

DBSeeder - Release Notes

build passing release v2.9.1 release date june github repo or version not found

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1. Current Issues

1.1 CockroachDB

- Issue: dropping unique key constraints - SQL statement `DROP INDEX "country_name_key" CASCADE:`

```
2021-07-23 09:28:10,007 [DatabaseSeeder.java] INFO Start CockroachDB
org.postgresql.util.PSQLException: ERROR: requested table does not have a primary key at
org.postgresql.core.v3.QueryExecutorImpl.receiveErrorResponse(QueryExecutorImpl.java:243
4) at
org.postgresql.core.v3.QueryExecutorImpl.processResults(QueryExecutorImpl.java:2179) at
org.postgresql.core.v3.QueryExecutorImpl.execute(QueryExecutorImpl.java:307) at
org.postgresql.jdbc.PgStatement.executeInternal(PgStatement.java:441) at
org.postgresql.jdbc.PgStatement.execute(PgStatement.java:365) at
org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:307) at
org.postgresql.jdbc.PgStatement.executeCachedSql(PgStatement.java:293) at
org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:270) at
org.postgresql.jdbc.PgStatement.execute(PgStatement.java:266) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeDdlStmtnts(AbstractJdbcSeeder.java
:1260) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1174) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:415)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:94) Processing of the
script was aborted, error code=1
```

1.2 CrateDB

- Issue: dropping constraints - SQL statement `ALTER TABLE COUNTRY DROP CONSTRAINT country_pk:`

Deleting constraints seems to be very rudimentary, see [here](#)

```
2021-07-23 10:14:44,871 [DatabaseSeeder.java] INFO Start CrateDB
io.crate.shade.org.postgresql.util.PSQLException: ERROR: Cannot find a CHECK CONSTRAINT
named [country_pk], available constraints are: [] at
io.crate.shade.org.postgresql.core.v3.QueryExecutorImpl.receiveErrorResponse(QueryExecut
orImpl.java:2440) at
```

```

io.crate.shade.org.postgresql.core.v3.QueryExecutorImpl.processResults(QueryExecutorImpl
.java:2183) at
io.crate.shade.org.postgresql.core.v3.QueryExecutorImpl.execute(QueryExecutorImpl.java:3
08) at
io.crate.shade.org.postgresql.jdbc.PgStatement.executeInternal(PgStatement.java:442) at
io.crate.shade.org.postgresql.jdbc.PgStatement.execute(PgStatement.java:366) at
io.crate.shade.org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:308) at
io.crate.shade.org.postgresql.jdbc.PgStatement.executeCachedSql(PgStatement.java:294) at
io.crate.shade.org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:271) at
io.crate.shade.org.postgresql.jdbc.PgStatement.execute(PgStatement.java:267) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeDdlStmtnts(AbstractJdbcSeeder.java
:1260) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1174) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:415)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:100) Processing of
the script was aborted, error code=1

```

1.3 Firebird

- Issue: incomplete index delivery with `getIndexInfo`, DDL statement:

```

CREATE TABLE COUNTRY ( PK_COUNTRY_ID INTEGER NOT NULL, COUNTRY_MAP BLOB SUB_TYPE BINARY,
CREATED TIMESTAMP NOT NULL, ISO3166 VARCHAR(50), MODIFIED TIMESTAMP, NAME VARCHAR(100)
NOT NULL, CONSTRAINT INTEG_101 UNIQUE (NAME) ); CREATE UNIQUE INDEX RDB$38 ON COUNTRY
(NAME);

