

Assignment 1 :

```
CREATE DATABASE spj ;
```

```
USE spj ;
```

```
CREATE TABLE S (`S#` CHAR(5) NOT NULL, sname CHAR(20), status SMALLINT, city CHAR(15));
```

```
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	

```
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 ('S4' , 'Clark' , 20 , 'London');  
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

```
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	

```
INSERT INTO P VALUES ('P1' , 'Nut' , 'Red', 12 , 'london');  
INSERT INTO P VALUES ('P2' , 'Bolt' , 'Green', 17 , 'Paris');  
INSERT INTO P VALUES ('P3' , 'Screw' , 'Blue', 17 , 'Rome');  
INSERT INTO P VALUES ('P4' , 'Screw' , 'Red', 14 , 'London');
```

```
INSERT INTO P VALUES ('P5' , 'Cam' , 'Blue', 12 , 'Paris');
INSERT INTO P VALUES ('P6' , 'Cog' , 'Red', 19 , 'London');
```

P#	Pname	Color	Weight	CITY
P1	Nut	Red	12	London
P2	Bolt	Green	17	Paris
P4	Screw	Red	14	London
P3	Screw	Blue	17	Rome
P5	Cam	Blue	12	Paris
P6	Cog	Red	19	London

```
CREATE TABLE J(`J#` CHAR(4) NOT NULL ,Jname CHAR (10), City CHAR(15));
```

Field	Type	Null	Key	Default	Extra
J#	char(4)	NO		NULL	
Jname	char(10)	YES		NULL	
City	char(15)	YES		NULL	

INSERT INTO J VALUES

```
(J1,'Sorter','Paris'),(J2,'Punch','Rome'),(J3,'Reader','Athens'),(J4,'Console','Athens'),(J5,'Collatos','London');
```

J#	Jname	City
J1	Sorter	Paris
J2	Punch	Rome
J3	Reader	Athens
J4	Console	Athens
J5	Collatos	London

```
CREATE TABLE sp(`S#` CHAR(4) NOT NULL ,`P#` CHAR(4) NOT NULL ,`J#` CHAR(4) NOT NULL ,QTY INT );
```

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	

INSERT INTO sp VALUES

```
-> ('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','P3','J1',200),
-> ('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);

```
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 | P3 | J1 | 200 |
| 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 |
+---+---+---+---+
```