This document contains release notes for the changes in each release of MySQL Connector/Node.js.

For additional Connector/Node.js documentation, see [http://dev.mysql.com/](http://dev.mysql.com/).

Updates to these notes occur as new product features are added, so that everybody can follow the development process. If a recent version is listed here that you cannot find on the download page ([https://dev.mysql.com/downloads/](https://dev.mysql.com/downloads/)), the version has not yet been released.

The documentation included in source and binary distributions may not be fully up to date with respect to release note entries because integration of the documentation occurs at release build time. For the most up-to-date release notes, please refer to the online documentation instead.

For legal information, see the [Legal Notices](#).

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

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### Preface and Legal Notices

This document contains release notes for the changes in each release of MySQL Connector/Node.js.

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Changes in MySQL Connector/Node.js 8.0

Changes in MySQL Connector/Node.js 8.0.20 (Not yet released)

Version 8.0.20 has no release notes, or they have not been published because the product version has not been released.

Changes in MySQL Connector/Node.js 8.0.19 (2020-01-13, General Availability)

- Functionality Added or Changed
- Bugs Fixed

Functionality Added or Changed

- Added DNS SRV support.

Using the mysqlx+srv scheme+extension in a connection string (or enabling the resolveSrv option in a connection configuration object) allows to automatically resolve any SRV record available in a target DNS server or service discovery endpoint.

Bugs Fixed

- Improved the CRUD API error messages. (Bug #30423556)
- The getAffectedItemsCount() method did not function on result sets in v8.0.18. (Bug #30401962)
- The Collection.existsInDatabase() method did not function. (Bug #30401432)

Changes in MySQL Connector/Node.js 8.0.18 (2019-10-14, General Availability)

- Functionality Added or Changed
- Bugs Fixed

Functionality Added or Changed

- Implemented the X DevAPI cursor model, which includes adding methods such as fetchOne(), fetchAll(), getColumns(), hasData(), and nextResult(). For additional details, see the X DevAPI documentation about Working with Result Sets.

Previously, handling result set data or metadata required specific callback functions when calling execute(). With this new interface, the connector automatically switches to this new pull-based cursor model if these callback functions are not provided.
• Improved Collection.getOne() performance by making the underlying lookup expression to only parse once, and having subsequent Collection.getOne() calls utilize server-side prepared statements.

• Added support to generate test coverage reports by running the likes of `npm run coverage`; see the bundled CONTRIBUTING.md for details and requirements. This was added to help users contribute patches.

• Added linter check support to help enforce coding style and convention rules for new contributions by running the likes of `npm run linter`; see the bundled CONTRIBUTING.md for details.

Bugs Fixed

• Added support for assigning Node.js Buffer values to expression or SQL query placeholders. (Bug #30163003, Bug #96480)

• MySQL column binary values (such as BLOB, BINARY, and VARBINARY) can now convert to proper Node.js Buffer instances. (Bug #30162858, Bug #96478)

• Inserting a raw Node.js Buffer value into MySQL BLOB field resulted in an error as the content_type was improperly set; it's now handled as a raw byte string by the X Plugin. (Bug #30158425)

• The padding characters used for fixed-lengthed columns now map to the collation code provided by the column metadata; previously it was based on the JavaScript native type of the values. (Bug #30030159)

Changes in MySQL Connector/Node.js 8.0.17 (2019-07-22, General Availability)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• Document fields containing arrays can now be indexed by setting array to true in an index fields definition.

• Added support for the OVERLAPS and NOT OVERLAPS operators; which is equivalent to the SQL JSON_OVERLAPS() function.

  These binary operators are used with a general "expression operator expression" syntax; and the expressions return a JSON array or object. Example usage: `[1, 2, 3] overlaps $.list

• Added support for the utf8mb4_0900_bin collation added in MySQL Server 8.0.17.

• The bundled README.md file was split and reformatted with some content moved into the new README.txt and CONTRIBUTING.md files.

