Assignment 01

1. S table

   create table S(`S#` char(5) not null,Sname char(20),Status smallint,City(15));

   ```
   mysql> create table S(`S#` char(5) not null,Sname char(20),Status smallint,City varchar(15))
   Query OK, 0 rows affected (0.09 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   | varchar(15) | YES  |     | NULL    |       |
   +--------+-------------+------+-----+---------+-------+
   ```

2. Data insertion

   insert into S values
   ('S1','Smith',20,'London'),('S2','Jones',10,'Paris'),('S3','Black',30,'Paris'),('S4','Clark',20,'
   London'),('S5','Adams',30,'Athens');

   ```
   mysql> insert into S values ('S1','Smith',20,'London'),('S2','Jones',10,'Paris'),('S3','Black',30,'Paris'),('S4','Clark'
   ,20,'London'),('S5','Adams',30,'Athens');
   Query OK, 5 rows affected (0.02 sec)
   Records: 5  Duplicates: 0  Warnings: 0

   mysql> select * from S;
   +----+-------+--------+--------+
   | S# | Sname | Status | City   |
   +----+-------+--------+--------+
   | S1 | Smith |     20 | London |
   | S2 | Jones |     10 | Paris  |
   | S3 | Black |     30 | Paris  |
   | S4 | Clark |     20 | London |
   | S5 | Adams |     30 | Athens |
   +----+-------+--------+--------+
   ```

3. P table creation

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

   ```
   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 (0.07 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    |       |
   +--------+----------+------+-----+---------+-------+
   ```

4. P table data insertion

   insert into P values
   ('P1','Nut','Red',12,'London'),('P2','Bolt','Green',17,'Paris'),('P3','Screw','Blue',17,'Rom
   e'),('P5','Screw','Red',14,'London');

```
mysql> insert into P values ('P1','Nut','Red',12,'London'),('P2','Bolt','Green',17,'Paris'),('P3','Screw','Blue',17,'Rome'),('P4','Scr
ew','Red',14,'London'),('P5','Cam','Blue',12,'Paris'),('P6','Cog','Red',19,'London');
Query OK, 6 rows affected (0.02 sec)
Records: 6  Duplicates: 0  Warnings: 0

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 |
+----+-------+-------+--------+--------+
```

5. J table creation
   create table J(`J#` char(4) not null,Jname char(10),City char(15));

```
mysql> create table J(`J#` char(4) not null,Jname char(10),City char(15));
Query OK, 0 rows affected (0.10 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    |       |
+-------+----------+------+-----+---------+-------+
```

6. J table data insertion
   insert into J
   values('J1','Sorter','Paris'),('J2','Punch','Rome'),('J3','Reader','Athens'),('J4','Console','Athens'),('J5','Collacter','London'),('J6','Terminal','Oslo'),('J7','Tape','London');

```
mysql> insert into J values('J1','Sorter','Paris'),('J2','Punch','Rome'),('J3','Reader','Athens'),('J4','Console','Athens'),('J5','Col
lacter','London'),('J6','Terminal','Oslo'),('J7','Tape','London');
Query OK, 7 rows affected (0.03 sec)
Records: 7  Duplicates: 0  Warnings: 0

mysql> select * from J;
+----+-----------+--------+
| J# | Jname     | City   |
+----+-----------+--------+
| J1 | Sorter    | Paris  |
| J2 | Punch     | Rome   |
| J3 | Reader    | Athens |
| J4 | Console   | Athens |
| J5 | Collacter | London |
| J6 | Terminal  | Oslo   |
| J7 | Tape      | London |
+----+-----------+--------+
```

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

```
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 (0.09 sec)
```

8. SP data insertion
   insert into sp values ('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);

```
mysql> insert into sp values ('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);
Query OK, 17 rows affected (0.20 sec)
Records: 17  Duplicates: 0  Warnings: 0

mysql> select * from sp;
+----+----+----+------+
| S# | P# | J# | QTY  |
+----+----+----+------+
| 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 |
+----+----+----+------+
17 rows in set (0.05 sec)
```