# Assignment 3 -SQL

Name: Krunal Rank
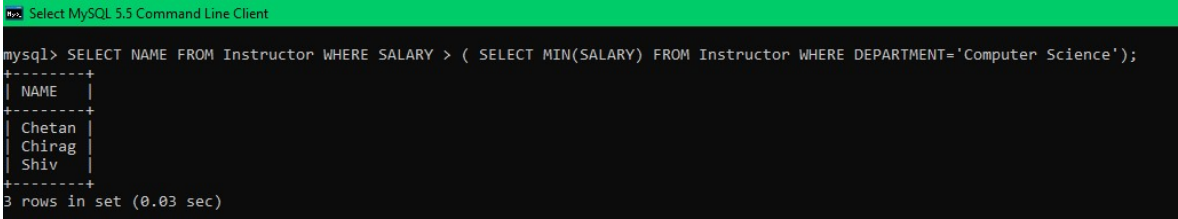
Roll No: U18CO081

Class: BTech 2nd Year

Division: B
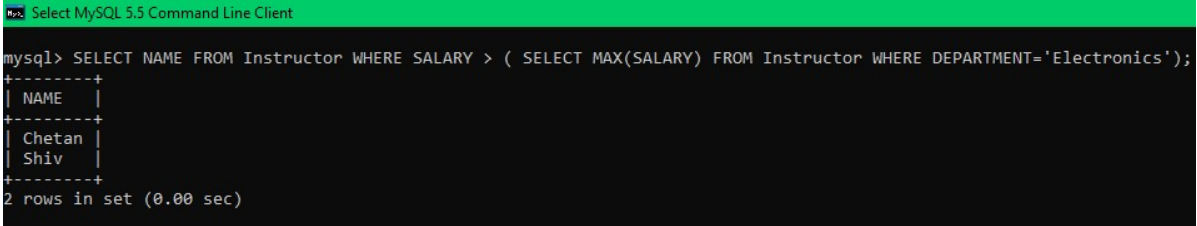
1.

```
SELECT NAME FROM Instructor WHERE SALARY> (SELECT MIN(SALARY)
FROM Instructor WHERE DEPARTMENT='Computer Science');
```

```
Select MySQL 5.5 Command Line Client

mysql> SELECT NAME FROM Instructor WHERE SALARY > ( SELECT MIN(SALARY) FROM Instructor WHERE DEPARTMENT='Computer Science');
+--------+
| NAME   |
+--------+
| Chetan |
| Chirag |
| Shiv   |
+--------+
3 rows in set (0.03 sec)
```
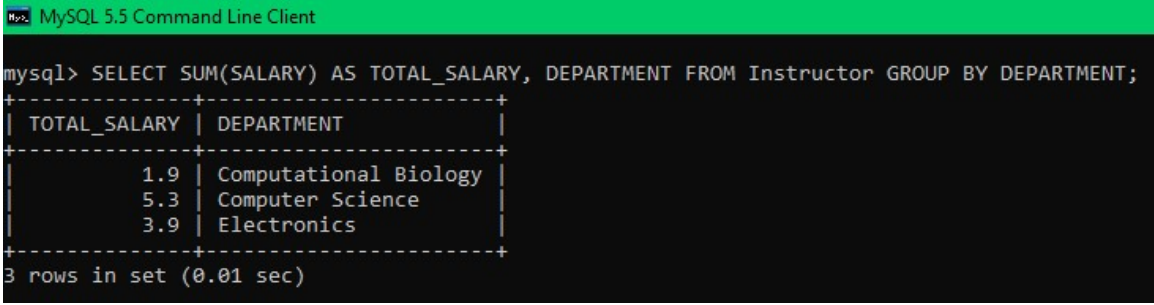
2.

```
SELECT NAME FROM Instructor WHERE SALARY > (SELECT MAX(SALARY)
FROM Instructor WHERE DEPARTMENT='Electronics');
```

```
Select MySQL 5.5 Command Line Client

mysql> SELECT NAME FROM Instructor WHERE SALARY > ( SELECT MAX(SALARY) FROM Instructor WHERE DEPARTMENT='Electronics');
+--------+
| NAME   |
+--------+
| Chetan |
| Shiv   |
+--------+
2 rows in set (0.00 sec)
```

