LAB ASSIGNMENT 3

1. Select the names of employees and their dependents without using JOIN.

```
SELECT (SELECT Ename FROM employee WHERE SSN = dependents.SSN) AS
EmployeeName, Dname AS DependentName FROM dependents;
```


2. Select the names of employees and their dependents without using INNER JOIN and order the result based on the dependents name.

```
SELECT (SELECT Ename FROM Employee WHERE SSN = dependents.SSN) AS
EmployeeName, Dname AS DependentName FROM dependents ORDER BY Dname;
```

3.   Use JOIN between Employee, Project and Works_on and retrieve the name of employees and the projects on which they work.

```sql
SELECT employee.Ename AS EmployeeName, project.Pname AS ProjectName FROM
employee JOIN works_on ON employee.SSN = works_on.ESSN JOIN project ON
works_on.Pno = project.Pnumber;
```


4.   Use Inner join between Employee and PF table with the join condition, Employee.SSN=PF.SSN and Employee.Salary>PF.Amount

```sql
SELECT employee.Ename AS EmployeeName, pf.Amount FROM employee INNER JOIN pf
ON employee.SSN = pf.SSN WHERE employee.Salary > pf.Amount;
```

5.   Write a query to show the results of Left and Right Join between Office and Project.

```sql
SELECT office.Oname, project.Pname FROM office LEFT JOIN project ON office.Onumber = Project.Onumber;
```

Showing rows 0 - 8 (9 total, Query took 0.0005 seconds.)

SELECT office.Oname, project.Pname FROM office LEFT JOIN project ON office.Onumber = Project.Onumber;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: [Search this table]   Sort by key: None ⌄

[Extra options]

Oname	Pname
Office2	Project2
RamKrishna_Office_26	Project3
Office2	Project4
RamKrishna_Office_26	Project5
RamKrishna_Office_26	RamkrishnaPudasaini_ProjMDS
Office3	NULL
Office4	NULL
Office5	NULL
RamKrishna_9843342697_26	NULL

Right Join

```sql
SELECT office.Oname, project.Pname FROM office RIGHT JOIN project ON office.Onumber = Project.Onumber;
```

Showing rows 0 - 4 (5 total, Query took 0.0006 seconds.)

SELECT office.Oname, project.Pname FROM office RIGHT JOIN project ON office.Onumber = Project.Onumber;

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄   Filter rows: [Search this table]   Sort by key: None ⌄

[Extra options]

Oname	Pname
Office2	Project2
RamKrishna_Office_26	Project3
Office2	Project4
RamKrishna_Office_26	Project5
RamKrishna_Office_26	RamkrishnaPudasaini_ProjMDS

6.   Write a query to show the results of Cross Join between Employee and PF tables.
```sql
SELECT employee.Ename AS EmployeeName, pf.Amount FROM employee CROSS JOIN pf;
```


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      - Did (PRI, int)
      - Dname (varchar, N
      - Drelation (varchar,
      - SSN (MUL, int, NU
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  - employee
    - Columns
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      - Bdate (date, NULL
      - Ename (varchar)
      - Gender (char, NUL
      - Matrital_status (va
      - Ono (MUL, int, NU
      - Salary (decimal, 0.
      - SSN (PRI, int)
      - Years_of_experien
    - Indexes
  - office
    - Columns

Server: 127.0.0.1 » Database: ramkrishnapudasaini_26_company

Structure | SQL | Search | Query | Export | Import | Operations

```sql
SELECT employee.Ename AS EmployeeName, pf.Amount FROM employee CROSS JOIN pf;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

EmployeeName	Amount
RamKrishnaPudasaini	1000.00
Deric	1000.00
John	1000.00
Jane	1000.00
David	1000.00
Emily	1000.00
RamKrishnaPudasaini	1500.00
Deric	1500.00
John	1500.00
Jane	1500.00
David	1500.00
Emily	1500.00
RamKrishnaPudasaini	1500.00
Deric	1500.00
John	1500.00
Jane	1500.00
David	1500.00
Emily	1500.00
RamKrishnaPudasaini	3000.00
Deric	3000.00
John	3000.00
Jane	3000.00
David	3000.00
Emily	3000.00
RamKrishnaPudasaini	2500.00

7.   Show results of using natural join between Employee and PF.

```sql
SELECT employee.Ename AS EmployeeName, pf.Amount FROM employee NATURAL JOIN pf;
```


8.   Find the number of employees and status in each status of "Married", "Single", "Divorced". Use the COUNT function with the GROUP BY clause with status.
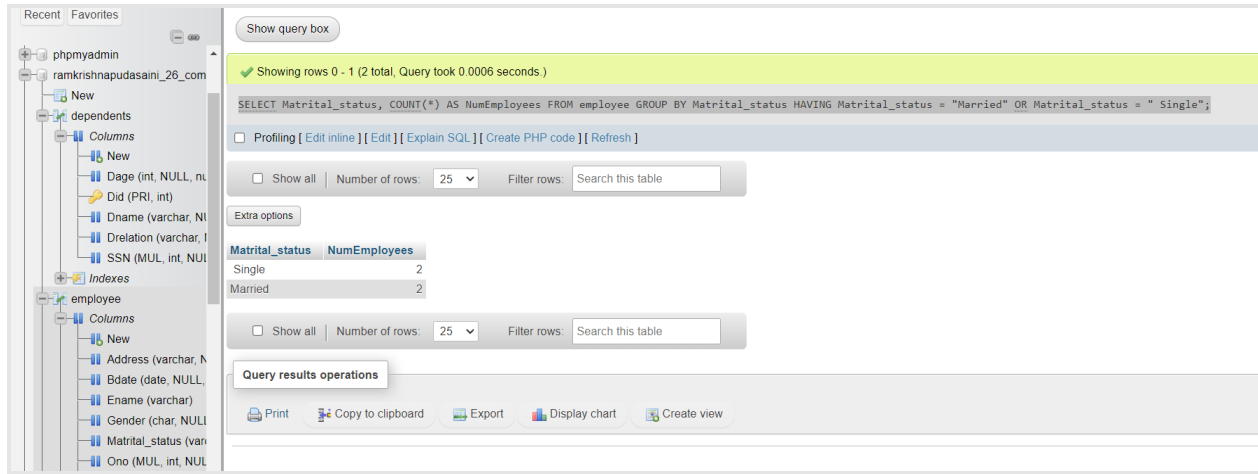
```sql
SELECT Matrital_status, COUNT(*) AS NumEmployees FROM employee GROUP BY Matrital_status;
```

9.   Find the number of employees and status in each status of "Married" OR "Single". Use the COUNT function with the GROUP BY clause with status and Having clause with status = "Married" OR "Single"

```
SELECT Matrital_status, COUNT(*) AS NumEmployees FROM employee GROUP BY
Matrital_status HAVING Matrital_status = "Married" OR Matrital_status = "
Single";
```


10.   Using sub query, select the name and location of projects whose Onumber is in the Onumber of the offices located in country Nepal and India.

```
SELECT Pname, Proj_location FROM project WHERE Onumber IN (SELECT Onumber FROM
office WHERE Country IN ('Nepal', 'India'));
```