Microsoft Windows [Version 10.0.26100.3194]

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C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p

Enter password: \*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 13

Server version: 8.0.39 MySQL Community Server - GPL

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

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| pet1 |

| sys |

| wit |

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

6 rows in set (0.00 sec)

mysql> use wit;

Database changed

mysql> create table student(Id int primary key, name varchar(255), age int, roll int);

Query OK, 0 rows affected (0.07 sec)

mysql> show tables;

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

| Tables\_in\_wit |

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

| student |

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

1 row in set (0.00 sec)

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| name | varchar(255) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

4 rows in set (0.02 sec)

mysql> alter table student change name first\_name varchar(200);

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student add column last\_name varchar(200) after first\_name;

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> drop table student;

Query OK, 0 rows affected (0.04 sec)

mysql> show tables;

Empty set (0.00 sec)

mysql> create table student(

-> first\_name varchar(200),

-> last\_name varchar(200),

-> age int,

-> roll int);

Query OK, 0 rows affected (0.04 sec)

mysql> show tables;

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

| Tables\_in\_wit |

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

| student |

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

1 row in set (0.00 sec)

mysql> desc student;

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

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

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

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student add column Id int primary key first;

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify age int check<=20;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '<=20' at line 1

mysql> alter table student modify age int check(age<=20);

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | YES | | NULL | |

| roll | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify age int check(age<=20) not null;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | NO | | NULL | |

| roll | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student rename to student\_data;'

Query OK, 0 rows affected (0.02 sec)

'> ^C

mysql> desc student;

ERROR 1146 (42S02): Table 'wit.student' doesn't exist

mysql> desc student\_data;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | NO | | NULL | |

| roll | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student\_data drop column roll;

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student\_data;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | NO | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student\_data modify last\_name int;

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student\_data;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | int | YES | | NULL | |

| age | int | NO | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student\_data modify last\_name varchar(200);

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student\_data;

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

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

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

| Id | int | NO | PRI | NULL | |

| first\_name | varchar(200) | YES | | NULL | |

| last\_name | varchar(200) | YES | | NULL | |

| age | int | NO | | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into student\_data values(1,'ABC','Z',23);

ERROR 3819 (HY000): Check constraint 'student\_data\_chk\_1' is violated.

mysql> insert into student\_data values(1,'ABC','Z',14);

Query OK, 1 row affected (0.03 sec)

mysql> insert into student\_data values(2,'ABC','Z',14);

Query OK, 1 row affected (0.03 sec)

mysql> insert into student\_data values(3,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(4,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(5,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(6,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(7,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(8,'ABC','Z',14);

Query OK, 1 row affected (0.03 sec)

mysql> insert into student\_data values(9,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> insert into student\_data values(10,'ABC','Z',14);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from student\_data;

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

| Id | first\_name | last\_name | age |

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

| 1 | ABC | Z | 14 |

| 2 | ABC | Z | 14 |

| 3 | ABC | Z | 14 |

| 4 | ABC | Z | 14 |

| 5 | ABC | Z | 14 |

| 6 | ABC | Z | 14 |

| 7 | ABC | Z | 14 |

| 8 | ABC | Z | 14 |

| 9 | ABC | Z | 14 |

| 10 | ABC | Z | 14 |

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

10 rows in set (0.00 sec)

mysql> insert into student\_data values(10,'ABC','Z');

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> insert into student\_data values(10,'ABC',23);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> insert into student\_data(Id,first\_name,age) values(11,'XYZ',12)

-> ;

Query OK, 1 row affected (0.02 sec)

mysql> select \* from student\_data;

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

| Id | first\_name | last\_name | age |

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

| 1 | ABC | Z | 14 |

| 2 | ABC | Z | 14 |

| 3 | ABC | Z | 14 |

| 4 | ABC | Z | 14 |

| 5 | ABC | Z | 14 |

| 6 | ABC | Z | 14 |

| 7 | ABC | Z | 14 |

| 8 | ABC | Z | 14 |

| 9 | ABC | Z | 14 |

| 10 | ABC | Z | 14 |

| 11 | XYZ | NULL | 12 |

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

11 rows in set (0.00 sec)

mysql> insert into student\_data values(12,'rrrr','gggg',12)(

->

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(' at line 1

mysql> insert into student\_data values(12,'rrrr','gggg',12),(13,'uuuu','ooooo',12);

Query OK, 2 rows affected (0.03 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from student\_data;