Bugs Fixed

• The SQL CAST function did not work as a valid lookup expression. (Bug #29807792)

• Added backtick support for table column identifiers in valid expressions. (Bug #29789818)

• The DIV binary and NOT unary operators are now allowed; and are case-insensitive. (Bug #29771833, Bug #29771027)

• Collection.find() now supports the JavaScript Date type. (Bug #29766014)

• The collection.dropIndex method now silently fails if the index does not exist, as expected, when before it generated a “Can't DROP” error. (Bug #29765589)
• *Column.getCollationName()* would potentially return the incorrect name. (Bug #29704185)

Changes in MySQL Connector/Node.js 8.0.16 (2019-04-25, General Availability)

• X DevAPI Notes

• Functionality Added or Changed

• Bugs Fixed

X DevAPI Notes

• Connector/Node.js now supports connection attributes as key-value pairs that application programs can pass to the server. Connector/Node.js defines a default set of attributes, which can be disabled or enabled. In addition to these default attributes, applications can also provide their own set of custom attributes.

• Specify connection attributes as a `connection-attributes` parameter in a connection string, or by using the `connectionAttributes` property using either a plain JavaScript object or JSON notation to specify the connection configuration options.

  The `connection-attributes` parameter value must be either empty (the same as specifying `true`), a `Boolean` value (`true` or `false` to enable or disable the default attribute set), or a list of zero or more `key=value` pair specifiers separated by commas (to be sent in addition to the default attribute set). Within a list, a missing key value evaluates as NULL.

  The `connectionAttributes` property allows passing user-defined attributes to the application using either a plain JavaScript object or JSON notation to specify the connection configuration options. Define each attribute in a nested object under `connectionAttributes` where the property names matches the attribute names, and the property values match the attribute values. Unlike `connection-attributes`, and while using plain JavaScript objects or JSON notation, if the `connectionAttributes` object contains duplicate keys then no error is thrown and the last value specified for a duplicate object key is chosen as the effective attribute value.

Examples:

Not sending the default client-defined attributes:

```javascript
mysqlx.getSession({ "user": "root", "connectionAttributes": false })
```

```javascript
mysqlx.getSession('mysqlx://root@localhost?connection-attributes=false')
```

```javascript
mysqlx.getSession({ user: 'root', connectionAttributes: { foo: 'bar', baz: 'qux', quux: '' } })
```

```javascript
mysqlx.getSession('mysqlx://root@localhost?connection-attributes=[foo=bar,baz=qux,quux]')
```

Application-defined attribute names cannot begin with `_` because such names are reserved for internal attributes.

If connection attributes are not specified in a valid way, an error occurs and the connection attempt fails.

For general information about connection attributes, see Performance Schema Connection Attribute Tables.

Functionality Added or Changed

• Optimized the reuse of existing connections through `client.getSession()` by only re-authenticating if required.

• For X DevAPI, performance for statements that are executed repeatedly (two or more times) is improved by using server-side prepared statements for the second and subsequent executions.
This happens internally; applications need take no action and API behavior should be the same as previously. For statements that change, repreparation occurs as needed. Providing different data values or different `offset()` or `limit()` values does not count as a change. Instead, the new values are passed to a new invocation of the previously prepared statement.

**Bugs Fixed**

- Idle pooled connections to MySQL Server were not reused, and instead new connections had to be recreated. (Bug #29436892)
- Executing `client.close()` would not close all associated connections in the connection pool. (Bug #29428477)
- `connectTimeout` instead of `maxIdleTime` determined whether idle connections in the connection pool were reused rather than creating new connections. (Bug #29427271)
- Released connections from the connection pool were not being reset and reused; instead new connections were being made. (Bug #29392088)
- Date values in documents were converted to empty objects when inserted into a collection. (Bug #29179767, Bug #93839)
- A `queueTimeout` value other than 0 (infinite) prevented the acquisition of old released connections from the connection pool. (Bug #29179372, Bug #93841)

**Changes in MySQL Connector/Node.js 8.0.15 (2019-02-01, General Availability)**

This release contains no functional changes and is published to align version number with the MySQL Server 8.0.15 release.

