

## SQL Exercise 4

1. Display the minimum Status in the Supplier table.

```
mysql> select Min(Status) from s;  
+-----+  
| Min(Status) |  
+-----+  
|          10 |  
+-----+  
1 row in set (0.01 sec)
```

2. Display the maximum Weight in the Parts table.

```
mysql> select Max(Weight) from P;  
+-----+  
| Max(Weight) |  
+-----+  
|          19 |  
+-----+  
1 row in set (0.01 sec)
```

3. Display the average Weight of the Parts.

```
mysql> select Avg(Weight)from P;  
+-----+  
| Avg(Weight) |  
+-----+  
| 15.166666666666666 |  
+-----+  
1 row in set (0.00 sec)
```

4. Display the total Quantity sold for part 'P1'.

```
mysql> select Sum(Qty) from SPJ where Pno='P1';
+-----+
| Sum(Qty) |
+-----+
|      900 |
+-----+
1 row in set (0.01 sec)
```

5. Display the total Quantity sold for each part.

```
mysql> select pno,Sum(Qty) from Spj Group by Pno;
+-----+-----+
| pno | Sum(Qty) |
+-----+-----+
| P1  |      900 |
| P2  |      200 |
| P3  |     3100 |
| P4  |     1100 |
| P5  |      100 |
+-----+-----+
5 rows in set (0.00 sec)
```

6. Display the average Quantity sold for each part.

```
mysql> select Pno,Avg(Qty) from spj Group by Pno;
+-----+-----+
| Pno | Avg(Qty) |
+-----+-----+
| P1  |  450.0000 |
| P2  |  200.0000 |
| P3  |  442.8571 |
| P4  |  550.0000 |
| P5  |  100.0000 |
+-----+-----+
5 rows in set (0.00 sec)
```

7. Display the maximum Quantity sold for each part, provided the maximum Quantity is greater than 800.

```
mysql> select Pno,Max(Qty)from Spj Group by pno having max(Qty)>800;
Empty set (0.00 sec)
```

8. Display the Status and the count of Suppliers with that Status.

```
mysql> select Status,Count(*) from S group by Status;
+-----+-----+
| Status | Count(*) |
+-----+-----+
|      40 |         1 |
|      50 |         1 |
|      70 |         1 |
|      60 |         1 |
|      80 |         1 |
|      64 |         1 |
|      44 |         1 |
|      54 |         1 |
|      10 |         1 |
+-----+-----+
9 rows in set (0.01 sec)
```

9. Display the count of Projects going on in different cities.

```
mysql> select City,count(*)from P Group by city;
+-----+-----+
| City   | count(*) |
+-----+-----+
| London |         3 |
| Paris  |         2 |
| Rome   |         1 |
+-----+-----+
3 rows in set (0.00 sec)
```

10. What is the difference between COUNT(Status) and COUNT(\*) ?

COUNT	COUNT(*)
It only counts a rows where the status column is not null.	Counts all rows,including those with NULL Values in any column.
Does not count rows with a Null value in the status column	Counts every row in the table regardless of whether any column has Null Values.

11. Display the Status and the Count of Suppliers with that Status in the following format as shown below:-

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Status	Count
Ten	1
Twenty	2
Thirty	3

```
mysql> select
-> case
-> when status =10 then 'Ten'
-> When status =20 then 'Twenty'
-> when status =30 then 'Thirty'
-> else 'other'
-> end as status,
-> count(*) as count from s
-> group by status;
```

status	count
other	1
other	1
other	1
other	1
other	1
other	1
other	1
other	1
Ten	1

9 rows in set, 1 warning (0.00 sec)

mysql>