INTERNSHIP TASK – 1

Company : CODTECH

Topic : SQL JOINS PRACTICE

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# Introduction :

This document contains SQL JOIN queries executed as part of Internship Task – 1 from CODTECH. The objectives is to perform INNER JOIN, LEFT JOIN, RIGHT JOIN, and FULL JOIN to combine data meaningfully using two sample tables.

# Sample Tables :

## Table 1 : Employees

|  |  |  |
| --- | --- | --- |
| Emp\_Id | Emp\_Name | Dept\_Id |
| 1 | Swamy | 101 |
| 2 | Lakshmi | 102 |
| 3 | Veena | 103 |
| 4 | Meghana |  |
| 5 | Chinni |  |

## Table 2 : Departments

|  |  |
| --- | --- |
| Dept \_Id | Dept\_Name |
| 101 | HR |
| 102 | IT |
| 104 | Marketing |
| 105 | HR |

# JOIN Queries and Outputs :

# ⏵INNER JOIN

SELECT E.Emp\_Id, E.Emp\_name, D.Dept\_Name FROM Employees E INNER JOIN Departments D ON E.Dept\_Id = D.Dept\_Id;

OUTPUT :

|  |  |  |
| --- | --- | --- |
| Emp\_Id | Emp\_Name | Dept\_Name |
| 1 | Swamy | HR |
| 2 | Lakshmi | IT |

### ⏵LEFT JOIN

SELECT E.Emp\_Id, E.Emp\_name, D.Dept\_Name FROM Employees E LEFT JOIN Departments D ON E.Dept\_Id = D.Dept\_Id;

OUTPUT :

|  |  |  |
| --- | --- | --- |
| Emp\_Id | Emp\_Name | Dept\_Name |
| 1 | Swamy | HR |
| 2 | Lakshmi | IT |
| 3 | Veena | NULL |
| 4 | Meghana | NULL |
| 5 | Chinni | NULL |

## ⏵RIGHT JOIN

SELECT E.Emp\_Id, E.Emp\_name, D.Dept\_Name FROM Employees E RIGHT JOIN Departments D ON E.Dept\_Id = D.Dept\_Id;

OUTPUT :

|  |  |  |
| --- | --- | --- |
| Emp\_Id | Emp\_Name | Dept\_Name |
| 1 | Swamy | HR |
| 2 | Lakshmi | IT |
| NULL | NULL | Marketing |
| NULL | NULL | HR |

## ⏵FULL JOIN (UNION)

(NOTE : In Mysql FULL JOIN is not supported, so we use UNION of LEFT and RIGHT JOIN)

SELECT E.Emp\_Id, E.Emp\_name, D.Dept\_Name FROM Employees E LEFT JOIN Departments D ON E.Dept\_Id = D.Dept\_Id

UNION

SELECT E.Emp\_Id, E.Emp\_name, D.Dept\_Name FROM Employees E RIGHT JOIN Departments D ON E.Dept\_Id = D.Dept\_Id;

OUTPUT :

|  |  |  |
| --- | --- | --- |
| Emp\_Id | Emp\_Name | Dept\_Name |
| 1 | Swamy | HR |
| 2 | Lakshmi | IT |
| 3 | Veena | NULL |
| 4 | Meghana | NULL |
| 5 | Chinni | NULL |
| NULL | NULL | Marketing |
| NULL | NULL | HR |

🙏 Thank You

I sincerely thank the CODTECH Internship Team for giving me this opportunity to learn and practice SQL JOINS effectively.