📘 SQL JOINS - Complete Guide

What are SQL Joins?

SQL Joins are used to combine rows from two or more tables based on a related column between them. Joins allow you to retrieve data from multiple tables in a single query, making it possible to establish relationships between different datasets.

> **Key Point:** Joins work by matching values in specified columns (usually primary and foreign keys) between tables.

Types of SQL Joins

There are four main types of joins in SQL:

1. **INNER JOIN** - Returns only matching records from both tables
2. **LEFT JOIN (LEFT OUTER JOIN)** - Returns all records from the left table and matching records from the right table
3. **RIGHT JOIN (RIGHT OUTER JOIN)** - Returns all records from the right table and matching records from the left table
4. **FULL JOIN (FULL OUTER JOIN)** - Returns all records when there's a match in either table