

CUSTOMER TABLE

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.36 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

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

mysql> use PES
Database changed
mysql> create table customer(customer_id int,first_name (varchar(25)),last_name (varchar(25)),age int,country(varchar(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 '(varchar(25)),last_name (varchar(25)),age int,country(va
rchar(20))' at line 1
mysql> create table customer(customer_id int,first_name (varchar(25)),last_name (varchar(25)),age int,country(varchar(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 '(varchar(25)),last_name (varchar(25)),age int,country(va
rchar(20))' at line 1
mysql> create table customer(customer_id int,first_name varchar(25),last_name varchar(25),age int,country varchar(20));
Query OK, 0 rows affected (0.49 sec)

mysql> insert into customer values(1,'john','doe',31,'USA'),(2,'robert','luna',22,'USA'),(3,'david','robinson',22,'UK'),(4,'john','reinhardt',25,'UK'),(5,'betty','doe',28,'UAE');
Query OK, 5 rows affected (0.11 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from table
-> select * from table customer;
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 'table
select * from table customer' at line 1
mysql> select * from customer;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

1.

```
MySQL 8.0 Command Line Client
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Database changed
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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 '(varchar(25)),last_name (varchar(25)),age int,country(va
rchar(20))' at line 1
mysql> create table customer(customer_id int,first_name (varchar(25)),last_name (varchar(25)),age int,country(varchar(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 '(varchar(25)),last_name (varchar(25)),age int,country(va
rchar(20))' at line 1
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Query OK, 5 rows affected (0.11 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from table
-> select * from table customer;
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 'table
select * from table customer' at line 1
mysql> select * from customer;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 1 | john | doe | 31 | USA |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql>
```

2.

```
MySQL 8.0 Command Line Client
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 'varchar(25)),last_name varchar(25)),age int,country(varchar(20)))' at line 1
mysql> create table customer(customer_id int,first_name varchar(25),last_name varchar(25),age int,country varchar(20));
Query OK, 0 rows affected (0.49 sec)

mysql> insert into customer values(1,'john','doe',31,'USA'),(2,'robert','luna',22,'USA'),(3,'david','robinson',22,'UK'),(4,'john','reinhardt',25,'UK'),(5,'betty','doe',28,'UAE');
Query OK, 5 rows affected (0.11 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from table;
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 'table' at line 1
mysql> select * from customer;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 1 | john | doe | 31 | USA |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> select * from customer order by age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
| 1 | john | doe | 31 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

3.

```
MySQL 8.0 Command Line Client
select * from table customer' at line 1
mysql> select * from customer;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 1 | john | doe | 31 | USA |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> select * from customer order by age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
| 1 | john | doe | 31 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by age DESC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 5 | betty | doe | 28 | UAE |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

4.

```
MySQL 8.0 Command Line Client

mysql> select * from customer order by first_name;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 1 | john | doe | 31 | USA |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.03 sec)

mysql> select * from customer order by age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
| 1 | john | doe | 31 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by age DESC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 5 | betty | doe | 28 | UAE |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name ASC, age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

5.

```
MySQL 8.0 Command Line Client

mysql> select * from customer order by age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 5 | betty | doe | 28 | UAE |
| 1 | john | doe | 31 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by age DESC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 5 | betty | doe | 28 | UAE |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
| 3 | david | robinson | 22 | UK |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name ASC, age ASC;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 1 | john | doe | 31 | USA |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer last_name, age, country from customer where country='UK' order by last_name;
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 'from customer where country='UK' order by last_name' at line 1
mysql> select last_name, age, country from customer where country='UK' order by last_name;
+-----+-----+-----+
| last_name | age | country |
+-----+-----+-----+
| reinhardt | 25 | UK |
| robinson | 22 | UK |
+-----+-----+-----+
2 rows in set (0.05 sec)

