

```
Windows PowerShell
mysql> INSERT INTO S VALUES ('S2', 'Jones', 10, 'Paris');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO S VALUES ('S3', 'Blake', 30, 'Paris');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO S VALUES ('S4', 'Clark', 20, 'London');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO S VALUES ('S5', 'Adams', 30, 'Athens');
Query OK, 1 row affected (0.00 sec)

mysql> DESC S;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| S#    | char(5) | NO   |     | NULL    |       |
| Sname | char(20) | YES  |     | NULL    |       |
| Status | smallint | YES  |     | NULL    |       |
| City  | char(15) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 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     | Athens |
+-----+-----+-----+-----+
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 (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_spj_db |
+-----+
| p                 |
| s                 |
+-----+
2 rows in set (0.00 sec)

mysql> |
```

```
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 (0.01 sec)
```

```
mysql> SHOW TABLES;
```

Tables_in_spj_db
p
s

2 rows in set (0.00 sec)

```
mysql> INSERT INTO P VALUES ('P1', 'Nut', 'Red', 12, 'London');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO P VALUES ('P2', 'Bolt', 'Green', 17, 'Paris');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO P VALUES ('P3', 'Screw', 'Blue', 17, 'Rome');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO P VALUES ('P4', 'Screw', 'Red', 14, 'London');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> DESC P;
```

Field	Type	Null	Key	Default	Extra
P#	char(6)	NO		NULL	
Pname	char(20)	YES		NULL	
Color	char(6)	YES		NULL	
Weight	smallint	YES		NULL	
CITY	char(15)	YES		NULL	

5 rows in set (0.00 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> |
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```
Windows PowerShell
mysql> CREATE TABLE J (`J#` CHAR(4) NOT NULL, Jname CHAR(10), City CHAR(15));
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO J VALUES ('J1', 'Sorter', 'Paris');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J2', 'Punch', 'Rome');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J3', 'Reader', 'Athens');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J4', 'Console', 'Athens');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J5', 'Collater', 'London');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J6', 'Terminal', 'Oslo');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO J VALUES ('J7', 'Tape', 'London');
Query OK, 1 row affected (0.00 sec)

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

mysql> |
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```
Windows PowerShell
+-----+-----+
| J2 | Punch | Rome |
| J3 | Reader | Athens |
| J4 | Console | Athens |
| J5 | Collater | London |
| J6 | Terminal | Oslo |
| J7 | Tape | London |
+-----+-----+
7 rows in set (0.00 sec)

mysql> DESC J;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| J# | char(4) | NO | | NULL | |
| Jname | char(10) | YES | | NULL | |
| City | char(15) | YES | | NULL | |
+-----+-----+-----+-----+-----+
3 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 (0.01 sec)

mysql> INSERT INTO SP VALUES ('S1', 'P1', 'J1', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S1', 'P1', 'J4', 700);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J1', 400);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J2', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J3', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J4', 500);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J5', 600);
Query OK, 1 row affected (0.00 sec)

mysql> |
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```
mysql> INSERT INTO SP VALUES ('S1', 'P1', 'J4', 700);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J1', 400);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J2', 200);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J3', 200);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J4', 500);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J5', 600);  
Query OK, 1 row affected (0.00 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

```
7 rows in set (0.00 sec)
```

```
mysql> DESC SP;
```

Field	Type	Null	Key	Default	Extra
S#	char(4)	NO		NULL	
P#	char(4)	NO		NULL	
J#	char(4)	NO		NULL	
QTY	int	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> |
```

```
mysql> DESC SP;
```

Field	Type	Null	Key	Default	Extra
S#	char(4)	NO		NULL	
P#	char(4)	NO		NULL	
J#	char(4)	NO		NULL	
QTY	int	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J6', 400);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P3', 'J7', 800);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S2', 'P5', 'J2', 100);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S3', 'P3', 'J1', 200);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S3', 'P4', 'J2', 500);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S4', 'P6', 'J3', 300);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S4', 'P6', 'J7', 300);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P2', 'J2', 200);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P2', 'J4', 100);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J5', 500);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J7', 100);  
Query OK, 1 row affected (0.00 sec)
```

```
Windows PowerShell
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S3', 'P3', 'J1', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S3', 'P4', 'J2', 500);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S4', 'P6', 'J3', 300);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S4', 'P6', 'J7', 300);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P2', 'J2', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P2', 'J4', 100);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J5', 500);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J7', 100);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P6', 'J2', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P1', 'J4', 100);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P3', 'J4', 200);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P4', 'J4', 800);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J4', 400);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO SP VALUES ('S5', 'P6', 'J4', 500);
Query OK, 1 row affected (0.00 sec)

mysql> |
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P3', 'J4', 200);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P4', 'J4', 800);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P5', 'J4', 400);  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO SP VALUES ('S5', 'P6', 'J4', 500);  
Query OK, 1 row affected (0.00 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	J7	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)
```

```
mysql> |
```