

**Start service**

SERVICE MYSQL START;

**Open MySQL****Show commands**

SHOW DATABASES;

SHOW TABLES;

**Describe commands**

DESCRIBE table\_name;

**Create commands**

CREATE DATABASE database\_name;

CREATE TABLE table\_name(column1 varchar(int), ...);

**Use commands**

USE DATABASE database\_name;

**Data insertion**

INSERT INTO table\_name VALUES('value1, value2, ...');

INSERT INTO table\_name (column1, column2, ... ,columnN) VALUES('A1','B1', ... , 'N1'), ('A2','B2', ... , 'N2');

LOAD DATA LOCAL INFILE '/root/...txt' INTO TABLE table\_name;

**Modify commands**

ALTER TABLE table\_name MODIFY column\_name varchar(int);

ALTER TABLE table\_name ADD new\_column varchar(int);

UPDATE TABLE\_NAME SET new\_value = '' WHERE old\_value = '';

**Drop commands**

DROP DATABASE database\_name;

DROP TABLE table\_name;

ALTER TABLE table\_name DROP column\_name;

**Select commands**

SELECT\*FROM table\_name;

SELECT\*FROM table\_name WHERE column\_name = 'value';

SELECT\*FROM table\_name WHERE column\_name = 'value' AND column\_name = 'value';

SELECT column\_name FROM table\_name;

SELECT column1\_name, column2\_name, ...columnN\_name FROM table\_name;

SELECT column\_name, DOBcolumn FROM table\_name ORDER BY DOBcolumn ASC;

SELECT column\_name, DOBcolumn FROM table\_name ORDER BY DOBcolumn DESC;

SELECT column\_name, DOBcolumn, TIMEDIFF (YEAR,DOBcolumn,CURDATE()) AS AGEcolumn FROM table\_name; //get age from DOB column

SELECT column\_name, DOBcolumn, DATE(DOBcolumn) FROM table\_name; //get birth date

SELECT column\_name, DOBcolumn, MONTH(DOBcolumn) FROM table\_name; //get birth month

SELECT column\_name, DOBcolumn, YEAR(DOBcolumn) FROM table\_name; //get birth year

SELECT column\_name, DOBcolumn, YEAR(DOBcolumn) FROM table\_name WHERE YEAR(DOBcolumn) = 'year'; //get data of same year from dobcolumn

SELECT\*FROM table\_name WHERE NAMEcolumn LIKE 'A%'; //get names start from A

SELECT\*FROM table\_name WHERE NAMEcolumn LIKE 'A\_\_\_\_\_'; //get names start from A and have 6 characters

SELECT\*FROM table\_name WHERE NAMEcolumn LIKE '%A'; //get names end from A

SELECT column\_name FROM table name WHERE name\_column REGEXP '{A,E,I,O,U}';

**Inner join**

SELECT\*FROM table1\_name a INNER JOIN table2\_name b ON a.table1\_foreign\_key = b.table2\_foreign\_key;

**Left outer join**

SELECT\*FROM table1\_name a LEFT OUTER JOIN table2\_name b ON a.table1\_foreign\_key = b.table2\_foreign\_key;

**Right outer join**

SELECT\*FROM table1\_name a RIGHT OUTER JOIN table2\_name b ON a.table1\_foreign\_key = b.table2\_foreign\_key;

**Full outer join**

SELECT\*FROM table1\_name a FULL OUTER JOIN table2\_name b ON a.table1\_foreign\_key = b.table2\_foreign\_key;

**Cross join**

SELECT\*FROM table1 name a CROSS JOIN table2 name b ON a.table1\_foreign\_key = b.table2\_foreign\_key;

**Set primary key**

ALTER TABLE table\_name ADD PRIMARY KEY (primary\_key\_column\_name);

**Set foreign key**ALTER TABLE table\_name ADD FOREIGN KEY(foreign\_key\_column) REFERENCES table2(foreign\_key\_column) ON UPDATE CASCADE ON DELETE CASCADE;  
SET FOREIGN\_KEY\_CHECKED = 0; //CHECKES

SELECT column\_name FROM table1\_name WHERE table1\_foreign\_key IN (SELECT table2\_foreign\_key FROM table2\_name);

**Dump database**

mysqldump -u root -p database\_name &gt;'root\file\_name.sql';