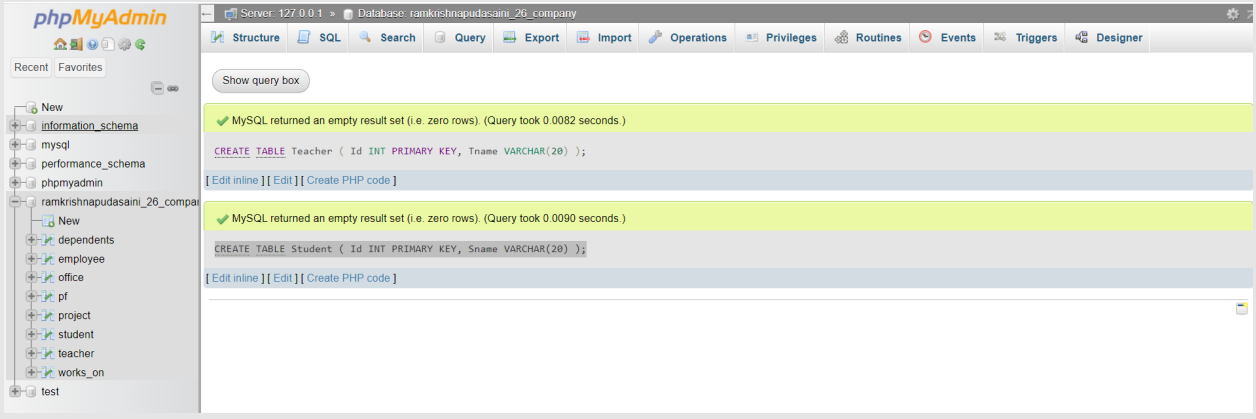
LAB Assignment - 4

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

```
CREATE TABLE Teacher ( Id INT PRIMARY KEY, Tname VARCHAR(20) );CREATE TABLE Teacher ( Id INT PRIMARY KEY, Tname VARCHAR(20) );

CREATE TABLE Student ( Id INT PRIMARY KEY, Sname VARCHAR(20) );
```



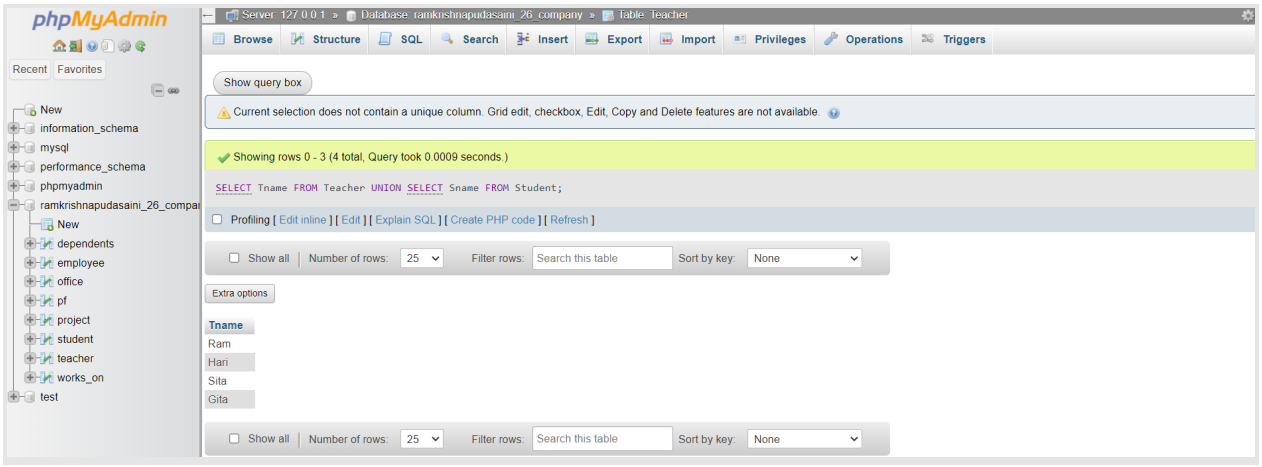
2. Insert values like {("1,"Ram"), (2,"Hari"), (3,"Sita")} in Teacher and {("2,"Hari"), (3,"Sita"), (4,"Gita")} in Student.

```
INSERT INTO Teacher (Id, Tname) VALUES (1, 'Ram'), (2, 'Hari'), (3, 'Sita');

INSERT INTO Student (Id, Sname) VALUES (2, 'Hari'), (3, 'Sita'), (4, 'Gita');
```

