

Name : Subham  
Roll no : 2023UCS1603  
DBMS Test

Code for creating table :-

```
CREATE TABLE Employee (  
    Empid INT PRIMARY KEY,  
    Name VARCHAR(100),  
    ManId INT,  
    DOJ DATE,  
    City VARCHAR(50)  
);
```

```
CREATE TABLE Employee_Salary (  
    Empid INT PRIMARY KEY,  
    ProjId VARCHAR(10),  
    Salary INT,  
    Variable INT,  
    FOREIGN KEY (Empid) REFERENCES Employee(Empid)  
);
```

Code for interesting data :-

```
INSERT INTO Employee (Empid, Name, ManId, DOJ, City)  
VALUES  
(121, 'Deepak', 321, '2022-01-27', 'Delhi'),  
(321, 'Raju', 986, '2023-01-30', 'Madras'),  
(421, 'Suresh', 876, '2022-11-01', 'Kolkata');
```

```
INSERT INTO Employee_Salary (Empid, ProjId, Salary, Variable)  
VALUES  
(121, 'P1', 10000, 500),  
(321, 'P2', 8000, 1000),  
(421, 'P1', 12000, 0);
```

Question 1). List out records that are present in one table but not in another table.

Query - SELECT \* FROM Employee e

WHERE NOT EXISTS (

SELECT 1

```
FROM Employee_Salary es  
WHERE e.Empid = es.Empid  
);
```

Output:

```
✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0008 seconds.)  
  
SELECT * FROM Employee e WHERE NOT EXISTS ( SELECT 1 FROM Employee_Salary es WHERE e.Empid = es.Empid );
```

Question 2) List all the Employee(s) who are not working on any project.

Query –

```
SELECT *  
FROM Employee e  
WHERE e.Empid NOT IN (  
    SELECT Empid  
    FROM Employee_Salary  
);
```

Output

```
✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)  
  
SELECT * FROM Employee e WHERE e.Empid NOT IN ( SELECT Empid FROM Employee_Salary );
```

Question 3 ) List project-wise count of employees.

Query –

```
SELECT Projid, COUNT(Empid) AS EmployeeCount  
FROM Employee_Salary  
GROUP BY Projid;
```

Output :

Projid	EmployeeCount
P1	2
P2	1

Question 4) List all the Employees who are also managers.

Query –

SELECT \*

FROM Employee e

WHERE e.Empid IN (

SELECT DISTINCT ManId

FROM Employee

);

Output :

✓ Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

`SELECT * FROM Employee e WHERE e.Empid IN ( SELECT DISTINCT ManId FROM Employee );`

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

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

Extra options

	Empid	name	ManId	DOJ	City
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	321	Raju	986	2023-01-30	Madras

Question 5 ) List employee name and salaries, even if the salary value is not present for the employee.

Query –

```
SELECT e.name, es.Salary, es.Variable  
FROM Employee e  
LEFT JOIN Employee_Salary es  
ON e.Empid = es.Empid;
```

Output :

name	Salary	Variable
Deepak	10000	500
Raju	8000	1000
Suresh	12000	0