

# SQL\_MODE

## SQL\_MODE values:

ClustrixDB provides support for the following values for SQL\_MODE:

- NO\_AUTO\_VALUE\_ON\_ZERO
- STRICT\_TRANS\_TABLES (default)
- STRICT\_ALL\_TABLES

## Setting SQL\_MODE

SQL\_MODE can be set via a variable for a session (affects only the current client), or globally (which affects new sessions). For more information, see [Global Variables](#). The global variable for SQL\_MODE can capture multiple modes:


```
sql> set sql_mode = "STRICT_ALL_TABLES,STRICT_TRANS_TABLES";
```

## Caveats for SQL\_MODE:

- Since all tables are transactional with ClustrixDB, STRICT\_TRANS\_TABLES and STRICT\_ALL\_TABLES are equivalent
- STRICT\_TRANS\_TABLES and STRICT\_ALL\_TABLES are not as strict as MySQL and do not enforce types or validate when values are out of range

See also warning below about unsupported values.

## Unsupported SQL\_MODES:

Attempting to set SQL\_MODE to an unsupported value will result in a NULL value being set. ClustrixDB does not warn on unsupported values for SQL\_MODE. 

Clustrix does not support the following values for SQL\_MODE:

- ALLOW\_INVALID\_DATES
- ANSI
- ANSI\_QUOTES
- DB2
- EMPTY\_STRING\_IS\_NULL
- ERROR\_FOR\_DIVISION\_BY\_ZERO
- HIGH\_NOT\_PRECEDENCE
- IGNORE\_BAD\_TABLE\_OPTIONS
- IGNORE\_SPACE
- MAXDB
- MSSQL
- MYSQL323
- MYSQL40
- NO\_AUTO\_CREATE\_USER
- NO\_AUTO\_VALUE\_ON\_ZERO
- NO\_BACKSLASH\_ESCAPES
- NO\_DIR\_IN\_CREATE
- NO\_ENGINE\_SUBSTITUTION
- NO\_FIELD\_OPTIONS
- NO\_KEY\_OPTIONS
- NO\_TABLE\_OPTIONS
- NO\_UNSIGNED\_SUBTRACTION
- NO\_ZERO\_DATE
- NO\_ZERO\_IN\_DATE
- ONLY\_FULL\_GROUP\_BY
- ORACLE
- PAD\_CHAR\_TO\_FULL\_LENGTH
- PIPES\_AS\_CONCAT
- POSTGRESQL
- REAL\_AS\_FLOAT
- SIMULTANEOUS\_ASSIGNMENT
- SIMULTANEOUS\_ASSIGNMENT
- TIME\_ROUND\_FRACTIONAL
- TRADITIONAL