

# Module-3

## Assignment

### CODE:

```
CREATE TABLE Teacher(  
    emp_id numeric(4) NOT NULL,  
    first_name varchar(20) NOT NULL,  
    last_name varchar(20) NOT NULL,  
    deptno numeric(2) NOT NULL,  
    salary numeric(10,2) NOT NULL,  
);  
  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1001, 'Sayan', 'Chowdhury', 40, 60000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1002, 'Kinjal', 'Mitra', 41, 45000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1003, 'Agniva', 'Saha', 42, 30000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1004, 'Sutapa', 'Mitra', 40, 32000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1005, 'Tamal', 'Mitra', 43, 31000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1006, 'Sucharita', 'Mitra', 44, 35000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1007, 'Satyajit', 'Biswas', 45, 25000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1008, 'Shruti', 'Halder', 42, 44000);  
INSERT INTO Teacher(emp_id,first_name,last_name,deptno,salary) VALUES  
(1009, 'Riccky', 'Lawrence', 40, 28000);  
  
CREATE TABLE HOD(  
    emp_id numeric(4) NOT NULL,  
    first_name varchar(20) NOT NULL,  
    last_name varchar(20) NOT NULL,  
    hod_id numeric(4) NOT NULL,  
    deptno numeric(2) NOT NULL,  
    salary numeric(10,2) NOT NULL,  
);  
  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1010, 'Sutapa', 'Mitra', 1001, 40, 60000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1011, 'Saona', 'Sengupta', 1002, 41, 45000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1012, 'Jyotsna', 'Podder', 1003, 42, 30000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1013, 'Sutapa', 'Mitra', 1004, 40, 32000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1014, 'Anupama', 'Sarkar', 1005, 43, 31000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1015, 'Gitasree', 'Datta', 1006, 44, 35000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1016, 'Reba', 'Roy', 1007, 45, 25000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1017, 'Jyotsna', 'Podder', 1008, 42, 44000);  
INSERT INTO HOD(emp_id,first_name,last_name,hod_id,deptno,salary) VALUES  
(1018, 'Sutapa', 'Mitra', 1009, 40, 28000);
```

```

SELECT t1.first_name as Teacher,t2.first_name as HOD
FROM Teacher t1 JOIN HOD t2
ON t1.emp_id=t2.hod_id;

```

```

CREATE TABLE Employees(
    emp_id numeric(4) NOT NULL,
    first_name varchar(20) NOT NULL,
    last_name varchar(20) NOT NULL,
    deptno numeric(2) NOT NULL,
    salary numeric(10,2) NOT NULL,
);

```

```

INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1001,'Sayan','Chowdhury',40,60000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1002,'Kinjal','Mitra',41,45000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1003,'Agniva','Saha',42,30000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1004,'Sutapa','Mitra',43,32000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1005,'Tamal','Mitra',44,31000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1006,'Sucharita','Mitra',45,35000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1007,'Satyajit','Biswas',46,25000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1008,'Shruti','Halder',47,44000);
INSERT INTO Employees(emp_id,first_name,last_name,deptno,salary) VALUES
(1009,'Riccky','Lawrence',48,28000);

```

```

CREATE TABLE Department(
    deptno numeric(2) NOT NULL,
    deptname varchar(20) NOT NULL,
);

```

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INSERT INTO Department(deptno,deptname) VALUES (40,'Accounts');
INSERT INTO Department(deptno,deptname) VALUES (41,'IT');
INSERT INTO Department(deptno,deptname) VALUES (42,'Support');
INSERT INTO Department(deptno,deptname) VALUES (43,'Accounts');
INSERT INTO Department(deptno,deptname) VALUES (44,'HR');
INSERT INTO Department(deptno,deptname) VALUES (45,'Research');
INSERT INTO Department(deptno,deptname) VALUES (46,'Design');
INSERT INTO Department(deptno,deptname) VALUES (47,'Support');
INSERT INTO Department(deptno,deptname) VALUES (48,'Accounts');

```

```

SELECT t1.first_name as Employees,t2.deptname as Department
FROM Employees t1 INNER JOIN Department t2
ON t1.deptno=t2.deptno;

```

```

SELECT t1.first_name as Employees,t2.deptname as Department
FROM Employees t1 LEFT OUTER JOIN Department t2
ON t1.deptno=t2.deptno;

```

```

SELECT t1.first_name as Employees,t2.deptname as Department
FROM Employees t1 RIGHT OUTER JOIN Department t2
ON t1.deptno=t2.deptno;

```

```
SELECT t1.deptname as Department,t2.first_name as Employees  
FROM Employees t2 CROSS JOIN Department t1;
```