

Derby/Cloudscape

DdlUtils supports [Cloudscape](#) version 10.0. Information about the SQL elements and datatypes of Cloudscape is found in the [IBM Cloudscape Reference Manual](#).

The [Apache Derby](#) project is based upon Cloudscape version 10, which IBM contributed to Apache in 2004. The SQL syntax and datatypes supported by Derby are described in the Datatypes section in the [Reference Manual](#).

Note:

Because development and support of Cloudscape has ended in favor of Derby, the DdlUtils support for Cloudscape is legacy and will likely be removed in future versions. If you use Cloudscape we strongly suggest that you update to Derby.

Platform identifiers:

- Derby for the Derby platform
- Cloudscape for the Cloudscape platform

Recognized JDBC drivers:

- `org.apache.derby.jdbc.ClientDriver` (Derby)
- `org.apache.derby.jdbc.EmbeddedDriver` (Derby)

Recognized JDBC sub protocols:

- `jdbc:derby` (Derby)
- `jdbc:db2j:net` (Cloudscape)
- `jdbc:cloudscape:net` (Cloudscape)

The database supports SQL comments	yes
The database supports delimited identifiers	yes
The database's maximum identifier length	128
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	yes
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	Cloudscape/Derby have no native boolean type Will be read back as SMALLINT
BLOB	BLOB	
BOOLEAN	SMALLINT	Cloudscape/Derby have no native boolean type Will be read back as BOOLEAN
CHAR	CHAR	
CLOB	CLOB	
DATALINK	LONG VARCHAR FOR BIT DATA	Will be read back as LONGVARBINARY
DATE	DATE	
DECIMAL	DECIMAL	
DISTINCT	BLOB	Will be read back as BLOB
DOUBLE	Cloudscape: DOUBLE PRECISION Derby: DOUBLE	
FLOAT	Cloudscape: DOUBLE PRECISION	Will be read back as DOUBLE

	Derby: 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	NUMERIC	
OTHER	BLOB	Will be read back as BLOB
REAL	REAL	
REF	LONG VARCHAR FOR BIT DATA	Will be read back as LONGVARBINARY
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	