

Release Notes

build passing release v2.8.2 release date may github repo or version not found

1. Current Issues

1.1 Apache Derby

- The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).

1.2 Trino Distributed Query Engine

- All Connectors: Absolutely unsatisfactory performance (see [here](#)).
- Oracle Connector: Oracle session not disconnected (see [here](#)).

2021-01-14 17:44:35,322 [DatabaseSeeder.java] INFO Start 2021-01-14 17:44:35,328
 [DatabaseSeeder.java] INFO tickerSymbolExtern='oracle_trino' 2021-01-14 17:44:35,328
 [DatabaseSeeder.java] INFO Start Oracle Database via Trino SLF4J: Class path contains multiple SLF4J bindings. SLF4J: Found binding in
 [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/db_seeder.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/jdbc-yugabytedb-42.2.7-yb-3.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See
http://www.slf4j.org/codes.html#multiple_bindings for an explanation. SLF4J: Actual binding is of type
 [org.slf4j.impl.Log4jLoggerFactory] java.sql.SQLException: ORA-01940: Ein Benutzer, der gerade mit der DB verbunden ist, kann nicht gelöscht werden

```
at oracle.jdbc.driver.T4CTTIoer11.processError(T4CTTIoer11.java:509)
at oracle.jdbc.driver.T4CTTIoer11.processError(T4CTTIoer11.java:461)
at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:1104)
at oracle.jdbc.driver.T4CTTIfun.receive(T4CTTIfun.java:553)
at oracle.jdbc.driver.T4CTTIfun.doRPC(T4CTTIfun.java:269)
at oracle.jdbc.driver.T4C8Oall.doOALL(T4C8Oall.java:655)
at oracle.jdbc.driver.T4CStatement.doOall8(T4CStatement.java:229)
at oracle.jdbc.driver.T4CStatement.doOall8(T4CStatement.java:41)
at oracle.jdbc.driver.T4CStatement.executeForRows(T4CStatement.java:928)
at
oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java
:1205)
at
oracle.jdbc.driver.OracleStatement.executeInternal(OracleStatement.java:1823
)
at oracle.jdbc.driver.OracleStatement.execute(OracleStatement.java:1778)
at
oracle.jdbc.driver.OracleStatementWrapper.execute(OracleStatementWrapper.jav
a:303)
```

```

at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropUser(AbstractJdbcSeeder.
java:795)
at
ch.konnexions.db_seeder.jdbc.oracle.OracleSeeder.setupDatabase(OracleSeeder.
java:133)
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeed
er.java:328)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:181)

```

Caused by: Error : 1940, Position : 0, Sql = DROP USER KXN_USER CASCADE, OriginalSql = DROP USER KXN_USER CASCADE, Error Msg = ORA-01940: Ein Benutzer, der gerade mit der DB verbunden ist, kann nicht gelöscht werden

```

at oracle.jdbc.driver.T4CTTIoer11.processError(T4CTTIoer11.java:513)
... 16 more

```

Processing of the script was aborted, error code=1

- Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
- Oracle Connector: ORA-04031.