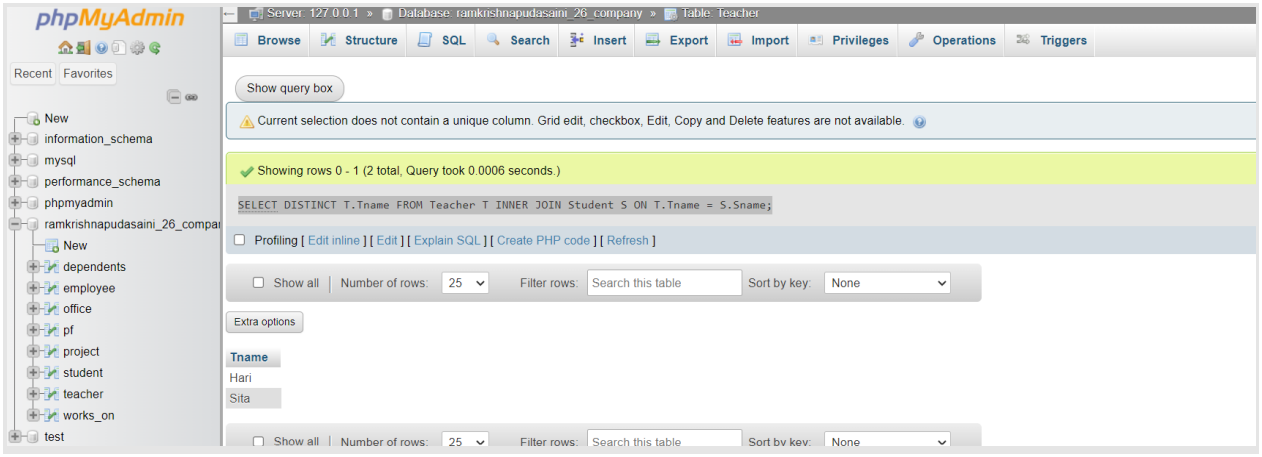
3. Write query to find names of Union of Teacher and Student.

```
SELECT Tname FROM Teacher UNION SELECT Sname FROM Student;
```



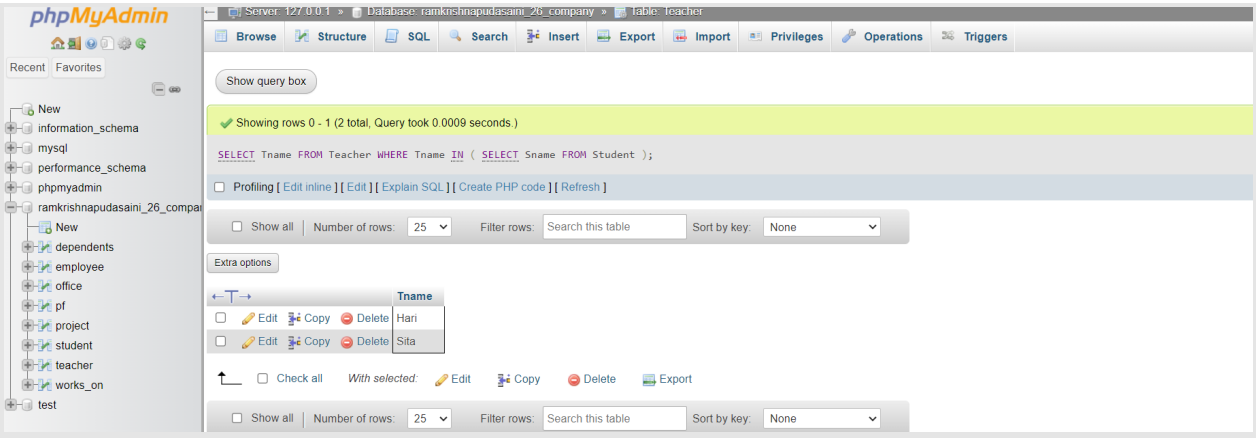
4. Write query to find intersection of names Teacher and Student using Distinct and Inner Join

```
SELECT DISTINCT T.Tname FROM Teacher T INNER JOIN Student S ON T.Tname = S.Sname;
```



