

DBSeeder - Release Notes

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

Version 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

- Apache Derby: (see [here](#))

- H2 Database Engine: (see [here](#))
- HSQLDB: (see [here](#))
- IBM Db2 Database: (see [here](#))
- OmniSciDB: (see [here](#))
- trino: (see [here](#))
- VoltDB: (see [here](#))

Windows 10 Performance Snapshot

DBMS	Type	ms	Constraints	Improvement
HSQLDB	embedded	3'015	active - no choice	
H2 Database Engine	embedded	3'536	active - no choice	
PostgreSQL	client	4'048	inactive	2%
TimescaleDB	client	4'085	inactive	3%
MariaDB Server	client	4'119	active	-101%
AgensGraph	client	4'153	inactive	0%
SQLite	embedded	4'469	active - no choice	
Exasol	client	4'707	active	0%
MS SQL Server	client	5'461	inactive	5%
CrateDB	client	5'644	active - no choice	
CockroachDB	client	5'892	active - no choice	
CUBRID	client	6'379	active	-9%
MySQL Database	client	6'776	active	-191%
Percona Server for MySQL	client	6'927	active	-174%
H2 Database Engine	client	7'726	active - no choice	
Mimer SQL	client	9'227	inactive	4%
MonetDB	client	9'541	inactive	26%
YugabyteDB	client	12'892	active - no choice	
Oracle Database	client	13'054	active	-19%
VoltDB	client	14'397	active - no choice	
Apache Derby	embedded	15'585	active - no choice	
Apache Derby	client	17'081	active - no choice	
HSQLDB	client	17'651	active - no choice	
IBM Informix	client	20'188	active	-1%
IBM Db2 Database	client	22'617	active	-11%
OmniSciDB	client	37'797	active - no choice	
Firebird	client	73'823	inactive	15%
PostgreSQL	trino	472'097	active - no choice	
MySQL Database	trino	945'684	active - no choice	
MS SQL Server	trino	950'590	active - no choice	
Oracle Database	trino	1'503'204	active - no choice	

- **DBMS** - official DBMS name
- **Type** - client version, embedded version or via trino
- **ms** - total time of DDL and DML operations in milliseconds
- **Constraints** - DML operations with active or inactive constraints (foreign, primary and unique key)
- **Improvment** - improvement of total time if constraints are inactive

Detailed Open Issues

Apache Derby

- Issue: dropping unique key constraints - SQL statement `ALTER TABLE COUNTRY_STATE DROP UNIQUE "SQL000000166-6f554487-017a-f4fd-c9dc-00000016e126" 0`(see [here](#)):

H2 Database Engine

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

HSQldb

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

IBM Db2 Database

- Issue: Docker Image from `docker pull ibmcom/db2:11.5.6.0` (see [here](#)):

OmniSciDB

- Issue: connection problem with existing Omnisdb (see [here](#)).

trino

- Issue: all connectors: absolutely unsatisfactory performance (see [here](#)).
- Issue: Oracle connector: Oracle session not disconnected (see [here](#)).
- Issue: Oracle connector: Support Oracle's NUMBER data type (see [here](#)).

VoltDB

- Issue: Java 16 not yet supported: `java.lang.NullPointerException: Cannot invoke "io.netty.voltpatches.NinjaKeySet.size()" because "this.m_ninjaSelectedKeys" is null`
 - Issue: dropping primary key constraints (see [here](#)):
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