2021-05-31 18:06:40,467 [DatabaseSeeder.java] INFO Start Oracle Database via Trino SLF4J: Class path contains multiple SLF4J bindings. SLF4J: Found binding in [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/db_seeder.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: Found binding in [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/jdbc-yugabytedb-42.2.7-yb-3.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation. SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory] 2021-05-31 18:07:49,018 [AbstractJdbcSeeder.java] INFO database table COUNTRY - 200 rows in total 2021-05-31 18:07:51,642 [AbstractJdbcSeeder.java] INFO database table TIMEZONE - 11 rows in total 2021-05-31 18:10:55,972 [AbstractJdbcSeeder.java] INFO database table CITY - 500 rows so far 2021-05-31 18:10:56,014 [AbstractJdbcSeeder.java] INFO database table CITY - 1000 rows so far 2021-05-31 18:13:57,943 [AbstractJdbcSeeder.java] INFO database table CITY - 1500 rows so far 2021-05-31 18:15:24,106 [AbstractJdbcSeeder.java] INFO database table CITY - 1800 rows in total 2021-05-31 18:15:24,155 [AbstractJdbcSeeder.java] INFO database table COMPANY - 500 rows so far 2021-05-31 18:15:24,183 [AbstractJdbcSeeder.java] INFO database table COMPANY - 1000 rows so far 2021-05-31 18:17:32,691 [AbstractJdbcSeeder.java] INFO database table COMPANY - 1500 rows so far 2021-05-31 18:17:32,699 [AbstractJdbcSeeder.java] INFO database table COMPANY - 2000 rows so far 2021-05-31 18:19:48,647 [AbstractJdbcSeeder.java] INFO database table COMPANY - 2500 rows so far 2021-05-31 18:19:48,655 [AbstractJdbcSeeder.java] INFO database table COMPANY - 3000 rows so far java.sql.SQLException: Query failed (#20210531_162053_05090_p42ic): Failed to insert data: ORA-04031: unable to allocate 13224 bytes of shared memory ("shared pool","unknown object","KTSL subheap","ktsl_load_disp-2")

```
    at
io.trino.jdbc.AbstractTrinoResultSet.resultsException(AbstractTrinoResultSet.java:
1912)
    at
io.trino.jdbc.TrinoResultSet$ResultsPageIterator.computeNext(TrinoResultSet.java:2
18)
    at
io.trino.jdbc.TrinoResultSet$ResultsPageIterator.computeNext(TrinoResultSet.java:1
78)
    at
io.trino.jdbc.$internal.guava.collect.AbstractIterator.tryToComputeNext(AbstractIt
erator.java:141)
    at
io.trino.jdbc.$internal.guava.collect.AbstractIterator.hasNext(AbstractIterator.ja
va:136)
    at
java.base/java.util.Spliterators$IteratorSpliterator.tryAdvance(Spliterators.java:
1811)
    at
java.base/java.util.stream.StreamSpliterators$WrappingSpliterator.lambda$initParti
alTraversalState$0(StreamSpliterators.java:294)
    at
java.base/java.util.stream.StreamSpliterators$AbstractWrappingSpliterator.fillBuff
er(StreamSpliterators.java:206)
    at
java.base/java.util.stream.StreamSpliterators$AbstractWrappingSpliterator.doAdvanc
e(StreamSpliterators.java:161)
    at
java.base/java.util.stream.StreamSpliterators$WrappingSpliterator.tryAdvance(Strea
mSpliterators.java:300)
    at java.base/java.util.Spliterators$1Adapter.hasNext(Spliterators.java:681)
    at
io.trino.jdbc.TrinoResultSet$AsyncIterator.lambda$new$0(TrinoResultSet.java:124)
    at
java.base/java.util.concurrent.CompletableFuture$AsyncRun.run(CompletableFuture.ja
va:1800)
    at
java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.jav
a:1130)
    at
java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.ja
va:630)
    at java.base/java.lang.Thread.run(Thread.java:831)
```

Caused by: io.trino.spi.TrinoException: Failed to insert data: ORA-04031: unable to allocate 13224 bytes of shared memory ("shared pool","unknown object","KTSL subheap","ktsl_load_disp-2")

```

    at io.trino.plugin.jdbc.JdbcPageSink.finish(JdbcPageSink.java:174)
    at io.trino.operator.TableWriterOperator.finish(TableWriterOperator.java:208)
    at io.trino.operator.Driver.processInternal(Driver.java:405)
    at io.trino.operator.Driver.lambda$processFor$9(Driver.java:291)
    at io.trino.operator.Driver.tryWithLock(Driver.java:683)
    at io.trino.operator.Driver.processFor(Driver.java:284)
    at
io.trino.execution.SqlTaskExecution$DriverSplitRunner.processFor(SqlTaskExecution.
java:1075)
    at
io.trino.execution.executor.PrioritizedSplitRunner.process(PrioritizedSplitRunner.
java:163)
    at
io.trino.execution.executor.TaskExecutor$TaskRunner.run(TaskExecutor.java:484)
    at io.trino.$gen.Trino_357____20210531_160412_2.run(Unknown Source)
    at
java.base/java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.jav
a:1128)
    at
java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.ja
va:628)
    at java.base/java.lang.Thread.run(Thread.java:829)

