

Release Notes

Cloudera JDBC Driver for Impala 2.5.42

Released 2018-01-05

These release notes provide details of enhancements, features, and known issues in Cloudera JDBC Driver for Impala 2.5.42, as well as the version history.

Resolved Issues

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.5.42.

- [00098137] AllowSelfSignedCerts does not disable SSL.
This issue has been resolved. Now, when the AllowSelfSignedCerts property is set to 1, SSL verification is disabled. The driver does not verify the server certificate against the trust store, and does not verify if the server's host name matches the CN or Subject Alternative Names in the server certificate.
- [00091331] System does not display message for authentication failure.
- [00097925] The com.cloudera.commons.codec.binary.Base64 class does not resolve to the correct dependency.
- [00092407] If a connection fails due to there being no information available from the server, a generic system message is shown: "Error setting/closing session: null".
This been resolved, the driver now shows the appropriate connection error message in this scenario.

Version 2.5.41

Released 2017-09-12

Resolved Issues

The following issues have been resolved in Cloudera JDBC Driver for Impala 2.5.41.

- In some cases, the driver throws a “Metadata Result Set Error” when executing COMPUTE INCREMENTAL STATS statement consecutively.

Version 2.5.40

Released 2017-08-24

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.40.

- A Statement or PreparedStatement cannot be reused once a query has been cancelled.

Version 2.5.39

Released 2017-08-11

Enhancements & New Features

Supported Impala Versions

The driver now supports Impala 2.8 and 2.9.

[00094067] Improved System Messaging

When a COMPUTE STATS statement fails to execute, the system messaging will more clearly identify the issue.

[00094993] Improved Query Translation Support

Query translation support for DAYOFWEEK scalar function and Impala's built-in functions has been added.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.39.

- [00095260] The driver may fail to cancel a query properly.
- The driver may not verify self-signed server certificates.
- [00094671] The getColumnns() API call will fail when used with reserved keyword identifiers.
- [00094902] The driver does not fall back to retrieving user Kerberos credentials from the credentials cache if JAAS is not used for Kerberos authentication. Version History.

Version 2.5.38

Released 2017-05-31

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.42.

- [00093137] Driver incorrectly passes SSLTrustStore configuration to the server as a server-side property.
- [00092811] Translation fails due to the driver treating coercion between STRING and BIGINT columns as an invalid operation.
- [00092442] When certain fetch sizes are set for the result set, the driver incorrectly returns an error while executing a query.

Version 2.5.37

Released 2017-03-08

Enhancements & New Features

Specify asynchronous exec poll interval

You can now specify the time in milliseconds between each poll that the driver makes for the query execution status. Specify the number of milliseconds in the Advanced Options dialog box in the Async Exec Poll Interval field, or in the AsyncExecPollInterval configuration option.

Support for Impala 2.8

The driver now supports Impala versions 1.0.1 through 2.0.8.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.37.

- [91991] Update/Delete statements require a semicolon at the end.
- [92354] Can't delete rows by specifying the primary key of the row.
- [92116] Conflicting information in documentation regarding CDH.

Version 2.5.36

Released 2016-12-15

Enhancements & New Features

[89380] Kerberos constrained delegation

The driver now supports Kerberos constrained delegation.

[90277] Kerberos authentication type

Users can now configure the driver to use either JAAS or ticket cache authentication, or set the driver to automatically detect which method the data source is using and authenticate accordingly.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.36.

- [90179] A select * query on a table with certain column types causes a system message from the data source server.

Version 2.5.35

Released 2016-11-03

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.35.

- The driver does not properly detect a TOP statement and inserts a TOP 0 before it to generate the limit 0 query. This happens if there is an additional space in the query before the original TOP.
- Queries with YEAR and ISO_WEEK functions failing due to a data type mismatch.

Version 2.5.34

Released 2016-09-23

Enhancements & New Features

Authentication method and transport protocol

You can now specify if SASL should be used in conjunction with the 'User Name and Password' Authentication Mechanism (`AuthMech=3`) by using the `UseSasl` connection property. Previously this was done through the `transportMode` connection property, which has now been removed.

Version 2.5.33

Released 2016-09-09

Enhancements & New Features

Support added for parameterized INSERT statements in native queries

The driver is now able to execute parameterized INSERT statements when the `UseNativeQuery` property is set to 1. Previously, parameterized INSERT statements were only supported when the `UseNativeQuery` property is set to 0.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.33.

- [13555, 13635] In some cases, when executing queries through a connection that is shared between multiple threads, the driver stops responding or returns an “out of sequence response” exception.
- [13763] When the `UseNativeQuery` property is set to 0, the driver does not allow concurrent queries.

- [13516] The driver returns an error if the query results include `TIMESTAMP` data that only contains a time value.