mysql>
```

6. FIRST_NAME ASC AGE DESC, FIRST_NAME DESC AGE ASC, LAST_NAME ASC AGE DESC, LAST_NAME DESC AGE ASC

```
mysql> select * from customer order by first_name ASC, age DESC;
+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+
| 5 | betty | doe | 28 | UAE |
| 3 | david | robinson | 22 | UK |
| 1 | john | doe | 31 | USA |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by first_name DESC, age ASC;
+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+
| 2 | robert | luna | 22 | USA |
| 4 | john | reinhardt | 25 | UK |
| 1 | john | doe | 31 | USA |
| 3 | david | robinson | 22 | UK |
| 5 | betty | doe | 28 | UAE |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by last_name ASC, age DESC;
+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+
| 1 | john | doe | 31 | USA |
| 5 | betty | doe | 28 | UAE |
| 2 | robert | luna | 22 | USA |
| 4 | john | reinhardt | 25 | UK |
| 3 | david | robinson | 22 | UK |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from customer order by last_name DESC, age ASC;
+-----+-----+-----+-----+
| customer_id | first_name | last_name | age | country |
+-----+-----+-----+-----+
| 3 | david | robinson | 22 | UK |
| 4 | john | reinhardt | 25 | UK |
| 2 | robert | luna | 22 | USA |
| 5 | betty | doe | 28 | UAE |
| 1 | john | doe | 31 | USA |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select country, count(country) from customer group by country ;
+-----+-----+
| country | count(country) |
+-----+-----+
| USA | 2 |
| UK | 2 |
| UAE | 1 |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select country, count(country) from customer group by country having count(country)>1;
+-----+-----+
| country | count(country) |
+-----+-----+
| USA | 2 |
| UK | 2 |
+-----+-----+
2 rows in set (0.00 sec)
```

EMP TABLE

```
mysql> create table emp(sln int,name varchar(25),age int,salary int);
Query OK, 0 rows affected (1.63 sec)

mysql> insert into emp values(1,'john',24,25000);
Query OK, 1 row affected (0.19 sec)

mysql> insert into emp values(2,'nick',22,22000),(3,'amara',25,15000),(4,'nick',22,22000),(5,'john',24,25000);
Query OK, 4 rows affected (0.11 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from emp;
+-----+-----+-----+-----+
| slno | name  | age  | salary |
+-----+-----+-----+-----+
| 1    | john  | 24   | 25000  |
| 2    | nick  | 22   | 22000  |
| 3    | amara | 25   | 15000  |
| 4    | nick  | 22   | 22000  |
| 5    | john  | 24   | 25000  |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

FIND THE TOTAL SALARY OF EMPLOYEE GROUPING BY THE NAMES

```
mysql> select name,SUM(salary) AS total_salary from emp group by name;
+-----+-----+
| name  | total_salary |
+-----+-----+
| john  | 50000        |
| nick  | 44000        |
| amara | 15000        |
+-----+-----+
3 rows in set (0.01 sec)
```

