DBSeeder - Release Notes

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

Table of Contents

1. Version History

3.0.0

Release Date: 01.08.2021

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 4.6.1

- 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

- YugabyteDB: DBMS 2.7.2.0-b216

Open issues

- CrateDB: (see here)

- H2 Database Engine: (see here)

- HSQLDB: (see here)

- IBM Db2 Database: (see here)

- OmnisciDB: (see here)

- trino: (see here)

- VoltDB: (see here)

- YugabyteDB: (see here)

Windows 10 Performance Snapshot

ticker symbol	DBMS	db type	total ms	start time	end time	host name	no. cores	operating system	total DDL ms	drop constr. ms	add constr. ms	total DML ms
hsqldb_emb	HSQLDB	embedded	3015	30.07.2021 04:34	30.07.2021 04:34	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	555	0	0	2460
h2_emb	H2 Database Engine	embedded	3536	30.07.2021 04:33	30.07.2021 04:33	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1252	0	0	2284
postgresql	PostgreSQL	client	4048	30.07.2021 06:30	30.07.2021 06:30	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	781	0	96	3267
timescale	TimescaleDB	client	4085	30.07.2021 06:32	30.07.2021 06:32	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	861	0	99	3224
mariadb	MariaDB Server	client	4119	30.07.2021 04:44	30.07.2021 04:44	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	585	0	0	3534
postgresql	PostgreSQL	client	4151	30.07.2021 05:38	30.07.2021 05:38	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	708	0	0	3443
agens	AgensGraph	client	4153	30.07.2021 06:07	30.07.2021 06:08	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	868	0	73	3285
agens	AgensGraph	client	4171	30.07.2021 04:24	30.07.2021 04:24	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	777	0	0	3394
timescale	TimescaleDB	client	4229	30.07.2021 06:05	30.07.2021 06:06	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	783	0	0	3446
sqlite	SQLite	embedded	4469	30.07.2021 05:47	30.07.2021 05:47	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	953	0	0	3516
exasol	Exasol	client	4707	30.07.2021 04:29	30.07.2021 04:29	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	705	0	0	4002
exasol	Exasol	client	4720	30.07.2021 06:10	30.07.2021 06:11	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	860	23	95	3860
sqlserver	MS SQL Server	client	5461	30.07.2021 06:31	30.07.2021 06:31	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1512	232	297	3949
cratedb	CrateDB	client	5644	30.07.2021 04:25	30.07.2021 04:25	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	2070	0	0	3574
sqlserver	MS SQL Server	client	5754	30.07.2021 05:48	30.07.2021 05:48	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1172	0	0	4582
cockroach	CockroachDB	client	5892	30.07.2021 04:24	30.07.2021 04:24	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1006	0	0	4886
cubrid	CUBRID	client	6379	30.07.2021 04:26	30.07.2021 04:26	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	474	0	0	5905
mysql	MySQL Database	client	6776	30.07.2021 04:46	30.07.2021 04:47	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	823	0	0	5953
percona	Percona Server for MySQL	client	6927	30.07.2021 05:37	30.07.2021 05:37	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	792	0	0	6135
cubrid	CUBRID	client	6933	30.07.2021 06:08	30.07.2021 06:08	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	708	114	108	6225
h2	H2 Database Engine	client	7726	30.07.2021 04:32	30.07.2021 04:33	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	523	0	0	7203
mariadb	MariaDB Server	client	8291	30.07.2021 06:23	30.07.2021 06:23	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	4880	4192	127	3411
mimer	Mimer SQL	client	9227	30.07.2021 06:24	30.07.2021 06:24	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	856	154	188	8371
monetdb	MonetDB	client	9541	30.07.2021 06:24	30.07.2021 06:24	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1425	0	130	8116
mimer	Mimer SQL	client	9568	30.07.2021 04:45	30.07.2021 04:45	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	529	0	0	9039
monetdb	MonetDB	client	12891	30.07.2021 04:45	30.07.2021 04:45	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1331	0	0	11560
yugabyte	YugabyteDB	client	12892	30.07.2021 09:41	30.07.2021 09:41	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	6420	0	0	6472
oracle	Oracle Database	client	13054	30.07.2021 05:08	30.07.2021 05:08	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1005	0	0	12049
voltdb	VoltDB	client	14397	30.07.2021 06:06	30.07.2021 06:06	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	3686	0	0	10711
oracle	Oracle Database	client	15485	30.07.2021 06:28	30.07.2021 06:28	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	3723	158	2677	11762
derby_emb	Apache Derby	embedded	15585	30.07.2021 04:27	30.07.2021 04:27	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	6878	0	0	8707
derby	Apache Derby	client	17081	30.07.2021 04:27	30.07.2021 04:27	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	3373	0	0	13708
hsqldb	HSQLDB	client	17651	30.07.2021 04:33	30.07.2021 04:34	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	622	0	0	17029
percona	Percona Server for MySQL	client	19008	30.07.2021 06:29	30.07.2021 06:30	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	12938	11988	187	6070
mysql	MySQL Database	client	19735	30.07.2021 06:25	30.07.2021 06:26	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	13644	12664	178	6091
informix	IBM Informix	client	20188	30.07.2021 04:43	30.07.2021 04:43	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1971	0	0	18217
informix	IBM Informix	client	20438	30.07.2021 06:22	30.07.2021 06:23	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	2130	53	187	18308
ibmdb2	IBM Db2 Database	client	22617	30.07.2021 04:39	30.07.2021 04:39	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	3330	0	0	19287
ibmdb2	IBM Db2 Database	client	25192	30.07.2021 06:18	30.07.2021 06:18	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	4499	1064	342	20693
omnisci	OmniSciDB	client	37797	30.07.2021 05:05	30.07.2021 05:06	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	5082	0	0	32715
firebird	Firebird	client	73823	30.07.2021 06:11	30.07.2021 06:13	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1450	313	154	72373
firebird	Firebird	client	87003	30.07.2021 04:30	30.07.2021 04:32	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	941	0	0	86062
postgresql_trino	PostgreSQL	trino	472097	30.07.2021 05:39	30.07.2021 05:47	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	737	0	0	471360
mysql_trino	MySQL Database	trino	945684	30.07.2021 04:48	30.07.2021 05:04	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1561	0	0	944123
sqlserver_trino	MS SQL Server	trino	950590	30.07.2021 05:49	30.07.2021 06:05	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	1055	0	0	949535
oracle_trino	Oracle Database	trino	1503204	30.07.2021 05:11	30.07.2021 05:36	jfww-win-dt-21	32	amd64 / Windows 10 / 10.0	908	0	0	1502296

