LAB 4 SET OPERATIONS & AGGREGATE FUNCTIONS

Prepare Lab Sheet of MYSQL Statements for the following.

1. Create tables Teacher (Id INT PRIMARY KEY, Tname VARCHAR(20)) and Student (id INT PRIMARY KEY, Sname VARCHAR(20));

Teacher Table:

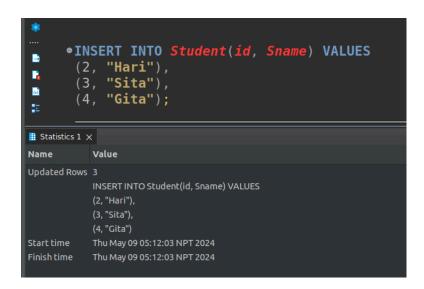
```
• CREATE TABLE Teacher (
        Id INT PRIMARY KEY,
Tname VARCHAR(20)
G
        );
(x)
讍
■ Statistics 1 ×
Name
           Value
Updated Rows 0
           CREATE TABLE Teacher (
           Id INT PRIMARY KEY,
           Tname VARCHAR(20)
Start time
           Thu May 09 04:59:31 NPT 2024
Finish time
           Thu May 09 04:59:31 NPT 2024
```

Student Table:

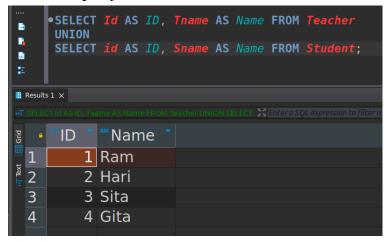
```
•CREATE TABLE Student(
id INT PRIMARY KEY,
G,
        Sname VARCHAR(20)
(x)
讍

■ Statistics 1 ×
            Value
Name
Updated Rows 0
            CREATE TABLE Student(
            id INT PRIMARY KEY,
            Sname VARCHAR(20)
Start time
           Thu May 09 05:02:46 NPT 2024
Finish time
            Thu May 09 05:02:46 NPT 2024
```

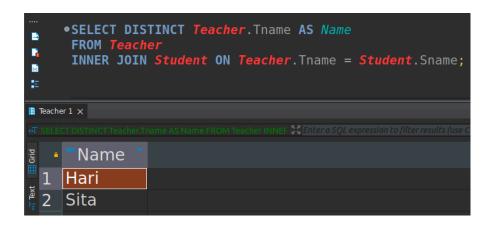
2. Insert values like {(1, "Ram"), (2, "Hari"), (3, "Sita")} in Teacher and {("2, "Hari"), (3, "Sita"), (4, "Gita")} in Student.



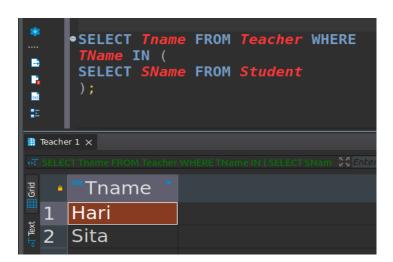
3. Write a query to find the Union of "Teacher" and "Student" tables.



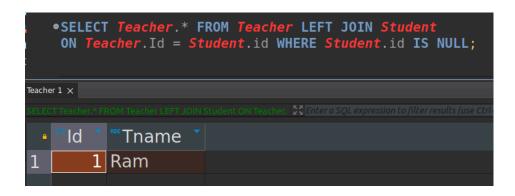
- 4. Write a query to find the Intersection of Teacher and Student.
- 5. Write a query to find the intersection of the names Teacher and Student using Distinct and Inner Join.



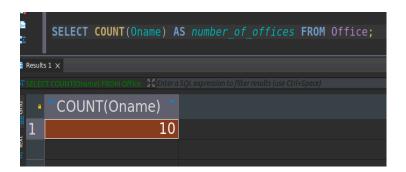
6. Write a query to find the intersection of names Teacher and Student using IN and Sub query



7. Write a query to find Teacher MINUS Student using Left Join



8. Find the number of offices in the Office table from the COMPANY Database in Lab-1 using the COUNT function.



9. Write a query to count the distinct names of Employees.



10. Write a query to find the sum of the salary of Employees.

```
SELECT SUM(Salary) AS salary_sum FROM EMPLOYEE;

Results 1 ×

THEORY WASHING AS SELECT SUM(Salary) AS SELECT SQL expression to filter results (use Ctrl+Space)

***Salary_sum**

1 685,000
```

11. Write a query to find the average salary of Employees.

12. Write a query to find the Maximum PF Amount from the PF Table.

```
SELECT MAX (Amount) AS maximum_pf_amount FROM PF;

Results 1 x

TSHACTIMAX(Amount) AS maximum_pf_amount = 50 Enter a SQL expression to filter results (use Ctrl+Space)

a 123 maximum_pf_amount  

6,000
```

13. Write a query to find the Minimum PF Amount from the PF Table.