Alter

1)Modify:

Syntax:

Alter table table\_name modify column column\_name datatype;

E.g:

Alter table student modify column address varchar(225);

mysql> use student\_demo;

Database changed

mysql> desc student;

+------------+-------------+------+-----+---------+-------+

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

+------------+-------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(25) | NO | | NULL | |

| percentage | float | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

4 rows in set (0.01 sec)

mysql> alter table student modify column name varchar(225);

Query OK, 5 rows affected (0.17 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(225) | YES | | NULL | |

| percentage | float | YES | | NULL | |

| address | varchar(50) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> alter table student modify column address varchar(250);

Query OK, 5 rows affected (0.10 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(225) | YES | | NULL | |

| percentage | float | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> use student\_demo;

Database changed

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(225) | YES | | NULL | |

| percentage | float | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.06 sec)

mysql> alter table student modify column name varchar(50);

Query OK, 5 rows affected (0.16 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| percentage | float | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> alter table student modify column percentage double;

Query OK, 5 rows affected (0.11 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

2) Add Column:

Syntax:

Alter table table\_name add column column\_name datatype;

E.g:

Alter table student add column email varchar(20);

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> alter table student add column email varchar(20);

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

3) Drop column:

Syntax:

Alter table table\_name drop column column\_name ;

E.g:

Alter table student drop column address;

mysql> desc student;

+--------------------+--------------+------+-----+---------+-------+

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

+--------------------+--------------+------+-----+---------+-------+

| student\_id | int | NO | PRI | NULL | |

| student\_name | varchar(20) | YES | | NULL | |

| student\_percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| state | varchar(20) | YES | | NULL | |

+--------------------+--------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

mysql> alter table student drop column address;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+--------------------+-------------+------+-----+---------+-------+

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

+--------------------+-------------+------+-----+---------+-------+

| student\_id | int | NO | PRI | NULL | |

| student\_name | varchar(20) | YES | | NULL | |

| student\_percentage | double | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| state | varchar(20) | YES | | NULL | |

+--------------------+-------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

4) Rename column:

Syntax:

Alter table table\_name change column old\_name new\_name datatype;

E.g:

Alter table student change column name student\_name varchar(20);

Alter table student change column percentage student\_percentage double;

Alter table student change column rollNo student\_id int;

mysql> desc student;

+------------+--------------+------+-----+---------+-------+

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

+------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| name | varchar(50) | YES | | NULL | |

| percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> alter table student change column name student\_name varchar(20);

Query OK, 5 rows affected (0.10 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc student;

+--------------+--------------+------+-----+---------+-------+

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

+--------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| student\_name | varchar(20) | YES | | NULL | |

| percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+--------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> alter table student change column percentage student\_percentage double;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+--------------------+--------------+------+-----+---------+-------+

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

+--------------------+--------------+------+-----+---------+-------+

| rollNo | int | NO | PRI | NULL | |

| student\_name | varchar(20) | YES | | NULL | |

| student\_percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+--------------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> alter table student change column rollNo student\_id int;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+--------------------+--------------+------+-----+---------+-------+

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

+--------------------+--------------+------+-----+---------+-------+

| student\_id | int | NO | PRI | NULL | |

| student\_name | varchar(20) | YES | | NULL | |

| student\_percentage | double | YES | | NULL | |

| address | varchar(250) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

+--------------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)