yes	Yes	Yes	Yes	Yes	Yes
schema_auto_increment	Yes	umns	Yes	Yes	Yes	Yes
schema_index_statistics	Yes	x \$schema_index_statistics	Yes	Yes	Yes	Yes
schema_object_overview	Yes		Yes	Yes	Yes	Yes
schema_redundant_index	Yes		Yes	Yes	Yes	Yes
schema_table_lock_wait	Yes	x \$schema_table_lock_waits	Yes	Yes	Yes	Yes
schema_table_statistics	Yes	x \$schema_table_statistics	Yes	Yes	Yes	Yes
schema_table_statistics_with_buffer	Yes	x \$schema_table_statistics_with_buffer	Yes	Yes	Yes	Yes
schema_tables_with_full_table_scans	Yes	x \$schema_tables_with_full_table_scans	Yes	Yes	Yes	Yes
schema_unused_indexes	Yes		Yes	Yes	Yes	Yes
session,x \$session		Yes	Yes	Yes	Yes	Yes
session_ssl_status	Yes		Yes	Yes	Yes	Yes
statement_analysis, x \$statement_analysis	Yes		Yes	Yes	Yes	Yes
statements_with_errors	Yes	x \$statements_with_errors_or_warnings	Yes_warning	Yes	Yes	Yes
statements_with_full_table_scans	Yes	x \$statements_with_full_table_scans	Yes_table_scans	Yes	Yes	Yes
statements_with_runtimes_in_95th_percentile	Yes	x \$statements_with_runtimes_in_95th_percentile	Yes_in_95th_percentile	Yes	Yes	Yes
statements_with_sorting	Yes	x \$statements_with_sorting	Yes	Yes	Yes	Yes
statements_with_temp_tables	Yes	x \$statements_with_temp_tables	Yes_tables	Yes	Yes	Yes
user_summary, x \$user_summary		Yes	Yes	Yes	Yes	Yes

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

Table 6.3 sys Schema Stored Procedure Reference

Stored Procedure Name	5.7	8.0	8.1	8.2	8.3
create_synonym	Yes	lb()	Yes	Yes	Yes
diagnostics()	Yes		Yes	Yes	Yes
execute_prep_stmt()	Yes	Yes	Yes	Yes	Yes
ps_setup_disable_background_threads()	Yes	background	Yes	threads()	Yes

Stored Procedure Name	5.7	8.0	8.1	8.2	8.3
ps_setup_disable_consumer	Yes	Yes	Yes	Yes	Yes
ps_setup_disable_instrument	Yes	Yes	Yes	Yes	Yes
ps_setup_disable_thread()	Yes	Yes	Yes	Yes	Yes
ps_setup_enable_background_threads()	Yes	Yes	Yes	Yes	Yes
ps_setup_enable_consumer()	Yes	Yes	Yes	Yes	Yes
ps_setup_enable_instrument	Yes	Yes	Yes	Yes	Yes
ps_setup_enable_thread()	Yes	Yes	Yes	Yes	Yes
ps_setup_reload_saved()	Yes	Yes	Yes	Yes	Yes
ps_setup_restore_to_default	Yes	Yes	Yes	Yes	Yes
ps_setup_save	Yes	Yes	Yes	Yes	Yes
ps_setup_show_disabled()	Yes	Yes	Yes	Yes	Yes
ps_setup_show_disabled_consumers()	Yes	Yes	Yes	Yes	Yes
ps_setup_show_disabled_instruments()	Yes	Yes	Yes	Yes	Yes
ps_setup_show_enabled()	Yes	Yes	Yes	Yes	Yes
ps_setup_show_enabled_consumers()	Yes	Yes	Yes	Yes	Yes
ps_setup_show_enabled_instruments()	Yes	Yes	Yes	Yes	Yes
ps_statement_get_latency_histogram()	Yes	Yes	Yes	Yes	Yes
ps_trace_statement_digest	Yes	Yes	Yes	Yes	Yes
ps_trace_thread()	Yes	Yes	Yes	Yes	Yes
ps_truncate_all_tables()	Yes	Yes	Yes	Yes	Yes
statement_performance_analyzer()	Yes	Yes	Yes	Yes	Yes
table_exists	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
extract_schema_from_file_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes
extract_table_from_file_name	Yes	Yes	Yes	Yes	Yes	Yes	Yes
format_bytes()	8.0.16	Yes	Yes	Yes	Yes	Yes	Yes
format_path()		Yes	Yes	Yes	Yes	Yes	Yes
format_statement()		Yes	Yes	Yes	Yes	Yes	Yes
format_time()	8.0.16	Yes	Yes	Yes	Yes	Yes	Yes
list_add()		Yes	Yes	Yes	Yes	Yes	Yes
list_drop()		Yes	Yes	Yes	Yes	Yes	Yes
ps_is_account_enabled()	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_is_consumer_enabled()	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_is_instrument_default_enabled()	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_is_instrument_default_time	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_is_thread_instrumented()	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ps_thread_account()		Yes	Yes	Yes	Yes	Yes	Yes

Stored Function Name	Introduced	Deprecated	5.7	8.0	8.1	8.2	8.3
<code>ps_thread_id()</code>	8.0.16	Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_stack()</code>		Yes	Yes	Yes	Yes	Yes	Yes
<code>ps_thread_trx_info()</code>		Yes	Yes	Yes	Yes	Yes	Yes
<code>quote_iden[5.7.14]er()</code>		Some	Yes	Yes	Yes	Yes	Yes
<code>sys_get_config()</code>		Yes	Yes	Yes	Yes	Yes	Yes
<code>version_major()</code>		Yes	Yes	Yes	Yes	Yes	Yes
<code>version_minor()</code>		Yes	Yes	Yes	Yes	Yes	Yes
<code>version_patch()</code>		Yes	Yes	Yes	Yes	Yes	Yes

Chapter 7 Keywords and Reserved Words

Table of Contents

7.1 Keywords and Reserved Words in MySQL 5.7	202
7.2 Keywords and Reserved Words in MySQL 8.0	223
7.3 Keywords and Reserved Words in MySQL 8.1	252
7.4 Keywords and Reserved Words in MySQL 8.2	276
7.5 Keywords and Reserved Words in MySQL 8.3	301

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 [Chapter 7, *Keywords and Reserved Words*](#).

