Assignment-4

1. Display the minimum Status in the Supplier table.

```
cdac=# select min(status) from s;
min
----
10
(1 row)
```

2. Display the maximum Weight in the Parts table.

```
cdac=# select max(weight) from P;
max
----
19
(1 row)
```

3. Display the average Weight of the Parts.

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

```
cdac=# select sum(quantity) from spj where pno='P1';
sum
-----
1000
(1 row)
```

```
cdac=# select sum(quantity),p1.PNO from SPJ s1 join P p1 on s1.PNO=p1.PNO where p1.PNO='P1' group by p1.PNO;;
sum | pno
-----+
1000 | P1
(1 row)
```

5. Display the total Quantity sold for each part.

```
cdac=# select distinct pno, sum(quantity) from spj group by pno;
pno | sum
----+----
P1 | 1000
p3 | 3500
P2 | 300
P5 | 1100
p4 | 1300
p6 | 800
(6 rows)
```

```
cdac=# select sum(quantity),p1.PNO from SPJ s1 join P p1 on s1.PNO=p1.PNO group by p1.PNO;
    sum | pno
----+---
800 | P6
1100 | P5
300 | P2
3500 | p3
1300 | p4
1000 | P1
(6 rows)
```

6. Display the average Quantity sold for each part.

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

```
cdac=# select max(quantity) from spj group by pno having max(quantity)>800;
max
----
(0 rows)

cdac=# select max(quantity) from spj group by pno having max(quantity)>=800;
max
----
800
800
```

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

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

```
cdac=# select * from J;
jno | jname | city
----+----
J1 | Sorter | Paris
J2
    | Display | Rome
J3
    | OCR | Athens
J4 | Console | Athens
J5 | RAID | London
J6 | EDS | Oslo
J7 | ARP | London
(7 rows)
cdac=# select city,count(jname) as no_of_project_allocated from J group by city;
city | no of project allocated
Rome |
Oslo
                             1
       - 1
Paris |
                             1
London |
Athens |
```

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

(5 rows)

```
cdac=# select count(status) from s;
  count
-----
    5
(1 row)

cdac=# select count(*) from s;
  count
-----
    5
(1 row)
```

Count(*) count all rows including null, but count(columnname) count only no null.

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

Status Count

Ten 1

Twenty 2

Thirty 3