

Assignment 3 -SQL

Name: Krunal Rank

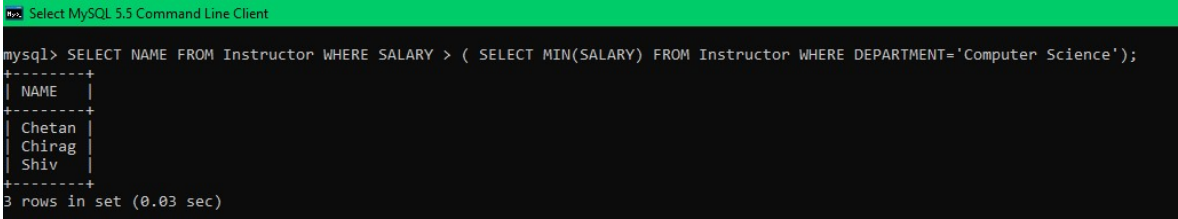
Roll No: U18CO081

Class: BTech 2nd Year

Division: B

1.

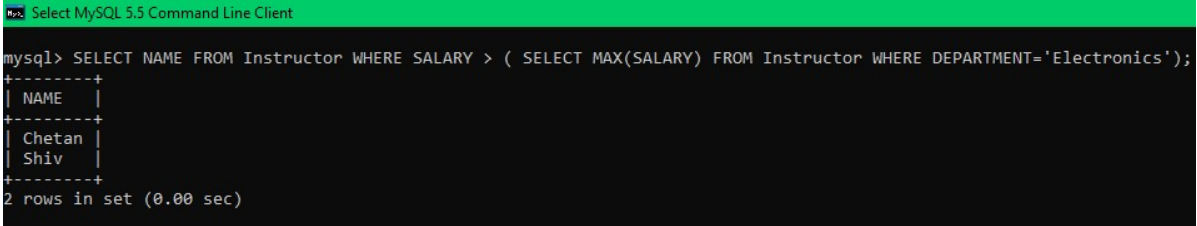
```
SELECT NAME FROM Instructor WHERE SALARY > (SELECT MIN(SALARY)
FROM Instructor WHERE DEPARTMENT='Computer Science');
```



```
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.

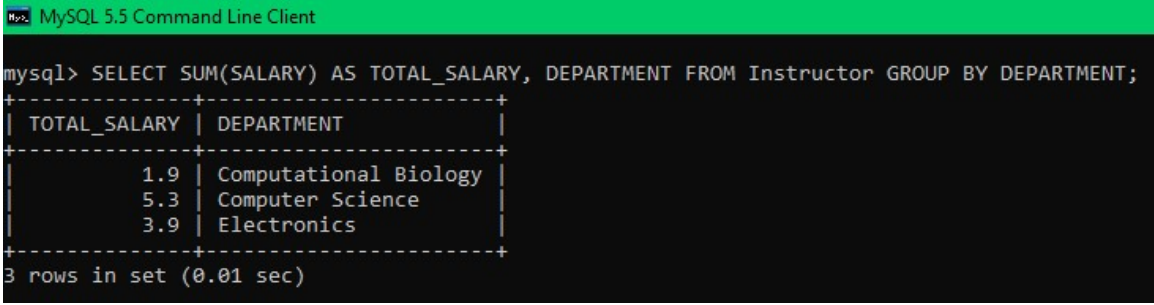
```
SELECT NAME FROM Instructor WHERE SALARY > (SELECT MAX(SALARY)
FROM Instructor WHERE DEPARTMENT='Electronics');
```



```
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;
```



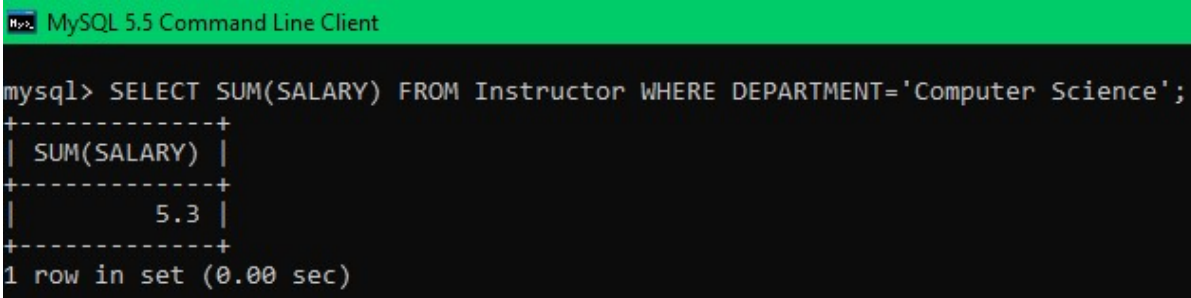
A screenshot of the MySQL 5.5 Command Line Client window. The title bar is green and says "MySQL 5.5 Command Line Client". The command prompt shows the query: `mysql> SELECT SUM(SALARY) AS TOTAL_SALARY, DEPARTMENT FROM Instructor GROUP BY DEPARTMENT;`. The output is a table with two columns: `TOTAL_SALARY` and `DEPARTMENT`. The data rows are: `1.9 | Computational Biology`, `5.3 | Computer Science`, and `3.9 | Electronics`. The output is formatted with dashed lines and vertical bars. At the bottom, it says "3 rows in set (0.01 sec)".

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 Instructor WHERE DEPARTMENT='Computer  
Science';
```