**Changes in MySQL Connector/Node.js 8.0.14 (2019-01-21, General Availability)**

- **Functionality Added or Changed**
- **Bugs Fixed**

**Functionality Added or Changed**

- Removed deprecation notices from the `count()` methods.
- Setting the default schema via the connection now sets the default schema on the server; meaning, subsequent queries executed using `session.sql()` do not need to specify the schema.

**Bugs Fixed**

- Setting the default schema with the connection URI using a schema name that contained special characters (that would need to be percent-encoded) would result in the percent-encoded name being used instead of the original one (e.g. "%25%26%5E%5E_" instead of "&^*_"). (Bug #28990682)
- An error is once again thrown if `sslOption`'s 'ca' is different than the certificate authority used to sign the server certificate, or if the server certificate has been revoked. (Bug #28977649)
- Attempting to use false-like values such as 0, false, null, and undefined would emit errors when updating or inserting documents in a collection or rows in a table. Additionally, new boolean values become numeric values (true=1, false=0) while null and undefined are converted to MySQL's NULL type. (Bug #28970727, Bug #93315)
- `Collection.existsInDatabase()` always returned true if any other collection existed in the database. (Bug #28745240)
• Configuring a default schema from the connection string would create the schema if it did not exist. Now, an "Unknown database" error is thrown instead.

• An unexpected notice could result in an unexpected halt of the client.

Changes in MySQL Connector/Node.js 8.0.13 (2018-10-22, General Availability)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• To go with the existing asynchronous `mysqlx.getSession(conn_str)` method, a new synchronous `mysqlx.getClient(conn_str, options)` method was added that creates a connection pool handler that provides an asynchronous `getSession()` method to create and retrieve connections from the pool. The collection pooling options are:

  • **enabled**: enables or disables connection pooling; boolean and defaults to true.

  • **maxSize**: maximum number of connections available in the pool; positive integer and defaults to 25.

  • **maxIdleTime**: maximum number of milliseconds a connection can be idle in the queue before being closed; integer >= 0 and defaults to 0 (infinite).

  • **queueTimeout**: maximum number of milliseconds a request will wait for a connection to become available; integer >= 0 and defaults to 0 (infinite).

  This is different than `connectTimeout` that's used for non-pooling. In a pooling scenario, there might already be connections in the pool and `queueTimeout` controls how long to wait for a connection in the pool.

  Example usage:

  ```javascript
  var mysqlx = require('@mysql/xdevapi')
  var client = mysqlx.getClient({
    user: 'root', host: 'localhost', port: 33060,
    pooling: { enabled: true, maxIdleTime: 5000, maxSize: 25, queueTimeout: 20000 }
  });
  client.getSession()
    .then(session => {
      console.log(session.inspect())
      return session.close() // the connection becomes idle in the client pool
    })
    .then(() => {
      return client.getSession()
    })
    .then(session => {
      console.log(session.inspect())
      return client.close() // closes all connections and destroys the pool
    })
  ```

  Closing a session attached to the pool makes the connection available in the pool for subsequent `getSession()` calls, while closing (destroying) the pool effectively closes all server connections.

• Added a connection timeout query parameter. This defines the length of time (milliseconds) the client waits for a MySQL server to become available in the given network addresses. It was added to both the `mysqlx.getSession()` (non-pooling sessions) and `mysqlx.getClient()` (pooling sessions) interfaces. This option defaults to 10000 (10 seconds). The value 0 disables the timeout so the client will wait until the underlying socket (platform dependent) times out.
Similar to other option formatting rules, this option defined as connection-timeout (kabab-style) for URI definitions and connectionTimeout (camelCase) for plain JavaScript configuration objects.