```

Caused by: java.sql.BatchUpdateException: ORA-04031: unable to allocate 13224 bytes of shared memory ("shared pool","unknown object","KTSL subheap","ktsl_load_disp-2")

```

    at
oracle.jdbc.driver.OraclePreparedStatement.executeLargeBatch(OraclePreparedStatement.
nt.java:9711)
    at
oracle.jdbc.driver.T4CPreparedStatement.executeLargeBatch(T4CPreparedStatement.jav
a:1447)
    at
oracle.jdbc.driver.OraclePreparedStatement.executeBatch(OraclePreparedStatement.ja
va:9487)
    at
oracle.jdbc.driver.OracleStatementWrapper.executeBatch(OracleStatementWrapper.java
:237)
    at
oracle.ucp.jdbc.proxy.oracle$1ucp$1jdbc$1proxy$1oracle$1StatementProxy$2oracle$1jd
bc$1internal$1OraclePreparedStatement$$$Proxy.executeBatch(Unknown Source)
    at io.trino.plugin.jdbc.JdbcPageSink.finish(JdbcPageSink.java:159)
    ... 12 more
    Suppressed: java.lang.Exception: Next SQLException
        at io.trino.plugin.jdbc.JdbcPageSink.finish(JdbcPageSink.java:170)
        ... 12 more
    Caused by: java.sql.SQLException: ORA-04031: unable to allocate 13224 bytes of
shared memory ("shared pool","unknown object","KTSL subheap","ktsl_load_disp-2")

```

```

        at oracle.jdbc.driver.T4CTTioer11.processError(T4CTTioer11.java:509)
        at oracle.jdbc.driver.T4CTTioer11.processError(T4CTTioer11.java:461)
        at oracle.jdbc.driver.T4C8Oall.processError(T4C8Oall.java:1104)
        at oracle.jdbc.driver.T4CTTifun.receive(T4CTTifun.java:550)
        at oracle.jdbc.driver.T4CTTifun.doRPC(T4CTTifun.java:268)
        at oracle.jdbc.driver.T4C8Oall.doOALL(T4C8Oall.java:655)
        at
oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:270)
        at
oracle.jdbc.driver.T4CPreparedStatement.doOall8(T4CPreparedStatement.java:91)
        at
oracle.jdbc.driver.T4CPreparedStatement.executeForRows(T4CPreparedStatement.java:9
70)
        at
oracle.jdbc.driver.OraclePreparedStatement.executeForRowsWithTimeout(OraclePrepare
dStatement.java:9452)
        at
oracle.jdbc.driver.OraclePreparedStatement.executeLargeBatch(OraclePreparedStatement
nt.java:9556)
        at
oracle.jdbc.driver.T4CPreparedStatement.executeLargeBatch(T4CPreparedStatement.jav
a:1447)
        at
oracle.jdbc.driver.OraclePreparedStatement.executeBatch(OraclePreparedStatement.ja
va:9487)
        at
oracle.jdbc.driver.OracleStatementWrapper.executeBatch(OracleStatementWrapper.java
:237)
        at
oracle.ucp.jdbc.proxy.oracle$1ucp$1jdbc$1proxy$1oracle$1StatementProxy$2oracle$1jd
bc$1internal$1OraclePreparedStatement$$$Proxy.executeBatch(Unknown Source)
        at io.trino.plugin.jdbc.JdbcPageSink.finish(JdbcPageSink.java:159)
        ... 12 more
    Caused by: oracle.jdbc.OracleDatabaseException: ORA-04031: unable to allocate
13224 bytes of shared memory ("shared pool","unknown object","KTSL
subheap","ktsl_load_disp-2")

        at oracle.jdbc.driver.T4CTTioer11.processError(T4CTTioer11.java:513)
        ... 27 more

```

Processing of the script was aborted, error code=1

1.3 VoltDB

- java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null

2021-04-23 15:51:09,814 [DatabaseSeeder.java] INFO Start 2021-04-23 15:51:09,827 [DatabaseSeeder.java] INFO tickerSymbolExtern='voltdb' 2021-04-23 15:51:09,828 [DatabaseSeeder.java] INFO Start VoltDB SLF4J:

Class path contains multiple SLF4J bindings. SLF4J: Found binding in [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/db_seeder.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/D:/SoftDevelopment/Projects/db_seeder/lib/jdbc-yugabytedb-42.2.7-yb-3.jar!/org/slf4j/impl/StaticLoggerBinder.class] SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation. SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null

```
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:328)
at
org.voltcore.network.VoltNetwork.optimizedInvokeCallbacks(VoltNetwork.java:478)
at org.voltcore.network.VoltNetwork.run(VoltNetwork.java:329)
at java.base/java.lang.Thread.run(Thread.java:831)
```

Apr. 23, 2021 3:51:10 PM org.voltcore.logging.VoltUtilLoggingLogger log SEVERE: NULL : Throwable:
java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null
java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null

```
at
org.voltcore.network.VoltNetwork.optimizedInvokeCallbacks(VoltNetwork.java:478)
at org.voltcore.network.VoltNetwork.run(VoltNetwork.java:329)
at java.base/java.lang.Thread.run(Thread.java:831)
```

Apr. 23, 2021 3:51:10 PM org.voltcore.logging.VoltUtilLoggingLogger log SEVERE: NULL : Throwable:
java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null
Apr. 23, 2021 3:53:11 PM org.voltcore.logging.VoltUtilLoggingLogger log WARNING: Connection to VoltDB node at: localhost:21212 was lost. java.sql.SQLException: Connection closed (CONNECTION_LOST): 'Connection to database host (localhost/127.0.0.1:21212) was lost before a response was received'

```
at org.voltdb.jdbc.SQLError.get(SQLError.java:60)
at org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:133)
at org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:376)
at org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:387)
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropAllTablesIfExists(AbstractJdbcSeeder.java:638)
at
ch.konnexions.db_seeder.jdbc.voltdb.VoltdbSeeder.setupDatabase(VoltdbSeeder.java:102)
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java
```

```
:328)
  at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:230)
  Caused by: org.voltdb.client.ProcCallException: Connection to database host
(localhost/127.0.0.1:21212) was lost before a response was received
  at org.voltdb.client.ClientImpl.internalSyncCallProcedure(ClientImpl.java:461)
  at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeoutImpl(ClientImpl.java:31
1)
  at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeout(ClientImpl.java:285)
  at org.voltdb.jdbc.JDBC4ClientConnection.execute(JDBC4ClientConnection.java:351)
  at org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:122)
  ... 6 more`
```

Processing of the script was aborted, error code=1

2. Version History

2.9.0

Release Date: 04.06.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Java Version 16 (e.g.: 16.0.1 from <https://jdk.java.net/16/>)
- Gradle: 7 (e.g.: v7.0.2 from <https://gradle.org/releases/>)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2021-03\eclipse`

New Features

- OmniSciDB: DBMS 5.6.1 / JDBC 5.6.0

Modified Features

- CockroachDB: DBMS v21.1.1
- CUBRID: JDBC 11.0.1.0286
- Firebird: DBMS v4.0.0rc1
- MariaDB Server: DBMS 10.6.1
- Trino Distributed Query Engine: DBMS 358 / JDBC 358
- YugabyteDB: DBMS 2.7.1.1-b1

- xxx: DBMS 999 / JDBC 999
-

2.8.2

Release Date: 28.05.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Java Version 16 (e.g.: 16.0.1 from <https://jdk.java.net/16/>)
- Gradle: 7 (e.g.: v7.0.2 from <https://gradle.org/releases/>)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2021-03\eclipse`

Modified Features

- in Windows 10: replacing `grep` by `find`
 - CockroachDB: DBMS v21.1.0
 - CrateDB: DBMS 4.5.1
 - Exasol: DBMS 7.0.8 & shutting down the database in the Docker container
 - HyperSQL Database: JDBC 2.6.0
 - MariaDB Server: DBMS 10.6.0 / JDBC 2.7.3
 - MonetDB: DBMS Oct2020-SP5
 - MySQL Database: DBMS 8.0.25 / JDBC 8.0.25
 - Percona Server for MySQL: DBMS 8.0.23-14
 - PostgreSQL: DBMS 13.3 / JDBC 42.2.20
 - Trino Distributed Query Engine: DBMS 356 / JDBC 356
 - YugabyteDB: DBMS 2.7.1.0-b131
-