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 Enginge (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

2.15.10

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

2.15.8

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)

2.15.5

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

2.14.0

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

2.13.0

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

2.12.0

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

2.11.2

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

2.11.0

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

2.8.3

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

2.6.0

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

2.5.0

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

2.4.0

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

2.3.0

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

2.2.0

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

2.1.0

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

2.0.0

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

---

2. Open Issues

CrateDB

- Issue: dropping constraints is currently very limited, see here

H2 Database Engine

- Issue: dropping unique key constraints - SQL statement ALTER TABLE COUNTRY DROP CONSTRAINT CONSTRAINT_INDEX_6 (see here):

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);

2021-07-29 11:48:34,901 [DatabaseSeeder.java] INFO Start H2 Database Engine [client] org.h2.jdbc.JdbcSQLSyntaxErrorException: 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.executeSQLStmnts(AbstractJdbcSeeder.java:1309) at ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.java:1206) at ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:408) at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:154) Processing of the script was aborted, error code=1

HSQLDB

- Issue: dropping unique key constraints - SQL statement ALTER TABLE COUNTRY DROP CONSTRAINT SYS_IDX_SYS_PK_10289_10293 (see here):

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, CONSTRAINT SYS_PK_10095 PRIMARY KEY (PK_COUNTRY_ID)); CREATE UNIQUE INDEX SYS_IDX_SYS_CT_10098_10103 ON PUBLIC.KXN_SCHEMA.COUNTRY (NAME); CREATE UNIQUE INDEX SYS_IDX_SYS_PK_10095_10099 ON PUBLIC.KXN_SCHEMA.COUNTRY (PK_COUNTRY_ID);

2021-07-29 12:37:21,595 [DatabaseSeeder.java] INFO Start HSQLDB [client] java.sql.SQLSyntaxErrorException: user lacks privilege or object not found: SYS_IDX_SYS_PK_10289_10293 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.executeSQLStmnts(AbstractJdbcSeeder.java
:1309) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1206) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:408)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:166) Caused by:
org.hsqldb.HsqlException: user lacks privilege or object not found:
SYS_IDX_SYS_PK_10289_10293 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
```

IBM Db2 Database

- Issue: Docker Image from `docker pull ibmcom/db2:11.5.6.0`:

```
2021-07-29 13:09:33,884 [DatabaseSeeder.java] INFO Start IBM Db2 Database
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:321) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.connect(AbstractJdbcSeeder.java:212) at
ch.konnexions.db_seeder.jdbc.ibmdb2.Ibmdb2Seeder.setupDatabase(Ibmdb2Seeder.java:92) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:399)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:178) Processing of
the script was aborted, error code=1
```

OmniSciDB

- Issue: connection problem with existing OmnisciDB (see here).