3.

```
SELECT SUM(SALARY) AS TOTAL_SALARY, DEPARTMENT FROM Instructor
GROUP BY DEPARTMENT;
```
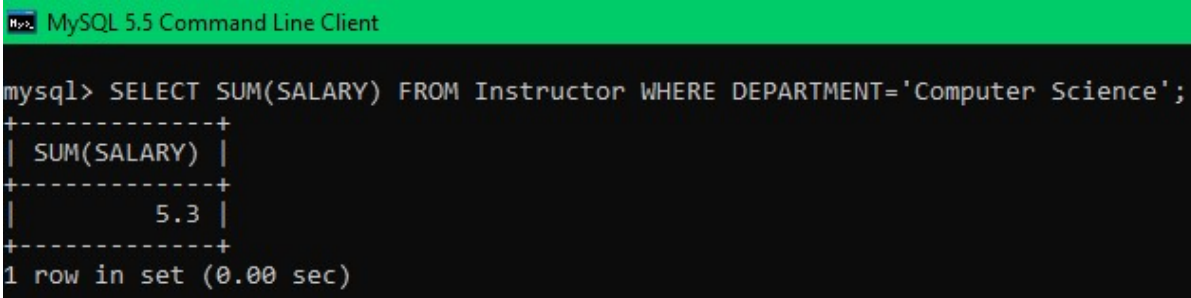
```
MySQL 5.5 Command Line Client

mysql> SELECT SUM(SALARY) AS TOTAL_SALARY, DEPARTMENT FROM Instructor GROUP BY DEPARTMENT;
+--------------+----------------------+
| TOTAL_SALARY | DEPARTMENT           |
+--------------+----------------------+
|          1.9 | Computational Biology |
|          5.3 | Computer Science      |
|          3.9 | Electronics           |
+--------------+----------------------+
3 rows in set (0.01 sec)
```

4.

```
SELECT SUM(SALARY) FROM Instructo WHERE DEPARTMENT='Computer
Science';
```
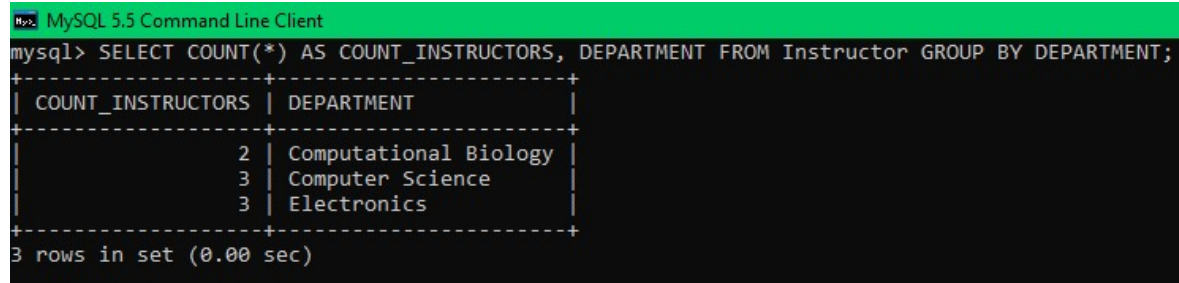
```
MySQL 5.5 Command Line Client

mysql> SELECT SUM(SALARY) FROM Instructor WHERE DEPARTMENT='Computer Science';
+-------------+
| SUM(SALARY) |
+-------------+
|         5.3 |
+-------------+
1 row in set (0.00 sec)
```

