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# MySQL Shell 9.5 Release Notes

## Abstract

This document contains release notes for the changes in MySQL Shell 9.5.

For additional MySQL Shell documentation, see <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/>), 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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## Changes in MySQL Shell 9.5.0 (2025-10-21, Innovation Release)



### Note

These release notes were created with the assistance of MySQL HeatWave GenAI.

- [Utilities Added or Changed Functionality](#)
- [Utilities Bugs Fixed](#)
- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## Utilities Added or Changed Functionality

- Upgrade check names are now grouped by categories: `schema`, `routine`, `accounts`, and `config`. (Bug #38274934)
- MySQL Shell dump utilities now support the CSV dialect, conforming to RFC4180, `'csv-rfc-unix'`.
  - `fieldsTerminatedBy: ,`
  - `fieldsEnclosedBy: "`
  - `fieldsOptionallyEnclosed: true`
  - `fieldsEscapedBy: not set`
  - `linesTerminatedBy: <LF>`(Bug #38245434)
- Added the `convert_invalid_accounts` compatibility option to the dump utilities. This option converts accounts with unsupported authentication plugins to `caching_sha2_password` and locks the account. (Bug #38237729)

## Utilities Bugs Fixed

- MySQL Shell could close unexpectedly when running the upgrade checker utility on a MySQL Server 5.7. The error occurred on the `invalidEngineForeignKey` upgrade check if a table name contained non-letter characters such as hyphens. (Bug #38442101)

- When resuming an interrupted load, duplicate entries could be present in the progress file, affecting byte skipping in subsequent resumes. (Bug #38408207)
- When using anonymous arguments with the `-- util copyTables` command, the error message did not clearly indicate the correct usage of the options. Running the command without options now displays a clear syntax message to help avoid ambiguity. (Bug #38377905)
- When dumping with `ocimds: true`, schemas and tables with `ENCRYPTION` disabled were updated and reported as modified, creating logging noise, even though MySQL HeatWave Service disallows enabling the statement and does not generate errors if the `CREATE` statement explicitly disables it.

`CREATE SCHEMA` or `TABLE` statements with disabled `ENCRYPTION` option are no longer modified or reported.

Also, roles which already exist in MySQL HeatWave Service are no longer reported as warnings. (Bug #38264847)

- Using the `loadDump()` utility with the `dropExistingObjects` option enabled resulted in an error during data loading if a loading schema did not exist. Errors were returned similar to the following:

```
ERROR: Error executing SQL statement for schema `schemaName`:  
Unknown database 'schemaName'
```

(Bug #38249362)

- If a table had both a unique and a non-unique key on the same referenced column, the upgrade checker utility's foreign key check could raise a false positive error. (Bug #38194922)
- Dumping from a database other than MySQL, with binary logging enabled, could fail when `SHOW MASTER STATUS` was executed, due to the absence of an expected fifth column, `Executed_Gtid_Set`. Errors similar to the following were returned:

```
get_string(4): index out of bounds (ArgumentError)
```

As of this release, MySQL Shell accesses this column only if it is available. (Bug #38144597)

- The `copyInstance()` utility failed when copying from server version 9.3.0 with MySQL Shell 9.3.1. Error similar to the following was returned:

```
Requested MySQL version '9.3.1' is newer than the maximum version  
'9.3.0' supported by this version of MySQL Shell (ArgumentError)
```

(Bug #38107377)

- Loading a dump using the collation `utf8mb4_uca1400_ai_ci` to MySQL failed with `Unknown collation: 'utf8mb4_uca1400_ai_ci'`. `utf8mb4_uca1400_ai_ci` is not available in MySQL.

As of this release, the dump utilities detect unsupported collations and replace them with the nearest compatible collation available in MySQL. A warning is displayed for each collation replaced. (Bug #38089433)

- Loading a dump with the schema option and checksum verification enabled failed with a logic error. Errors were returned similar to the following:

```
Unable to find schema test whose existence is being checked  
(LogicError)
```

(Bug #38034277)

- If loading a dump failed, due to duplicate database objects, a second attempt would succeed even though it should have failed for the same reason. This was caused by the presence of a progress file, which the second attempt saw as evidence the load was valid.

As of this release, the progress file is not created until just before loading begins. (Bug #37326937)

## Functionality Added or Changed

- Shell plugins now support standard shell print formatting, enabling consistent output for information such as errors or warnings through the `shell.print()` function. (Bug #38397677)

## Bugs Fixed

- It is no longer possible to override the language used in `\source` commands unless they are run interactively. (Bug #38182270)
- It was not possible to establish a connection to MySQL 5.6 or older. The connection required session tracker support, which is not available on these servers. Errors were returned similar to the following:

```
Session tracker not supported by server
```

(Bug #38144635)

- Boolean command line options were not handled consistently. (Bug #38062258)
- Tab-completion did not complete filenames for the `\source` command. (Bug #37345664)
- The `--show-warnings` option returned an error that it required an argument:

```
option --show-warnings requires an argument
```

(Bug #34878119)

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