Example usage:

```javascript
const mysqlx = require('@mysql/xdevapi');
var client = mysqlx.getClient('root@localhost?connect-timeout=5000')
  .getSession()
  .catch(err => {
    console.log(err.message) // "Connection attempt to the server was aborted. Timeout of 5000 ms was exceeded."
  })
// Or
const mysqlx = require('@mysql/xdevapi');
var client = mysqlx.getClient('mysqlx://root:passwd@[localhost:33060, 127.0.0.1:33060]?connect-timeout=5000')
  .getSession()
  .catch(err => {
    // connection could not be established after 10 seconds (5 seconds for each server)
    console.log(err.message); // All server connection attempts were aborted. Timeout of 5000 ms was exceeded.
  });
```

In a multi-host scenario, the connection-timeout value applies to each individual host.

**Bugs Fixed**

- Improved the handling of X Protocol global notices by properly logging and then ignoring non-fatal errors, and making the connection unusable for subsequent operations in the case of a fatal error. (Bug #28653781)

- Calling getCollationName() on non-textual fields, such as INT, threw the following error "TypeError: Cannot read property 'collation' of undefined". (Bug #28608923)

- The fields() method did not function with valid expressions generated by the expr() method. (Bug #28409639)

- The returned Session.inspect() object now includes the 'user' property in addition to the 'dbUser' property but containing the same value. (Bug #28362115)

**Changes in MySQL Connector/Node.js 8.0.12 (2018-07-27, General Availability)**

- X DevAPI Notes
- Bugs Fixed

**X DevAPI Notes**

- To increase compliance with the X DevAPI, these Connector/Node.js changes were made:
  - **Collection**: Deprecated: count(). Changed: getSchema() now returns a Schema instance instead of the schema name.
  - **CollectionModify**: Deprecated: limit(x, y)’s second parameter, and arrayDelete().
  - **CollectionFind**: Deprecated: limit(x, y)’s second parameter. Added: limit(x).offset(y).
  - **CollectionRemove**: Deprecated: limit(x, y)’s second parameter.
  - **Table**: Deprecated: count() and insert (Document) API. Updated: getSchema() now returns a Schema instance instead of the Schema name. Removed: as().
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- **TableSelect**: Deprecated: `limit(x, y)`'s second parameter. Added: `limit(x).offset(y)`.
- **TableDelete**: Deprecated: `limit(x, y)`'s second parameter, and `delete(x)`'s parameter in favor of using `where(x)` instead.
- **TableUpdate**: Deprecated: `limit(x, y)`'s second parameter, and `update(x)`'s parameter in favor of using `where(x)` instead.
- **SqlExecute**: Deprecated: `sqlExecute()` in favor of `sql()`. Added: `bind()`.
- **Column**: Added `isNumberSigned()`, `getCollationName()`, `getCharacterSetName()`, and `isPadded()`.

**Bugs Fixed**

- The Promise returned by the `session.sql().execute()` method resolved to a plain JavaScript object rather than a proper Result instance. This meant it lacked access to the API with methods such as `getAffectedItemsCount()` and `getWarnings()`. (Bug #28146988)
- Retrieving rows with NULL fields would emit an unexpected AssertionError. (Bug #27978594)
- The `session.close()` method is now asynchronous by returning a JavaScript Promise, when before it returned immediately. (Bug #27893001)
- The right-padding mechanism was improved. (Bug #27839295, Bug #28275595, Bug #91503)
- While calling `getSession()` without arguments yields an "Invalid parameter." error, passing in '{}` yielded a "Cannot read property 'length' of undefined." error. Now `{}` is allowed, and `getSession()` defaults to using " as the user name. (Bug #27730748)
- Improved performance for expression parsing and protocol message encoding.

**Changes in MySQL Connector/Node.js 8.0.11 (2018-04-19, General Availability)**

- **Functionality Added or Changed**
- **Bugs Fixed**

**Functionality Added or Changed**

- The protobuf.js library was replaced with the official google-protobuf npm package.
- Added `NOWAIT` and `SKIP_LOCKED` support to the `lockShared()` and `lockExclusive()` methods. Example usage: `lockShared(mysqlx.LockContention.SKIP_LOCKED)`.
- Added the X DevAPI SHA256_MEMORY authentication mechanism.
- Auto-generated document `_id` values generated by the MySQL server, introduced in MySQL Server 8.0.11, are now supported.