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

| Id | first\_name | last\_name | age |

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

| 1 | ABC | Z | 14 |

| 2 | ABC | Z | 14 |

| 3 | ABC | Z | 14 |

| 4 | ABC | Z | 14 |

| 5 | ABC | Z | 14 |

| 6 | ABC | Z | 14 |

| 7 | ABC | Z | 14 |

| 8 | ABC | Z | 14 |

| 9 | ABC | Z | 14 |

| 10 | ABC | Z | 14 |

| 11 | XYZ | NULL | 12 |

| 12 | rrrr | gggg | 12 |

| 13 | uuuu | ooooo | 12 |

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

13 rows in set (0.00 sec)

mysql> update student\_data set last\_name="ZZZZZZZZ" where Id=11;

Query OK, 1 row affected (0.03 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> truncate table student\_data:

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ':' at line 1

mysql> truncate student\_data:

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ':' at line 1

mysql> truncate table student\_data;

Query OK, 0 rows affected (0.07 sec)

mysql> select \* from student\_data;

Empty set (0.00 sec)

mysql> create table employee(eid int primary key auto\_increment,name varchar(200) not nul,

-> ^C

mysql> create table employee(eid int primary key auto\_increment,name varchar(200) not null,

-> date\_of\_joining date not null, salary float not null, age int, city varchar(20) default

'Solapur');

Query OK, 0 rows affected (0.05 sec)

mysql> desc employee;

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

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

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

| eid | int | NO | PRI | NULL | auto\_increment |

| name | varchar(200) | NO | | NULL | |

| date\_of\_joining | date | NO | | NULL | |

| salary | float | NO | | NULL | |

| age | int | YES | | NULL | |

| city | varchar(20) | YES | | Solapur | |

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

6 rows in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('ABX','2025-02-18',40000,2

4);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | ABX | 2025-02-18 | 40000 | 24 | Solapur |

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

1 row in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('ABX','2025-02-18',40

000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | ABX | 2025-02-18 | 40000 | 24 | Solapur |

| 2 | ABX | 2025-02-18 | 40000 | 24 | pune |

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

2 rows in set (0.00 sec)

mysql> alter table employee modify eid int primary key auto\_increment=100;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '=100' at line 1

mysql> alter table employee modify eid int primary key auto\_increment = 100;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '= 100' at line 1

mysql> alter table employee eid auto\_increment = 100;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'eid auto\_increment = 100' at line 1

mysql> alter table employee auto\_increment = 100;

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | ABX | 2025-02-18 | 40000 | 24 | Solapur |

| 2 | ABX | 2025-02-18 | 40000 | 24 | pune |

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

2 rows in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | ABX | 2025-02-18 | 40000 | 24 | Solapur |

| 2 | ABX | 2025-02-18 | 40000 | 24 | pune |

| 100 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

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

3 rows in set (0.00 sec)

mysql> truncate table employee;

Query OK, 0 rows affected (0.07 sec)

mysql> select \* from employee;

Empty set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

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

1 row in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age) values('Rohit','2029-02-19',1200,45);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 2 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 4 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

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

5 rows in set (0.00 sec)

mysql> insert into employee(eid,name,date\_of\_joining,salary,age,city) values(400,'ABX','2025-0

2-18',40000,24,'pune');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 2 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 4 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 400 | ABX | 2025-02-18 | 40000 | 24 | pune |

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

6 rows in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('ABX','2025-02-18',40

000,24,'pune');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 2 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 4 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 400 | ABX | 2025-02-18 | 40000 | 24 | pune |

| 401 | ABX | 2025-02-18 | 40000 | 24 | pune |

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

7 rows in set (0.00 sec)

mysql> delete from employee where eid in (2,4);

Query OK, 2 rows affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 400 | ABX | 2025-02-18 | 40000 | 24 | pune |

| 401 | ABX | 2025-02-18 | 40000 | 24 | pune |

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

5 rows in set (0.00 sec)

mysql> delete from employee where eid in (400,401);

Query OK, 2 rows affected (0.01 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

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

3 rows in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('vaibhav','2025-02-18

',40000,24,'pune');

Query OK, 1 row affected (0.03 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('tom cruise','2025-02

-18',40000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('captain','2025-02-18

',40000,24,'pune');

Query OK, 1 row affected (0.03 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('tonny','2025-02-18',

40000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',

40000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 402 | vaibhav | 2025-02-18 | 40000 | 24 | pune |

| 403 | tom cruise | 2025-02-18 | 40000 | 24 | pune |

| 404 | captain | 2025-02-18 | 40000 | 24 | pune |

| 405 | tonny | 2025-02-18 | 40000 | 24 | pune |

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

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

8 rows in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('america','2025-02-18