2.8.1

Release Date: 01.04.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant

- Docker Desktop Community: 3.0.4
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- Gradle: 6.8.3
- grep utility, e.g. for Windows [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2020-12\eclipse`

Modified Features

- AgensGraph: DBMS v2.1.3
 - CockroachDB: DBMS v20.2.7
 - CrateDB: DBMS 4.5.0
 - CUBRID: DBMS 11.0
 - Exasol: DBMS 7.0.8
 - Firebird: JDBC 4.0.3.java11
 - HyperSQL Database: DBMS 2.6.0
 - IBM Db2 Database: DBMS 11.5.5.1
 - Microsoft SQL Server: JDBC 9.2.1.jre15
 - Trino Distributed Query Engine: DBMS 354 / JDBC 354
 - YugabyteDB: DBMS 2.5.3.1-b10
-

2.8.0

Release Date: 03.03.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- Gradle: 6.8.3
- grep utility, e.g. for Windows [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2020-12\eclipse`

New Features

- New DBMS: CockroachDB

Modified Features

- Mimer SQL: DBMS v11.0.5a
-

2.7.1

Release Date: 27.02.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2020-12\eclipse`

Modified Features

- CrateDB: DBMS 4.4.1
 - CUBRID: JDBC 11.0.0.0248
 - Exasol: DBMS 7.0.7 / JDBC 7.0.7
 - MariaDB Server: DBMS 10.5.9 / JDBC 2.7.2
 - Microsoft SQL Server: JDBC 9.2.0.jre15
 - MonetDB: DBMS Oct2020-SP3 / JDBC 3.0.jre8
 - Oracle Database: JDBC 21.1.0.0
 - PostgreSQL: DBMS 13.2 / JDBC 42.2.19
 - Trino Distributed Query Engine: DBMS 352 / JDBC 352
 - YugabyteDB: DBMS 2.5.2.0-b104
-

2.7.0

Release Date: 28.01.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant

- Docker Desktop Community: 3.0.4
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse, e.g.:
`C:\Software\eclipse\java-2020-12\eclipse`

New Features

Rebranding of Presto to Trino

Modified Features

- CrateDB: DBMS 4.3.4
 - Exasol: DBMS 7.0.6 / JDBC 7.0.4
 - Firebird: JDBC 4.0.2.java11
 - IBM Db2 Database: DBMS 11.5.5.0
 - IBM Informix: DBMS 14.10.FC5DE
 - Mimer SQL: JDBC 3.41a
 - Oracle Database: JDBC 19.9.0.0
 - SQLite: DBMS 3.34.0 / JDBC 3.34.0
 - Trino Distributed Query Engine: DBMS 351 / JDBC 351
 - YugabyteDB: DBMS 2.5.1.0-b153
-

2.6.1

Release Date: 28.11.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Exasol
 - JDBC Driver: java.sql.SQLException: Invalid character in connection string (see [here](#)).

- Ubuntu 20.10: com.exasol.jdbc.ConnectFailed: Connection reset (see [here](#))
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Oracle Database
 - Database 19c: ORA-12637: Packet receive failed (see [here](#)).
- Presto Distributed Query Engine
 - All Connectors: Absolutely unsatisfactory performance (see [here](#)).
 - Oracle Connector: Oracle session not disconnected (see [here](#)).
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

Modified Features

- CrateDB: DBMS 4.3.1
 - IBM Db2 Database: JDBC 11.5.5.0
 - MariaDB Server: DBMS 10.5.8 / JDBC 2.7.1
 - Mimer SQL: DBMS v11.0.4b
 - MySQL Database: DBMS 8.0.23 / JDBC 8.0.23
 - PostgreSQL: DBMS 13.1
 - Presto Distributed Query Engine: DBMS 347 / JDBC 347
 - Travis CI has been limited to the compilation functionality
 - VoltDB: JDBC 10.1.1
 - YugabyteDB: DBMS 2.5.0.0-b2
-

