MySQL

MySQL is supported from version **3.23** onwards. Note that the major versions (3, 4, 5) differ in their datatype support. The supported SQL syntax and datatypes can be found in the MySQL Reference Manual.

DdlUtils provides two platforms, one for MySql versions 3 and 4, and one for MySql version 5 and above. The latter implements some aspects of reading back a model from the database differently to address some changes in MySql 5.

Platform identifiers:

- `MySQL`
- `MySQL5`

Recognized JDBC drivers:

- `com.mysql.jdbc.Driver`
- `org.gjt.mm.mysql.Driver`

Recognized JDBC sub protocol:

- `jdbc:mysql`

The database supports SQL comments	yes
The database supports delimited identifiers	yes
The database's maximum identifier length	64
The database supports default values for `LONG` types	no
DdlUtils uses sequences for identity columns	no
The database supports non-primary key columns as identity columns	no
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	LONGBLOB	Will be read back as LONGVARBINARY
BIGINT	BIGINT	
BINARY	BINARY	
BIT	TINYINT(1)	MySQL has no native boolean type
BLOB	LONGBLOB	Will be read back as LONGVARBINARY
BOOLEAN	TINYINT(1)	MySQL has no native boolean type Will be read back as BIT
CHAR	CHAR	
CLOB	LONGTEXT	Will be read back as LONGVARCHAR
DATALINK	MEDIUMBLOB	Will be read back as LONGVARBINARY
DATE	DATE	
DECIMAL	DECIMAL	
DISTINCT	LONGBLOB	Will be read back as LONGVARBINARY
DOUBLE	DOUBLE	
FLOAT	DOUBLE	Will be read back as DOUBLE
INTEGER	INTEGER	
JAVA_OBJECT	LONGBLOB	Will be read back as LONGVARBINARY
LONGVARBINARY	MEDIUMBLOB	

LONGVARCHAR	MEDIUMTEXT	
NULL	MEDIUMBLOB	Will be read back as LONGVARBINARY
NUMERIC	DECIMAL	Will be read back as DECIMAL
OTHER	LONGBLOB	Will be read back as LONGVARBINARY
REAL	FLOAT	MySQL has a REAL datatype that is per default an alias for DOUBLE, though it might be mapped to FLOAT via configuration of the server. Therefore, DdlUtils explicitly uses FLOAT.
REF	MEDIUMBLOB	Will be read back as LONGVARBINARY
SMALLINT	SMALLINT	
STRUCT	LONGBLOB	Will be read back as LONGVARBINARY
TIME	TIME	
TIMESTAMP	DATETIME	TIMESTAMP is not a stable MySQL datatype yet, and it does not support a higher precision than DATETIME (year to seconds) as of MySQL 5, DdlUtils maps the JDBC type to DATETIME instead.
TINYINT	SMALLINT	In MySQL, TINYINT only has a range of -128 to +127. This DdlUtils uses SMALLINT instead. Will be read back as SMALLINT
VARBINARY	VARBINARY	
VARCHAR	VARCHAR	