',40000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 402 | vaibhav | 2025-02-18 | 40000 | 24 | pune |

| 403 | tom cruise | 2025-02-18 | 40000 | 24 | pune |

| 404 | captain | 2025-02-18 | 40000 | 24 | pune |

| 405 | tonny | 2025-02-18 | 40000 | 24 | pune |

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 407 | america | 2025-02-18 | 40000 | 24 | pune |

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

9 rows in set (0.00 sec)

mysql> select \* from employee where name like 'a%';

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 407 | america | 2025-02-18 | 40000 | 24 | pune |

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

1 row in set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahulllllllllllll','

2025-02-18',40000,24,'pune');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from employee where name like 'a%';

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 407 | america | 2025-02-18 | 40000 | 24 | pune |

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

1 row in set (0.00 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 3 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 5 | Rohit | 2029-02-19 | 1200 | 45 | Solapur |

| 402 | vaibhav | 2025-02-18 | 40000 | 24 | pune |

| 403 | tom cruise | 2025-02-18 | 40000 | 24 | pune |

| 404 | captain | 2025-02-18 | 40000 | 24 | pune |

| 405 | tonny | 2025-02-18 | 40000 | 24 | pune |

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 407 | america | 2025-02-18 | 40000 | 24 | pune |

| 408 | rahulllllllllllll | 2025-02-18 | 40000 | 24 | pune |

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

10 rows in set (0.00 sec)

mysql> select \* from employee where name like 'a\_\_\_l';

Empty set (0.00 sec)

mysql> select \* from employee where name like 'r\_\_\_l';

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

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

1 row in set (0.00 sec)

mysql> select \* from employee where name like 'r%l';

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 408 | rahulllllllllllll | 2025-02-18 | 40000 | 24 | pune |

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

2 rows in set (0.00 sec)

mysql> select \* from employee where name like '\_a%';

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 402 | vaibhav | 2025-02-18 | 40000 | 24 | pune |

| 404 | captain | 2025-02-18 | 40000 | 24 | pune |

| 406 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 408 | rahulllllllllllll | 2025-02-18 | 40000 | 24 | pune |

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

4 rows in set (0.00 sec)

mysql> select name from employee;

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

| name |

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

| Rohit |

| Rohit |

| Rohit |

| vaibhav |

| tom cruise |

| captain |

| tonny |

| rahul |

| america |

| rahulllllllllllll |

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

10 rows in set (0.00 sec)

mysql> select max(salary) from employee;

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

| max(salary) |

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

| 40000 |

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

1 row in set (0.02 sec)

mysql> truncate table employee;

Query OK, 0 rows affected (0.07 sec)

mysql> select \* from employee;

Empty set (0.00 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',

40000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rohit','2025-02-18',

4200,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',

2000,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',200,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',2100,24,'pune');

Query OK, 1 row affected (0.02 sec)

mysql> insert into employee(name,date\_of\_joining,salary,age,city) values('rahul','2025-02-18',50000,24,'pune');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 2 | rohit | 2025-02-18 | 4200 | 24 | pune |

| 3 | rahul | 2025-02-18 | 2000 | 24 | pune |

| 4 | rahul | 2025-02-18 | 200 | 24 | pune |

| 5 | rahul | 2025-02-18 | 2100 | 24 | pune |

| 6 | rahul | 2025-02-18 | 50000 | 24 | pune |

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

6 rows in set (0.00 sec)

mysql> select \* from employee order by

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

mysql> select \* from employee;

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

| eid | name | date\_of\_joining | salary | age | city |

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

| 1 | rahul | 2025-02-18 | 40000 | 24 | pune |

| 2 | rohit | 2025-02-18 | 4200 | 24 | pune |

| 3 | rahul | 2025-02-18 | 2000 | 24 | pune |

| 4 | rahul | 2025-02-18 | 200 | 24 | pune |

| 5 | rahul | 2025-02-18 | 2100 | 24 | pune |

| 6 | rahul | 2025-02-18 | 50000 | 24 | pune |

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

6 rows in set (0.00 sec)

mysql> create table user(uid int primary key auto\_increment,uname varchar(200),location varcha

r(200));

Query OK, 0 rows affected (0.05 sec)

mysql> create table product(pid int primary key auto\_increment, pname varchar(200), pprice flo

at,uid int, foreign key(uid) references user(uid));

Query OK, 0 rows affected (0.08 sec)

mysql> desc product;