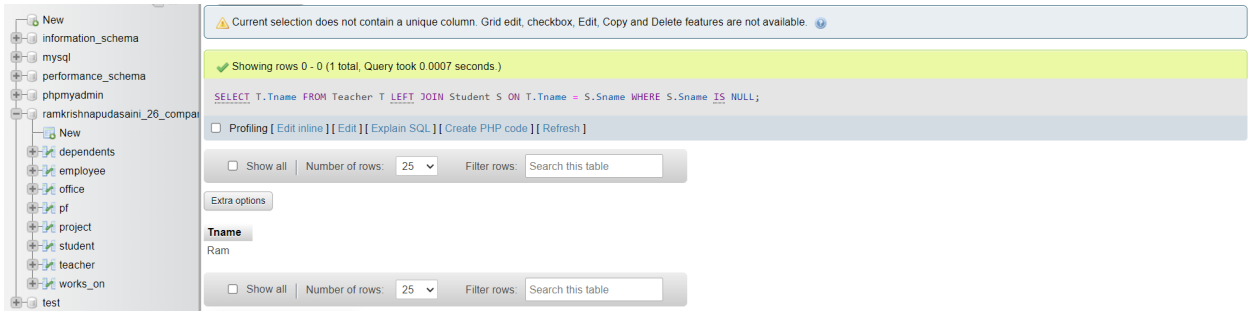
5. Write query to find intersection of names Teacher and Student using IN and Sub query

```
SELECT Tname FROM Teacher WHERE Tname IN ( SELECT Sname FROM Student );
```



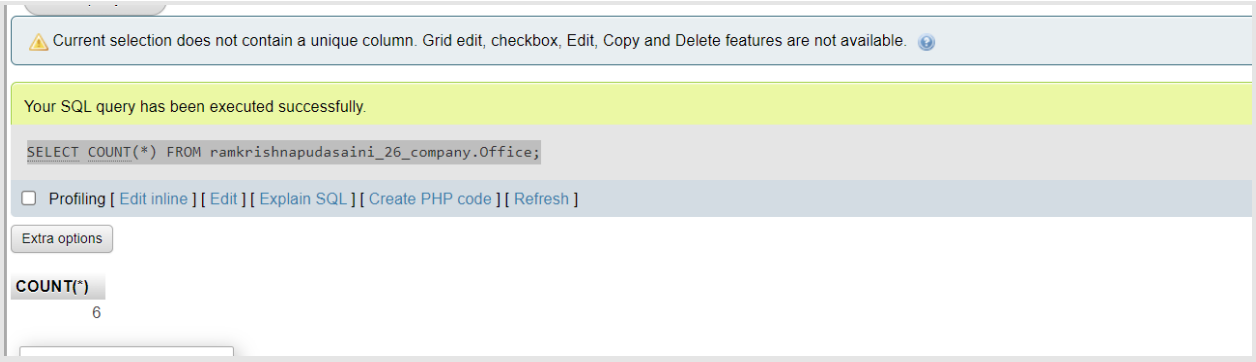
6. Write query to find Teacher MINUS Student using Left Join

```
SELECT T.Tname FROM Teacher T LEFT JOIN Student S ON T.Tname = S.Sname WHERE S.Sname IS NULL;
```



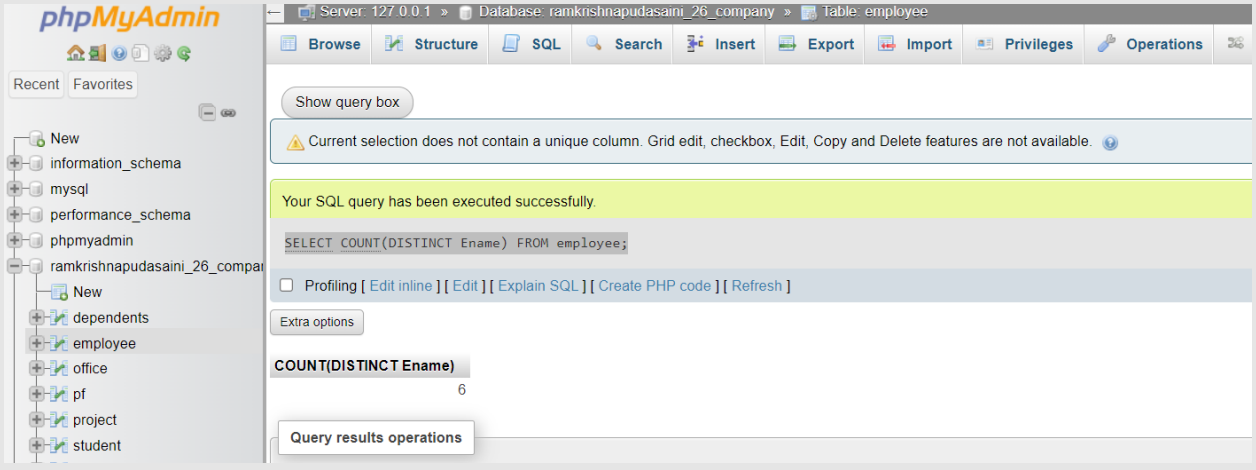
7. Find the number of offices in the Office table from the COMPANY Database in Lab-1 using COUNT function.

```
SELECT COUNT(*) FROM ramkrishnapudasaini_26_company.Office;
```