The following table shows all keywords and reserved words available in MySQL Server 5.7, 8.0, 8.1, 8.2, and 8.3. 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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
ACCESSIBLE			Yes (R)				
ACCOUNT	5.7.6		Yes	Yes	Yes	Yes	Yes
ACTION			Yes	Yes	Yes	Yes	Yes
ACTIVE	8.0.14			Yes	Yes	Yes	Yes
ADD			Yes (R)				
ADMIN				Yes	Yes	Yes	Yes
AFTER			Yes	Yes	Yes	Yes	Yes
AGAINST			Yes	Yes	Yes	Yes	Yes
AGGREGATE			Yes	Yes	Yes	Yes	Yes
ALGORITHM			Yes	Yes	Yes	Yes	Yes
ALL			Yes (R)				
ALTER			Yes (R)				
ALWAYS	5.7.6		Yes	Yes	Yes	Yes	Yes
ANALYSE		8.0.1	Yes	Yes			
ANALYZE			Yes (R)				
AND			Yes (R)				
ANY			Yes	Yes	Yes	Yes	Yes
ARRAY	8.0.17			Yes	Yes	Yes	Yes
AS			Yes (R)				
ASC			Yes (R)				

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
ASCII			Yes	Yes	Yes	Yes	Yes
ASENSITIVE			Yes (R)				
AT			Yes	Yes	Yes	Yes	Yes
ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes
AUTHENTICATE	8.0.27			Yes	Yes	Yes	Yes
AUTOEXTEND_SIZE			Yes	Yes	Yes	Yes	Yes
AUTO_INCREMENT			Yes	Yes	Yes	Yes	Yes
AVG			Yes	Yes	Yes	Yes	Yes
AVG_ROW_LENGTH			Yes	Yes	Yes	Yes	Yes
BACKUP			Yes	Yes	Yes	Yes	Yes
BEFORE			Yes (R)				
BEGIN			Yes	Yes	Yes	Yes	Yes
BETWEEN			Yes (R)				
BIGINT			Yes (R)				
BINARY			Yes (R)				
BINLOG			Yes	Yes	Yes	Yes	Yes
BIT			Yes	Yes	Yes	Yes	Yes
BLOB			Yes (R)				
BLOCK			Yes	Yes	Yes	Yes	Yes
BOOL			Yes	Yes	Yes	Yes	Yes
BOOLEAN			Yes	Yes	Yes	Yes	Yes
BOTH			Yes (R)				
BTREE			Yes	Yes	Yes	Yes	Yes
BUCKETS	8.0.2			Yes	Yes	Yes	Yes
BULK	8.0.32			Yes	Yes	Yes	Yes
BY			Yes (R)				
BYTE			Yes	Yes	Yes	Yes	Yes
CACHE			Yes	Yes	Yes	Yes	Yes
CALL			Yes (R)				
CASCADE			Yes (R)				
CASCADED			Yes	Yes	Yes	Yes	Yes
CASE			Yes (R)				
CATALOG_NAME			Yes	Yes	Yes	Yes	Yes
CHAIN			Yes	Yes	Yes	Yes	Yes
CHALLENGE	8.0.27	ONSE		Yes	Yes	Yes	Yes
CHANGE			Yes (R)				
CHANGED			Yes	Yes	Yes	Yes	Yes
CHANNEL	5.7.6		Yes	Yes	Yes	Yes	Yes
CHAR			Yes (R)				
CHARACTER			Yes (R)				
CHARSET			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
CHECK			Yes (R)				
CHECKSUM			Yes	Yes	Yes	Yes	Yes
CIPHER			Yes	Yes	Yes	Yes	Yes
CLASS_ORIGIN			Yes	Yes	Yes	Yes	Yes
CLIENT			Yes	Yes	Yes	Yes	Yes
CLONE	8.0.3			Yes	Yes	Yes	Yes
CLOSE			Yes	Yes	Yes	Yes	Yes
COALESCE			Yes	Yes	Yes	Yes	Yes
CODE			Yes	Yes	Yes	Yes	Yes
COLLATE			Yes (R)				
COLLATION			Yes	Yes	Yes	Yes	Yes
COLUMN			Yes (R)				
COLUMNS			Yes	Yes	Yes	Yes	Yes
COLUMN_FORMAT			Yes	Yes	Yes	Yes	Yes
COLUMN_NAME			Yes	Yes	Yes	Yes	Yes
COMMENT			Yes	Yes	Yes	Yes	Yes
COMMIT			Yes	Yes	Yes	Yes	Yes
COMMITTED			Yes	Yes	Yes	Yes	Yes
COMPACT			Yes	Yes	Yes	Yes	Yes
COMPLETION			Yes	Yes	Yes	Yes	Yes
COMPONENT				Yes	Yes	Yes	Yes
COMPRESSED			Yes	Yes	Yes	Yes	Yes
COMPRESSION	5.7.8		Yes	Yes	Yes	Yes	Yes
CONCURRENT			Yes	Yes	Yes	Yes	Yes
CONDITION			Yes (R)				
CONNECTION			Yes	Yes	Yes	Yes	Yes
CONSISTENT			Yes	Yes	Yes	Yes	Yes
CONSTRAINT			Yes (R)				
CONSTRAINT_CATALOG			Yes	Yes	Yes	Yes	Yes
CONSTRAINT_NAME			Yes	Yes	Yes	Yes	Yes
CONSTRAINT_SCHEMA			Yes	Yes	Yes	Yes	Yes
CONTAINS			Yes	Yes	Yes	Yes	Yes
CONTEXT			Yes	Yes	Yes	Yes	Yes
CONTINUE			Yes (R)				
CONVERT			Yes (R)				
CPU			Yes	Yes	Yes	Yes	Yes
CREATE			Yes (R)				
CROSS			Yes (R)				
CUBE			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)
CUME_DIST	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
CURRENT			Yes	Yes	Yes	Yes	Yes

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

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
DIV			Yes (R)				
DO			Yes	Yes	Yes	Yes	Yes
DOUBLE			Yes (R)				
DROP			Yes (R)				
DUAL			Yes (R)				
DUMPFILE			Yes	Yes	Yes	Yes	Yes
DUPLICATE			Yes	Yes	Yes	Yes	Yes
DYNAMIC			Yes	Yes	Yes	Yes	Yes
EACH			Yes (R)				
ELSE			Yes (R)				
ELSEIF			Yes (R)				
EMPTY	8.0.4			Yes (R)	Yes (R)	Yes (R)	Yes (R)
ENABLE			Yes	Yes	Yes	Yes	Yes
ENCLOSED			Yes (R)				
ENCRYPTION	5.7.11		Yes	Yes	Yes	Yes	Yes
END			Yes	Yes	Yes	Yes	Yes
ENDS			Yes	Yes	Yes	Yes	Yes
ENFORCED	8.0.16			Yes	Yes	Yes	Yes
ENGINE			Yes	Yes	Yes	Yes	Yes
ENGINES			Yes	Yes	Yes	Yes	Yes
ENGINE_ATTRIBUTE	8.0.21			Yes	Yes	Yes	Yes
ENUM			Yes	Yes	Yes	Yes	Yes
ERROR			Yes	Yes	Yes	Yes	Yes
ERRORS			Yes	Yes	Yes	Yes	Yes
ESCAPE			Yes	Yes	Yes	Yes	Yes
ESCAPED			Yes (R)				
EVENT			Yes	Yes	Yes	Yes	Yes
EVENTS			Yes	Yes	Yes	Yes	Yes
EVERY			Yes	Yes	Yes	Yes	Yes
EXCEPT				Yes (R)	Yes (R)	Yes (R)	Yes (R)
EXCHANGE			Yes	Yes	Yes	Yes	Yes
EXCLUDE	8.0.2			Yes	Yes	Yes	Yes
EXECUTE			Yes	Yes	Yes	Yes	Yes
EXISTS			Yes (R)				
EXIT			Yes (R)				
EXPANSION			Yes	Yes	Yes	Yes	Yes
EXPIRE			Yes	Yes	Yes	Yes	Yes
EXPLAIN			Yes (R)				
EXPORT			Yes	Yes	Yes	Yes	Yes
EXTENDED			Yes	Yes	Yes	Yes	Yes
EXTENT_SIZE			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
FACTOR	8.0.27			Yes	Yes	Yes	Yes
FAILED_LOCK_ATTEMPTS	8.0.19			Yes	Yes	Yes	Yes
FALSE			Yes (R)				
FAST			Yes	Yes	Yes	Yes	Yes
FAULTS			Yes	Yes	Yes	Yes	Yes
FETCH			Yes (R)				
FIELDS			Yes	Yes	Yes	Yes	Yes
FILE			Yes	Yes	Yes	Yes	Yes
FILE_BLOCK_SIZE	5.7.6		Yes	Yes	Yes	Yes	Yes
FILTER	5.7.3		Yes	Yes	Yes	Yes	Yes
FINISH	8.0.27			Yes	Yes	Yes	Yes
FIRST			Yes	Yes	Yes	Yes	Yes
FIRST_VALUE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
FIXED			Yes	Yes	Yes	Yes	Yes
FLOAT			Yes (R)				
FLOAT4			Yes (R)				
FLOAT8			Yes (R)				
FLUSH			Yes	Yes	Yes	Yes	Yes
FOLLOWING	8.0.2			Yes	Yes	Yes	Yes
FOLLOWS	5.7.2		Yes	Yes	Yes	Yes	Yes
FOR			Yes (R)				
FORCE			Yes (R)				
FOREIGN			Yes (R)				
FORMAT			Yes	Yes	Yes	Yes	Yes
FOUND			Yes	Yes	Yes	Yes	Yes
FROM			Yes (R)				
FULL			Yes	Yes	Yes	Yes	Yes
FULLTEXT			Yes (R)				
FUNCTION			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)
GENERAL			Yes	Yes	Yes	Yes	Yes
GENERATE	8.0.32			Yes	Yes	Yes	Yes
GENERATED	5.7.6		Yes (R)				
GEOMCOLL	8.0.11			Yes	Yes	Yes	Yes
GEOMETRY			Yes	Yes	Yes	Yes	Yes
GEOMETRYCOLLECTION			Yes	Yes	Yes	Yes	Yes
GET			Yes (R)				
GET_FORMAT			Yes	Yes	Yes	Yes	Yes
GET_MASTER_PUBLIC_KEY	8.0.4			Yes	Yes	Yes	Yes
GET_SOURCE_PUBLIC_KEY	8.0.23			Yes	Yes	Yes	Yes
GLOBAL			Yes	Yes	Yes	Yes	Yes
GRANT			Yes (R)				

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
GRANTS			Yes	Yes	Yes	Yes	Yes
GROUP			Yes (R)				
GROUPING	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)
GROUPS	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
GROUP_REPLICATION	5.7.6		Yes	Yes	Yes	Yes	Yes
GTIDS						Yes	Yes
GTID_ONLY	8.0.27			Yes	Yes	Yes	Yes
HANDLER			Yes	Yes	Yes	Yes	Yes
HASH			Yes	Yes	Yes	Yes	Yes
HAVING			Yes (R)				
HELP			Yes	Yes	Yes	Yes	Yes
HIGH_PRIORITY			Yes (R)				
HISTOGRAM	8.0.2			Yes	Yes	Yes	Yes
HISTORY	8.0.3			Yes	Yes	Yes	Yes
HOST			Yes	Yes	Yes	Yes	Yes
HOSTS			Yes	Yes	Yes	Yes	Yes
HOUR			Yes	Yes	Yes	Yes	Yes
HOUR_MICROSECOND			Yes (R)				
HOUR_MINUTE			Yes (R)				
HOUR_SECOND			Yes (R)				
IDENTIFIED			Yes	Yes	Yes	Yes	Yes
IF			Yes (R)				
IGNORE			Yes (R)				
IGNORE_SERVER_IDS			Yes	Yes	Yes	Yes	Yes
IMPORT			Yes	Yes	Yes	Yes	Yes
IN			Yes (R)				
INACTIVE	8.0.14			Yes	Yes	Yes	Yes
INDEX			Yes (R)				
INDEXES			Yes	Yes	Yes	Yes	Yes
INFILE			Yes (R)				
INITIAL	8.0.27			Yes	Yes	Yes	Yes
INITIAL_SIZE			Yes	Yes	Yes	Yes	Yes
INITIATE	8.0.27			Yes	Yes	Yes	Yes
INNER			Yes (R)				
INOUT			Yes (R)				
INSENSITIVE			Yes (R)				
INSERT			Yes (R)				
INSERT_METHOD			Yes	Yes	Yes	Yes	Yes
INSTALL			Yes	Yes	Yes	Yes	Yes
INSTANCE	5.7.11		Yes	Yes	Yes	Yes	Yes
INT			Yes (R)				

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

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
LIKE			Yes (R)				
LIMIT			Yes (R)				
LINEAR			Yes (R)				
LINES			Yes (R)				
LINESTRING			Yes	Yes	Yes	Yes	Yes
LIST			Yes	Yes	Yes	Yes	Yes
LOAD			Yes (R)				
LOCAL			Yes	Yes	Yes	Yes	Yes
LOCALTIME			Yes (R)				
LOCALTIMESTAMP			Yes (R)				
LOCK			Yes (R)				
LOCKED	8.0.1			Yes	Yes	Yes	Yes
LOCKS			Yes	Yes	Yes	Yes	Yes
LOG						Yes	Yes
LOGFILE			Yes	Yes	Yes	Yes	Yes
LOGS			Yes	Yes	Yes	Yes	Yes
LONG			Yes (R)				
LONGBLOB			Yes (R)				
LONGTEXT			Yes (R)				
LOOP			Yes (R)				
LOW_PRIORITY			Yes (R)				
MASTER			Yes	Yes	Yes	Yes	Yes
MASTER_AUTO_POSITION			Yes	Yes	Yes	Yes	Yes
MASTER_BIND			Yes (R)				
MASTER_CONNECTION_ALGORITHMS	8.0.18			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_PUBLISH_KEY_PATH	8.0.4			Yes	Yes	Yes	Yes
MASTER_RETRY_COUNT			Yes	Yes	Yes	Yes	Yes
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

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
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	8.0.19		Yes (R)				
MASTER_TLS_CIPHERSUITES				Yes	Yes	Yes	Yes
MASTER_TLSPTION	5.7.10		Yes	Yes	Yes	Yes	Yes
MASTER_USER			Yes	Yes	Yes	Yes	Yes
MASTER_ZSTCOMPRESSION_LEVEL	8.0.18			Yes	Yes	Yes	Yes
MATCH			Yes (R)				
MAXVALUE			Yes (R)				
MAX_CONNECTIONS_PER_HOUR			Yes	Yes	Yes	Yes	Yes
MAX_QUERIES_PER_HOUR			Yes	Yes	Yes	Yes	Yes
MAX_ROWS			Yes	Yes	Yes	Yes	Yes
MAX_SIZE			Yes	Yes	Yes	Yes	Yes
MAX_STATEMENTTIME	5.7.4	5.7.8	Yes				
MAX_UPDATES_PER_HOUR			Yes	Yes	Yes	Yes	Yes
MAX_USER_CONNECTIONS			Yes	Yes	Yes	Yes	Yes
MEDIUM			Yes	Yes	Yes	Yes	Yes
MEDIUMBLOB			Yes (R)				
MEDIUMINT			Yes (R)				
MEDIUMTEXT			Yes (R)				
MEMBER	8.0.17			Yes	Yes	Yes	Yes
MEMORY			Yes	Yes	Yes	Yes	Yes
MERGE			Yes	Yes	Yes	Yes	Yes
MESSAGE_TEXT			Yes	Yes	Yes	Yes	Yes
MICROSECOND			Yes	Yes	Yes	Yes	Yes
MIDDLEINT			Yes (R)				
MIGRATE			Yes	Yes	Yes	Yes	Yes
MINUTE			Yes	Yes	Yes	Yes	Yes
MINUTE_MICROSECOND			Yes (R)				
MINUTE_SECOND			Yes (R)				
MIN_ROWS			Yes	Yes	Yes	Yes	Yes
MOD			Yes (R)				
MODE			Yes	Yes	Yes	Yes	Yes
MODIFIES			Yes (R)				
MODIFY			Yes	Yes	Yes	Yes	Yes
MONTH			Yes	Yes	Yes	Yes	Yes
MULTILINESTRING			Yes	Yes	Yes	Yes	Yes
MULTIPOINT			Yes	Yes	Yes	Yes	Yes
MULTIPOLYGON			Yes	Yes	Yes	Yes	Yes
MUTEX			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
MYSQL_ERRNO			Yes	Yes	Yes	Yes	Yes
NAME			Yes	Yes	Yes	Yes	Yes
NAMES			Yes	Yes	Yes	Yes	Yes
NATIONAL			Yes	Yes	Yes	Yes	Yes
NATURAL			Yes (R)				
NCHAR			Yes	Yes	Yes	Yes	Yes
NDB			Yes	Yes	Yes	Yes	Yes
NDBCLUSTER			Yes	Yes	Yes	Yes	Yes
NESTED	8.0.4			Yes	Yes	Yes	Yes
NETWORK_N AME ^{ACE}	8.0.16			Yes	Yes	Yes	Yes
NEVER	5.7.4		Yes	Yes	Yes	Yes	Yes
NEW			Yes	Yes	Yes	Yes	Yes
NEXT			Yes	Yes	Yes	Yes	Yes
NO			Yes	Yes	Yes	Yes	Yes
NODEGROUP			Yes	Yes	Yes	Yes	Yes
NONBLOCKING		5.7.6	Yes (R)				
NONE			Yes	Yes	Yes	Yes	Yes
NOT			Yes (R)				
NOWAIT	8.0.1			Yes	Yes	Yes	Yes
NO_WAIT			Yes	Yes	Yes	Yes	Yes
NO_WRITE_TO_BINLOG			Yes (R)				
NTH_VALUE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
NTILE	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
NULL			Yes (R)				
NULLS	8.0.2			Yes	Yes	Yes	Yes
NUMBER			Yes	Yes	Yes	Yes	Yes
NUMERIC			Yes (R)				
NVARCHAR			Yes	Yes	Yes	Yes	Yes
OF	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)
OFF	8.0.20			Yes	Yes	Yes	Yes
OFFSET			Yes	Yes	Yes	Yes	Yes
OJ	8.0.16			Yes	Yes	Yes	Yes
OLD	8.0.14			Yes	Yes	Yes	Yes
OLD_PASSWORD		5.7.5	Yes				
ON			Yes (R)				
ONE			Yes	Yes	Yes	Yes	Yes
ONLY			Yes	Yes	Yes	Yes	Yes
OPEN			Yes	Yes	Yes	Yes	Yes
OPTIMIZE			Yes (R)				
OPTIMIZER TS ^{5.7.5TS}			Yes (R)				
OPTION			Yes (R)				

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
OPTIONAL	8.0.13			Yes	Yes	Yes	Yes
OPTIONALLY			Yes (R)				
OPTIONS			Yes	Yes	Yes	Yes	Yes
OR			Yes (R)				
ORDER			Yes (R)				
ORDINALITY	8.0.4			Yes	Yes	Yes	Yes
ORGANIZATION	8.0.4			Yes	Yes	Yes	Yes
OTHERS	8.0.2			Yes	Yes	Yes	Yes
OUT			Yes (R)				
OUTER			Yes (R)				
OUTFILE			Yes (R)				
OVER	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
OWNER			Yes	Yes	Yes	Yes	Yes
PACK_KEYS			Yes	Yes	Yes	Yes	Yes
PAGE			Yes	Yes	Yes	Yes	Yes
PARALLEL						Yes (R)	Yes (R)
PARSER			Yes	Yes	Yes	Yes	Yes
PARSE_GCO	5.7.6PR		Yes				
PARSE_TREE					Yes	Yes	Yes
PARTIAL			Yes	Yes	Yes	Yes	Yes
PARTITION			Yes (R)				
PARTITIONING			Yes	Yes	Yes	Yes	Yes
PARTITIONS			Yes	Yes	Yes	Yes	Yes
PASSWORD			Yes	Yes	Yes	Yes	Yes
PASSWORD_TIME	8.0.19			Yes	Yes	Yes	Yes
PATH	8.0.4			Yes	Yes	Yes	Yes
PERCENT_RPN	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
PERSIST				Yes	Yes	Yes	Yes
PERSIST_ON	8.0.2			Yes	Yes	Yes	Yes
PHASE			Yes	Yes	Yes	Yes	Yes
PLUGIN			Yes	Yes	Yes	Yes	Yes
PLUGINS			Yes	Yes	Yes	Yes	Yes
PLUGIN_DIR			Yes	Yes	Yes	Yes	Yes
POINT			Yes	Yes	Yes	Yes	Yes
POLYGON			Yes	Yes	Yes	Yes	Yes
PORT			Yes	Yes	Yes	Yes	Yes
PRECEDES	5.7.2		Yes	Yes	Yes	Yes	Yes
PRECEDING	8.0.2			Yes	Yes	Yes	Yes
PRECISION			Yes (R)				
PREPARE			Yes	Yes	Yes	Yes	Yes
PRESERVE			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
PREV			Yes	Yes	Yes	Yes	Yes
PRIMARY			Yes (R)				
PRIVILEGES			Yes	Yes	Yes	Yes	Yes
PRIVILEGE	8.0.18	KS_USER		Yes	Yes	Yes	Yes
PROCEDURE			Yes (R)				
PROCESS	8.0.11			Yes	Yes	Yes	Yes
PROCESSLIST			Yes	Yes	Yes	Yes	Yes
PROFILE			Yes	Yes	Yes	Yes	Yes
PROFILES			Yes	Yes	Yes	Yes	Yes
PROXY			Yes	Yes	Yes	Yes	Yes
PURGE			Yes (R)				
QUALIFY							Yes (R)
QUARTER			Yes	Yes	Yes	Yes	Yes
QUERY			Yes	Yes	Yes	Yes	Yes
QUICK			Yes	Yes	Yes	Yes	Yes
RANDOM	8.0.18			Yes	Yes	Yes	Yes
RANGE			Yes (R)				
RANK	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
READ			Yes (R)				
READS			Yes (R)				
READ_ONLY			Yes	Yes	Yes	Yes	Yes
READ_WRITE			Yes (R)				
REAL			Yes (R)				
REBUILD			Yes	Yes	Yes	Yes	Yes
RECOVER			Yes	Yes	Yes	Yes	Yes
RECURSIVE	8.0.1			Yes (R)	Yes (R)	Yes (R)	Yes (R)
REDOFILE		8.0.3	Yes	Yes			
REDO_BUFFER_SIZE			Yes	Yes	Yes	Yes	Yes
REDUNDANT			Yes	Yes	Yes	Yes	Yes
REFERENCE	8.0.4			Yes	Yes	Yes	Yes
REFERENCES			Yes (R)				
REGEXP			Yes (R)				
REGISTRATION	8.0.27			Yes	Yes	Yes	Yes
RELAY			Yes	Yes	Yes	Yes	Yes
RELAYLOG			Yes	Yes	Yes	Yes	Yes
RELAY_LOG_FILE			Yes	Yes	Yes	Yes	Yes
RELAY_LOG_POS			Yes	Yes	Yes	Yes	Yes
RELAY_THREAD			Yes	Yes	Yes	Yes	Yes
RELEASE			Yes (R)				
RELOAD			Yes	Yes	Yes	Yes	Yes
REMOTE	8.0.3	8.0.14		Yes			

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
REMOVE			Yes	Yes	Yes	Yes	Yes
RENAME			Yes (R)				
REORGANIZE			Yes	Yes	Yes	Yes	Yes
REPAIR			Yes	Yes	Yes	Yes	Yes
REPEAT			Yes (R)				
REPEATABLE			Yes	Yes	Yes	Yes	Yes
REPLACE			Yes (R)				
REPLICA	8.0.22			Yes	Yes	Yes	Yes
REPLICAS	8.0.22			Yes	Yes	Yes	Yes
REPLICATE_573DB			Yes	Yes	Yes	Yes	Yes
REPLICATE_573TABLE			Yes	Yes	Yes	Yes	Yes
REPLICATE_573MORE_DB			Yes	Yes	Yes	Yes	Yes
REPLICATE_573MORE_TABLE			Yes	Yes	Yes	Yes	Yes
REPLICATE_573WRITE_DB			Yes	Yes	Yes	Yes	Yes
REPLICATE_5713D_DO_TABLE			Yes	Yes	Yes	Yes	Yes
REPLICATE_5713D_IGNORE_TABLE			Yes	Yes	Yes	Yes	Yes
REPLICATION			Yes	Yes	Yes	Yes	Yes
REQUIRE			Yes (R)				
REQUIRE_R8019FORMAT				Yes	Yes	Yes	Yes
RESET			Yes	Yes	Yes	Yes	Yes
RESIGNAL			Yes (R)				
RESOURCE	8.0.3			Yes	Yes	Yes	Yes
RESPECT	8.0.2			Yes	Yes	Yes	Yes
RESTART	8.0.4			Yes	Yes	Yes	Yes
RESTORE			Yes	Yes	Yes	Yes	Yes
RESTRICT			Yes (R)				
RESUME			Yes	Yes	Yes	Yes	Yes
RETAIN	8.0.14			Yes	Yes	Yes	Yes
RETURN			Yes (R)				
RETURNED_SQLSTATE			Yes	Yes	Yes	Yes	Yes
RETURNING	8.0.21			Yes	Yes	Yes	Yes
RETURNS			Yes	Yes	Yes	Yes	Yes
REUSE	8.0.3			Yes	Yes	Yes	Yes
REVERSE			Yes	Yes	Yes	Yes	Yes
REVOKE			Yes (R)				
RIGHT			Yes (R)				
RLIKE			Yes (R)				
ROLE				Yes	Yes	Yes	Yes
ROLLBACK			Yes	Yes	Yes	Yes	Yes
ROLLUP			Yes	Yes	Yes	Yes	Yes
ROTATE	5.7.11		Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
ROUTINE			Yes	Yes	Yes	Yes	Yes
ROW			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ROWS			Yes	Yes (R)	Yes (R)	Yes (R)	Yes (R)
ROW_COUNT			Yes	Yes	Yes	Yes	Yes
ROW_FORMAT			Yes	Yes	Yes	Yes	Yes
ROW_NUMBER	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
RTREE			Yes	Yes	Yes	Yes	Yes
S3						Yes	Yes
SAVEPOINT			Yes	Yes	Yes	Yes	Yes
SCHEDULE			Yes	Yes	Yes	Yes	Yes
SCHEMA			Yes (R)				
SCHEMAS			Yes (R)				
SCHEMA_NAME			Yes	Yes	Yes	Yes	Yes
SECOND			Yes	Yes	Yes	Yes	Yes
SECONDARY	8.0.16			Yes	Yes	Yes	Yes
SECONDARY	8.0.13			Yes	Yes	Yes	Yes
SECONDARY	8.0.21	LINE_ATTRIBUTE		Yes	Yes	Yes	Yes
SECONDARY	8.0.43			Yes	Yes	Yes	Yes
SECONDARY	8.0.13	AD		Yes	Yes	Yes	Yes
SECOND_MICROSECOND			Yes (R)				
SECURITY			Yes	Yes	Yes	Yes	Yes
SELECT			Yes (R)				
SENSITIVE			Yes (R)				
SEPARATOR			Yes (R)				
SERIAL			Yes	Yes	Yes	Yes	Yes
SERIALIZABLE			Yes	Yes	Yes	Yes	Yes
SERVER			Yes	Yes	Yes	Yes	Yes
SESSION			Yes	Yes	Yes	Yes	Yes
SET			Yes (R)				
SHARE			Yes	Yes	Yes	Yes	Yes
SHOW			Yes (R)				
SHUTDOWN			Yes	Yes	Yes	Yes	Yes
SIGNAL			Yes (R)				
SIGNED			Yes	Yes	Yes	Yes	Yes
SIMPLE			Yes	Yes	Yes	Yes	Yes
SKIP	8.0.1			Yes	Yes	Yes	Yes
SLAVE			Yes	Yes	Yes	Yes	Yes
SLOW			Yes	Yes	Yes	Yes	Yes
SMALLINT			Yes (R)				
SNAPSHOT			Yes	Yes	Yes	Yes	Yes
SOCKET			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
SQL_CACHE		8.0.3	Yes	Yes			
SQL_CALC_FOUND_ROWS			Yes (R)				
SQL_NO_CACHE			Yes	Yes	Yes	Yes	Yes
SQL_SMALL_RESULT			Yes (R)				
SQL_THREAD			Yes	Yes	Yes	Yes	Yes
SQL_TSI_DAY			Yes	Yes	Yes	Yes	Yes
SQL_TSI_HOUR			Yes	Yes	Yes	Yes	Yes
SQL_TSI_MINUTE			Yes	Yes	Yes	Yes	Yes
SQL_TSI_MONTH			Yes	Yes	Yes	Yes	Yes
SQL_TSI_QUARTER			Yes	Yes	Yes	Yes	Yes
SQL_TSI_SECOND			Yes	Yes	Yes	Yes	Yes
SQL_TSI_WEEK			Yes	Yes	Yes	Yes	Yes
SQL_TSI_YEAR			Yes	Yes	Yes	Yes	Yes
SRID	8.0.3			Yes	Yes	Yes	Yes
SSL			Yes (R)				
STACKED			Yes	Yes	Yes	Yes	Yes
START			Yes	Yes	Yes	Yes	Yes
STARTING			Yes (R)				
STARTS			Yes	Yes	Yes	Yes	Yes
STATS_AUTO_RECALC			Yes	Yes	Yes	Yes	Yes
STATS_PERSISTENT			Yes	Yes	Yes	Yes	Yes
STATS_SAMPLE_PAGES			Yes	Yes	Yes	Yes	Yes
STATUS			Yes	Yes	Yes	Yes	Yes
STOP			Yes	Yes	Yes	Yes	Yes
STORAGE			Yes	Yes	Yes	Yes	Yes
STORED	5.7.6		Yes (R)				
STRAIGHT_JOIN			Yes (R)				
STREAM	8.0.20			Yes	Yes	Yes	Yes
STRING			Yes	Yes	Yes	Yes	Yes
SUBCLASS_ORIGIN			Yes	Yes	Yes	Yes	Yes
SUBJECT			Yes	Yes	Yes	Yes	Yes
SUBPARTITION			Yes	Yes	Yes	Yes	Yes
SUBPARTITIONS			Yes	Yes	Yes	Yes	Yes
SUPER			Yes	Yes	Yes	Yes	Yes
SUSPEND			Yes	Yes	Yes	Yes	Yes
SWAPS			Yes	Yes	Yes	Yes	Yes
SWITCHES			Yes	Yes	Yes	Yes	Yes
SYSTEM	8.0.3			Yes (R)	Yes (R)	Yes (R)	Yes (R)
TABLE			Yes (R)				
TABLES			Yes	Yes	Yes	Yes	Yes
TABLESPACE			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
TABLE_CHECKSUM			Yes	Yes	Yes	Yes	Yes
TABLE_NAME			Yes	Yes	Yes	Yes	Yes
TEMPORARY			Yes	Yes	Yes	Yes	Yes
TEMPTABLE			Yes	Yes	Yes	Yes	Yes
TERMINATED			Yes (R)				
TEXT			Yes	Yes	Yes	Yes	Yes
THAN			Yes	Yes	Yes	Yes	Yes
THEN			Yes (R)				
THREAD_PRIORITY	8.0.3			Yes	Yes	Yes	Yes
TIES	8.0.2			Yes	Yes	Yes	Yes
TIME			Yes	Yes	Yes	Yes	Yes
TIMESTAMP			Yes	Yes	Yes	Yes	Yes
TIMESTAMPADD			Yes	Yes	Yes	Yes	Yes
TIMESTAMPDIFF			Yes	Yes	Yes	Yes	Yes
TINYBLOB			Yes (R)				
TINYINT			Yes (R)				
TINYTEXT			Yes (R)				
TLS	8.0.21			Yes	Yes	Yes	Yes
TO			Yes (R)				
TRAILING			Yes (R)				
TRANSACTION			Yes	Yes	Yes	Yes	Yes
TRIGGER			Yes (R)				
TRIGGERS			Yes	Yes	Yes	Yes	Yes
TRUE			Yes (R)				
TRUNCATE			Yes	Yes	Yes	Yes	Yes
TYPE			Yes	Yes	Yes	Yes	Yes
TYPES			Yes	Yes	Yes	Yes	Yes
UNBOUNDED	8.0.2			Yes	Yes	Yes	Yes
UNCOMMITTED			Yes	Yes	Yes	Yes	Yes
UNDEFINED			Yes	Yes	Yes	Yes	Yes
UNDO			Yes (R)				
UNDOFILE			Yes	Yes	Yes	Yes	Yes
UNDO_BUFFER_SIZE			Yes	Yes	Yes	Yes	Yes
UNICODE			Yes	Yes	Yes	Yes	Yes
UNINSTALL			Yes	Yes	Yes	Yes	Yes
UNION			Yes (R)				
UNIQUE			Yes (R)				
UNKNOWN			Yes	Yes	Yes	Yes	Yes
UNLOCK			Yes (R)				
UNREGISTER	8.0.27			Yes	Yes	Yes	Yes
UNSIGNED			Yes (R)				

