

SQL Querying: Fundamentals

Length: 1 Day

Overview: Organizations use large SQL databases to store information about clients, products, or sales. Analysts can use SQL to select the data they need for additional analysis and reporting. This course provides an overview of the SQL commands that can be used to access that data.

You will:

- Connect to the SQL Server database and execute a simple query.
- Include a search condition in a simple query.
- Use various functions to perform calculations on data.
- Organize the data obtained from a query before it is displayed on-screen.
- Retrieve data from multiple tables.

Target Student: This course is intended for individuals with basic computer skills, familiar with concepts related to database structure and terminology, and who want to learn the basics of querying SQL databases using the SELECT statement.

Prerequisites: Some familiarity with database terminology and structure is helpful.

COURSE CONTENT

EXECUTING A SIMPLE QUERY

- Connect to the SQL Database using SQL Server Management Studio
- Query a Database using the SELECT Statement
- Modify and Execute a Saved Query

PERFORMING A CONDITIONAL SEARCH

- Use the WHERE Clause to Search and Filter Data using One or More Conditions
- Use the WHERE Clause to Search for a Range of Values with BETWEEN and IN Clauses

HOW TO HANDLE NULL VALUES IN DATA

- Search Text Data Based on Patterns using the LIKE Operator

WORKING WITH FUNCTIONS

- Format and Manipulate Dates using Date Functions
- Summarize Data using Aggregate Functions Like COUNT, SUM, AVG, MIN, MAX

ORGANIZING DATA & RETRIEVE DATA

- Sort Data using the ORDER BY Clause
- Group Data with the GROUP BY Clause
- Combine the Results of Two Queries with the UNION, JOIN, INTERSECT, and EXCEPT Statements