```
DROP TABLE IF EXISTS Employees;
DROP TABLE IF EXISTS Departments;
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');
SELECT e.emp_id, e.name, d.dept_name
FROM Employees e
INNER JOIN Departments d
```

```
ON e.dept_id = d.dept_id
WHERE d.dept_name = 'IT';
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;
SELECT e.name, d.dept_name
FROM Employees e
CROSS JOIN Departments d;
SELECT e.name, d.dept_name
FROM Employees e
LEFT JOIN Departments d
 ON e.dept_id = d.dept_id
UNION
SELECT e.name, d.dept name
FROM Employees e
RIGHT JOIN Departments d
 ON e.dept_id = d.dept_id;
SELECT e.emp id, e.name
FROM Employees e
LEFT JOIN Departments d
 ON e.dept id = d.dept id
WHERE d.dept_id IS NULL;
----+
| emp_id | name | dept_name |
+----+
| 1 | Ravi | IT |
```

```
| 3 | Karan | IT |
+----+
+----+
| dept_id | dept_name |
+----+
   104 | Marketing |
+----+
+----+
| name | dept_name |
+----+
| Ravi | Marketing |
| Ravi | Finance |
| Ravi | HR
            | Ravi | IT
| Priya | Marketing |
| Priya | Finance |
| Priya | HR
| Priya | IT
| Karan | Marketing |
| Karan | Finance |
| Karan | HR
| Karan | IT
| Anjali | Marketing |
| Anjali | Finance |
| Anjali | HR
| Anjali | IT
| Manish | Marketing |
| Manish | Finance |
```

```
| Manish | HR
| Manish | IT
+----+
+----+
| name | dept_name |
+----+
| Ravi | IT
| Priya | HR
| Karan | IT
| Anjali | Finance |
| Manish | NULL
| NULL | Marketing |
+----+
+----+
| emp_id | name |
+----+
   5 | Manish |
+----+
```