**Bugs Fixed**

- Running a select query against a table containing BIGINT values and using those values as filtering criteria could fail to function. This was because those values were converted to JavaScript numbers when encoding the protobuf message, and lost precision since the maximum safe integer in JavaScript is $2^{53} - 1$. (Bug #27570761)
- Row values from columns using the `FLOAT` type were not rounded according to the maximum number of displayable decimal digits defined by the schema. For example, a column with type
FLOAT(3,2) containing a value of 1.23456789 would display as 1.2300000190734863 instead of the expected 1.23. (Bug #27570541)

- Row values from columns using the BIT data type were decoded as their sign integer counterpart instead of unsigned values. For example, b'111' was decoded as -4 instead of 7. (Bug #27570462)

- Row values for columns of any type of UNSIGNED integer (TINYINT, SMALLINT, MEDIUMINT, INT or BIGINT) were being interpreted by the connector as their SIGNED integer value counterpart. (Bug #27570342)

- The sort() method was added to the following operations: CollectionFind, CollectionRemove, and CollectionModify. (Bug #27429922)

- While adding a document, the expression parser was rejecting valid escaped literally strings that constituted properties of the document, and it threw unexpected errors. (Bug #27429852)

- Messages split into multiple fragments (either because they exceeded the MTU or the maximum size of V8 buffers) were improperly reconstructed and could not be decoded. This behavior would throw an error similar to "Uncaught SyntaxError: Unexpected token". (Bug #27429429)

- Several methods returned plain JavaScript objects that now return iterable arrays. 
  `Schema.getCollections()` now returns an array of Collection instances, 
  `Schema.getTable()` now returns an array of Table instances, and `Session.getSchemas()` now returns an array of Schema instances. (Bug #27294362, Bug #27221114)

- The expression parser was executed every time a document was added but now requires `mysqlx.expr()` to be explicitly called. For example, before `collection.add({ name: 'foo' })` would parse the "name" property. Now, to parse it, use `collection.add({ name: mysqlx.expr('"foo"') })`. (Bug #27177864)

### Changes in MySQL Connector/Node.js 8.0.10 (Skipped version number)

There are no release notes for this skipped version number.

### Changes in MySQL Connector/Node.js 8.0.9 (2018-01-30, Release Candidate)

- Functionality Added or Changed
- Bugs Fixed

#### Functionality Added or Changed

- Improved the UUID generation algorithm to implement the design improvements suggested in RFC 4122. Before the chance of duplicated values during a small time frame was too high. (Bug #26120588)

- X DevAPI: In the process of refining the definition of the X DevAPI to cover the most relevant usage scenarios, the following API components have been removed from the X DevAPI implementation for Connector/Node.js:
  - API components that support session configurations, such as the `SessionConfig` and `SessionConfigManager` classes.
  - The `mysqlx.config` namespace and all methods of the namespace, `save()`, `get()`, `list()`, `delete()`, and more.
  - The `createTable()`, `foreignKey()`, `dropTable()`, `createView()`, `dropView()`, and `alterView()` methods from the `Schema` class.

- The following methods were added:
• `Session.setSavePoint` accepts a name or generates one of the form `connector-nodejs-{uuid}`, and returns a Promise.

• `Session.releaseSavePoint` releases a specific savepoint.

• `Session.rollbackTo` rollbacks to a specified savepoint.

• The `createIndex()` method was added to the Collection API.

**Bugs Fixed**

• The expression parser used by the CRUD API was replaced with a new implementation written in pure JavaScript. This fixes several grammar related bugs. (Bug #26729768, Bug #26636956, Bug #25036336, Bug #23148246)

• The `CollectionFind.fields()` method was updated to support flexible parameters to follow standard X DevAPI conventions. (Bug #22084545)

**Changes in MySQL Connector/Node.js 8.0.8 (2017-09-28, Development Milestone)**

• **Functionality Added or Changed**

• **Bugs Fixed**

**Functionality Added or Changed**

• The following Collection methods were added: `replaceOne()`, `addOrReplaceOne()`, `getOne()`, `removeOne()`. For details, see Tutorial: Working with Documents.

• Added row locking support by adding the `lockExclusive()` and `lockShared()` methods to the `CollectionFind` and `TableSelect` classes. For additional information, see Tutorial: Row Locking.

• Extended Authentication support, including SHA-256. For additional information, see Tutorial: Secure Sessions.

• Added "contains" operator support for objects and arrays. This allows additional types of expressions such as `IN [x, y, z]` and `IN { "x": "foo", "y": "bar" }`, and also referencing field names that map to arrays and objects, such as `someArray IN $.field` and `someObject IN $.field`.

**Bugs Fixed**

• Added support for the parentheses-based `IN` syntax, such as `IN (x, y, z, ...)`, as defined in the X DevAPI. (Bug #26666817)

**Changes in MySQL Connector/Node.js 8.0.7 (2017-07-10, Development Milestone)**

MySQL Connectors and other MySQL client tools and applications now synchronize the first digit of their version number with the (highest) MySQL server version they support. This change makes it easy and intuitive to decide which client version to use for which server version.

Connector/Node.js 8.0.7 is the first release to use the new numbering. It is the successor to Connector/Node.js 1.0.6.

• **Functionality Added or Changed**

• **Bugs Fixed**
**Functionality Added or Changed**

- It is no longer permitted to pass an empty search condition, such as the NULL value or an empty string, to the `Collection.modify()` and `Collection.remove()` methods.

- A number of changes have been implemented for the “drop” methods:
  
  - The “drop” methods are now made available at the same level as the corresponding “create” methods. For example, the `dropCollection()` and `dropTable()` methods have been removed from the `XSession` class (which has now been consolidated into the `Session` class) and moved under the `Schema` class; under the same principle, the `drop()` method has been removed from the `Collection` and `Table` classes.
  
  - The “drop” methods now succeed even if the objects to be dropped do not exist.
  
  - `dropView()` is now asynchronous and behaves exactly like `dropTable()` and `dropCollection()` by implicitly executing the operation and returning a promise that will hold the result of the drop operation.
  
  - A configuration handler interface, `mysqlx.config`, has been created for managing persisted session configurations. See MySQL Connector/Node.js with X DevAPI for details.

- There are a few changes with regard to encrypted connections to MySQL servers:
  
  - Connections are now encrypted by default.
  
  - The connection option `ssl-enable` has been replaced by the `ssl-mode` option, which has `DISABLED`, `REQUIRED` (default), and `VERIFY_CA` as its permitted values.
  
  - Using the `ssl-crl` option requires the use of the `ssl-ca` option and that `ssl-mode=VERIFY_CA`; this is due to an internal requirement of the Node.js core platform.

  - Consolidated the `BaseSession`, `NodeSession`, and `XSession` into a single `Session` class. The following related changes were also made:

    - The `mysqlx.getNodeSession()` method is renamed to `getSession` and returns a `Session` object.

    - The `DatabaseObject.getSession()` now returns a `Session` object.

  - A new client-side failover feature has been implemented: when creating a new connection, multiple hosts now can be specified in the connection string, and Connector/Node.js tries each host until a successful connection is established or until all hosts have been tried. See Tutorial: Getting Started for details.

  - Connector/Node.js now supports connecting to a local server using Unix sockets. See Tutorial: Getting Started for details.

  - The format of the document ID value generated when adding a document to a collection has changed. It is still a string of 32 hexadecimal digits based on a UUID, but the order of digits has been changed to match the requirement of a stable ID prefix.

