

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.26200.7171]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi>mysql -u root -
Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.42 MySQL Community Server - GPL

Copyright (c) 2000, 2025, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
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> show databases;
+-----+
| Database |
+-----+
| bank      |
| classwork |
| db         |
| dkte       |
| homeservice |
| information_schema |
| internship_db |
| myproject  |
| mysql      |
| performance_schema |
| spj        |
| sys        |
| tmp123    |
+-----+
13 rows in set (0.01 sec)

mysql> use spj;
Database changed

mysql> show tables;
+-----+
| Tables_in_spj |
+-----+
| s             |
+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO S ('S#', Sname, Status, city)
-> VALUES ('S1', 'Smith', 20, 'London');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO S ('S#', Sname, Status, city) VALUES ('S2', 'Jones', 10, 'Paris');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO S ('S#', Sname, Status, city) VALUES ('S3', 'Blake', 30, 'Paris');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO S ('S#', Sname, Status, city) VALUES ('S4', 'Clark', 20, 'London');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO S ('S#', Sname, Status, city) VALUES ('S5', 'Adams', 30, 'Athnens');
Query OK, 1 row affected (0.01 sec)

mysql> select * from s
-> ;
+---+---+---+---+
| S# | Sname | Status | city   |
+---+---+---+---+
| S1 | Smith |    20 | London |
| S2 | Jones |     10 | Paris  |
| S3 | Blake |    30 | Paris  |
| S4 | Clark |    20 | London |
| S5 | Adams |    30 | Athnens|
+---+---+---+---+
5 rows in set (0.00 sec)

mysql> create table p('P#' char(6) not null,Pname char(20),Color char(6),Weight smallint , city char(15));
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P1', 'Nut','Red',12,'London');
```

```
C:\WINDOWS\system32\cmd. x + v

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P2', 'Bolt','Green',17,'Paris');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P3', 'Screw','Blue',17,'Rome');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P4', 'Screw','Red',14,'London');
Query OK, 1 row affected (0.01 sec)

mysql> select * from p;
+---+-----+-----+-----+
| P# | Pname | Color | Weight | city   |
+---+-----+-----+-----+
| P1 | Nut   | Red   |    12 | London |
| P2 | Bolt   | Green  |    17 | Paris  |
| P3 | Screw  | Blue  |    17 | Rome   |
| P4 | Screw  | Red   |    14 | London |
+---+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P5', 'Cam','Blue',12,'Paris');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO p ('P#', Pname,Color,Weight,city) VALUES ('P6', 'Cog','Red',19,'London');
Query OK, 1 row affected (0.01 sec)

mysql> select * from p;
+---+-----+-----+-----+
| P# | Pname | Color | Weight | city   |
+---+-----+-----+-----+
| P1 | Nut   | Red   |    12 | London |
| P2 | Bolt   | Green  |    17 | Paris  |
| P3 | Screw  | Blue  |    17 | Rome   |
| P4 | Screw  | Red   |    14 | London |
| P5 | Cam   | Blue  |    12 | Paris  |
| P6 | Cog   | Red   |    19 | London |
+---+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>
mysql> create table j(`J#` char(4) not null,Jname char(10),City char(15));
```

```
C:\WINDOWS\system32\cmd. x + v

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J1','Sorter','Paris');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J2','Punch','Rome');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J3','Reader','Athens');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J4','Console','Athens');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J5','Collator','London');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J6','Terminal','Oslo');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO j (`J#`, Jname,city) VALUES ('J7','Tape','London');
Query OK, 1 row affected (0.01 sec)

mysql> select * from j;
+---+---+---+
| J# | Jname   | City    |
+---+---+---+
| J1 | Sorter  | Paris   |
| J2 | Punch   | Rome    |
| J3 | Reader  | Athens  |
| J4 | Console | Athens  |
| J5 | Collator| London  |
| J6 | Terminal| Oslo    |
| J7 | Tape    | London  |
+---+---+---+
7 rows in set (0.00 sec)

mysql> create table sp(`S#` char(4) not null,'P#' char(4) not null,'J#' char(4) not null, QTY int);
Query OK, 0 rows affected (0.06 sec)
```

```
C:\WINDOWS\system32\cmd. × + ▾

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S1', 'P1', 'J1', 200);
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S1', 'P1', 'J4', 700);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J1', 400);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J2', 200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J3', 200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J4', 500);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J5', 600);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J6', 400);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P3', 'J7', 800);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S2', 'P5', 'J2', 100);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S3', 'P3', 'J1', 200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S3', 'P4', 'J2', 500);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S4', 'P6', 'J3', 300);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S4', 'P6', 'J7', 300);
Query OK, 1 row affected (0.02 sec)
```

```
C:\WINDOWS\system32\cmd. X + ^

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P2','J2',200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P2','J4',100);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P5','J5',500);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P5','J57',100);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P6','J2',200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P1','J4',100);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P3','J4',200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P4','J4',800);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P5','J4',400);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO sp(`S#`,'P#`,'J#` ,QTY) VALUES('S5','P6','J4',500);
Query OK, 1 row affected (0.01 sec)

mysql> select * from sp;
+---+---+---+---+
| S# | P# | J# | QTY |
+---+---+---+---+
| S1 | P1 | J1 | 200 |
| S1 | P1 | J4 | 700 |
| S2 | P3 | J1 | 400 |
| S2 | P3 | J2 | 200 |
| S2 | P3 | J3 | 200 |
| S2 | P3 | J4 | 500 |
```

```
C:\WINDOWS\system32\cmd. × + ▾

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S5', 'P4', 'J4', 800);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S5', 'P5', 'J4', 400);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO sp(`S#`, `P#`, `J#`, QTY) VALUES('S5', 'P6', 'J4', 500);
Query OK, 1 row affected (0.01 sec)

mysql> select * from sp;
+---+---+---+---+
| S# | P# | J# | QTY |
+---+---+---+---+
| S1 | P1 | J1 | 200 |
| S1 | P1 | J4 | 700 |
| S2 | P3 | J1 | 400 |
| S2 | P3 | J2 | 200 |
| S2 | P3 | J3 | 200 |
| S2 | P3 | J4 | 500 |
| S2 | P3 | J5 | 600 |
| S2 | P3 | J6 | 400 |
| S2 | P3 | J7 | 800 |
| S2 | P5 | J2 | 100 |
| S3 | P3 | J1 | 200 |
| S3 | P4 | J2 | 500 |
| S4 | P6 | J3 | 300 |
| S4 | P6 | J7 | 300 |
| S5 | P2 | J2 | 200 |
| S5 | P2 | J4 | 100 |
| S5 | P5 | J5 | 500 |
| S5 | P5 | J57 | 100 |
| S5 | P6 | J2 | 200 |
| S5 | P1 | J4 | 100 |
| S5 | P3 | J4 | 200 |
| S5 | P4 | J4 | 800 |
| S5 | P5 | J4 | 400 |
| S5 | P6 | J4 | 500 |
+---+---+---+---+
24 rows in set (0.00 sec)
```