```

```

2021-07-23 13:06:16,610 [DatabaseSeeder.java] INFO Start Firebird [client]
java.sql.SQLException: unsuccessful metadata update; ALTER TABLE COUNTRY
failed; CONSTRAINT RDB$38 does not exist. [SQLState:42000, ISC error code:335544351] at
org.firebirdsql.gds.ng.FbExceptionBuilder$Type$1.createSQLException(FbExceptionBuilder.j
ava:534) at
org.firebirdsql.gds.ng.FbExceptionBuilder.toFlatSQLException(FbExceptionBuilder.java:304
) at
org.firebirdsql.gds.ng.wire.AbstractWireOperations.readStatusVector(AbstractWireOperatio
ns.java:140) at
org.firebirdsql.gds.ng.wire.AbstractWireOperations.processOperation(AbstractWireOperatio
ns.java:204) at
org.firebirdsql.gds.ng.wire.AbstractWireOperations.readSingleResponse(AbstractWireOperat
ions.java:171) at
org.firebirdsql.gds.ng.wire.AbstractWireOperations.readResponse(AbstractWireOperations.j
ava:155) at
org.firebirdsql.gds.ng.wire.AbstractFbWireDatabase.readResponse(AbstractFbWireDatabase.j
ava:211) at
org.firebirdsql.gds.ng.wire.version10.V10Statement.execute(V10Statement.java:329) at
org.firebirdsql.jdbc.FBStatement.internalExecute(FBStatement.java:869) at
org.firebirdsql.jdbc.FBStatement.executeImpl(FBStatement.java:496) at
org.firebirdsql.jdbc.FBStatement.execute(FBStatement.java:482) at

```

```
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeDdlStmts(AbstractJdbcSeeder.java
:1259) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1173) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:415)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:131) Caused by:
org.firebirdsql.jdbc.FBSQLExceptionInfo: unsuccessful metadata update Processing of the
script was aborted, error code=1
```

1.4 H2 Database Engine

- Issue: **DROP CONSTRAINT**, DDL statement:

```
CREATE TABLE KXN_SCHEMA.COUNTRY ( PK_COUNTRY_ID BIGINT NOT NULL, COUNTRY_MAP BLOB,
CREATED TIMESTAMP NOT NULL, ISO3166 VARCHAR(50), MODIFIED TIMESTAMP, NAME VARCHAR(100)
NOT NULL ); CREATE UNIQUE INDEX CONSTRAINT_INDEX_6 ON KXN_SCHEMA.COUNTRY (NAME);
```

```
2021-07-23 13:16:56,340 [DatabaseSeeder.java] INFO Start H2 Database Engine [client]
org.h2.jdbc.JdbcSQLException: Constraint "CONSTRAINT_INDEX_6" not found; SQL
statement: ALTER TABLE COUNTRY DROP CONSTRAINT CONSTRAINT_INDEX_6 [90057-200] at
org.h2.message.DbException.getJdbcSQLException(DbException.java:576) at
org.h2.message.DbException.getJdbcSQLException(DbException.java:429) at
org.h2.message.DbException.get(DbException.java:205) at
org.h2.message.DbException.get(DbException.java:181) at
org.h2.command.ddl.AlterTableDropConstraint.update(AlterTableDropConstraint.java:41) at
org.h2.command.CommandContainer.update(CommandContainer.java:198) at
org.h2.command.Command.executeUpdate(Command.java:251) at
org.h2.server.TcpServerThread.process(TcpServerThread.java:406) at
org.h2.server.TcpServerThread.run(TcpServerThread.java:183) at
java.base/java.lang.Thread.run(Thread.java:832) at
org.h2.message.DbException.getJdbcSQLException(DbException.java:576) at
org.h2.engine.SessionRemote.done(SessionRemote.java:611) at
org.h2.command.CommandRemote.executeUpdate(CommandRemote.java:237) at
org.h2.jdbc.JdbcStatement.executeInternal(JdbcStatement.java:228) at
org.h2.jdbc.JdbcStatement.execute(JdbcStatement.java:201) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeDdlStmts(AbstractJdbcSeeder.java
:1259) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1173) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:415)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:138) Processing of
the script was aborted, error code=1
```