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

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

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

| pid | int | NO | PRI | NULL | auto\_increment |

| pname | varchar(200) | YES | | NULL | |

| pprice | float | YES | | NULL | |

| uid | int | YES | MUL | NULL | |

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

4 rows in set (0.01 sec)

mysql> desc user;

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

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

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

| uid | int | NO | PRI | NULL | auto\_increment |

| uname | varchar(200) | YES | | NULL | |

| location | varchar(200) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into user values(100,'tom cruise','LA');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from user;

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

| uid | uname | location |

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

| 100 | tom cruise | LA |

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

1 row in set (0.00 sec)

mysql> insert into user values(101,'Akshay','solapur');

Query OK, 1 row affected (0.02 sec)

mysql> insert into user values(102,'ABC','solapur');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from user;

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

| uid | uname | location |

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

| 100 | tom cruise | LA |

| 101 | Akshay | solapur |

| 102 | ABC | solapur |

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

3 rows in set (0.00 sec)

mysql> insert into product values(1,'laptop',66000,99);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`wit`.`product`, CONSTRAINT `product\_ibfk\_1` FOREIGN KEY (`uid`) REFERENCES `user` (`uid`))

mysql> insert into product values(1,'laptop',66000,102);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from product;

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

| pid | pname | pprice | uid |

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

| 1 | laptop | 66000 | 102 |

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

1 row in set (0.00 sec)

mysql> insert into product values(2,'Head Phone',200,102);

Query OK, 1 row affected (0.02 sec)

mysql> select \* from product;

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

| pid | pname | pprice | uid |

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

| 1 | laptop | 66000 | 102 |

| 2 | Head Phone | 200 | 102 |

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

2 rows in set (0.00 sec)

mysql> select user.uid, user.uname, user.location, product.pname, product.pprice from user inn

er join product on user.uid = product.uid;

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

| uid | uname | location | pname | pprice |

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

| 102 | ABC | solapur | laptop | 66000 |

| 102 | ABC | solapur | Head Phone | 200 |

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

2 rows in set (0.00 sec)

mysql> clear

mysql> create table userr(uid int primary key auto\_increment, uname varchar(200));

Query OK, 0 rows affected (0.08 sec)

mysql> create table productt(pid int primary key auto\_increment,pname varchar(200), pprice float);

Query OK, 0 rows affected (0.05 sec)

mysql> create table cart(cid int primary key auto\_increment,pid int, uid int, foreign key(pid)

references productt(pid), foreign key(uid) references userr(uid));

Query OK, 0 rows affected (0.07 sec)

mysql> create table payment(payid int primary key auto\_increment,amount float,pid int, uid int

, foreign key(pid) references productt(pid), foreign key(uid) references userr(uid));

Query OK, 0 rows affected (0.09 sec)

mysql> create table shaddress(aid int primary key auto\_increment,full\_address varchar(255),uid int, foreign key(uid));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 1

mysql> create table shaddress(aid int primary key auto\_increment,full\_address varchar(255),uid int, foreign key(uid) references userr(uid));

Query OK, 0 rows affected (0.09 sec)

mysql> create table order(oid int primary key auto\_increment,payid int, pid int, uid int, aid int, foreign key(payid) references payment(payid), foreign key(pid) references productt(pid),

foreign key(uid) references userr(uid), foreign key(aid) references shaddress(aid));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'order(oid int primary key auto\_increment,payid int, pid int, uid int, aid int, f' at line 1

mysql> create table order12(oid int primary key auto\_increment,payid int, pid int, uid int, aid int, foreign key(payid) references payment(payid), foreign key(pid) references productt(pid), foreign key(uid) references userr(uid), foreign key(aid) references shaddress(aid));

Query OK, 0 rows affected (0.10 sec)

mysql> desc userr;

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

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

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

| uid | int | NO | PRI | NULL | auto\_increment |

| uname | varchar(200) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> desc productt;

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

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

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

| pid | int | NO | PRI | NULL | auto\_increment |

| pname | varchar(200) | YES | | NULL | |

| pprice | float | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc cart;

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

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

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

| cid | int | NO | PRI | NULL | auto\_increment |

| pid | int | YES | MUL | NULL | |

| uid | int | YES | MUL | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc payment;

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

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

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

| payid | int | NO | PRI | NULL | auto\_increment |

| amount | float | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| uid | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> desc shaddress;

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

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

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

| aid | int | NO | PRI | NULL | auto\_increment |

| full\_address | varchar(255) | YES | | NULL | |

| uid | int | YES | MUL | NULL | |

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

3 rows in set (0.00 sec)

mysql> desc order12;

