

Exercise 5

1. Display the Supplier name and the Quantity sold.

```
mysql> select Sname, sum(Qty) from SPJ , S where spj.`S#` = s.`S#` group by Sname;
```

Sname	sum(Qty)
Smith	500
Jones	150
Blake	400

3 rows in set (0.01 sec)

2. Display the Part name and Quantity sold.

```
mysql> select Pname, sum(Qty) from SPJ , P where spj.`P#` = P.`P#` group by  
-> Pname;
```

Pname	sum(Qty)
Bolt	700
Nut	200
Screw	150

3 rows in set (0.00 sec)

3. Display the Project name and Quantity sold.

```
mysql> select Jname, sum(Qty) from SPJ , J where spj.`J#` = J.`J#` group by  
-> Jname;
```

Jname	sum(Qty)
Bridge	450
Road	200
Building	400

3 rows in set (0.00 sec)

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

```
[mysql> select Sname,Pname, Jname, sum(Qty) from SPJ ,S,P, J
[      -> where spj.`J#` = J.`J#` and SPJ.`P#`=P.`P#` AND SPJ.`S#`=S.`S#`
[      -> group by Sname , Pname, Jname;
+-----+-----+-----+-----+
| Sname | Pname | Jname | sum(Qty) |
+-----+-----+-----+-----+
| Smith | Bolt  | Bridge | 300 |
| Jones | Screw | Bridge | 150 |
| Smith | Nut   | Road   | 200 |
| Blake | Bolt  | Building | 400 |
+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

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

```
mysql> select S.Sname, P.Pname,J.Jname , J.City from S , P, J ,SPJ
      -> where SPJ.`S#`=S.`S#` and SPJ.`P#`=P.`P#` AND SPJ.`J#`=J.`J#`
      -> and s.city=J.City;
+-----+-----+-----+-----+
| Sname | Pname | Jname | City |
+-----+-----+-----+-----+
| Smith | Bolt  | Bridge | London |
| Blake | Bolt  | Building | New York |
+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

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

```
[mysql> select P.Pname , P.Color , SPJ.Qty from P, spj
[      -> where SPJ.`P#` = P.`P#` AND COLOR = 'RED';
+-----+-----+-----+
| Pname | Color | Qty |
+-----+-----+-----+
| Bolt  | Red   | 300 |
| Bolt  | Red   | 400 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

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

```
mysql> SELECT S.`S#`, SPJ.QTY FROM S, SPJ WHERE S.`S#`=SPJ.`S#` AND S.STATUS
[      -> =20;
+-----+-----+
| S# | QTY |
+-----+-----+
| S1 | 300 |
| S1 | 200 |
+-----+-----+
2 rows in set (0.00 sec)
```

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

```
SELECT P.* , SPJ.QTY FROM SPJ , P WHERE P.`P#`=SPJ.`P#` AND P.WEIGHT > 14;
```

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

```
SELECT J.JNAME , J.CITY FROM J , SPJ WHERE J.`J#`=SPJ.`J#` AND QTY > 500;
```

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

```
mysql> SELECT P.PNAME , SPJ.QTY FROM P,SPJ WHERE SPJ.`P#`=P.`P#` AND P.WEIGHT<15;
+-----+-----+
| PNAME | QTY |
+-----+-----+
| Bolt  | 300 |
| Bolt  | 400 |
| Nut   | 200 |
| Screw | 150 |
+-----+-----+
4 rows in set (0.00 sec)
```

11. Display all the Employee names and the name of their Managers.