CODTECH Internship Task -1: Joins Practice

# Tables Used

employees

| employee\_id | name | department\_id |  
|-------------|----------|---------------|  
| 1 | Alice | 10 |  
| 2 | Bob | 20 |  
| 3 | Charlie | 10 |  
| 4 | David | NULL |

departments

| department\_id | department\_name |  
|---------------|-----------------|  
| 10 | HR |  
| 20 | Engineering |  
| 30 | Marketing |

# 1️⃣ INNER JOIN

Query:

SELECT e.employee\_id, e.name, d.department\_name  
FROM employees e  
INNER JOIN departments d  
ON e.department\_id = d.department\_id;

Output:

| employee\_id | name | department\_name |  
|-------------|---------|-----------------|  
| 1 | Alice | HR |  
| 2 | Bob | Engineering |  
| 3 | Charlie | HR |

# 2️⃣ LEFT JOIN

Query:

SELECT e.employee\_id, e.name, d.department\_name  
FROM employees e  
LEFT JOIN departments d  
ON e.department\_id = d.department\_id;

Output:

| employee\_id | name | department\_name |  
|-------------|---------|-----------------|  
| 1 | Alice | HR |  
| 2 | Bob | Engineering |  
| 3 | Charlie | HR |  
| 4 | David | NULL |

# 3️⃣ RIGHT JOIN

Query:

SELECT e.employee\_id, e.name, d.department\_name  
FROM employees e  
RIGHT JOIN departments d  
ON e.department\_id = d.department\_id;

Output:

| employee\_id | name | department\_name |  
|-------------|---------|-----------------|  
| 1 | Alice | HR |  
| 2 | Bob | Engineering |  
| 3 | Charlie | HR |  
| NULL | NULL | Marketing |

# 4️⃣ FULL JOIN

Query:

SELECT e.employee\_id, e.name, d.department\_name  
FROM employees e  
FULL JOIN departments d  
ON e.department\_id = d.department\_id;

Output:

| employee\_id | name | department\_name |  
|-------------|---------|-----------------|  
| 1 | Alice | HR |  
| 2 | Bob | Engineering |  
| 3 | Charlie | HR |  
| 4 | David | NULL |  
| NULL | NULL | Marketing |