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
UNTIL			Yes	Yes	Yes	Yes	Yes
UPDATE			Yes (R)				
UPGRADE			Yes	Yes	Yes	Yes	Yes
URL	8.0.32			Yes	Yes	Yes	Yes
USAGE			Yes (R)				
USE			Yes (R)				
USER			Yes	Yes	Yes	Yes	Yes
USER_RESOURCES			Yes	Yes	Yes	Yes	Yes
USE_FRM			Yes	Yes	Yes	Yes	Yes
USING			Yes (R)				
UTC_DATE			Yes (R)				
UTC_TIME			Yes (R)				
UTC_TIMESTAMP			Yes (R)				
VALIDATION	5.7.5		Yes	Yes	Yes	Yes	Yes
VALUE			Yes	Yes	Yes	Yes	Yes
VALUES			Yes (R)				
VARBINARY			Yes (R)				
VARCHAR			Yes (R)				
VARCHARACTER			Yes (R)				
VARIABLES			Yes	Yes	Yes	Yes	Yes
VARYING			Yes (R)				
VCPU	8.0.3			Yes	Yes	Yes	Yes
VIEW			Yes	Yes	Yes	Yes	Yes
VIRTUAL	5.7.6		Yes (R)				
VISIBLE				Yes	Yes	Yes	Yes
WAIT			Yes	Yes	Yes	Yes	Yes
WARNINGS			Yes	Yes	Yes	Yes	Yes
WEEK			Yes	Yes	Yes	Yes	Yes
WEIGHT_STRING			Yes	Yes	Yes	Yes	Yes
WHEN			Yes (R)				
WHERE			Yes (R)				
WHILE			Yes (R)				
WINDOW	8.0.2			Yes (R)	Yes (R)	Yes (R)	Yes (R)
WITH			Yes (R)				
WITHOUT	5.7.5		Yes	Yes	Yes	Yes	Yes
WORK			Yes	Yes	Yes	Yes	Yes
WRAPPER			Yes	Yes	Yes	Yes	Yes
WRITE			Yes (R)				
X509			Yes	Yes	Yes	Yes	Yes
XA			Yes	Yes	Yes	Yes	Yes
XID	5.7.5		Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
XML			Yes	Yes	Yes	Yes	Yes
XOR			Yes (R)				
YEAR			Yes	Yes	Yes	Yes	Yes
YEAR_MONTH			Yes (R)				
ZEROFILL			Yes (R)				
ZONE	8.0.22			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)
- `CASCDED`
- `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)

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 \(R\)](#)
- [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_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)`

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`
- `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 \(R\)](#)
- [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_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)`

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

- `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.

