



SQL Querying Fundamentals - Part 1

Summary

Length: 8 hours Level: Foundational

This course, SQL Querying: Fundamentals, will teach you to use SQL as a tool to retrieve the information you need from databases. This course may earn a Credly Badge.

Learning Objectives

In this course, you will compose SQL queries to retrieve desired information from a database.

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.

Export the results of a query.

Course Outline

1. Executing a Simple Query

Connect to the SQL Database

Query a Database

Save a Query

Modify and Execute a Saved Query

2. Performing a Conditional Search

Search Using One or More Conditions

Search for a Range of Values and NULL Values

Search Data Based on Patterns

3. Working with Functions

Perform Date Calculations

Calculate Data Using Aggregate Functions

Manipulate String Values

4. Organizing Data

Sort Data

Rank Data

Group Data

Filter Grouped Data

Summarize Grouped Data

Use PIVOT and UNPIVOT Operators

5. Retrieving Data from Multiple Tables

Combine the Results of Two Queries

Compare the Results of Two Queries

Retrieve Data by Joining Tables

6. **Exporting Query Results**

Generate a Text File

Generate an XML File

Audience

This course is intended for individuals with basic computer skills, familiar with concepts related to database structure and terminology, and who want to use SQL to query databases.

Prerequisites

While there are no prerequisites for this course, please ensure you have the right level of experience to be successful in this training.