DB 2

The DdlUtils support for IBM DB2 is based upon version **7**. The datatypes and SQL elements in DB2 are described in the DB2 SQL Reference V7. Some specifics related to the JDBC driver and suggested typemappings can also be found here.

DdlUtils provides two platforms for DB2, one for version 7 and one for version 8 and above, which mainly differ in the maximum identifier lengths (see below for details.) Note that you have to specify the v8 platform manually as the auto detection currently always selects the v7 platform.

Platform identifiers:

- `DB2` for the v7 platform
- `DB2v8` for the v8 platform

Recognized JDBC drivers:

- `com.ibm.db2.jcc.DB2Driver`
- `COM.ibm.db2.jdbc.app.DB2Driver`
- `COM.ibm.db2os390.sqlj.jdbc.DB2SQLJDriver`
- `com.ibm.as400.access.AS400JDBCDriver`

Recognized JDBC sub protocols:

- `jdbc:db2`
- `jdbc:db2os390`
- `jdbc:2os390sqlj`
- `jdbc:as400`

The database supports SQL comments	yes
The database supports delimited identifiers	yes
The database's maximum identifier length	18 for the v7 platform The v8 platform supports 128 characters for identifiers (e.g. table names), 30 characters for column names, and 18 for constraints and foreign keys

The database supports default values for `LONG` types	yes
DdlUtils uses sequences for identity columns	no
The database supports non-primary key columns as identity columns	yes
The database allows INSERT/UPDATE statements to set values for identity columns	yes
DdlUtils can read back the auto-generated value of an identity column	yes
The database supports non-unique indices	yes
DdlUtils can create a database via JDBC	no
DdlUtils can drop a database via JDBC	no

JDBC Type	Database Type	Additional comments
ARRAY	BLOB	Will be read back as BLOB
BIGINT	BIGINT	
BINARY	CHAR(n) FOR BIT DATA	
BIT	SMALLINT	DB2 has no native boolean type Will be read back as SMALLINT
BLOB	BLOB	
BOOLEAN	SMALLINT	DB2 has no native boolean type Will be read back as SMALLINT
CHAR	CHAR	
CLOB	CLOB	
DATALINK	DATALINK	
DATE	DATE	
DECIMAL	DECIMAL	
DISTINCT	DISTINCT	
DOUBLE	DOUBLE	

FLOAT	DOUBLE	
INTEGER	INTEGER	
JAVA_OBJECT	BLOB	Will be read back as BLOB
LONGVARBINARY	LONG VARCHAR FOR BIT DATA	
LONGVARCHAR	LONG VARCHAR	
NULL	LONG VARCHAR FOR BIT DATA	Will be read back as LONGVARBINARY
NUMERIC	DECIMAL	Will be read back as DECIMAL
OTHER	BLOB	Will be read back as BLOB
REAL	REAL	
REF	REF	
SMALLINT	SMALLINT	
STRUCT	BLOB	Will be read back as BLOB
TIME	TIME	
TIMESTAMP	TIMESTAMP	
TINYINT	SMALLINT	Will be read back as SMALLINT
VARBINARY	VARCHAR(n) FOR BIT DATA	
VARCHAR	VARCHAR	