EMP1 TABLE

```
mysql> CRREATE TABLE EMP1(EMPID INT,EMPNAME VARCHAR(25),SALARY INT,CITY VARCHAR(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 'CRREATE TABLE EMP1(EMPID INT,EMPNAME VARCHAR(25),SALARY INT,CITY VARCHAR(20))' at line 1
mysql> CREATE TABLE EMP1(EMPID INT,EMPNAME VARCHAR(25),SALARY INT,CITY VARCHAR(20));
Query OK, 0 rows affected (1.65 sec)

mysql> INSERT INTO EMP1 VALUES(101,'AAA',20000,'GOA'),(102,'BBB',40000,'DELHI'),(103,'CCC',80000,'JAIPUR'),(104,'DDD',20000,'GOA'),(105,'EEE',50000,'DELHI');
Query OK, 5 rows affected (0.19 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM EMP1;
+-----+-----+-----+-----+
| EMPID | EMPNAME | SALARY | CITY |
+-----+-----+-----+-----+
| 101 | AAA | 20000 | GOA |
| 102 | BBB | 40000 | DELHI |
| 103 | CCC | 80000 | JAIPUR |
| 104 | DDD | 20000 | GOA |
| 105 | EEE | 50000 | DELHI |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT CITY,SUM(SALARY) AS SUM_OF_SALARY FROM EMP1 GROUP BY CITY ;
+-----+-----+
| CITY | SUM_OF_SALARY |
+-----+-----+
| GOA | 40000 |
| DELHI | 90000 |
| JAIPUR | 80000 |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> SELECT CITY,SUM(SALARY) AS SUM_SUM_SALARY FROM EMP1 GROUP BY CITY HAVING SUM(SALARY)>50000;
+-----+-----+
| CITY | SUM_SUM_SALARY |
+-----+-----+
| DELHI | 90000 |
| JAIPUR | 80000 |
+-----+-----+
2 rows in set (0.03 sec)
```



```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.36 MySQL Community Server - GPL

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

mysql> CREATE USER 'PRIYA'@'LOCALHOST' 'PASSWORD';
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 ''PASSWORD'' at line 1
mysql> CREATE USER 'PRIYA'@'LOCALHOST' IDENTIFIED BY 'PASSWORD';
Query OK, 0 rows affected (0.50 sec)

mysql> select user from MySQL.user;
+-----+
| user |
+-----+
| PRIYA |
| mysql.infoschema |
| mysql.session |
| mysql.sys |
| root |
+-----+
5 rows in set (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON db.* TO 'PRIYA'@'LOCALHOST';
Query OK, 0 rows affected (0.10 sec)

mysql> SHOW GRANTS FOR 'PRIYA'@'HOST';
ERROR 1141 (42000): There is no such grant defined for user 'PRIYA' on host 'host'
mysql> SHOW GRANTS FOR 'PRIYA'@'LOCALHOST';
+-----+
| Grants for PRIYA@localhost |
+-----+
| GRANT USAGE ON *.* TO 'PRIYA'@'localhost' |
| GRANT ALL PRIVILEGES ON `db`.* TO 'PRIYA'@'localhost' |
+-----+
2 rows in set (0.00 sec)

mysql> CREATE USER 'RUCHITHA'@'LOCALHOST' IDENTIFIED BY '041202';
Query OK, 0 rows affected (0.18 sec)

mysql> SELECT user FROM MySQL.user;
+-----+
| USER |
+-----+
```

```
MySQL 8.0 Command Line Client

mysql> SELECT USER FROM MySQL.user;
+-----+
| USER |
+-----+
| PRIYA |
| RUCHITHA |
| mysql.infoschema |
| mysql.session |
| mysql.sys |
| root |
+-----+
6 rows in set (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON db.* TO 'RUCHITHA'@'LOCALHOST';
Query OK, 0 rows affected (0.10 sec)

mysql> SHOW GRANTS FOR 'RUCHITHA'@'LOCALHOST';
+-----+
| Grants for RUCHITHA@localhost |
+-----+
| GRANT USAGE ON *.* TO 'RUCHITHA'@'localhost' |
| GRANT ALL PRIVILEGES ON `db`.* TO 'RUCHITHA'@'localhost' |
+-----+
2 rows in set (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| db |
| information_schema |
| mysql |
| performance_schema |
| pes |
| pesu |
| sakila |
| sys |
| world |
+-----+
9 rows in set (0.00 sec)

mysql> SHOW TABLES;
ERROR 1046 (3D000): No database selected
mysql> SHOW TABLES DB;
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 'DB' at line 1
mysql> SHOW TABLES db;
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 'db' at line 1
mysql> SHOW db TABLES;
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 'db TABLES' at line 1
```

```
MySQL 8.0 Command Line Client
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 'db' at line 1
mysql> SHOW db TABLES;
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 'db TABLES' at line 1
mysql> REVOKE privileges ON db FROM PRIYA;
ERROR 1046 (3D000): No database selected
mysql> USE DB;
Database changed
mysql> REVOKE privileges ON DB FROM PRIYA;
ERROR 3619 (HY000): Illegal privilege level specified for db
mysql> USE PES;
Database changed
mysql> REVOKE privileges ON PES FROM PRIYA;
ERROR 3619 (HY000): Illegal privilege level specified for pes
mysql> REVOKE ALL PRIVILEGES ON db.* FROM 'priya'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'priya' on host 'localhost'
mysql> REVOKE ALL PRIVILEGES ON db.*FROM 'priya'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'priya' on host 'localhost'
mysql> REVOKE ALL PRIVILEGES ON DB.*FROM 'priya'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'priya' on host 'localhost'
mysql> REVOKE ALL PRIVILEGES ON PES.*FROM 'priya'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'priya' on host 'localhost'
mysql> REVOKE ALL PRIVILEGES ON PES.*FROM 'priya'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'priya' on host 'localhost'
mysql> REVOKE privileges ON DB FROM PRIYA;
ERROR 3619 (HY000): Illegal privilege level specified for db
mysql> REVOKE ALL PRIVILEGES ON PES.*FROM 'RUCHITHA'@'localhost';
ERROR 1141 (42000): There is no such grant defined for user 'RUCHITHA' on host 'localhost'
mysql> REVOKE ALL PRIVILEGES ON db.*FROM 'RUCHITHA'@'localhost';
Query OK, 0 rows affected (0.41 sec)

mysql> REVOKE ALL PRIVILEGES ON db.*FROM 'PRIYA'@'LOCALHOST';
Query OK, 0 rows affected (0.43 sec)

mysql> drop user 'PRIYA'@'LOCALHOST';
Query OK, 0 rows affected (0.40 sec)

mysql>
```



```
mysql> create table cust(cus_id int,fname varchar(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 'create table cust(cus_id int,fname varchar(20))' at line 1
mysql> create table cust(cus_id int,fname varchar(20));
Query OK, 0 rows affected (2.23 sec)

mysql> insert into cust values(1,'john'),(2,'robert'),(3,'david'),(4,'john'),(5,'betty');
Query OK, 5 rows affected (0.07 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from cust;
+-----+-----+
| cus_id | fname |
+-----+-----+
| 1 | john |
| 2 | robert |
| 3 | david |
| 4 | john |
| 5 | betty |
+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> create table orders(order_id int,amount int, customer int);
Query OK, 0 rows affected (0.40 sec)

mysql> insert into orders(1,200,10),(2,500,3),(3,300,6),(4,800,5),(5,150,8);
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 '1,200,10),(2,500,3),(3,300,6),(4,800,5),(5,150,8)' at line 1
mysql> insert into orders values(1,200,10),(2,500,3),(3,300,6),(4,800,5),(5,150,8);
Query OK, 5 rows affected (0.12 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from orders;
+-----+-----+-----+
| order_id | amount | customer |
+-----+-----+-----+
| 1 | 200 | 10 |
| 2 | 500 | 3 |
| 3 | 300 | 6 |
| 4 | 800 | 5 |
| 5 | 150 | 8 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

join

