Exercise 04

1. Display the minimum Status in the Supplier table:

```
SELECT MIN(Status) AS MinimumStatus
FROM Supplier;
```

2. Display the maximum Weight in the Parts table:

```
SELECT MAX(Weight) AS MaximumWeight FROM Parts;
```

3. Display the average Weight of the Parts:

```
SELECT AVG(Weight) AS AverageWeight FROM Parts;
```

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

```
SELECT SUM(Quantity) AS TotalQuantitySold
FROM Sales
WHERE PartID = 'P1';
```

5. Display the total Quantity sold for each part:

```
SELECT PartID, SUM(Quantity) AS TotalQuantitySold FROM Sales GROUP BY PartID;
```

6. Display the average Quantity sold for each part:

```
SELECT PartID, AVG(Quantity) AS AverageQuantitySold
FROM Sales
GROUP BY PartID;
```

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

```
SELECT PartID, MAX(Quantity) AS MaximumQuantitySold
FROM Sales
GROUP BY PartID
HAVING MAX(Quantity) > 800;
```

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

```
SELECT Status, COUNT(*) AS SupplierCount
FROM Supplier
GROUP BY Status;
```

 $\boldsymbol{9}.$ Display the count of Projects going on in different cities:

```
SELECT City, COUNT(*) AS ProjectCount
FROM Projects
GROUP BY City;
```

- 10. What is the difference between COUNT(Status) and COUNT(*)?
 - COUNT(Status) counts only the non-NULL values in the Status column, while COUNT(*) counts all rows in the table, including those with NULL values.

Exercise 04

$11.\,$ Display the Status and the Count of Suppliers with that Status in the specified format:

```
SELECT CASE Status

WHEN 10 THEN 'Ten'
WHEN 20 THEN 'Twenty'
WHEN 30 THEN 'Thirty'
ELSE 'Unknown'
END AS Status,
COUNT(*) AS Count
FROM Supplier
GROUP BY Status;
```

Exercise 04