**Exercise 4**

1. Display the minimum Status in the Supplier table.

mysql> select min(Status) Minimum from s;

+---------+

| Minimum |

+---------+

| 10 |

+---------+

1 row in set (0.00 sec)

2. Display the maximum Weight in the Parts table.

mysql> select max(Weight) as Max from P;

+-------+

| Max |

+-------+

| 25.45 |

+-------+

1 row in set (0.00 sec)

3. Display the average Weight of the Parts.

mysql> select avg(Weight) Average from P;

+-----------+

| Average |

+-----------+

| 15.582500 |

+-----------+

1 row in set (0.00 sec)

s

4. Display the total Quantity sold for part ‘P1’.

mysql> select p\_no,sum(Qty) "Total Quantity"

-> from spj

-> where P\_no='p1';

+------+----------------+

| p\_no | Total Quantity |

+------+----------------+

| P1 | 350 |

+------+----------------+

1 row in set (0.00 sec)

5. Display the total Quantity sold for each part.

mysql> select p\_no,sum(Qty) "Total Quantity"

-> from spj

-> group by p\_no;

+------+----------------+

| p\_no | Total Quantity |

+------+----------------+

| P1 | 350 |

| P2 | 350 |

| P3 | 300 |

+------+----------------+

3 rows in set (0.00 sec)

6. Display the average Quantity sold for each part.

mysql> select p\_no,avg(Qty) "Average"

-> from spj

-> group by p\_no;

+------+----------+

| p\_no | Average |

+------+----------+

| P1 | 175.0000 |

| P2 | 175.0000 |

| P3 | 300.0000 |

+------+----------+

3 rows in set (0.00 sec)

se

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

is greater than 2s00.

mysql> select p\_no, max(Qty) from Spj

-> where Qty>200

-> group by p\_no;

+------+----------+

| p\_no | max(Qty) |

+------+----------+

| P1 | 250 |

| P3 | 300 |

+------+----------+

2 rows in set (0.00 sec)

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

mysql> select Status,count(status) count from s

-> group by status;

+--------+-------+

| Status | count |

+--------+-------+

| 10 | 1 |

| 20 | 1 |

| 30 | 2 |

| 40 | 1 |

| 60 | 1 |

| 70 | 1 |

+--------+-------+

6 rows in set (0.00 sec)

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

mysql> select J\_no,Jname,count(\*) count from J

-> group by j\_no;

+------+-----------+-------+

| J\_no | Jname | count |

+------+-----------+-------+

| J1 | Project 1 | 1 |

| J2 | Project 2 | 1 |

| J3 | Project 3 | 1 |

| J6 | Tina | 1 |

+------+-----------+-------+

4 rows in set (0.00 sec)

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

Use COUNT(Status) when you want to count only the rows where Status is not NULL.

Use COUNT(\*) when you want to count all rows, regardless of NULL values.

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