# **MySQL Chitsheet**

## With SYNTAX and Example

**Setting environment for using XAMPP for Windows.**

**Administrator@PC118 c:\xampp**

**# cd mysql**

***//change directory***

**Administrator@PC118 c:\xampp\mysql  
//SYNTAX => mysql -u <username> -p <password>**

**# mysql -u root**

**Welcome to the MariaDB monitor. Commands end with ; or \g.**

**↑↑ note ↑↑**

**Your MariaDB connection id is 15**

**Server version: 10.4.17-MariaDB mariadb.org binary distribution**

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**Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.**

**//Display databases**

**MariaDB [(none)]> show databases;**

**+--------------------+**

**| Database |**

**+--------------------+**

**| information\_schema |**

**| mysql |**

**| performance\_schema |**

**| phpmyadmin |**

**| test |**

**| vishal |**

**+--------------------+**

**6 rows in set (0.001 sec)**

**//Delete database**

**//SYNTAX => drop database <database\_name>;**

**MariaDB [(none)]> drop database vishal;**

**Query OK, 0 rows affected (0.001 sec)**

**//Display databases**

**MariaDB [(none)]> show databases;**

**+--------------------+**

**| Database |**

**+--------------------+**

**| information\_schema |**

**| mysql |**

**| performance\_schema |**

**| phpmyadmin |**

**| test |**

**+--------------------+**

**5 rows in set (0.001 sec)**

**//create new database**

**//SYNTAX => create database <database\_name>;**

**MariaDB [(none)]> create database vishal;**

**Query OK, 1 row affected (0.001 sec)**

**//Display databases**

**MariaDB [(none)]> show databases;**

**+--------------------+**

**| Database |**

**+--------------------+**

**| information\_schema |**

**| mysql |**

**| performance\_schema |**

**| phpmyadmin |**

**| test |**

**| vishal |**

**+--------------------+**

**6 rows in set (0.001 sec)**

**//selecting database (then work it)**

**//SYNTAX => use <database\_name>;**

**MariaDB [(none)]> use vishal;**

**Database changed**

**//create new table**

**//SYNTAX => create table <table\_name>(<field1\_name> <datatype(size)>, <field2\_name> <datatype(size)>, ...);**

**MariaDB [vishal]> create table student (srno int(2), surname varchar(20), name varchar(20), city varchar(30));**

**//int(2) mins max 99 size and varchar(20) mins 20 max character**

**Query OK, 0 rows affected (0.037 sec)**

**//Descride table**

**//SYNTAX => desc <table\_name>;**

**MariaDB [vishal]> desc student;**

**//This will display information about each column in the table, including the column name, data type, length, and any other relevant attributes.**

**+---------+-------------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+---------+-------------+------+-----+---------+-------+**

**| srno | int(2) | YES | | NULL | |**

**| surname | varchar(20) | YES | | NULL | |**

**| name | varchar(20) | YES | | NULL | |**

**| city | varchar(30) | YES | | NULL | |**

**+---------+-------------+------+-----+---------+-------+**

**4 rows in set (0.023 sec)**

**//inserting the records in the table**

**//SYNTAX => insert into <table\_name>(<field1>,<field2,...) values(<fiels1\_value>,<field2\_value>,...);**

**MariaDB [vishal]> insert into student (srno,surname,name,city) values(1, "chudasama", "vishal", "rajkot");**

**//if field values datatype varchar then useing “ and ‘ code**

**Query OK, 1 row affected (0.004 sec)**

**//Display table record**

**//SYNTAX => select \* from <table\_name>;**

**MariaDB [vishal]> select \* from student;**

**//using it \* then display table all record**

**+------+-----------+--------+--------+**

**| srno | surname | name | city |**

**+------+-----------+--------+--------+**

**| 1 | chudasama | vishal | rajkot |**

**+------+-----------+--------+--------+**

**1 row in set (0.000 sec)**

**MariaDB [vishal]> insert into student(srno, surname, name) values(2, "CBA", "ABC");**

**Query OK, 1 row affected (0.008 sec)**

**//Display table specific field record**

**//SYNTAX => select <field\_name> from <table\_name>;**

**MariaDB [vishal]> select surname from student;**

**+-----------+**

**| surname |**

**+-----------+**

**| chudasama |**

**| CBA |**

**+-----------+**

**2 rows in set (0.000 sec)**

**MariaDB [vishal]> select surname,name from student;**

**+-----------+--------+**

**| surname | name |**

**+-----------+--------+**

**| chudasama | vishal |**

**| CBA | ABC |**

**+-----------+--------+**

**2 rows in set (0.000 sec)**

**MariaDB [vishal]> select city,surname,name,srno from student;**

**+----------+-----------+--------+------+**

**| city | surname | name | srno |**

**+----------+-----------+--------+------+**

**| kotadiya | chudasama | vishal | 1 |**

**| NULL | CBA | ABC | 2 |**

**+----------+-----------+--------+------+**

**2 rows in set (0.000 sec)**

**//where નો ઉંપ્યોગ કરીને પછી comparison operators (e.g., =, <, >, <>, <=, >=, LIKE, IN, etc.), logical operators (e.g., AND, OR, NOT), નો ઉંપ્યોગ કરી સકાય છે**