**Bugs Fixed**

- It was not possible to create a new session for a user with a SHA256 password via the PLAIN authentication mechanism. (Bug #26117627)

- The handling of large JSON arrays was problematic, and would cause an exception to be thrown. (Bug #26084604)

- Attempting to use `bind` when removing a document from a collection would not succeed, and an exception would be thrown. (Bug #26029551)
• The `Table.update()` implementation did not require a `SearchConditionStr` parameter, and not using this parameter could result in updating all the rows of a given table. A client-side exception is now thrown if the `SearchConditionStr` parameter is undefined or empty. (Bug #25993174)

• The `Table.delete()` implementation did not require a `SearchConditionStr` parameter, and not using this parameter could result in deleting all the rows of a given table. A client-side exception is now thrown if the `SearchConditionStr` parameter is undefined or empty. (Bug #25992969)

Changes in MySQL Connector/Node.js 1.0

Changes in MySQL Connector/Node.js 1.0.6 (2017-03-07, Development Milestone)

- Functionality Added or Changed
- Bugs Fixed

Functionality Added or Changed

- Added support for validating the server certificate with a given CA and/or CRL.
- Expanded support for creating TLS sessions with a URI or connection string.
- Added support for creating IPv6 sessions with a URI or connection string.
- Added support for single array or multiple argument function calls on the public API.

Bugs Fixed

- Fixed issues with `collection.bind()`.(Bug #23236379)
- Expanded support to create sessions based on unified connection strings. This also fixed parsing issues on URI and connection string corner-cases.
- Updated behavior of `collection.add([])` to avoid confusing exceptions.

Providing an empty array as an argument should always succeed, even without an active connection to the server.

Changes in MySQL Connector/Node.js 1.0.5 (2016-11-14, Development Milestone)

Functionality Added or Changed

- Added APIs for Transaction handling, which includes the `session.startTransaction()`, `session.commit()` and `session.rollback()` functions.
- Added a Table creation API.

Changes in MySQL Connector/Node.js 1.0.4 (2016-10-10, Development Milestone)

- Functionality Added or Changed
- Bugs Fixed

Functionality Added or Changed

- Changed package name from `mysql` to `@mysql/xdevapi`. 
MySQL Connector/Node.js Release Notes

- The connector can be installed into your project using Node.js's npm tool. Install from the download file by issuing:
  
  ```bash
  npm install mysql-connector-nodejs-1.0.4.tar.gz
  ```

  Or install directly from the npm repository by issuing:

  ```bash
  npm install @mysql/xdevapi
  ```

  For more information on npm see http://npmjs.com.

**Bugs Fixed**

- The Connector/Node.JS version number can now be retrieved from the API. For example, "ver=\require(\'@mysql/mysqlx/package\').version;". (Bug #24571220)
- Added the `Schema.getCollectionAsTable()` method.
- Added the `Collection.count()` and `Table.count()` methods.
- Added support for the URI type string format for connections.
- Added View DDL support.

**Changes in MySQL Connector/Node.js 1.0.3 (2016-06-21, Development Milestone)**

**Bugs Fixed**

- Connector/Node.JS was unable to create a session when SSL was enabled. (Bug #23118665)

**Changes in MySQL Connector/Node.js 1.0.2 (2016-04-11, Development Milestone)**

MySQL Connector/Node.js is a new Node.js driver for use with the X DevAPI. This release, v1.0.2 M1, is the first development release of the MySQL Connector/Node.js 1.0 series.

The X DevAPI enables application developers to write code that combines the strengths of the relational and document models using a modern, NoSQL-like syntax that does not assume previous experience writing traditional SQL.

To learn more about how to write applications using the X DevAPI, see X DevAPI User Guide. For more information about how X DevAPI is implemented in MySQL Connector/Node.js, and its usage, see https://dev.mysql.com/doc/dev/connector-nodejs/.

Please note that the X DevAPI requires at least MySQL Server version 5.7.12 or higher with the X Plugin enabled. For general documentation about how to get started using MySQL as a document database, see Using MySQL as a Document Store.

**Functionality Added or Changed**

- Internal bug fixes, and released as the first developmental milestone preview release.

**Changes in MySQL Connector/Node.js 1.0.1 (Not released, Internal)**

Version 1.0.1 has no release notes, or they have not been published because the product version has not been released.

**Changes in MySQL Connector/Node.js 1.0.0 (Not released, Internal)**

Version 1.0.0 has no release notes, or they have not been published because the product version has not been released.