2.6.0

Release Date: 27.10.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
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 - JDBC Driver: java.sql.SQLException: Invalid character in connection string (see [here](#)).
 - Ubuntu 20.10: com.exasol.jdbc.ConnectFailed: Connection reset (see [here](#))
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 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
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 - Database 19c: ORA-12637: Packet receive failed (see [here](#)).
- Presto Distributed Query Engine
 - All Connectors: Absolutely unsatisfactory performance (see [here](#)).
 - Oracle Connector: Oracle session not disconnected (see [here](#)).
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

New Features

- new scripts for creating a summary file from the benchmark data

Modified Features

- CrateDB: DBMS 4.3.0
- Exasol: DBMS 7.0.3 / JDBC 7.0.3
- Firebird: DBMS 3.0.7
- MariaDB Server: DBMS 10.5.6
- MySQL Database: DBMS 8.0.22 / JDBC 8.0.22
- Oracle Database: JDBC 19.8.0.0
- PostgreSQL: JDBC 42.2.18
- Presto Distributed Query Engine: DBMS 345 / JDBC 345

2.5.2

Release Date: 05.10.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Exasol
 - JDBC Driver: java.sql.SQLException: Invalid character in connection string (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Oracle Database
 - Database 19c: ORA-12637: Packet receive failed (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

New Features

- Docker Compose functionality added

Modified Features

- YugabyteDB: DBMS 2.3.2.0-b37
-

2.5.1

Release Date: 29.09.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 15 (e.g.: <https://jdk.java.net/15/>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Oracle Database
 - Database 19c: ORA-12637: Packet receive failed (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

Modified Features

- CrateDB: DBMS 4.2.4
- CUBRID: JDBC 10.2.2.8874
- Exasol: DBMS 7.0.2
- MariaDB Server: JDBC 2.7.0
- PostgreSQL: DBMS 13
- Presto Distributed Query Engine: DBMS 343
- Presto Distributed Query Engine: JDBC 343

2.5.0

Release Date: 30.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

New Features

- New DBMS: Exasol

Modified Features

- Microsoft SQL Server: JDBC 8.4.1.jre14
-

2.4.0

Release Date: 27.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).

- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

New Features

- New DBMS: AgensGraph
 - New DBMS: VoltDB
-

2.3.0

Release Date: 26.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).
- YugabyteDB
 - Windows 10: Creation of Docker Container fails (see [here](#)).

New Features

- New DBMS: Percona Server for MySQL
- New DBMS: YugabyteDB

Modified Features

- CrateDB: DBMS 4.2.3
 - PostgreSQL: DBMS 12.4 / JDBC 42.2.15
-

2.2.0

Release Date: 18.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- MonetDB
 - Exception in thread "main" java.sql.BatchUpdateException.
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).

New Features

- New DBMS: MonetDB

Modified Features

- the [original image from Presto](#) is now used
-

2.1.3

Release Date: 17.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby

- The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - Oracle Connector: Support Oracle's NUMBER data type (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).

Modified Features

- PostgreSQL: JDBC 42.2.15
 - Presto Distributed Query Engine: use of Docker network
 - minor script fixes
-

2.1.2

Release Date: 13.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - MySQL Connector: Connection failure (see [here](#)).
 - PostgreSQL Connector: Connection failure (see [here](#)).
 - SQL Server Connector: Failed to insert NULL for varbinary in SQL Server (see [here](#)).

Modified Features

- minor script fixes.
-

2.1.1

Release Date: 13.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - MySQL Connector: JDBC INSERT limited to about 100 rows - observed 98 to 115 (see [here](#)).
 - SQL Server Connector: Issues with BLOB and CLOB (see [here](#)).

New Features

- Demonstration programs for the Presto Connectors

Modified Features

- Firebird: JDBC 4.0.1.java11
 - MariaDB Server: DBMS 10.5.5
 - Presto Distributed Query Engine: JDBC 340
 - solved: PostgreSQL Connector: Cannot insert BLOB using Presto JDBC (see [here](#)).
 - solved: SQL Server Connector: Login failed (see [here](#)).
 - solved: gradle warning with <http://maven.cubrid.org> (see [\[here\]](#)(<http://jira.cubrid.org/browse/CBRD-23727>)).
-

2.1.0

Release Date: 11.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- CUBRID
 - gradle warning with <http://maven.cubrid.org> (see [\[here\]](#)(<http://jira.cubrid.org/browse/CBRD-23727>).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).
- Presto Distributed Query Engine
 - MySQL Connector: JDBC INSERT limited to about 100 rows - observed 98 to 115 (see [here](#)).
 - PostgreSQL Connector: Cannot insert BLOB using Presto JDBC (see [here](#)).
 - SQL Server Connector: Login failed (see [here](#)).

