

# Release Notes

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build passing release v2.9.0 release date last saturday github repo or version not found

## Table of Contents

### 1. Current Issues

### 2. Version History

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## 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

- 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.cl  
 ass] 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](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.java: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(AbstractJdbcSeeder.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](#)).

## 2. Version History

### 2.9.1

Release Date: dd.mm.2021

#### System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Eclipse IDE: 2021.03 (from [Eclipse Download Page](#))
- Gradle Build Tool: 7 (e.g.: v7.0.2 from [here](#))
- Java Development Kit 15, (e.g. open-source JDK Version 15 from [here](#))
- an environment variable called **HOME\_ECLIPSE** that points to the installation directory of Eclipse IDE, e.g.: **C:\Software\eclipse\java-2021-03\eclipse**

#### New Features

n/a

### Modified Features

- CockroachDB: DBMS v21.1.2
- Exasol: DBMS 7.0.10
- HSQLDB embedded: very big performance improvement after fixing a bug
- MonetDB: big performance improvement after introducing manual commit
- xxx: DBMS 999 / JDBC 999

### Deleted Features

- Docker Compose functionality removed
- 

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
- open-source JDK Version 16 (e.g.: 16.0.1 from [here](#))
- Gradle Build Tool: 7 (e.g.: v7.0.2 from [here](#))
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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: DBMS 358 / JDBC 358
- YugabyteDB: DBMS 2.7.1.1-b1

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## 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
- open-source JDK Version 16 (e.g.: 16.0.1 from [here](#))
- Gradle Build Tool: 7 (e.g.: v7.0.2 from [here](#))
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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
- HSQLDB: 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: DBMS 356 / JDBC 356
- YugabyteDB: DBMS 2.7.1.0-b131

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## 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

- open-source JDK Version 15 (e.g.: from [here](#))
- Gradle Build Tool: 6.8.3
- grep utility, e.g. for Windows from [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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
  - HSQLDB: DBMS 2.6.0
  - IBM Db2 Database: DBMS 11.5.5.1
  - SQL Server: JDBC 9.2.1.jre15
  - trino: 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
- open-source JDK Version 15 (e.g.: from [here](#))
- Gradle Build Tool: 6.8.3
- grep utility, e.g. for Windows from [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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
- open-source JDK Version 15 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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
  - MonetDB: DBMS Oct2020-SP3 / JDBC 3.0.jre8
  - Oracle Database: JDBC 21.1.0.0
  - PostgreSQL: DBMS 13.2 / JDBC 42.2.19
  - SQL Server: JDBC 9.2.0.jre15
  - trino: 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
- open-source JDK Version 15 (e.g.: from [here](#))

- grep utility, e.g. for Windows from [here](#)
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, 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: DBMS 351 / JDBC 351
  - YugabyteDB: DBMS 2.5.1.0-b153
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2.6.1

Release Date: 28.11.2020

## System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- open-source JDK Version 15 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 15 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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](#)).

## 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
- open-source JDK Version 15 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 15 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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

- 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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
  - 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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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)
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1.15.5

Release Date: 10.07.2020

### System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- open-source JDK Version 14 (e.g.: from [here](#))
- grep utility, e.g. for Windows from [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
- open-source JDK Version 14 (e.g.: from [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](#)).

### 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
- open-source JDK Version 14 (e.g.: from [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](#)).

## 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
- open-source JDK Version 14 (e.g.: from [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](#)).

## 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
- open-source JDK Version 14 (e.g.: from [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](#)).

## 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
- open-source JDK Version 14 (e.g.: from [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
  - 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
- open-source JDK Version 14 (e.g.: from [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
  - 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
- open-source JDK Version 14 (e.g.: from [here](#))

## 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
- open-source JDK Version 14 (e.g.: from [here](#))

## 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
- open-source JDK Version 14 (e.g.: from [here](#))

## 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
- open-source JDK Version 14 (e.g.: from [here](#))

### 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
- open-source JDK Version 14 (e.g.: from [here](#))

### 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
- open-source JDK Version 14 (e.g.: from [here](#))

### New Features

- Documentation
- New DBMS: 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
- open-source JDK Version 14 (e.g.: from [here](#))

## New Features

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