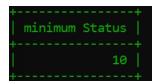# SQL Exercise 4

**1. Display the minimum Status in the Supplier table.**

**Ans:** select min(Status) as 'minimum Status'from supplier;
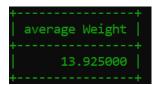
```
+---------------+
| minimum Status |
+---------------+
|            10 |
+---------------+
```

**2. Display the maximum Weight in the Parts table.**

**Ans:** select max(Weight) as 'maximum Weight' from Parts;

```
+---------------+
| maximum Weight |
+---------------+
|         16.20 |
+---------------+
```

**3. Display the average Weight of the Parts.**

**Ans:** select avg(Weight) as 'average Weight' from Parts;

```
+---------------+
| average Weight |
+---------------+
|     13.925000 |
+---------------+
```

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

**Ans:** SELECT `P#`,

    ->     SUM(qty) AS `Total Quantity Sold`

    -> FROM `supplier-parts-project`

    -> WHERE `P#` = 'P1'

    -> GROUP BY `P#`;

```
+------+---------------------+
| P#   | Total Quantity Sold |
+------+---------------------+
| P1   |                 100 |
+------+---------------------+
```

**5. Display the total Quantity sold for each part.**

**Ans:** select `P#`,

-> sum(qty) as' Total Quantity sold'

-> from `supplier-parts-project`

-> group by `P#`;

```
+--------+------------------------+
|  P#    |  Total Quantity sold   |
+--------+------------------------+
|  P1    |                    100 |
|  P2    |                    200 |
|  P3    |                    300 |
+--------+------------------------+
```

**6. Display the average Quantity sold for each part.**

**Ans:** select `P#` as 'Part Number', avg(qty) as 'Average quantity sold' from `supplier-parts-project` group by `P#`

```
+-----------------+-------------------------+
|  Part Number    |  Average quantity sold  |
+-----------------+-------------------------+
|  P1             |                100.0000 |
|  P2             |                200.0000 |
|  P3             |                300.0000 |
+-----------------+-------------------------+
```

**7. Display the maximum Quantity sold for each part, provided the maximum Quantity**

**is greater than 800.**

**Ans: SELECT `P#` AS Part_Number,**

**->      MAX(qty) AS Maximum_Quantity_Sold**

**-> FROM `supplier-parts-project`**

**-> GROUP BY `P#`**

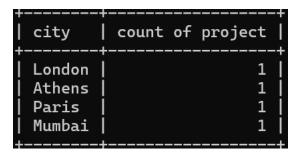**-> HAVING MAX(qty) > 800;**

```
Empty set (0.01 sec)
```

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

**Ans:** select status, count(*) as 'supplier count'  from supplier group by status;

```
+--------+----------------+
| status | supplier count |
+--------+----------------+
|     10 |              1 |
|     20 |              1 |
|     30 |              1 |
|     15 |              1 |
|     13 |              2 |
+--------+----------------+
```

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

**Ans:** select city, count(city) as 'count of project' from projects group by city;

```
+--------+------------------+
| city   | count of project |
+--------+------------------+
| London |                1 |
| Athens |                1 |
| Paris  |                1 |
| Mumbai |                1 |
+--------+------------------+
```

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

**Ans:**


**11. Display the Status and the Count of Suppliers with that Status in the following format**

**as shown below:-**

**Status**

**Ten**

**Count**

**1**

**Twenty   2**

**Thirty**

**3**

**Ans:**

**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 supplier
    -> group by status;
```

| status | count |
|--------|-------|
| Ten    | 1     |
| twenty | 1     |
| thirty | 1     |
| other  | 1     |
| other  | 2     |