# Database - Bug #6868

# MariaDB Dialect can't properly check if a sequence exists

10/20/2022 05:50 AM - Radu Apetrii

Status: Start date: Feedback **Priority:** Normal Due date: % Done: Assignee: 100% Category: **Estimated time:** 0.00 hour Target version: billable: No case\_num: vendor id: GCD version: **Description** 

#### History

### #1 - 10/20/2022 05:57 AM - Radu Apetrii

I tried executing with MariaDB (10.3.34) database this example:

```
define variable seqvalue as int.
define variable seqvalue2 as int.
do transaction:
    seqvalue = current-value(TestSequence).
    seqvalue2 = next-value(TestSequence).
end.
message seqvalue seqvalue2.
```

TestSequence is a sequence inside the database.

I got the following error:

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#### #2 - 10/20/2022 11:41 AM - Ovidiu Maxiniuc

- % Done changed from 0 to 100
- Status changed from New to Feedback

I assume you use 3821c.

This is an issue which was addressed in another branch. To allow you advance until the merge of the branches use the following patch:

```
--- 3821c/src/com/goldencode/p2j/persist/sequence/MariaDbSequenceHandler.java
+++ 6129b/src/com/goldencode/p2j/persist/sequence/MariaDbSequenceHandler.java
@@ -323,15 +339,19 @@
         Persistence persistence = ConnectionManager.getPersistence(ldbName);
         trv
+
             String catalog = persistence.getSession().getConnection().getCatalog();
             ScrollableResults<String> rs = persistence.executeSQLQuery(
                   "select TABLE_NAME from tables where table_type = 'SEQUENCE' and TABLE_SCHEMA = ?",
                   new Object[] { ldbName });
                   "select table_name from information_schema.tables " +
                   "where table_type = 'SEQUENCE' and table_schema = ?",
                   new Object[] { catalog });
             while (rs.next())
             {
                crtSeqList.add(rs.get(0, String.class));
          catch (PersistenceException pe)
         catch (PersistenceException |
                SQLException pe)
             if (LOG.isLoggable(Level.WARNING))
```

# #3 - 10/24/2022 06:23 AM - Radu Apetrii

As a side note, I noticed there was a slight difference in results when running the test from #6868-1 in both PostgreSQL and MariaDB. With PostgreSQL the result is 100 101, while the result with MariaDB is ? 100. Is this something you are aware of?

\*As a matter of fact, I tried using current-value(TestSequence) = 102. In 4GL it works, but in FWD it doesn't. There is no error given, but the value of the sequence remains unchanged.

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#### #4 - 10/24/2022 07:05 AM - Ovidiu Maxiniuc

Radu Apetrii wrote:

As a side note, I noticed there was a slight difference in results when running the test from #6868-1 in both PostgreSQL and MariaDB. With PostgreSQL the result is 100 101, while the result with MariaDB is ? 100. Is this something you are aware of?

\*As a matter of fact, I tried using current-value(TestSequence) = 102. In 4GL it works, but in FWD it doesn't. There is no error given, but the value of the sequence remains unchanged.

You noticed correctly. MariaDB is a bit different from all other dialects (and 4GL). The current value is not available without executing a next first. Constantin tried to work around this by first invoking next and then rolling back one step. Unfortunately, this does not work as expected because ...once you have reach a certain value, it cannot set back to a previous one (see <a href="https://mariadb.com/kb/en/setval/">https://mariadb.com/kb/en/setval/</a>). These are open issues.

The good part is that the latter seems to be fixable using ALTER SEQUENCE instead of setval(). This is in tests momentarily.

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