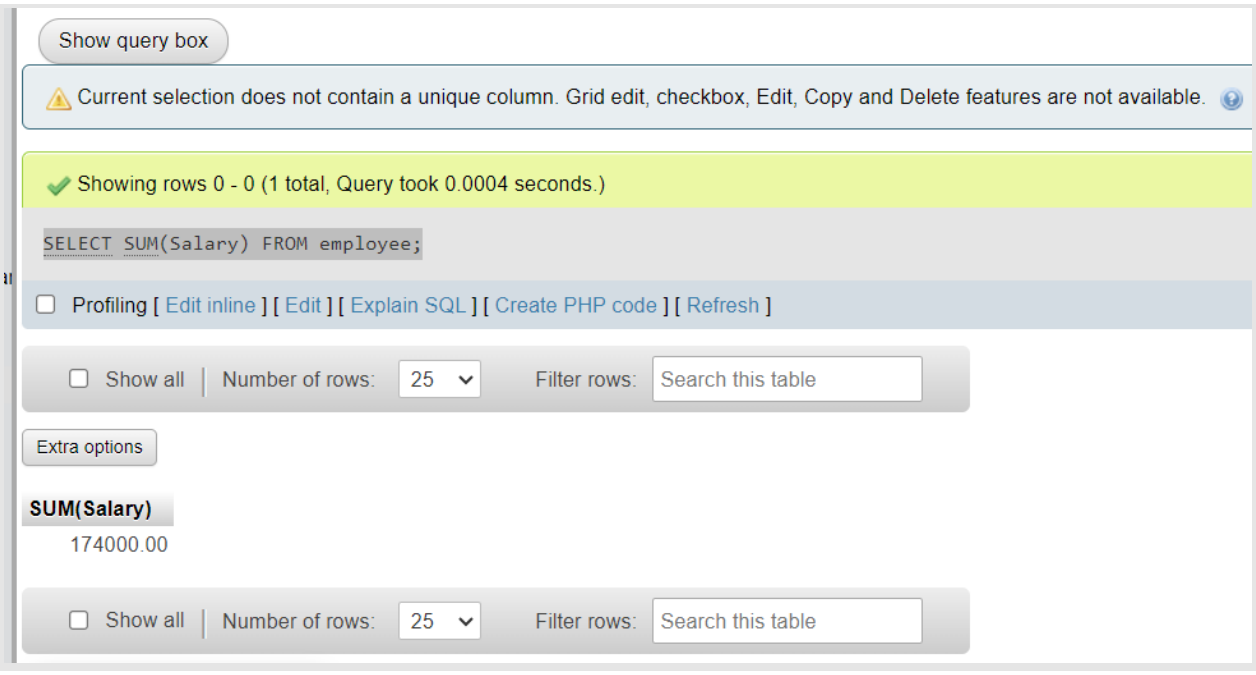
8. Write a query to count the distinct names of Employees.

```
SELECT COUNT(DISTINCT Ename) FROM employee;
```



