ASSIGNMENT 01

1]

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

```
+--------+-----------+------+-----+---------+-------+
| 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");

```
+----+-------+--------+--------+
| 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 (0.01 sec)
```

2]

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

```
+----------+------------+-------+-------+----------+---------+
| 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   |
| P3 | Screw  | Blue   |     17 | Rome    |
| P4 | screw  | Red    |     14 | London  |
| P5 | Cam    | Blue   |     12 | Paris   |
| P6 | Cog    | Red    |     19 | London  |
+----+--------+--------+--------+---------+
```

3]

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");

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");

```
+----+----------+--------+
| J# | Jname    | city   |
+----+----------+--------+
| J1 | Sorter   | Paris  |
| J2 | Punch    | Rome   |
| J3 | Reader   | Athens |
| J4 | Console  | Athens |
| J5 | Collator | London |
| J6 | Terminal | Oslo   |
| J7 | Tape     | London |
+----+----------+--------+
```

4]

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);

insert into SP values ('S2' , 'P3' , 'J1' , 500) , ('S2' , 'P3' , 'J5' , 600) , ('S2' , 'P3' , 'J6' , 400) , ('S2' , 'P3' , 'J7' , 800) , ('S2' , 'P5' , 'J2' , 100);

insert into SP values ('S3' , 'P3' , 'J1' , 200) , ('S3' , 'P4' , 'J2' , 500) , ('S4' , 'P6' , 'J3' , 300) , ('S4' , 'P6' , 'J7' , 300) , ('S5' , 'P2' , 'J2' , 200);

insert into SP values ('S5' , 'P2' , 'J4' , 100) , ('S5' , 'P5' , 'J5' , 500) , ('S5' , 'P5' , 'J7' , 100) , ('S5' , 'P6' , 'J2' , 200) , ('S5' , 'P1' , 'J4' , 100);

insert into SP values ('S5' , 'P3' , 'J4' , 200) ,('S5' , 'P4' , 'J4' , 800) , ('S5' , 'P5' , 'J4' , 400) , ('S5' , 'P6' , 'J4' , 500) ;

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	J1	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