



Advanced Microsoft SQL



21 October -  
1 November 2024  
Barcelona (Spain)



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## Introduction

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications which may run either on the same computer or on another computer across a network.

## Course Objectives

At the end of this course the participants will be able to:

- Explain MS SQL storage engines
- Explain database transactions
- Obtain database metadata
- Describe MS SQL GUI tools
- Monitor database performance
- Perform database backup and recovery
- Export and import database data
- Describe the features and benefits of MS SQL
- Explain the basics of relational databases
- Design an effective database
- Build a database and tables by using SQL Modify or delete database entities
- Join data from multiple tables
- Use built-in MS SQL functions

## Targeted Audience

- Team leaders seeking professional development in MS SQL
- IT Team Leader.
- MS SQL developer
- IT manager
- IT department managers.
- Project managers.
- Systems designers.

## Course Outline

### Unit 1:

- Basic SELECT Statement Practice Problems
- Microsoft SQL Server and T-SQL Microsoft SQL variant language
- Differences between MS SQL and Python

### Unit 2:

- Structured Query Language SQL
- Nested Queries in MS SQL
- Operation Vs Nested query in DBMS

### Unit 3:

- Database Objects in DBMS
- Nested Queries in MS SQL
- Indexing in Databases
- SQL elevator pitch technical message.

### Unit 4:

- MS SQL Server Keys, Constraints, and Indexes
- MS SQL Server Database Administration
- SQL Server Programming

### Unit 5:

- Auditing the execution of Code Template Mappings
- SQL Server Comparison Operators
- SQL Server Joins

### Unit 6:

- SSMS and MySQL Workbench
- Creating SQL loader mappings to Extract Data from Flat Files.
- Creating SAP extraction mappings

#### Unit 7:

- Retrieving data from the SAP System
- Creating Code Template CT mappings
- Setting options for Code Templates in Code Template Mappings