

## ASSIGNMENT 1

```
create database spj;
```

```
use spj;
```

```
create table S(`s#` char(5) not null,sname char(20),status smallint,city char(15));
```

```
desc s;
```

```
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 (0.03 sec)
```

```
insert into s values("s1","smith",20,"london");
```

```
insert into s values("s2","jones",10,"paris");
```

```
insert into s values("s3","blake",30,"paris");
```

```
insert into s values("s5","adams",30,"athens");
```

```
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)
```

```
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");
```

```
mysql> insert into p values("p2","bolt","green",17,"paris");
```

```
mysql> insert into p values("p3","screw","blue",17,"rome");
```

```
mysql> insert into p values("p4","screw","red",14,"london");
```

```
mysql> insert into p values("p5","cam","blue",12,"paris");
```

```
mysql> insert into p values("p6","cog","red",19,"london");
```

```
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)
```

```
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 (0.01 sec)
```

```
insert into j values("j1","sorter","paris");
```

```
insert into j values("j2","punch","rome");
```

```
insert into j values("j3","reader","athens");
```

```
insert into j values("j4","console","athens");
```

```
insert into j values("j5","collator","london");
```

```
insert into j values("j6","terminal","oslo");
```

```
insert into j values("j7","tape","london");
```

```
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)
```

```
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 (0.01 sec)
```

```
insert into sp values("s1","p1","j1",200);
insert into sp values("s1","p1","j4",700);
insert into sp values("s2","p3","j1",400);
insert into sp values("s2","p3","j2",200);
insert into sp values("s2","p3","j3",200);
insert into sp values("s2","p3","j4",500);
insert into sp values("s2","p3","j5",600);
insert into sp values("s2","p3","j6",400);
insert into sp values("s2","p3","j7",800);
insert into sp values("s2","p5","j2",100);
insert into sp values("s3","p3","j1",200);
insert into sp values("s3","p4","j2",500);
insert into sp values("s4","p6","j3",300);
insert into sp values("s4","p6","j7",300);
```

```
insert into sp values("s5","p2","j2",200);
insert into sp values("s5","p2","j4",100);
insert into sp values("s5","p5","j5",500);
insert into sp values("s5","p5","j7",100);
insert into sp values("s5","p6","j2",200);
insert into sp values("s5","p1","j4",100);
insert into sp values("s5","p3","j4",200);
insert into sp values("s5","p4","j4",800);
insert into sp values("s5","p5","j4",400);
insert into sp values("s5","p6","j4",500);
```

```
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)
```