1.5 HSQLDB

- Issue: **DROP CONSTRAINT** privilege with SQL statement **ALTER TABLE COUNTRY DROP CONSTRAINT SYS_IDX_SYS_PK_10095_10099**, DDL statement:

```
CREATE TABLE PUBLIC.KXN_SCHEMA.COUNTRY ( PK_COUNTRY_ID BIGINT NOT NULL, COUNTRY_MAP
BLOB, CREATED_TIMESTAMP NOT NULL, ISO3166 VARCHAR(50), MODIFIED_TIMESTAMP, NAME
VARCHAR(100) NOT NULL ); CREATE UNIQUE INDEX SYS_IDX_SYS_CT_10098_10103 ON
PUBLIC.KXN_SCHEMA.COUNTRY (NAME);
```

```
2021-07-23 13:40:37,554 [DatabaseSeeder.java] INFO Start HSQLDB [client]
java.sql.SQLException: user lacks privilege or object not found:
SYS_IDX_SYS_PK_10095_10099 at org.hsqldb.jdbc.JDBCUtil.sqlException(Unknown Source) at
org.hsqldb.jdbc.JDBCUtil.sqlException(Unknown Source) at
org.hsqldb.jdbc.JDBCStatement.fetchResult(Unknown Source) at
org.hsqldb.jdbc.JDBCStatement.execute(Unknown Source) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeDdlStmtnts(AbstractJdbcSeeder.java
:1261) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1175) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:415)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:152) Caused by:
org.hsqldb.HsqlException: user lacks privilege or object not found:
SYS_IDX_SYS_PK_10095_10099 at org.hsqldb.error.Error.error(Unknown Source) at
org.hsqldb.result.Result.getException(Unknown Source) ... 7 more Processing of the
script was aborted, error code=1
```

1.6 IBM Db2 Database

- Issue: version 11.5.6.0:

```
2021-07-03 05:31:17,235 [DatabaseSeeder.java] INFO Start 2021-07-03 05:31:17,237
[DatabaseSeeder.java] INFO tickerSymbolExtern='ibmdb2' 2021-07-03 05:31:17,237
[DatabaseSeeder.java] INFO Start IBM Db2 Database 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.apache.logging.slf4j.Log4jLoggerFactory]
com.ibm.db2.jcc.am.DisconnectNonTransientConnectionException: [jcc][t4][2030][11211]
[4.29.24] A communication error occurred during operations on the connection's
underlying socket, socket input stream, or socket output stream. Error location:
Reply.fill() - insufficient data (-1). Message: Insufficient data. ERRORCODE=-4499,
SQLSTATE=08001 at com.ibm.db2.jcc.am.b7.a(b7.java:338) at
com.ibm.db2.jcc.t4.a.a(a.java:573) at com.ibm.db2.jcc.t4.a.a(a.java:557) at
com.ibm.db2.jcc.t4.a.a(a.java:552) at com.ibm.db2.jcc.t4.y.b(y.java:315) at
com.ibm.db2.jcc.t4.y.c(y.java:342) at com.ibm.db2.jcc.t4.y.c(y.java:455) at
com.ibm.db2.jcc.t4.y.v(y.java:1230) at com.ibm.db2.jcc.t4.z.a(z.java:53) at
com.ibm.db2.jcc.t4.b.c(b.java:1482) at com.ibm.db2.jcc.t4.b.b(b.java:1354) at
com.ibm.db2.jcc.t4.b.b(b.java:889) at com.ibm.db2.jcc.t4.b.a(b.java:860) at
com.ibm.db2.jcc.t4.b.a(b.java:455) at com.ibm.db2.jcc.t4.b.a(b.java:428) at
```

```
com.ibm.db2.jcc.t4.b.<init>(b.java:366) at
com.ibm.db2.jcc.DB2SimpleDataSource.getConnection(DB2SimpleDataSource.java:243) at
com.ibm.db2.jcc.DB2SimpleDataSource.getConnection(DB2SimpleDataSource.java:200) at
com.ibm.db2.jcc.DB2Driver.connect(DB2Driver.java:491) at
com.ibm.db2.jcc.DB2Driver.connect(DB2Driver.java:117) at
java.sql/java.sql.DriverManager.getConnection(DriverManager.java:677) at
java.sql/java.sql.DriverManager.getConnection(DriverManager.java:251) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.connect(AbstractJdbcSeeder.java:264) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.connect(AbstractJdbcSeeder.java:155) at
ch.konnexions.db_seeder.jdbc.ibmdb2.Ibmdb2Seeder.setupDatabase(Ibmdb2Seeder.java:104) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:348)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:142) Processing of
the script was aborted, error code=1
```