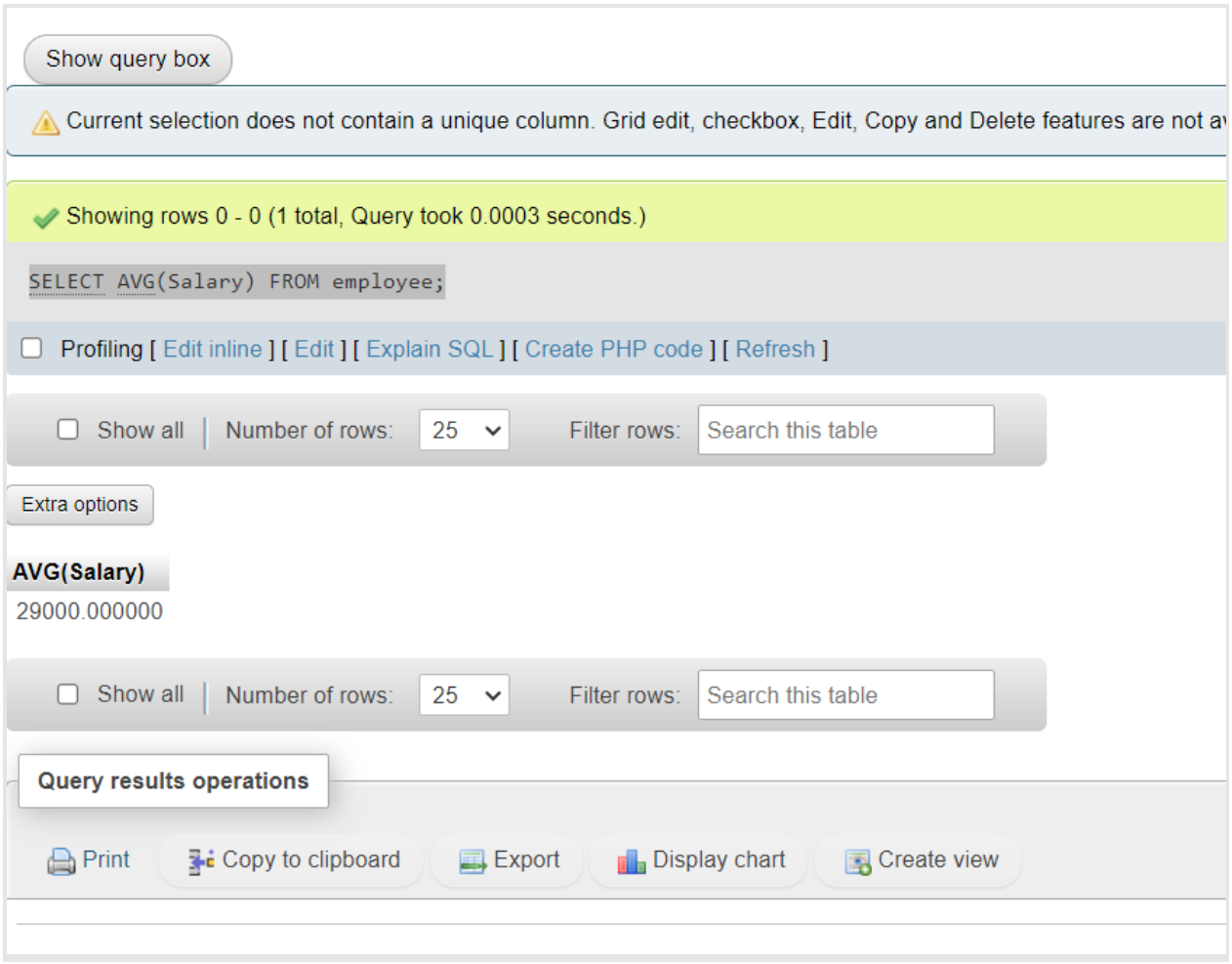
9. Write a query to find sum of salary of Employees.

```
SELECT SUM(Salary) FROM employee;
```



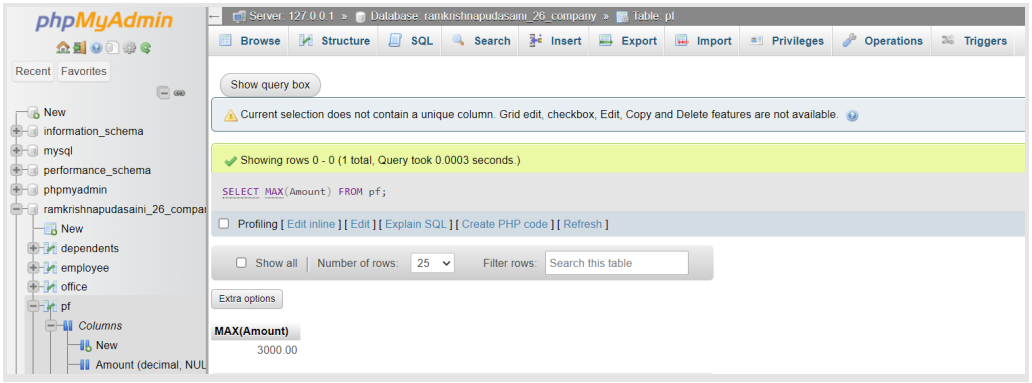
10. Write a query to find average of salary of Employees.

```
SELECT AVG(Salary) FROM employee;
```



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

```
SELECT MAX(Amount) FROM pf;
```



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

```
SELECT MIN(Amount) FROM pf;
```