BigQuery Connection

Used to connect to the BigQuery cloud database. Requires the Simba ODBC Driver for Google BigQuery. The driver's bitness must match the application's bitness.

Connection parameters

To configure the connection, set the following:

- **Caption**: Contains the user-defined name of the connection.
- **Connection string**: A string in the format `projectId[:datasetId]` that you enter manually. The `projectId` parameter is the unique identifier of your project, and `datasetId` is the unique name of the dataset (optional parameter).
- **Test**: Use this button to test the specified connection settings.

BigQuery parameters

- **Service account email**: The email of the Google service account.
- **Path to private key**: Path to the private key file in JSON or PKCS#12 format.
- **System Certificate Store**: When this option is enabled, the Simba driver verifies the server by checking its certificate against the Windows trusted root certificate store.
- **CA Certificate**: Path to the root certificate file. Used if a third-party certificate needs to be specified.
- **Connect to Google Drive**: When enabled, allows you to query Google Drive resources, including CSV, JSON, Avro, and Google Sheets files.

Other settings

- **Show system tables**: This parameter is unavailable as the Simba driver does not currently implement this functionality.
- **Do not use DBMS client**: This parameter is unavailable, as the Simba driver is always used to connect to BigQuery.
- **Quote names**: Enable this to automatically enclose database object names (like tables and fields) in quotes. This is required if names contain spaces or reserved characters.
- **Clear pool when deactivated**: Clears the pool of cached resources, such as Megaladata Integrator packages frequently used for batch processing, after the node is deactivated. This parameter is disabled by default.
- **Comment**: Use this field to add any notes or reference information about the connection.

Limitations when working with BigQuery

- Export from Google Sheets is not supported (a limitation of the Simba driver).
- The response size from BigQuery is limited to 10 MB (a REST API limitation).
- Transactions are not supported (a BigQuery limitation).
- System tables are not supported (a limitation of the Simba driver).
- Updating (`UPDATE`) existing records in a table is not supported (due to its slow performance).

Notes:

- Import of tables from BigQuery is available for the following data types: `string` , `integer` , `float` , `numeric` , `boolean` , `timestamp` , `date` , `time` , and `datetime` .
- Export to BigQuery is available for the following data types: `string` , `integer` , `float` , `boolean` , and `timestamp` .
- BigQuery supports special `geography` and `record` data types, which may not be compatible with standard SQL tools and are not supported for import/export in Megaladata.
- When exporting to a `timestamp` field, the format `YYYY-MM-DD HH:MM:SS` is used; the time zone is not considered.
- To import data from Google Sheets, the BigQuery service account must be explicitely granted read access to the sheet.

Read on: ClickHouse Connection