SQL Exercise 5

1. Display the Supplier name and the Quantity sold.

   select sname,qty from supplier join spj on supplier.sid=spj.sid group by supplier;

```
mysql> select sname,qty from supplier join spj on supplier.sid=spj.sid;
+---------+------+
| sname   | qty  |
+---------+------+
| Madhura |  800 |
| sneha   |  950 |
| sneha   |  900 |
| gayatri |  450 |
| Abc     |  600 |
+---------+------+
5 rows in set (0.00 sec)
```

2. Display the Part name and Quantity sold.

   select pname,qty from parts join spj on parts.pid=spj.pid;

```
mysql> select pname,qty from parts join spj on parts.pid=spj.pid;
+-------+------+
| pname | qty  |
+-------+------+
| P1    |  800 |
| P2    |  950 |
| P3    |  450 |
| P2    |  600 |
| P1    |  900 |
+-------+------+
5 rows in set (0.00 sec)
```

3. Display the Project name and Quantity sold.

select jname,qty from projects join spj on projects.jid=spj.jid;

```
mysql> select jname,qty from projects join spj on projects.jid=spj.jid;
+-------+------+
| jname | qty  |
+-------+------+
| Tape  |  800 |
| book  |  950 |
| book  |  900 |
| pen   |  450 |
| pen   |  600 |
+-------+------+
5 rows in set (0.00 sec)
```

4. Display the Supplier name, Part name, Project name and Quantity sold.

select sname,pname,jname,qty from spj

  join supplier on supplier.sid=spj.sid

  join parts on parts.pid=spj.pid

  join projects on projects.jid=spj.jid;

```
mysql> select sname,pname,jname,qty from spj
    -> join supplier on supplier.sid=spj.sid
    -> join parts on parts.pid=spj.pid
    -> join projects on projects.jid=spj.jid;
+---------+-------+-------+------+
| sname   | pname | jname | qty  |
+---------+-------+-------+------+
| Madhura | P1    | Tape  |  800 |
| sneha   | P2    | book  |  950 |
| sneha   | P1    | book  |  900 |
| gayatri | P3    | pen   |  450 |
| Abc     | P2    | pen   |  600 |
+---------+-------+-------+------+
5 rows in set (0.00 sec)
```

5. Display the Supplier name, Supplying Parts to a Project in the same City.

select sname,pname,jname,projects.city from spj

   join projects on projects.jid=spj.jid

   join supplier on spj.sid=supplier.sid

   join parts on spj.pid=parts.pid

   where supplier.city=projects.city;

```
mysql> select sname,pname,jname,projects.city from spj
    -> join projects on projects.jid=spj.jid
    -> join supplier on spj.sid=supplier.sid
    -> join parts on spj.pid=parts.pid
    -> where supplier.city=projects.city
    -> ;
+---------+-------+-------+--------+
| sname   | pname | jname | city   |
+---------+-------+-------+--------+
| Madhura | P1    | Tape  | paris  |
| sneha   | P2    | book  | london |
| sneha   | P1    | book  | london |
| gayatri | P3    | pen   | athens |
+---------+-------+-------+--------+
4 rows in set (0.00 sec)
```

6. Display the Part name that is 'Red' is color, and the Quantity sold.

select pname,qty from spj join parts on parts.pid=spj.pid

 where parts.color='red';

```
mysql> select pname,qty from spj join parts on parts.pid=spj.pid
    -> where parts.color='red';
+-------+------+
| pname | qty  |
+-------+------+
| P1    |  800 |
| P1    |  900 |
+-------+------+
2 rows in set (0.00 sec)
```

7. Display all the Quantity sold by Suppliers with the Status = 20.

select qty,sname from spj join supplier on supplier.sid=spj.sid

where supplier.status=20;

```
mysql> select qty,sname from spj join supplier on supplier.sid=spj.sid
    -> where supplier.status=20;
+------+---------+
| qty  | sname   |
+------+---------+
|  450 | gayatri |
+------+---------+
1 row in set (0.00 sec)
```

8. Display all the Parts and Quantity with a Weight > 14.

select qty,pname,weight from spj join parts on parts.pid=spj.pid

where parts.weight>14;

```
mysql> select qty,pname,weight from spj join parts on parts.pid=spj.pid
    -> where parts.weight>14;
+------+-------+--------+
| qty  | pname | weight |
+------+-------+--------+
|  950 | P2    |     15 |
|  600 | P2    |     15 |
+------+-------+--------+
2 rows in set (0.00 sec)
```

9. Display all the Project names and City, which has bought more than 500 Parts.

select jname,projects.city,qty from spj

    join parts on parts.pid=spj.pid

join projects on projects.jid=spj.jid

where spj.qty>500;

```
mysql> select jname,projects.city,qty from spj
    -> join parts on parts.pid=spj.pid
    -> join projects on projects.jid=spj.jid
    -> where spj.qty>500;
+-------+--------+------+
| jname | city   | qty  |
+-------+--------+------+
| Tape  | paris  |  800 |
| book  | london |  950 |
| pen   | athens |  600 |
| book  | london |  900 |
+-------+--------+------+
4 rows in set (0.00 sec)
```

10. Display all the Part names and Quantity sold that have a Weight less than 15.

select pname,qty,parts.weight from spj

    join parts on parts.pid=spj.pid

where parts.weight<15;

```
mysql> select pname,qty,parts.weight from spj
    -> join parts on parts.pid=spj.pid
    -> where parts.weight<15;
+-------+------+--------+
| pname | qty  | weight |
+-------+------+--------+
| P1    |  800 |     10 |
| P1    |  900 |     10 |
| P3    |  450 |     12 |
+-------+------+--------+
3 rows in set (0.00 sec)
```