New Features

- Adding the JDBC driver of the Presto Distributed Query Engine (see [Issue #5](#)).

Modified Features

- MariaDB Server: JDBC 2.6.2
 - Microsoft SQL Server: JDBC 8.4.0.jre14
-

2.0.0

Release Date: 02.08.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby

- The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).

New Features

- The underlying database schema can now be freely defined using a JSON-based parameter file (Issues [37](#), [38](#), [39](#) and [50](#)).

Modified Features

- CrateDB: DBMS 4.1.8
 - SQLite: DBMS 3.32.3 / JDBC 3.32.3.2
-

1.15.10

Release Date: 14.07.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).

Modified Features

- Config.java: reduce number of properties (issue #36)
 - MySQL Database: DBMS & JDBC 8.0.22
-

1.15.8

Release Date: 13.07.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).

Modified Features

- Added complete run and upload of statistics data to Travis CI (issue #42)
 - Scripts restructured and extended (issue #40)
 - Solved IBM Informix issue (issue #41)
-

1.15.5

Release Date: 10.07.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)
- grep utility, e.g. for Windows [here](#)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- IBM Informix
 - Sporadically during Informix startup: "shared memory not initialized for INFORMIXSERVER 'informix'" (see [here](#)).
- Mimer SQL & DBeaver
 - DBeaver: Previewing BLOB column shows "Error loading text value" (see [here](#)).

New Features

- New batch script: `run_db_seeder_complete`: Run all DBMS variations
- New DBMS: Mimer SQL

Modified Features

- CrateDB: DBMS 4.1.8
 - Firebird: DBMS 3.0.6
 - IBM Db2 Database: DBMS & JDBC 11.5.4.0
 - IBM Informix: JDBC 4.50.4.1
 - Oracle Database: JDBC 19.7.0.0
-

1.14.0

Release Date: 06.07.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).

New Features

- New DBMS: IBM Informix
-

1.13.0

Release Date: 01.07.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby

- The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).

New Features

- New DBMS: H2 Database Engine
-

1.12.0

Release Date: 29.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).

New Features

- New DBMS: H2 Database Engine
-

1.11.2

Release Date: 26.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).

Modified Features

- introducing encoding support for ISO-8859-1 and UTF-8
 - Tested DBMS version: MariaDB Server 10.5.4
-

1.11.0

Release Date: 26.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- Mimer SQL
 - Previewing BLOB columns with DBeaver gives the error message "Error loading text value" (see [here](#))

New Features

- New DBMS: Firebird
-

1.8.3

Release Date: 21.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

Current Issues

- Apache Derby
 - The second run with the embedded version of Apache Derby stumbles over a known problem of Apache Derby (see [here](#)).
- CUBRID
 - It is not possible to construct a valid URL for JDBC (see [here](#)).

New Features

- New DBMS: Apache Derby (both client and embedded version)
- New DBMS: CUBRID

Modified Features

- Tested DBMS version: MariaDB Server 10.5.3
 - Tested DBMS version: Oracle database 12c
 - Tested DBMS version: Oracle database 18c
-

1.6.0

Release Date: 16.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: SQLite
-

1.5.0

Release Date: 15.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: CrateDB
-

1.4.0

Release Date: 14.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: IBM Db2 Database
-

1.3.0

Release Date: 12.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: MariaDB Server
-

1.2.0

Release Date: 10.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: PostgreSQL
-

1.1.0

Release Date: 06.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- Documentation
- New DBMS: Microsoft SQL Server
- Travis CI Integration
- Verification of the data storage

Modified Features

- Adding BLOB and CLOB support
-

1.0.0

Release Date: 01.06.2020

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Java Version 14 (e.g.: <https://adoptopenjdk.net/releases.html?variant=openjdk14&jvmVariant=hotspot>)

New Features

- New DBMS: MySQL Database
 - New DBMS: Oracle Database
-