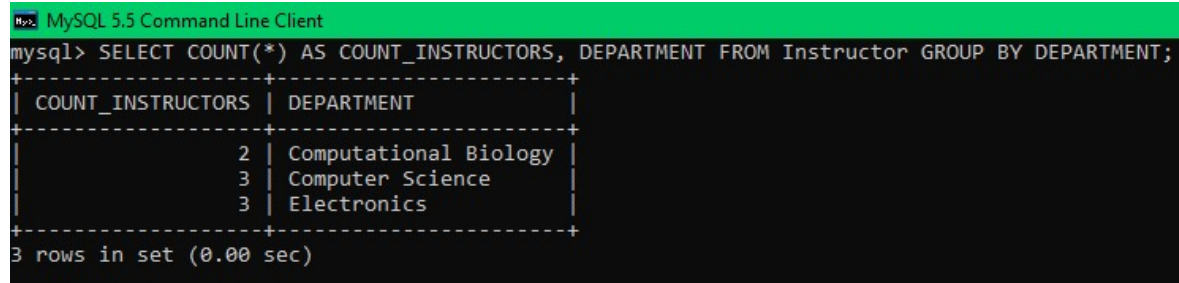
A screenshot of the MySQL 5.5 Command Line Client window. The title bar is green and says "MySQL 5.5 Command Line Client". The command prompt shows the query: `mysql> SELECT SUM(SALARY) FROM Instructor WHERE DEPARTMENT='Computer Science';`. The output is a table with one column: `SUM(SALARY)`. The data row is: `5.3`. The output is formatted with dashed lines and vertical bars. At the bottom, it says "1 row in set (0.00 sec)".

SUM(SALARY)
5.3

1 row in set (0.00 sec)

5.

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



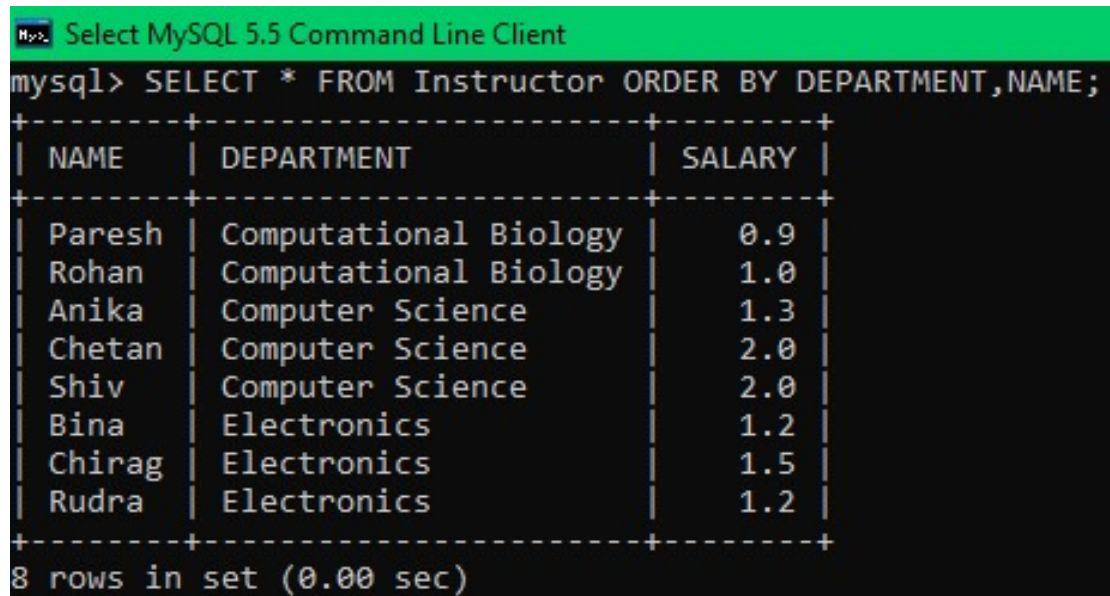
The screenshot shows the MySQL 5.5 Command Line Client window. The command entered is `mysql> SELECT COUNT(*) AS COUNT_INSTRUCTORS, DEPARTMENT FROM Instructor GROUP BY DEPARTMENT;`. The output is a table with two columns: `COUNT_INSTRUCTORS` and `DEPARTMENT`. The data is as follows:

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;
```



The screenshot shows the MySQL 5.5 Command Line Client window. The command entered is `mysql> SELECT * FROM Instructor ORDER BY DEPARTMENT, NAME;`. The output is a table with three columns: `NAME`, `DEPARTMENT`, and `SALARY`. The data is as follows:

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 5.5 Command Line Client
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)
```