```
ERROR 1054 (42S22): Unknown column 'cust.cus_id' in 'ON clause'
mysql> select cust.cus_id,cust.fname,orders.amount FROM cust join orders ON cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
| 3 | david | 500 |
| 5 | betty | 800 |
+-----+-----+-----+
2 rows in set (0.03 sec)
```

Inner join

```
mysql> select cust.cus_id,cust.fname,orders.amount FROM cust inner join orders ON cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
| 3 | david | 500 |
| 5 | betty | 800 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

Inner join with where clause

```
mysql> select cust.cus_id,cust.fname,orders.amount FROM cust inner join orders on cust.cus_id=orders.customer where orders.amount>500;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
| 5 | betty | 800 |
+-----+-----+-----+
1 row in set (0.00 sec)
```

Using as

```
mysql> select c.cus_id,c.fname,o.amount from cust as c join orders as o on c.cus_id=o.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      3 | david |      500 |
|      5 | betty |      800 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

Using left join

```
mysql> select cust.cus_id,cust.fname,orders.amount from cust left join orders on cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      1 | john  |      NULL |
|      2 | robert |      NULL |
|      3 | david |      500 |
|      4 | john  |      NULL |
|      5 | betty |      800 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Right join

```
mysql> select cust.cus_id,cust.fname,orders.amount from cust right join orders on cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      NULL | NULL |      200 |
|      3 | david |      500 |
|      NULL | NULL |      300 |
|      5 | betty |      800 |
|      NULL | NULL |      150 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Left and right outer join

```
mysql> select cust.cus_id,cust.fname,orders.amount from cust right outer join orders on cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      NULL | NULL |      200 |
|      3 | david |      500 |
|      NULL | NULL |      300 |
|      5 | betty |      800 |
|      NULL | NULL |      150 |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select cust.cus_id,cust.fname,orders.amount from cust left join orders on cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      1 | john  |      NULL |
|      2 | robert |      NULL |
|      3 | david |      500 |
|      4 | john  |      NULL |
|      5 | betty |      800 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

Cross join

```
mysql> select cust.cus_id,cust.fname,orders.amount from cust cross join orders on cust.cus_id=orders.customer;
+-----+-----+-----+
| cus_id | fname | amount |
+-----+-----+-----+
|      3 | david |      500 |
|      5 | betty |      800 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

SALES PERFORMANCE TABLE

```
mysql> select * from sales_performance;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 2333 | gregorio | bavaria   | 19220 | 2021-09-21 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> insert into sales_performance values(4323,'aaron','london',320000,'2018-01-10');
Query OK, 1 row affected (0.12 sec)

mysql> insert into sales_performance values(1113,'sebastian','london',32433,'2020-10-31');
Query OK, 1 row affected (0.07 sec)

mysql> insert into sales_performance values(4134,'pierce','paris',21214,'2020-09-01');
Query OK, 1 row affected (0.08 sec)

mysql> select * from sales_performance;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 2333 | gregorio | bavaria   | 19220 | 2021-09-21 |
| 4323 | aaron    | london    | 320000 | 2018-01-10 |
| 1113 | sebastian | london    | 32433 | 2020-10-31 |
| 4134 | pierse   | paris     | 21214 | 2020-09-01 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