1.7 OmniSciDB

- Issue: user can not be dropped (problem with second DBSeeder run) (see [here](#)).

```
2021-07-26 09:32:44,326 [DatabaseSeeder.java] INFO Start OmniSciDB
java.sql.SQLException: Query failed :
[OmniSci.java:read:43901:TOmniSciException(error_msg:Exception: User kxn_user already
exists.))] at com.omnisci.jdbc.OmniSciStatement.executeQuery(OmniSciStatement.java:100)
at com.omnisci.jdbc.OmniSciStatement.execute(OmniSciStatement.java:238) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeSQLStmnts(AbstractJdbcSeeder.java
:1332) at
ch.konnexions.db_seeder.jdbc.omnisci.OmnisciSeeder.setupDatabase(OmnisciSeeder.java:122)
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:407)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:215) Processing of
the script was aborted, error code=1
```

1.8 trino

- Issue: all connectors: absolutely unsatisfactory performance (see [here](#)).
- Issue: 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/Static
LoggerBinder.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.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

```

- Issue: Oracle connector: Support Oracle's NUMBER data type (see [here](#)).
- Issue: DatabaseMetaData support incomplete (see [here](#)).

```

2021-07-25 15:01:28,399 [DatabaseSeeder.java] INFO Start MySQL Database via trino
java.sql.SQLFeatureNotSupportedException: imported keys not supported at
io.trino.jdbc.TrinoDatabaseMetaData.getImportedKeys(TrinoDatabaseMetaData.java:1066) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:976) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:417)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:202) Processing of
the script was aborted, error code=1

```

1.9 VoltDB

- Issue: Java 16 not yet supported

```

2021-07-26 05:41:19,299 [DatabaseSeeder.java] INFO Start VoltDB
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) Juli 26, 2021 5:41:19 AM
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) Juli 26, 2021 5:41:19 AM
org.voltcore.logging.VoltUtilLoggingLogger log SEVERE: NULL : Throwable:
java.lang.NullPointerException: Cannot invoke "io.netty_voltpatches.NinjaKeySet.size()"
because "this.m_ninjaSelectedKeys" is null Juli 26, 2021 5:43:20 AM
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$VoltSQL.execute(JDBC4Statement.java:133) at
org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:376) at
org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:387) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeSQLStmnts(AbstractJdbcSeeder.java
:1319) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropAllTablesIfExists(AbstractJdbcSeeder
.java:784) at
ch.konnexions.db_seeder.jdbc.voltdb.VoltdbSeeder.setupDatabase(VoltdbSeeder.java:105) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:407)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:269) Caused by:
org.voltdb.client.ProcCallException: Connection to database host
(localhost/127.0.0.1:21212) was lost before a response was received at
org.voltdb.client.ClientImpl.internalSyncCallProcedure(ClientImpl.java:461) at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeoutImpl(ClientImpl.java:311) at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeout(ClientImpl.java:285) at
org.voltdb.jdbc.JDBC4ClientConnection.execute(JDBC4ClientConnection.java:351) at
org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:122) ... 7 more
Processing of the script was aborted, error code=1

```

- Statement ALTER TABLE COUNTRY DROP CONSTRAINT
VOLTDDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID

