

## SQL Querying - Advanced Querying Level 2

Days of Training: 1

### Overview

In this course, students create advanced SQL queries, and manipulate and index tables.

### Prerequisites

- SQL Querying - Fundamentals of Querying Level 1

### At Course Completion

Upon successful completion of this course, students will be able to:

- Use subqueries to generate query output.
- Manipulate table data by inserting, updating, and deleting records in a table.
- Manipulate the table structure.
- Create views, manipulate data through views, modify the view structure, and drop views.
- Create indices on table columns and drop inefficient indices.
- Mark the beginning of a transaction, create a savepoint within a transaction, rollback a transaction, and commit a transaction.

SQLQUERYL2

### Lesson 1: Advanced Querying Using Subqueries

- Search Based on an Unknown Value
- Search Based on Multiple 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

### Lesson 2: Manipulating Table Data

- Insert Data
- Modify Data
- Delete Data

### Lesson 3: Manipulating the Table Structure

- Create a Simple Table
- Create a Table with Constraints
- Add or Drop Table Columns
- Add or Drop Constraints
- Modify the Column Definition
- Back Up Tables
- Delete Tables

### Lesson 4: Working with Views

- Create a View
- Manipulate Data in Views
- Create Aliases
- Modify and Drop Views

### Lesson 5: Indexing Data

- Create Indices
- Drop Indices

### Lesson 6: Managing Transactions

- Create Transactions
- Commit Transactions