1.LIST ALL THE RECORDS BY sales_person_id

```
mysql> select * from sales_performance order by sales_person_id ASC;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 1113 | sebastian | london    | 32433 | 2020-10-31 |
| 2333 | gregorio  | bavaria   | 19220 | 2021-09-21 |
| 4134 | pierse    | paris     | 21214 | 2020-09-01 |
| 4323 | aaron     | london    | 320000 | 2018-01-10 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

2. LIST ALL RECORDS BY TEXT VALUE

```
mysql> select * from sales_performance order by name ASC,territory ASC;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 4323 | aaron    | london   | 320000            | 2018-01-10   |
| 2333 | gregorio | bavaria  | 19220             | 2021-09-21   |
| 4134 | pierse   | paris    | 21214             | 2020-09-01   |
| 1113 | sebastian | london   | 32433             | 2020-10-31   |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

3. LIST THE DETAILS OF SALES PERFORMANCE BY DATE (total_sales_value)

```
mysql> SELECT * FROM sales_performance order by total_sales_value ASC;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 2333 | gregorio | bavaria  | 19220             | 2021-09-21   |
| 4134 | pierse   | paris    | 21214             | 2020-09-01   |
| 1113 | sebastian | london   | 32433             | 2020-10-31   |
| 4323 | aaron    | london   | 320000            | 2018-01-10   |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

4. SORT THE RECORDS BY TERRITORY BY DESCENDING AND NAME BY ASCENDING

```
mysql> SELECT * FROM sales_performance order by territory DESC,name ASC;
+-----+-----+-----+-----+-----+
| sales_person_id | name      | territory | total_sales_value | joining_date |
+-----+-----+-----+-----+-----+
| 4134 | pierse   | paris    | 21214             | 2020-09-01   |
| 4323 | aaron    | london   | 320000            | 2018-01-10   |
| 1113 | sebastian | london   | 32433             | 2020-10-31   |
| 2333 | gregorio | bavaria  | 19220             | 2021-09-21   |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

STUDENT1 TABLE

```
mysql> CREATE TABLE STUDENT1(SUBJECT VARCHAR(25),YEAR INT,NAME VARCHAR(25));
Query OK, 0 rows affected (0.78 sec)

mysql> INSERT INTO STUDENT1 VALUES('C',2,'JOHN');
Query OK, 1 row affected (0.10 sec)

mysql> INSERT INTO STUDENT1 VALUES('C',2,'JIMMY'),('C',2,'JASMEEN'),('C',3,'NICK'),('C',3,'AMARA'),('JAVA',1,'SIFA'),('JAVA',1,'DOLLY');
Query OK, 6 rows affected (0.10 sec)
Records: 6 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM STUDENT1;
+-----+-----+-----+
| SUBJECT | YEAR | NAME |
+-----+-----+-----+
| C       | 2    | JOHN |
| C       | 2    | JIMMY |
| C       | 2    | JASMEEN |
| C       | 3    | NICK |
| C       | 3    | AMARA |
| JAVA    | 1    | SIFA |
| JAVA    | 1    | DOLLY |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> SELECT SUBJECT,YEAR,COUNT(NAME) AS NO_OF_STUDENTS FROM STUDENT1 GROUP BY SUBJECT,YEAR;
+-----+-----+-----+
| SUBJECT | YEAR | NO_OF_STUDENTS |
+-----+-----+-----+
| C       | 2    | 3              |
| C       | 3    | 2              |
| JAVA    | 1    | 2              |
+-----+-----+-----+
3 rows in set (0.02 sec)
```