**MariaDB [vishal]> select \* from student where name='vishal';**

**//તે જ display કરો જેમાં name નામની field મા vishal હોય**

**+------+-----------+--------+----------+**

**| srno | surname | name | city |**

**+------+-----------+--------+----------+**

**| 1 | chudasama | vishal | kotadiya |**

**+------+-----------+--------+----------+**

**1 row in set (0.011 sec)**

**MariaDB [vishal]> select \* from student where city='null';**

**Empty set (0.001 sec)**

**MariaDB [vishal]> select \* from student where srno=2;**

**+------+---------+------+------+**

**| srno | surname | name | city |**

**+------+---------+------+------+**

**| 2 | CBA | ABC | NULL |**

**+------+---------+------+------+**

**1 row in set (0.004 sec)**

**//Using and or operator**

**MariaDB [vishal]> select \* from student where srno=2 or name='abc';**

**//તે જ display કરો જેમાં srono=2 or name=’abc’ હોય**

**+------+---------+------+------+**

**| srno | surname | name | city |**

**+------+---------+------+------+**

**| 2 | CBA | ABC | NULL |**

**+------+---------+------+------+**

**1 row in set (0.001 sec)**

**MariaDB [vishal]> select \* from student where srno=2 and name='abc';**

**+------+---------+------+------+**

**| srno | surname | name | city |**

**+------+---------+------+------+**

**| 2 | CBA | ABC | NULL |**

**+------+---------+------+------+**

**1 row in set (0.000 sec)**

**MariaDB [vishal]> select \* from student where srno=2 and srno=1;**

**//એકપણ એવી row નથી જેમાં srno=2 and(અને) srno=1 (બંને એકજ row મા હોય તેમ નથી)**

**Empty set (0.000 sec)**

**MariaDB [vishal]> select \* from student where srno=2 or srno=1;**

**//srno=2 and(અને) srno=1 હોય તેવી આઆ બે(નીચે ની) row છે**

**+------+-----------+--------+----------+**

**| srno | surname | name | city |**

**+------+-----------+--------+----------+**

**| 1 | chudasama | vishal | kotadiya |**

**| 2 | CBA | ABC | NULL |**

**+------+-----------+--------+----------+**

**2 rows in set (0.000 sec)**

**MariaDB [vishal]> insert into student(srno,surname,name,city) value(3,"FED","DEF","EDF");**

**Query OK, 1 row affected (0.005 sec)**

**MariaDB [vishal]> insert into student(srno,surname,name,city) value(4,"DSA","ASD","SAD");**

**Query OK, 1 row affected (0.005 sec)**

**MariaDB [vishal]> insert into student(srno,surname,name,city) value(5,"CXZ","ZXC","XZC");**

**Query OK, 1 row affected (0.005 sec)**

**MariaDB [vishal]> select \* from student;**

**+------+-----------+--------+----------+**

**| srno | surname | name | city |**

**+------+-----------+--------+----------+**

**| 1 | chudasama | vishal | kotadiya |**

**| 2 | CBA | ABC | NULL |**

**| 3 | FED | DEF | EDF |**

**| 4 | DSA | ASD | SAD |**

**| 5 | CXZ | ZXC | XZC |**

**+------+-----------+--------+----------+**

**5 rows in set (0.000 sec)**

**MariaDB [vishal]> select surname,name,srno from student where srno>=2 and srno<=5;**

**+---------+------+------+**

**| surname | name | srno |**

**+---------+------+------+**

**| CBA | ABC | 2 |**

**| FED | DEF | 3 |**

**| DSA | ASD | 4 |**

**| CXZ | ZXC | 5 |**

**+---------+------+------+**

**4 rows in set (0.000 sec)**

**MariaDB [vishal]> select surname,name,srno from student where srno>=2 or srno<=5;**

**+-----------+--------+------+**

**| surname | name | srno |**

**+-----------+--------+------+**

**| chudasama | vishal | 1 |**

**| CBA | ABC | 2 |**

**| FED | DEF | 3 |**

**| DSA | ASD | 4 |**

**| CXZ | ZXC | 5 |**

**+-----------+--------+------+**

**5 rows in set (0.000 sec)**