

SQL Basics: Joins, Subqueries & Stored Procedures

Learn to query, manipulate and manage SQL data, from joins and subqueries to dynamic SQL and stored procedures.

2 Days

DURATION

10

MODULES

20

TOPICS

COURSE OVERVIEW

SQL in 8 hours is an intensive training program designed to provide participants with a strong foundation in SQL, including basic querying, data manipulation, and advanced techniques like dynamic SQL and stored procedures. By the end of the day, participants will be equipped with the necessary skills to execute and optimize SQL queries.

WHO THIS COURSE IS FOR

Database Administrators

SQL Developers

Data Analysts

Application Developers

Business Intelligence Professionals

LEARNING OBJECTIVES

- Explain SQL concepts and database table relationships
- Apply INSERT, UPDATE and DELETE commands to modify data
- Write SELECT statements using aliases to retrieve data
- Filter data using the WHERE clause and logical operators
- Sort and group results with ORDER BY and GROUP BY
- Compare INNER, LEFT, RIGHT and FULL joins
- Apply subqueries for complex data retrieval
- Develop dynamic SQL statements and stored procedures

10 Modules, 20 Topics

01

Introduction to SQL

TOPICS

- Overview of SQL and its uses in database management
- Understanding databases, tables, and relationships

02

Data Manipulation Language (DML)

TOPICS

- Introduction to DML: INSERT, UPDATE, DELETE commands
- Practical exercises on modifying data within tables

03

Basic Querying

TOPICS

- Writing simple SELECT statements to retrieve data
- Using aliases to simplify query outputs

04

Filtering Data

TOPICS

Applying WHERE clause for data filtering · Using comparison and logical operators

05

Sorting and Grouping

TOPICS

Utilizing ORDER BY to sort query results · Introduction to GROUP BY for data aggregation

06

Advanced Query Techniques

TOPICS

- Understanding JOINS: INNER, LEFT, RIGHT, and FULL
- Using subqueries for complex data retrieval

07

Dynamic SQL

TOPICS

- Introduction to dynamic SQL and its applications
- Constructing and executing dynamic queries

08

Stored Procedures

TOPICS

- Overview of stored procedures and their benefits
- Creating and executing simple stored procedures

09

Best Practices and Optimization

TOPICS

- Tips for writing efficient and optimized SQL queries
- Common pitfalls and how to avoid them

10

Hands-on Practice and Q&A

TOPICS

Practical exercises to consolidate learning · Open session for questions and clarifications

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

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Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

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