View table

```
mysql> CREATE TABLE student(std_id int,name varchar(20),age int,address varchar(20));
Query OK, 0 rows affected (1.30 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| std_id | int       | YES  |     | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| age    | int       | YES  |     | NULL    |       |
| address | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into student values(101,'AAA',20,'banglore');
Query OK, 1 row affected (0.23 sec)

mysql> insert into student values(102,'BBB',21,'banglore'),(103,'CCC',21,'banglore'),(104,'DDD',20,'mumbai'),(105,'EEE',21,'delhi');
Query OK, 4 rows affected (0.10 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select * from student;
+-----+-----+-----+-----+
| std_id | name | age | address |
+-----+-----+-----+-----+
| 101    | AAA  | 20  | banglore |
| 102    | BBB  | 21  | banglore |
| 103    | CCC  | 21  | banglore |
| 104    | DDD  | 20  | mumbai   |
| 105    | EEE  | 21  | delhi    |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> create table marks(result varchar
-> ;
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 marks(result varchar(20),m1 int,m2 int,m3 int,foreign key(std_id) references std(std_id));
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 'std(std_id))' at line 1
mysql> create table marks(result varchar(20),m1 int,m2 int,m3 int,foreign key(std_id) references student(std_id));
ERROR 1072 (42000): Key column 'std_id' doesn't exist in table
mysql> create table marks(result varchar(20),m1 int,m2 int,m3 int,std_id);
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 marks(result varchar(20),m1 int,m2 int,m3 int,std_id int);
Query OK, 0 rows affected (0.77 sec)

mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| std_id | int       | YES  |     | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| age    | int       | YES  |     | NULL    |       |
| address | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> desc marks;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| result | varchar(20) | YES  |     | NULL    |       |
| m1     | int        | YES  |     | NULL    |       |
| m2     | int        | YES  |     | NULL    |       |
| m3     | int        | YES  |     | NULL    |       |
| std_id | int        | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> insert into marks value('pass',60,70,90,101);
Query OK, 1 row affected (0.05 sec)

mysql> insert into marks values('fail',20,8,10,102),('pass',90,90,80,103),('pass',70,87,68,104),('pass',98,100,99);
ERROR 1136 (21S01): Column count doesn't match value count at row 4
mysql> insert into marks values('fail',20,8,10,102),('pass',90,90,80,103),('pass',70,87,68,104),('pass',98,100,99,105);
Query OK, 4 rows affected (0.26 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from marks;
+-----+-----+-----+-----+-----+
| result | m1   | m2   | m3   | std_id |
+-----+-----+-----+-----+-----+
| pass   | 60   | 70   | 90   | 101    |
| fail   | 20   | 8    | 10   | 102    |
| pass   | 90   | 90   | 80   | 103    |
| pass   | 70   | 87   | 68   | 104    |
| pass   | 98   | 100  | 99   | 105    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> CREATE VIEW marksvew AS SELECT student.std_id,student.address,marks.result from student,marks WHERE student.std_id=marks.std_id;
Query OK, 0 rows affected (0.10 sec)

mysql> select * from marksvew;
+-----+-----+-----+
| std_id | address | result |
+-----+-----+-----+
| 101    | banglore | pass   |
| 102    | banglore | fail   |
| 103    | banglore | pass   |
| 104    | mumbai  | pass   |
| 105    | delhi   | pass   |
+-----+-----+-----+
5 rows in set (0.05 sec)
```

```
mysql> select m1,m2,m3 from marks order by m1 desc;
+-----+-----+-----+
| m1   | m2   | m3   |
+-----+-----+-----+
| 98   | 100  | 99   |
| 90   | 90   | 80   |
| 70   | 87   | 68   |
| 60   | 70   | 90   |
| 20   | 8    | 10   |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select * from marks WHERE result='fail';
+-----+-----+-----+-----+-----+
| result | m1   | m2   | m3   | std_id |
+-----+-----+-----+-----+-----+
| fail   | 20   | 8    | 10   | 102    |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

```
mysql> select max(m1) from marks;
```

```
+-----+  
| max(m1) |
```

```
+-----+  
|      98 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select max(m2) from marks;
```

```
+-----+  
| max(m2) |
```

```
+-----+  
|     100 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select max(m3) from marks;
```

```
+-----+  
| max(m3) |
```

```
+-----+  
|      99 |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select min(m1) from marks;
+-----+
| min(m1) |
+-----+
|      20 |
+-----+
1 row in set (0.00 sec)

mysql> select min(m2);
ERROR 1054 (42S22): Unknown column 'm2' in 'field list'
mysql> select min(m2) from marks;
+-----+
| min(m2) |
+-----+
|        8 |
+-----+
1 row in set (0.00 sec)

mysql> select min(m3) from marks;
+-----+
| min(m3) |
+-----+
|       10 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(result) from marks where result='fail';
+-----+
| count(result) |
+-----+
|              1 |
+-----+
1 row in set (0.00 sec)

mysql> select count(result) from marks where result='pass';
+-----+
| count(result) |
+-----+
|              4 |
+-----+
1 row in set (0.00 sec)

mysql>
```