```

2021-07-26 05:33:06,496 [DatabaseSeeder.java] INFO Start VoltDB WARNING: An illegal
reflective access operation has occurred WARNING: Illegal reflective access by
io.netty_voltpatches.NinjaKeySet
(file:/D:/SoftDevelopment/Projects/db_seeder/lib/voltdbclient-10.1.1.jar) to field
sun.nio.ch.SelectorImpl.selectedKeys WARNING: Please consider reporting this to the
maintainers of io.netty_voltpatches.NinjaKeySet WARNING: Use --illegal-access=warn to
enable warnings of further illegal reflective access operations WARNING: All illegal
access operations will be denied in a future release java.sql.SQLException: General
Provider Error (GRACEFUL_FAILURE): '[Ad Hoc DDL Input:1]: DDL Error: "object not found:
VOLTDDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID"' at
org.voltdb.jdbc.SQLError.get(SQLError.java:60) at
org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:143) 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.executeSQLStmnts(AbstractJdbcSeeder.java
:1319) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1216) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:417)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:269) Caused by:
org.voltdb.client.ProcCallException: [Ad Hoc DDL Input:1]: DDL Error: "object not found:
VOLTDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID" at
org.voltdb.client.ClientImpl.internalSyncCallProcedure(ClientImpl.java:461) at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeoutImpl(ClientImpl.java:311) 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
```

1.10 YugabyteDB

- Dropping primary key constraints not yet supported (see [here](#)).

```
2021-07-26 05:20:41,803 [DatabaseSeeder.java] INFO Start YugabyteDB
org.postgresql.util.PSQLException: ERROR: dropping a primary key constraint is not yet
supported at
org.postgresql.core.v3.QueryExecutorImpl.receiveErrorResponse(QueryExecutorImpl.java:243
4) at
org.postgresql.core.v3.QueryExecutorImpl.processResults(QueryExecutorImpl.java:2179) at
org.postgresql.core.v3.QueryExecutorImpl.execute(QueryExecutorImpl.java:307) at
org.postgresql.jdbc.PgStatement.executeInternal(PgStatement.java:441) at
org.postgresql.jdbc.PgStatement.execute(PgStatement.java:365) at
org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:307) at
org.postgresql.jdbc.PgStatement.executeCachedSql(PgStatement.java:293) at
org.postgresql.jdbc.PgStatement.executeWithFlags(PgStatement.java:270) at
org.postgresql.jdbc.PgStatement.execute(PgStatement.java:266) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeSQLStmnts(AbstractJdbcSeeder.java
:1319) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1216) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:417)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:274) Processing of
the script was aborted, error code=1
```

2. Version History

3.0.0

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: 2021.06 (e.g. from [Eclipse Download Page](#))
- Gradle Build Tool: 7 (e.g. from [here](#))
- Java Development Kit 15, (e.g. from [here](#))
- an environment variable called `HOME_ECLIPSE` that points to the installation directory of Eclipse IDE, e.g.: `C:\Software\eclipse\java-2021-06\eclipse`

New Features

- new control parameter `DB_SEEDER_BATCH_SIZE`: the maximum number of DML operations of type `addBatch` - `0` represents all DML operations
- new control parameter `DB_SEEDER_DROP_CONSTRAINTS`: if the value is `yes`, all constraints of the types FOREIGN KEY, PRIMARY KEY and UNIQUE KEY are removed before the first DML operation and are enabled again after the last DML operation
- TimescaleDB: DBMS 2.3.1-pg13 / JDBC PostgreSQL

Modified Features

- CockroachDB: DBMS v21.1.6
- CrateDB: DBMS 4.5.4
- Exasol: DBMS 7.0.11
- Firebird: DBMS v4.0.0
- IBM Db2 Database: JDBC 11.5.6.0
- MariaDB Server: DBMS 10.6.3
- MonetDB: JDBC 3.1.jre8
- MySQL Database: DBMS 8.0.26 / JDBC 8.0.26
- Percona Server for MySQL: DBMS 8.0.25-15
- PostgreSQL: JDBC 42.2.23
- SQLite: DBMS 3.36.0.1 / JDBC 3.36.0.1
- trino: DBMS 359 / JDBC 359
- xxx: DBMS 999 / JDBC 999

Deleted Features

n/a

2.9.1

Release Date: 12.06.2021

System Requirements

- Operating system: any Java-enabled Linux, Mac or Windows variant
- Docker Desktop Community: 3.0.4
- Eclipse IDE: 2021.03 (e.g. from [Eclipse Download Page](#))
- Gradle Build Tool: 7 (e.g. from [here](#))
- Java Development Kit 15, (e.g. 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

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

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
-

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
-

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
-

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)
-

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
-