```
2021-07-29 13:52:13,809 [DatabaseSeeder.java] INFO Start OmniSciDB
java.sql.SQLException: Omnisci connection failed -
[OmniSci.java:read:15275:TOmniSciException(error_msg:Sqlite3 Error: disk I/O error)] at
com.omnisci.jdbc.OmniSciConnection.<init>(OmniSciConnection.java:460) at
com.omnisci.jdbc.OmniSciDriver.connect(OmniSciDriver.java:80) at
java.sql/java.sql.DriverManager.getConnection(DriverManager.java:677) at
java.sql/java.sql.DriverManager.getConnection(DriverManager.java:228) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.connect(AbstractJdbcSeeder.java:326) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.connect(AbstractJdbcSeeder.java:275) at
ch.konnexions.db_seeder.jdbc.omnisci.OmnisciSeeder.setupDatabase(OmnisciSeeder.java:93)
at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:399)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:220) Caused by:
TOmniSciException(error_msg:Sqlite3 Error: disk I/O error) at
com.omnisci.thrift.server.OmniSci$connect_result$connect_resultStandardScheme.read(OmniS
ci.java:15275) at
com.omnisci.thrift.server.OmniSci$connect_result$connect_resultStandardScheme.read(OmniS
ci.java:15253) at
com.omnisci.thrift.server.OmniSci$connect_result.read(OmniSci.java:15195) at
org.apache.thrift.TServiceClient.receiveBase(TServiceClient.java:88) at
com.omnisci.thrift.server.OmniSci$Client.recv_connect(OmniSci.java:406) at
com.omnisci.thrift.server.OmniSci$Client.connect(OmniSci.java:391) at
com.omnisci.jdbc.OmniSciConnection.setSession(OmniSciConnection.java:431) at
com.omnisci.jdbc.OmniSciConnection.<init>(OmniSciConnection.java:452) ... 8 more
Processing of the script was aborted, error code=1
```

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/Stati
cLoggerBinder.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.SQLSyntaxErrorException:
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: TrinoDatabaseMetaData support incomplete (see here).

```
2021-07-29 14:10:36,559 [DatabaseSeeder.java] INFO Start PostgreSQL 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:965) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:408)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:250) Processing of
the script was aborted, error code=1
```

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
```

- Issue: dropping primary key constraints (see here):

1. DDL Statement: CREATE TABLE

```
CREATE TABLE COUNTRY ( COUNTRY_MAP VARBINARY(1048576), CREATED TIMESTAMP NOT NULL,
ISO3166 VARCHAR(50), MODIFIED TIMESTAMP, NAME VARCHAR(100) NOT NULL, PK_COUNTRY_ID
BIGINT NOT NULL, CONSTRAINT VOLTDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID PRIMARY KEY
(PK_COUNTRY_ID) ); CREATE UNIQUE INDEX VOLTDB_AUTOGEN_IDX_CT_COUNTRY_NAME ON COUNTRY
(NAME); CREATE UNIQUE INDEX VOLTDB_AUTOGEN_IDX_PK_COUNTRY_PK_COUNTRY_ID ON COUNTRY
(PK_COUNTRY_ID);
```

2. DDL Statement: DROP CONSTRAINT

```
ALTER TABLE COUNTRY DROP CONSTRAINT VOLTDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID
```

3. Error message:

```
2021-07-29 15:12:59,724 [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:
VOLTDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID"' at
org.voltdb.jdbc.SQLError.get(SQLError.java:60) at
org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:143) at
org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:376) at
org.voltdb.jdbc.JDBC4Statement.execute(JDBC4Statement.java:387) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.executeSQLStmnts(AbstractJdbcSeeder.java
:1337) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.dropTableConstraints(AbstractJdbcSeeder.
java:1207) at
ch.konnexions.db_seeder.jdbc.AbstractJdbcSeeder.createData(AbstractJdbcSeeder.java:408)
at ch.konnexions.db_seeder.DatabaseSeeder.main(DatabaseSeeder.java:280) Caused by:
org.voltdb.client.ProcCallException: [Ad Hoc DDL Input:1]: DDL Error: "object not found:
VOLTDB_AUTOGEN_CT__PK_COUNTRY_PK_COUNTRY_ID" at
org.voltdb.client.ClientImpl.internalSyncCallProcedure(ClientImpl.java:461) at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeoutImpl(ClientImpl.java:311) at
org.voltdb.client.ClientImpl.callProcedureWithClientTimeout(ClientImpl.java:285) at
org.voltdb.jdbc.JDBC4ClientConnection.execute(JDBC4ClientConnection.java:351) at
org.voltdb.jdbc.JDBC4Statement$VoltSQL.execute(JDBC4Statement.java:122) ... 6 more
Processing of the script was aborted, error code=1
```

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
```