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.
- **5.7, 8.0, 8.1, 8.2, 8.3:** 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
ADD_GDB_INSTRUMENTATION	8.0.18			Some	Yes	Yes	Yes
BUILD_CONFIG			Yes	Yes	Yes	Yes	Yes
BUNDLE_RUNTIME_LIBRARIES	8.0.11			Yes	Yes	Yes	Yes
CMAKE_BUILD_TYPE			Yes	Yes	Yes	Yes	Yes
CMAKE_CXX_FLAGS			Yes	Yes	Yes	Yes	Yes
CMAKE_C_FLAGS			Yes	Yes	Yes	Yes	Yes
CMAKE_INSTALL_PREFIX			Yes	Yes	Yes	Yes	Yes
COMPILATION_COMMENT			Yes	Yes	Yes	Yes	Yes
COMPILATION_SERVER	8.0.14			Some	Yes	Yes	Yes
COMPRESS_DEBUG_SECTIONS	8.0.22			Some	Yes	Yes	Yes
CPACK_MONOLITHIC_INSTALL			Yes	Yes	Yes	Yes	Yes
DEFAULT_CHARSET			Yes	Yes	Yes	Yes	Yes
DEFAULT_COLLATION			Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_COND	5.7.3		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_DATA_LOCK				Yes	Yes	Yes	Yes
DISABLE_PSI_ERROR				Yes	Yes	Yes	Yes
DISABLE_PSI_FILE	5.7.3		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_IDLE	5.7.3		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_MEMORY	5.7.3		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_METADATA	5.7.3		Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
DISABLE_PSI_UTEX	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_TS	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_WLOCK	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_SOCKET	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_SP	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_STAGE	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_STATEMENT	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_STATEMENT_DIGEST	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_TABLE	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_THREAD	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_PSI_TRANSACTION	5.7.8		Yes	Yes	Yes	Yes	Yes
DISABLE_SHARED	8.0.18		Some				
DOWNLOAD_F575T	5.7.5T		Yes	Yes	Yes	Yes	
DOWNLOAD_F576T_TIMEOUT	5.7.6T		Yes	Yes	Yes	Yes	
ENABLED_LOCAL_INFILE			Yes	Yes	Yes	Yes	Yes
ENABLED_PROFILING			Yes	Yes	Yes	Yes	Yes
ENABLE_DEBUG_SYNC	5.7.1, 8.0.1						
ENABLE_DOWNLOADS	8.0.26	Yes	Some				
ENABLE_DTRACE	8.0.1	Yes					
ENABLE_EXPERIMENTAL_SYSVARS	8.0.11		Yes	Yes	Yes	Yes	Yes
ENABLE_GCOV			Yes	Yes	Yes	Yes	Yes
ENABLE_GPROF			Yes	Yes	Yes	Yes	Yes
FORCE_COLOR_OUTPUT	8.0.33		Some	Yes	Yes	Yes	Yes
FORCE_INSOURCE_BUILD	8.0.14		Some	Yes	Yes	Yes	Yes
FORCE_UNSAFE_COMPILER	5.7.5	Yes	Yes	Yes	Yes	Yes	Yes
FPROFILE_SOURCE_DATE	8.0.19		Some	Yes	Yes	Yes	Yes
FPROFILE_SOURCE_VERSION	8.0.19		Some	Yes	Yes	Yes	Yes
HAVE_PSI_DYNAMIC_INTERFACE	8.0.26		Some	Yes	Yes	Yes	Yes
IGNORE_AIO_CHECK			Yes	Yes	Yes	Yes	Yes
INNODB_PAGES_574_ATOMIC_575_COUNT	5.7.4	5.7.5					
INSTALL_BINDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_DOCDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_DOCREADMEDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_INCLUDEDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_INFODIR			Yes	Yes	Yes	Yes	Yes
INSTALL_LAYOUT			Yes	Yes	Yes	Yes	Yes
INSTALL_LIBDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_MANDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_MYSQLEYRINGDIR	5.7.11		Some	Yes	Yes	Yes	Yes
INSTALL_MYSQLSHAREDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_SQLTESTDIR			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
INSTALL_PLUGINDIR	5.7.9		Yes	Yes	Yes	Yes	Yes
INSTALL_PLUGINDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_PLUGINDIR	8.0.18			Some	Yes	Yes	Yes
INSTALL_SBINDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_SCRIPTDIR			Yes				
INSTALL_SECURE_FILE_PRIVDIR	5.7.6		Yes	Yes	Yes	Yes	Yes
INSTALL_SECURE_FILE_PRIV_EMBEDDED	5.7.8		Yes				
INSTALL_SHAREDIR			Yes	Yes	Yes	Yes	Yes
INSTALL_SQLBENCHDIR	5.7.8						
INSTALL_STATIC_LIBRARIES				Yes	Yes	Yes	Yes
INSTALL_SUPPORTFILESDIR			Yes	Yes	Yes	Yes	Yes
LINK_RANDOME	8.0.1			Yes	Yes	Yes	Yes
LINK_RANDOME_SEED	8.0.1			Yes	Yes	Yes	Yes
MAX_INDEXES	5.7.1		Yes	Yes	Yes	Yes	Yes
MEMCACHED_HOME		5.7.33, 8.0.23	Some	Some			
MSVC_CPPCH	8.0.33			Some	Yes	Yes	Yes
MUTEX_TYPE	5.7.2		Yes	Yes	Yes	Yes	Yes
MYSQLX_TCP	5.7.17		Some	Yes	Yes	Yes	Yes
MYSQLX_UNIX_ADDR	5.7.15		Some	Yes	Yes	Yes	Yes
MYSQL_DATADIR			Yes	Yes	Yes	Yes	Yes