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

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

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

| oid | int | NO | PRI | NULL | auto\_increment |

| payid | int | YES | MUL | NULL | |

| pid | int | YES | MUL | NULL | |

| uid | int | YES | MUL | NULL | |

| aid | int | YES | MUL | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into userr values(400,'user1'),(401,'user2'),(402,'user3'),(403,'user4');

Query OK, 4 rows affected (0.02 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> insert into productt values(1,'laptop',66000),(2,'iphone16',125000),(3,'head phone',200

0),(4,'canon-camera',100000);

Query OK, 4 rows affected (0.03 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> insert into cart values(201,3,2);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`wit`.`cart`, CONSTRAINT `cart\_ibfk\_2` FOREIGN KEY (`uid`) REFERENCES `userr` (`uid`))

mysql> insert into cart values(201,3,402);

Query OK, 1 row affected (0.01 sec)

mysql> select \* from cart;

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

| cid | pid | uid |

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

| 201 | 3 | 402 |

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

1 row in set (0.00 sec)

mysql> select \* from userr inner join cart on userr.uid = cart.uid;

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

| uid | uname | cid | pid | uid |

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

| 402 | user3 | 201 | 3 | 402 |

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

1 row in set (0.00 sec)

mysql> select \* from userr inner join cart on userr.uid = cart.uid inner join productt on cart.pid = productt.pid;

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

| uid | uname | cid | pid | uid | pid | pname | pprice |

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

| 402 | user3 | 201 | 3 | 402 | 3 | head phone | 2000 |

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

1 row in set (0.00 sec)

mysql> select userr.uid, userr.uname,productt.pname,productt.pprice from userr inner join cart

on userr.uid = cart.uid inner join productt on cart.pid = productt.pid;

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

| uid | uname | pname | pprice |

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

| 402 | user3 | head phone | 2000 |

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

1 row in set (0.00 sec)

mysql> desc shaddress;

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

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

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

| aid | int | NO | PRI | NULL | auto\_increment |

| full\_address | varchar(255) | YES | | NULL | |

| uid | int | YES | MUL | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into shaddress values(501,'wit solapur',401);

Query OK, 1 row affected (0.03 sec)

mysql> desc payment;

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

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

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

| payid | int | NO | PRI | NULL | auto\_increment |

| amount | float | YES | | NULL | |

| pid | int | YES | MUL | NULL | |

| uid | int | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

mysql> insert into payment values(901,66500,1,401);

Query OK, 1 row affected (0.03 sec)

mysql> desc order12;

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

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

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

| oid | int | NO | PRI | NULL | auto\_increment |

| payid | int | YES | MUL | NULL | |

| pid | int | YES | MUL | NULL | |

| uid | int | YES | MUL | NULL | |

| aid | int | YES | MUL | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into order12 values(301,901,1,401,501);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from userr inner join payment on userr.uid = payment.uid;

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

| uid | uname | payid | amount | pid | uid |

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

| 401 | user2 | 901 | 66500 | 1 | 401 |

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

1 row in set (0.00 sec)

mysql> select \* from userr inner join payment on userr.uid = payment.uid inner join productt on productt.pid = payment.pid;

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

| uid | uname | payid | amount | pid | uid | pid | pname | pprice |

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

| 401 | user2 | 901 | 66500 | 1 | 401 | 1 | laptop | 66000 |

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

1 row in set (0.00 sec)

mysql> select \* from userr inner join payment on userr.uid = payment.uid inner join productt on productt.pid = payment.pid inner join order12 on order12.payid = payment.payid;

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

| uid | uname | payid | amount | pid | uid | pid | pname | pprice | oid | payid | pid | uid | aid |

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

| 401 | user2 | 901 | 66500 | 1 | 401 | 1 | laptop | 66000 | 301 | 901 | 1 | 401 | 501 |

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

1 row in set (0.00 sec)

mysql> select \* from userr inner join payment on userr.uid = payment.uid inner join productt on productt.pid = payment.pid inner join order12 on order12.payid = payment.payid inner join shaddress on shaddress.aid=order12.aid;

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

| uid | uname | payid | amount | pid | uid | pid | pname | pprice | oid | payid | pid | uid | aid | aid | full\_address | uid |

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

| 401 | user2 | 901 | 66500 | 1 | 401 | 1 | laptop | 66000 | 301 | 901 | 1 | 401 | 501 | 501 | wit solapur | 401 |

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

1 row in set (0.00 sec)

mysql>