5.

```
SELECT COUNT(*) AS COUNT_INSTRUCTORS,DEPARTMENT FROM
Instructor GROUP BY DEPARTMENT;
```

```
MySQL 5.5 Command Line Client
mysql> SELECT COUNT(*) AS COUNT_INSTRUCTORS, DEPARTMENT FROM Instructor GROUP BY DEPARTMENT;
+-------------------+----------------------+
| COUNT_INSTRUCTORS | DEPARTMENT           |
+-------------------+----------------------+
|                 2 | Computational Biology |
|                 3 | Computer Science     |
|                 3 | Electronics          |
+-------------------+----------------------+
3 rows in set (0.00 sec)
```
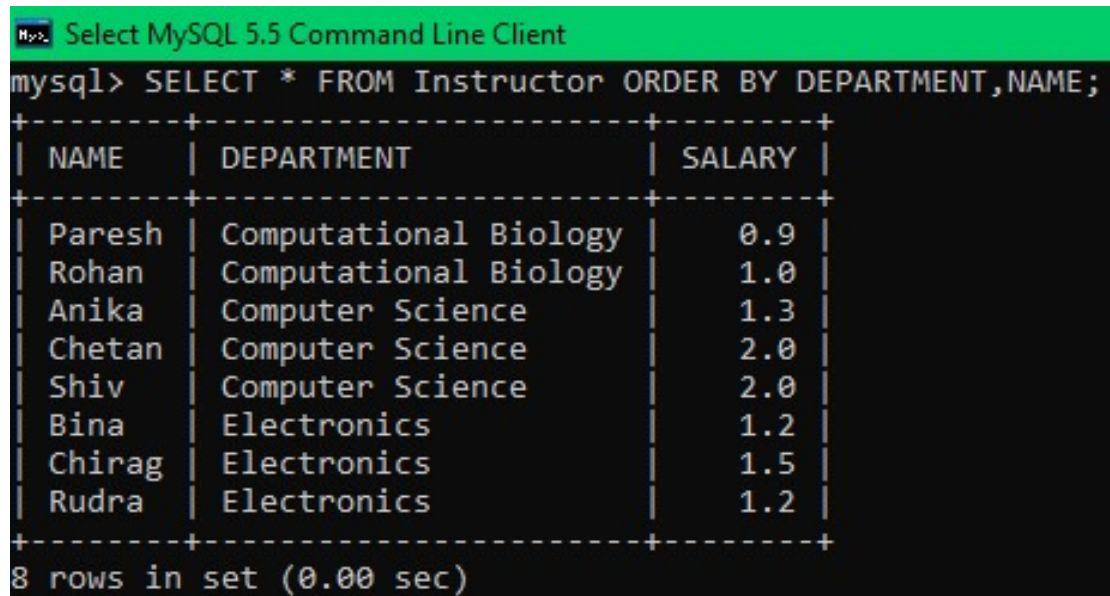
6.

```
SELECT * FROM Instructor ORDER BY DEPARTMENT, NAME;
```

```
Select MySQL 5.5 Command Line Client
mysql> SELECT * FROM Instructor ORDER BY DEPARTMENT,NAME;
+--------+----------------------+--------+
| NAME   | DEPARTMENT           | SALARY |
+--------+----------------------+--------+
| Paresh | Computational Biology |    0.9 |
| Rohan  | Computational Biology |    1.0 |
| Anika  | Computer Science     |    1.3 |
| Chetan | Computer Science     |    2.0 |
| Shiv   | Computer Science     |    2.0 |
| Bina   | Electronics          |    1.2 |
| Chirag | Electronics          |    1.5 |
| Rudra  | Electronics          |    1.2 |
+--------+----------------------+--------+
8 rows in set (0.00 sec)
```

7.

```
UPDATE Instructor

    SET SALARY =

        ( CASE

            WHEN DEPARTMENT='Computer Science'

            THEN 1.05*SALARY

            WHEN DEPARTMENT='Electronics'

            THEN 1.07*SALARY

            ELSE 1.09*SALARY

        END );
```

```
mysql> UPDATE Instructor
    -> SET SALARY =
    -> ( CASE
    ->          WHEN DEPARTMENT='Computer Science' THEN 1.05* SALARY
    ->          WHEN DEPARTMENT='Electronics' THEN 1.07*SALARY
    ->          ELSE 1.09*SALARY
    ->  END);
Query OK, 8 rows affected (0.04 sec)
Rows matched: 8  Changed: 8  Warnings: 0

mysql> SELECT * FROM Instructor;
+--------+----------------------+--------+
| NAME   | DEPARTMENT           | SALARY |
+--------+----------------------+--------+
| Anika  | Computer Science     | 1.3650 |
| Bina   | Electronics          | 1.2840 |
| Chetan | Computer Science     | 2.1000 |
| Chirag | Electronics          | 1.6050 |
| Paresh | Computational Biology | 0.9810 |
| Rohan  | Computational Biology | 1.0900 |
| Rudra  | Electronics          | 1.2840 |
| Shiv   | Computer Science     | 2.1000 |
+--------+----------------------+--------+
8 rows in set (0.00 sec)
```