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.

Document generated on: 2025-12-10 (revision: 30746)

Table of Contents

Preface and Legal Notices 1
Changes in MySQL Shell 9.5.0 (2025-10-21, Innovation Release) 3

Preface and Legal Notices

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

Legal Notices

Copyright © 1997, 2025, Oracle and/or its affiliates.

License Restrictions

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

Warranty Disclaimer

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

Restricted Rights Notice

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed

by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

Hazardous Applications Notice

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Trademark Notice

Oracle, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

Third-Party Content, Products, and Services Disclaimer

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Use of This Documentation

This documentation is NOT distributed under a GPL license. Use of this documentation is subject to the following terms:

You may create a printed copy of this documentation solely for your own personal use. Conversion to other formats is allowed as long as the actual content is not altered or edited in any way. You shall not publish or distribute this documentation in any form or on any media, except if you distribute the documentation in a manner similar to how Oracle disseminates it (that is, electronically for download on a Web site with the software) or on a CD-ROM or similar medium, provided however that the documentation is disseminated together with the software on the same medium. Any other use, such as any dissemination of printed copies or use of this documentation, in whole or in part, in another publication, requires the prior written consent from an authorized representative of Oracle. Oracle and/or its affiliates reserve any and all rights to this documentation not expressly granted above.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at
http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support for Accessibility

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs` if you are hearing impaired.

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)