

ClustrixDB DDL

- [Supported DDL](#)
- [Unsupported DDL](#)
- [Caveats to DDL Support](#)

All DDL is performed online. See also [Online Schema Changes](#)

Supported DDL

ClustrixDB supports standard MySQL DDL to CREATE, ALTER, and DROP objects, always with [online schema changes](#). See below list of caveats.

ClustrixDB-specific DDL

ClustrixDB also supports the following ClustrixDB-specific DDL:

- [ALTER CLUSTER](#)
- [DISTRIBUTE](#)
- [SLICES](#)
- [REPLICAS](#)

Executable Comments

ClustrixDB executes comments using the format:

```
/*$ clustrix-specific  
comment */
```

These comments are ignored by other databases. ClustrixDB does not execute any other format of comments.

Unsupported DDL

ClustrixDB does not support:

- ALTER TABLE...CONVERT
- CREATE SEQUENCE
- CREATE VIEW ... WITH CHECK OPTION

Caveats to DDL Support

CREATE

- ClustrixDB accepts the syntax for CREATE TABLE with CHECK CONSTRAINT, but no constraint checking is performed.
- ALTER TABLE does not support the CHECK CONSTRAINT syntax.
- ClustrixDB accepts the syntax for ROW_FORMAT=COMPRESSED but does not support compression.
- ClustrixDB allows longer unique keys than MySQL.
- ClustrixDB allows specifying the position of a default ENUM value, e.g.
`CREATE TABLE CountryLanguage (id INT, IsOfficial enum('T','F') NOT NULL default 1);`
results in a default value of 'T'.
- ClustrixDB allows specifying a default value for ENUM that is not in the list of possible values, e.g. `CREATE TABLE Sunny (Pig ENUM ('little', 'big') DEFAULT 'pink');`
- ClustrixDB does not trim trailing whitespaces in ENUM values.
- ClustrixDB does not raise an error if a NOT NULL column specifies NULL as the default value but treats the columns as NOT NULL.
- Clustrix does not recommend using the FLOAT data type for primary keys.
- ClustrixDB does not error if the length for DECIMAL exceeds the maximum precision and will silently truncate, even if STRICT_TRANS_TABLES is enabled.
- CREATE TABLE does not raise an error when the default value for an INT type field is set to a quoted string. However, inserts with the default value will be cast to 0.
- The % wild card is not supported in database names.

SHOW

- ClustrixDB does not support WHERE clauses as part of SHOW COLUMNS or SHOW FIELDS

- After an unconstrained DELETE, the auto_increment value for a table will appear to be incorrect when viewed via SHOW CREATE TABLE. The value will be properly reset once the next auto_increment value is used.

Caveats for Views

- If you create a view using SELECT *, the view definition will change if the underlying table definition changes.
- ClustrixDB will accept the syntax for the ALGORITHM option for views, but does not apply any algorithms.
- When using DESCRIBE on a view, if the underlying column has a default value of 0, ClustrixDB will display NULL instead.

DROP

- DROP TABLE will not wait for other sessions to commit transactions before proceeding with dropping the table.
- ClustrixDB does not support dropping primary keys via DROP INDEX `PRIMARY`
- To drop a primary key, specify LOCK=SHARED as part of the ALTER statement:

```
sql> ALTER TABLE T1 DROP PRIMARY KEY,  
LOCK=SHARED;
```

Other caveats for DDL

- % wild cards are not supported in database names.

See also:

- [Foreign Keys](#)
- [Invisible Indexes](#)
- [Partitioned Tables](#)
- [Generated Columns](#)
- [Online Schema Changes](#)