

Welcome to

# INTERNSHIP STUDIO

Module 03 | Lesson 06

**Analyzing Data with SQL** 

Joins in SQL



## Introduction to Joins

- Joins in SQL allow you to combine data from multiple tables based on common columns.
- •By joining tables, you can retrieve related information and create meaningful connections between datasets.



## Types of Joins

- •Inner Join: Returns only the matching rows from both tables based on the common column(s).
- •Left Join: Retrieves all rows from the left table and the matching rows from the right table.
- •Right Join: Retrieves all rows from the right table and the matching rows from the left table.
- •Full Join: Retrieves all rows from both tables, combining data where possible.



## Inner Join

•Inner join returns only the rows that have matching values in both tables.

```
SELECT column(s)
FROM table1
INNER JOIN table2
ON table1.column = table2.column;
```



## Inner Join- Example

•Example: Retrieve the ID and Major from both tables where there is a match based on the ID column.

```
SELECT table1.ID, table1.Major, table2.Major
FROM table1
INNER JOIN table2
ON table1.ID = table2.ID;
```



## Left Join

•Left join returns all rows from the left table and the matching rows from the right table.

```
SELECT column(s)
FROM table1
LEFT JOIN table2
ON table1.column = table2.column;
```



# Left Join- Example

•Example: Retrieve all rows from the left table and matching rows from the right table based on the ID column.

```
SELECT table1.ID, table1.Major, table2.Major
FROM table1
LEFT JOIN table2
ON table1.ID = table2.ID;
```



# Right Join

•Right join returns all rows from the right table and the matching rows from the left table.

```
SELECT column(s)
FROM table1
RIGHT JOIN table2
ON table1.column = table2.column;
```



# Right Join- Example

•Example: Retrieve all rows from the right table and matching rows from the left table based on the ID column.

```
SELECT table1.ID, table1.Major, table2.Major
FROM table1
RIGHT JOIN table2
ON table1.ID = table2.ID;
```



# SUMMARY

### You got

- •Joins in **Call** are powerful techniques to combine data from multiple tables based on common columns.
- •Different join types, such as inner join, left join, right join, and full join, offer flexibility in data retrieval.
- •Understanding how to perform joins allows for comprehensive analysis and extraction of meaningful insights from complex datasets.

# Next Demonstration of Workbench