MYSQL_MAINTAINER_MODE			Yes	Yes	Yes	Yes	Yes
MYSQL_PROJECT_NAME			Yes	Yes	Yes	Yes	Yes
MYSQL_TCP_PORT			Yes	Yes	Yes	Yes	Yes
MYSQL_UNIX_ADDR			Yes	Yes	Yes	Yes	Yes
NDB_UTILS	8.0.22_DYNAMIC			Some	Yes	Yes	Yes
ODBC_INCLUDES			Yes	Yes	Yes	Yes	Yes
ODBC_LIB_DIR			Yes	Yes	Yes	Yes	Yes
OPTIMIZER_TRACE			Yes	Yes	Yes	Yes	Yes
OPTIMIZE_SIZE_OF_COMPILER_BUILDS	8.0.34			Some	Yes	Yes	Yes
REPRODUCIBLEBUILD	5.7.19	8.0.11	Some	Yes	Yes	Yes	Yes
SHOW_SUPPRESS_COMPILER_WARNING	8.0.30			Some	Yes	Yes	Yes
SUNPRO_CXXLIBRARY	5.7.5		Yes				
SYSCONFDIR			Yes	Yes	Yes	Yes	Yes
SYSTEMD_PDIR	5.7.6		Yes	Yes	Yes	Yes	Yes
SYSTEMD_SERVICE_NAME	5.7.6		Yes	Yes	Yes	Yes	Yes
TMPDIR	5.7.4		Yes	Yes	Yes	Yes	Yes
USE_LD_GOLD		8.0.31		Some			
USE_LD_LLD	8.0.16			Some	Yes	Yes	
WIN_DEBUGINLINE	5.7.6		Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
WITHOUT_SERVER			Yes	Yes	Yes	Yes	Yes
WITHOUT_xxx_STORAGE_ENGINE			Yes	Yes	Yes	Yes	Yes
WITH_ANT	8.0.11			Yes	Yes	Yes	Yes
WITH_ASAN	5.7.3		Yes	Yes	Yes	Yes	Yes
WITH_ASAN	5.7.21		Some	Yes	Yes	Yes	Yes
	8.0.4						
WITH_AUTHENTICATION_CLIENT_PLUGINS	8.0.26		Some	Yes	Yes	Yes	Yes
WITH_AUTHENTICATION_LDAP	5.7.19		Some	Yes	Yes	Yes	Yes
	8.0.2						
WITH_AUTHENTICATION_PAM			Yes	Yes	Yes	Yes	Yes
WITH_AWS	5.7.19,		Some	Yes	Yes	Yes	Yes
	8.0.2						
WITH_BOOST	5.7.5		Yes	Yes	Yes	Yes	
WITH_BUILD	8.0.31			Some	Yes	Yes	Yes
WITH_BUNDLED_LIBEVENT	5.7.33,		Some	Some			
	8.0.23						
WITH_BUNDLED_MEMCACHED	5.7.33,		Some	Some			
	8.0.23						
WITH_CLASSPATH			Yes	Yes	Yes	Yes	Yes
WITH_CLIENT_PROTOCOL_TRACING	5.7.2		Yes	Yes	Yes	Yes	Yes
WITH_CURL	5.7.19,		Some	Yes	Yes	Yes	Yes
	8.0.2						
WITH_DEBUG			Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_COMPILER_OPTIONS			Yes	Yes	Yes	Yes	Yes
WITH_DEFAULT_FEATURES	8.0.22		Yes	Some			
WITH_DEVENTITLEMENTS	8.0.30			Some	Yes	Yes	Yes
WITH_EDITLINE	5.7.2		Yes	Yes	Yes	Yes	Yes
WITH_EMBEDDED_SERVER			Yes				
WITH_EMBOSS_SHARED_LIBRARY	5.7.4		Yes				
WITH_ERROR_INSERT			Yes	Yes	Yes	Yes	Yes
WITH_EXTRA_CHARSETS			Yes				
WITH_FIDO	8.0.27			Some	Yes	Yes	Yes
WITH_GMOCK		8.0.26	Yes	Some			
WITH_ICU	8.0.4			Yes	Yes	Yes	Yes
WITH_INNODB_EXTRA_DEBUG	5.7.2		Yes	Yes	Yes	Yes	Yes
WITH_INNODB_MEMCACHED			Yes	Yes	Yes	Yes	
WITH_JEMALLOC	8.0.16			Some	Yes	Yes	Yes
WITH_KEYRINGTEST	5.7.11		Some	Yes	Yes	Yes	Yes
WITH_LD							Yes
WITH_LDAP	5.7.29		Some				
WITH_LIBEVENT			Yes	Yes	Yes	Yes	Yes
WITH_LIBWRAP			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
WITH_LOCK	8.0.17			Some	Yes	Yes	Yes
WITH_LSAN	8.0.16			Some	Yes	Yes	Yes
WITH_LTO	8.0.13			Some	Yes	Yes	Yes
WITH_LZ4	5.7.14		Some	Yes	Yes	Yes	Yes
WITH_LZMA	8.0.4	8.0.16		Some			
WITH_MECAB	5.7.6		Yes	Yes	Yes	Yes	Yes
WITH_MSAN	5.7.4		Yes	Yes	Yes	Yes	Yes
WITH_MSCRT	5.7.16	BUG	Yes	Yes	Yes	Yes	Yes
WITH_MYSQL	8.0.11			Yes	Yes	Yes	Yes
WITH_NDB	8.0.31			Some	Yes	Yes	Yes
WITH_NDBAPI_EXAMPLES			Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER			Yes	Yes	Yes	Yes	Yes
WITH_NDBCLUSTER_STORAGE_ENGINE			Yes	Yes	Yes	Yes	Yes
WITH_NDBMTD			Yes	Yes	Yes	Yes	Yes
WITH_NDB_BINLOG			Yes				
WITH_NDB_DEBUG			Yes	Yes	Yes	Yes	Yes
WITH_NDB_JAVA			Yes	Yes	Yes	Yes	Yes
WITH_NDB_PORT			Yes	Yes	Yes	Yes	Yes
WITH_NDB_TEST			Yes	Yes	Yes	Yes	Yes
WITH_NDB_TLS_SEARCH_PATH							Yes
WITH_NUMA	5.7.17		Some	Yes	Yes	Yes	Yes
WITH_PACKED	8.0.26	LAGS		Some	Yes	Yes	Yes
WITH_PLUGIN	8.0.13	NDBCLUSTER	8.0.31		Some		
WITH_PROTOCOL	5.7.12			Some	Yes	Yes	Yes
WITH_RAPID	5.7.12			Some	Yes	Yes	Yes
WITH_RAPID	8.0.13			Some	Yes	Yes	Yes
WITH_RE2	8.0.4	8.0.18		Some			
WITH_ROUTE	8.0.16			Some	Yes	Yes	Yes
WITH_SASL	5.7.29			Some			
WITH_SHOW_PARSE_TREE					Yes	Yes	Yes
WITH_SSL			Yes	Yes	Yes	Yes	Yes
WITH_SYSTEM	5.7.6		Yes	Yes	Yes	Yes	Yes
WITH_SYSTEM	8.0.22	DEBUG		Some	Yes	Yes	Yes
WITH_SYSTEM	8.0.11	BS		Yes	Yes	Yes	Yes
WITH_TCMAIL	8.0.22			Some	Yes	Yes	Yes
WITH_TEST	5.7.2	TRACE PLUGIN	Yes	Yes	Yes	Yes	Yes
WITH_TSAN				Yes	Yes	Yes	Yes
WITH_UBSAN	5.7.6		Yes	Yes	Yes	Yes	Yes
WITH_UNIT_TESTS			Yes	Yes	Yes	Yes	Yes
WITH_UNIXODBC			Yes	Yes	Yes	Yes	Yes
WITH_VALGRIND			Yes	Yes	Yes	Yes	Yes

Name	Introduced	Removed	5.7	8.0	8.1	8.2	8.3
WITH_WIN_BELOWLOC	8.0.29			Some	Yes	Yes	Yes
WITH_ZLIB			Yes	Yes	Yes	Yes	Yes
WITH_ZSTD	8.0.18			Some	Yes	Yes	Yes
WITH_xxx_STORAGE_ENGINE		Yes	Yes	Yes	Yes	Yes	Yes