

1].create table S (`S#` char(5) not null,Sname char(20),Status SMALLINT,City char(15));

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 (0.03 sec)

```
mysql> Insert into S values("S1","Smith",20,"London");
Query OK, 1 row affected (0.03 sec)

mysql> Insert into S values("S2","Jones",10,"Paris");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into S values("S3","Blake",30,"Paris");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into S values("S4","Clark",20,"London");
Query OK, 1 row affected (0.01 sec)

mysql> Insert into S values("S5","Adams",30,"Athens");
Query OK, 1 row affected (0.01 sec)
```

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)

2.]

create table P (`P#` char(6) not null ,Pname char(20), Color char(6),Weight smallint,CITY char(15));

```
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 (0.01 sec)
```

```
mysql> insert into P values ("P1","Nut","Red",12,"London");
Query OK, 1 row affected (0.01 sec)

mysql> insert into P values ("P2","Bolt","Green",17,"Paris");
Query OK, 1 row affected (0.01 sec)

mysql> insert into P values ("P3","Screw","Blue",17,"Rome");
Query OK, 1 row affected (0.01 sec)

mysql> insert into P values ("P4","Screw","Red",14,"London");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into P values ("P5","Cam","Blue",12,"Paris");
Query OK, 1 row affected (0.01 sec)

mysql> insert into P 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)
```

3.]

create table J (`J#` char(4) not null ,Jname char(10),CITY char(15));

```
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 (0.12 sec)
```

```
mysql> insert into J values ("J1","Sorter","Paris");
Query OK, 1 row affected (0.03 sec)

mysql> insert into J values ("J2","Punch","Rome");
Query OK, 1 row affected (0.01 sec)

mysql> insert into J values ("J3","Reader","Athens");
Query OK, 1 row affected (0.01 sec)

mysql> insert into J values ("J4","Console","Athens");
Query OK, 1 row affected (0.01 sec)

mysql> insert into J values ("J5","Collator","London");
Query OK, 1 row affected (0.01 sec)

mysql> insert into J values ("J6","Treminal","oslo");
Query OK, 1 row affected (0.01 sec)

mysql> insert into J 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 | Treminal | oslo |
| J7 | Tape    | London |
+----+-----+-----+
7 rows in set (0.00 sec)
```

4.]create table sp (`S#` char(4) not null ,`P#` char(4) not null,`J#` char(4) not null,QTY int);

```
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 (0.02 sec)
```

```
mysql> insert into sp values ("S1","P1","J1",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S1","P1","J4",700);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J1",400);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J2",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J3",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J4",500);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J5",600);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J6",400);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P3","J7",800);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S2","P5","J2",100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S3","P2","J1",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S3","P4","J2",500);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into sp values ("S4","P6","J3",300);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S4","P6","J7",300);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P2","J2",300);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P2","J4",100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P5","J5",500);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P5","J7",100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P6","J2",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P1","J4",100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P3","J4",200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P4","J4",800);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp values ("S5","P5","J4",400);
Query OK, 1 row affected (0.01 sec)

mysql> insert into sp 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	P2	J1	200
S3	P4	J2	500
S4	P6	J3	300
S4	P6	J7	300
S5	P2	J2	300
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 (0.02 sec)
```