This issue has been resolved. You can now use the new `SupportTimeOnlyTimestamp` property to enable support for `TIMESTAMP` data that only contains a time value.

- [13413] The driver returns an error if the query statement contains a table name with a 3-part qualifier.

This issue has been resolved. You can now use the new the `StripCatalogName` property to avoid having table names with 3-part qualifiers. When `StripCatalogName` is enabled, the driver removes catalog names from query statements if translation fails or if the `UseNativeQuery` property is set to 1.

Version 2.5.32

Released 2016-06-16

Enhancements & New Features

[11605] Support added for optimizing driver performance for `INSERT` statements

You can now use the new `OptimizedInsert` connection property to optimize driver performance when executing `INSERT` statements. This optimization is enabled by default.

[13122] Support added for configuring the Thrift transport protocol

You can now use the new `transportMode` connection property to specify the transport protocol that the driver uses in the Thrift layer. The default `AuthMech` value now depends on the `transportMode` setting. For more information, see the *Cloudera JDBC Driver for Impala Installation and Configuration Guide*.

Implemented server version checking for the `getTypeInfo()` method

When you call the `getTypeInfo()` method, the driver now checks the version of the Impala server that you are connecting to and only returns data types that are supported by that Impala version.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.32.

- [13209] When using a single statement to insert multiple rows, an OutOfMemory error occurs.
- [12860] In some cases, when assertions are enabled and an error occurs, the driver return an assertion error instead of the appropriate error.
- [13360] Driver incorrectly reports the buffer length and octet length of CHAR and VARCHAR data as 0.
- [13360] In some cases, the driver returns a negative value for column size.
- [13366] The data type names returned by the `getTypeInfo()` method are inconsistent from the data type names used in Impala.

Version 2.5.31

Released 2016-04-20

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.31.

- [12898] When translating a query that contains an implicit join, the driver disables the implicit join by using CROSS JOIN syntax/
- [13039, 13034, 12980] If an invalid server-side property is specified, the driver fails to connect.

The driver now posts a warning for the invalid server-side property and continues the connection process.

- [12889] When handling multiple connections at the same time, in some cases the driver returns a conversion error when attempting to convert INT data into Long data.
- [12876] Driver removes hints from queries.

The driver no longer removes hints from queries. In order to preserve hints, the driver does not translate queries that contain hints even when it is configured to work in translation mode (`UseNativeQuery=0`).

- [12860] Driver returns error when casting data to type TIMESTAMP.
- [12766] When the `Driver.getPropertyInfo()` method is called, the driver returns a null pointer exception.

- [12890] Driver casts NULL values to type STRING regardless of the return types specified in the searched CASE expression in the query.

Version 2.5.30

Released 2016-03-24

Enhancements & New Features

Server-side properties now supported

When connecting to a server that is running Impala 2.0 or later, you can now use the driver to apply configuration properties to the Impala server by specifying those properties in the connection URL. For more information, see the *Cloudera JDBC Driver for Impala Installation and Configuration Guide*.

Updated handling of the UNION operator

Before, the driver translated UNION to UNION ALL when query translation was enabled (`UseNativeQuery=0`). The driver now translates UNION to UNION DISTINCT.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.30.

- When the `setQueryTimeout()` method is called and the query processing time exceeds the query timeout value, the driver returns a socket timeout error.

The driver now returns the correct error for query timeouts (`SqlTimeoutException`).

- TPC-H queries that contain an EXISTS predicate or a value subquery fail to execute.
- When the `isValid()` method is called, the driver executes multiple SHOW TABLES statements that do not close, causing issues for connection pools.
- When attempting to execute a query that contains parentheses, the driver returns an error.

Version 2.5.29

Released 2015-11-15

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.29.

- When executing a query with parameter in Native query mode, the setObject operation fails.
- executeBatch() operation does not work properly when multiple parameter sets are added to the batch; only the first insert is working.

Version 2.5.28

Released 2015-10-02

Enhancements & New Features

Nested data types (ARRAY, MAP, and STRUCT) now supported

The driver now supports ARRAY, MAP, and STRUCT data types. For more information about how the driver translates and works with these data types, see "Data Types" in the *Cloudera ODBC Driver for Impala Installation and Configuration Guide*.

Resolved Issues

The following issues were resolved in Cloudera JDBC Driver for Impala 2.5.28.

- When using executeUpdate in a prepared statement to insert more than 2 rows, the driver returns an error.

Contact Us

If you are having difficulties using the driver, our [Community Forum](#) may have your solution. In addition to providing user to user support, our forums are a great place to share your questions, comments, and feature requests with us.

If you are a Subscription customer you may also use the [Cloudera Support Portal](#) to search the Knowledge Base or file a Case.

Important: To help us assist you, prior to contacting Cloudera Support please prepare a detailed summary of the client and server environment including operating system version, patch level, and configuration.