I. Create two table named .

1. Employee with attributes Emp_no, Emp_name, dept, Join_date, Salary, Place.

```
CREATE DATABASE COMPANY;

USE COMPANY;

Create table Employee (

Emp_no int Not null,

Emp_name varchar(20) Not null,

dept varchar(20) Not null;
Join_date date Not null,
Salary int, Not null,

Place varchar (20) Not null,

PRIMARY KEY (Emp_no)
);
```

Inserting values

```
Insert into Employee values (
                    'Sales',
(1, 'Rishi', '8-4-2019', 8000, 'Kasaragod')
                    'Manager',
(2, 'Adicker', '14-4-2018', 15000, 'Palakkad'),
```

(2)

(3, 'Sridha', 'Manager', '3-8-2018', 15000, 'Kottayam'),

(4, 'Reetha', 'clerk', '4-7-2019', 10000, 'kannur'),

(5, 'Riya', 'clerk', '5-8-2019', 10000, 'Trivandrum');

Select * from Employee;

Emp-no	Emp-name	dept	Join_date	Salary	Place
1	Rishi	sales	8-4-2019	8000	kasaragod
2	Adicler	Manager	14-4-2018	15,000	Palakkad
3.	Sridha	Manager	3-8-2018	15,000	Kottayam
4.	Reetha	clerk	4-7-2019	10,000	Kannur
5.	Riya	clerk	5-8-2019	10000	Trivandrum

2. Manager with attribute Mang-id, Mang-name, dept.

```
Create table Manager (
    Mang_id int NOT NULL,
    Mang-name varchar (20) NOT NULL,
    dept varchar (20) NOT NULL,
```

```
PRIMARY KEY (Mang_id)
);
```

Inserting values:

```
insert into manager values
((6, 'kauthika', 'Finance'),
 (7, 'Ambika', 'Marketing'),
 (8, 'Jon', 'production'),
 (9, 'Abi', 'Sales'),
 (10, 'Tessa', 'purchasing'));
```

```
select * from Managers;
```

Mang_id	Mang_name	dept
6	kauthika	Finance
7	Ambika	Marketing
8	Jon	Production
9	Abi	Sales
10	Tessa	Purchasing

(4)

9) Write down query in order to perform any kind of relational algebraic operation such as select, project, union difference, intersection, ~~and~~ operation.

Select σ

σ Mang_id = 6 and dept = "Finance" (Manager)

Mang_id	Mang_name	dept
6	Karthika	Finance

Project (Π)

Π Emp_no, Emp_name (Employee)

Emp_no	Emp_name
1	Rishi
2	Adidev
3	Sridha
4	Reetha
5	Riya

Union ($\cup$)

Π dept (Employee) $\cup$ Π dep (Manager)

dept
Sales
Manager
clerk
Finance
Marketing
Production
Purchasing

Difference

$\Pi_{dept}(manager) - \Pi_{dept}(Employee)$

dept
Finance
Marketing
Production
Purchasing

Intersection ($\cap$)

$\Pi_{dep}(Employee) \cap \Pi_{dept}(Manager)$

dept
Sales

3) Write down query to perform all join operation excluding cross join.

Inner join

Select * from Employee join Managers on Employee.dept = Manager.dept.

Emp-id	Emp-name	dept	Join-date	Salary	Place	Mang-id	Mang-name
1 ~~Rishi~~	Rishi	Sales	8-4-2019	8000	Kasaragod	9	Abi

Left Outer joint

Select Employee.Emp-id, Employee.Emp-name Manger.Mang-name from Employee. left join Manager ~~Mang-name~~ on Employee.dept = Manager.dept.

Emp-name	Emp-id	Mangname
Rishi	1	Abi

(7)

Right outer join

Select employee.Emp-name, Employee.salary Manager.dept from Employee Right join on Employee.dept = Manager.dept

Emp-name	Emp-salary	dept
Rishi	8000	Sales