



SQL Querying Fundamentals - Part 2

Summary

Length: 8 hours Level: Foundational

In this course you will learn how to identify and use advanced querying techniques. You might find that you need to modifying the structure of a table; inserting, updating, deleting data and indexing tables to optimize query performance. This course may earn a Credly Badge.

Learning Objectives

In this course, you will work with advanced queries to manipulate and index tables. You will also create transactions so that you can choose to save or cancel the data entry process.

You will:

Use subqueries to generate query output.

Manipulate table data by inserting and updating records in a table and deleting records from a table.

Manipulate the table structure.

Create views, manipulate data through views, modify the view structure, and drop views.

Create indexes on table columns and drop inefficient indexes.

Mark the beginning of a transaction, roll back a transaction, and commit a transaction.

Course Outline

1. Using Subqueries to Perform Advanced Querying

Search Based on Unknown Values

Compare a Value with Unknown Values

Search Based on the Existence of Records

Generate Output Using Correlated Subqueries

Filter Grouped Data Within Subqueries

Perform Multiple-Level Subqueries

2. Manipulating Table Data

Insert Data

Modify and Delete Data

3. Manipulating the Table Structure

Create a Table

Create a Table with Constraints

Modify a Table's Structure

Back Up Tables

Delete Tables

4. Working with Views

Create a View

Manipulate Data in Views

Create Aliases

Modify and Delete Views

5. Indexing Data

Create Indexes

Drop Indexes

6. **Managing Transactions**

Create Transactions

Commit Transactions

Audience

Students should have basic computer skills, SQL skills, and be familiar with concepts related to database structure and terminology.

Prerequisites

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