SQL PRACTICE 4

```
create database eeee;
use eeee;
CREATE TABLE Employees (
  emp id INT PRIMARY KEY,
  name VARCHAR(50),
  dept_id INT
);
CREATE TABLE Departments (
  dept_id INT PRIMARY KEY,
  dept_name VARCHAR(50)
);
INSERT INTO Employees (emp id, name, dept id) VALUES
(1, 'Ravi', 101),
(2, 'Priya', 102),
(3, 'Karan', 101),
(4, 'Anjali', 103),
(5, 'Manish', NULL);
INSERT INTO Departments (dept id, dept name) VALUES
(101, 'IT'),
(102, 'HR'),
(103, 'Finance'),
(104, 'Marketing');
```

1.) Find employees who are in the "IT" department.

Query with output:

```
SELECT e.emp id, e.name, d.dept name
         FROM Employees e
 28
         INNER JOIN Departments d ON e.dept_id = d.dept_id
         WHERE d.dept_name = 'IT';
 30
                                          Export: Wrap Cell Content: IA
Result Grid
              Filter Rows:
   emp_id
                  dept_name
           name
          Ravi
                 IT
  3
          Karan
                 IT
```

2.) List departments with no employees.

Query with output:

```
SELECT d.dept_id, d.dept_name

FROM Departments d

LEFT JOIN Employees e ON d.dept_id = e.dept_id

WHERE e.emp_id IS NULL;

Result Grid Filter Rows:

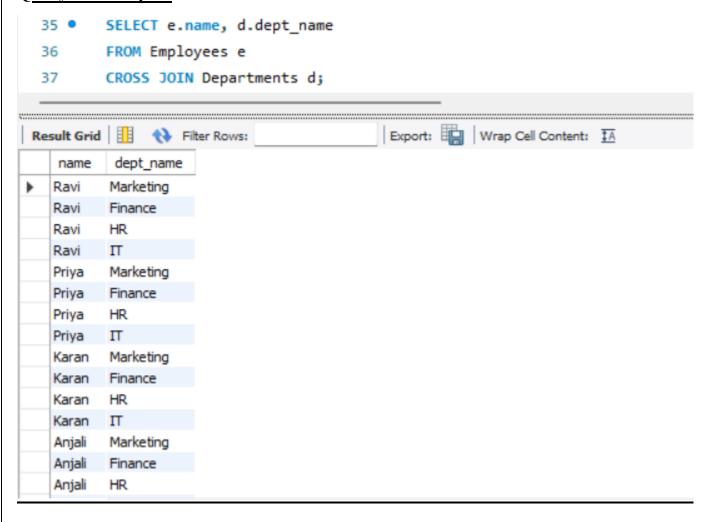
Export: Wrap Cell Content: IA

dept_id dept_name

Marketing
```

3.) Show each employee's name along with every department they could potentially work in.

Query with output:



4.) Get all employees and all departments (even if no match).

Query with output:

```
SELECT e.name, d.dept_name
 38 •
        FROM Employees e
 39
        LEFT JOIN Departments d ON e.dept_id = d.dept_id
 40
        UNION
 41
        SELECT e.name, d.dept_name
 42
        FROM Employees e
 43
        RIGHT JOIN Departments d ON e.dept_id = d.dept_id;
                                        Export: Wrap Cell Content: $\frac{1}{4}
dept_name
   name
         П
  Ravi
         HR
  Priya
  Karan
         П
  Anjali
         Finance
         NULL
  Manish
  NULL
         Marketing
```

5.) Find employees who do not belong to any department.

Query with output:

