SQL Querying Advanced



Course Description:

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

Duration: Instructor-led, group-paced, classroom-delivery learning model with structured hands on activities – 7 hours (1 day)

Target Audience: Individuals with basic computer skills and familiar with concepts related to database structure and terminology.

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

- 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 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

Prerequisites: SQL Querying Fundamentals

Course Outline	
Review	Manipulating Table Data
The Relational Database Model	Insert Data
Inner Joins	Modify and Delete Data
Outer Joins	
Self Joins, Advanced Joins	Manipulating the Table Structure
	Create a Table
Working with Views	Create a Table with Constraints
Create a View	Add and Drop Table Columns
Manipulate Data in Views	Add and Drop Constraints
Create Aliases	Modify the Column Definition
Modify and Drop Views	Back Up Tables
	Delete Tables
Using Subqueries to Perform Advanced Querying	
Search Based on Unknown Values	Indexing Data
Compare a Value with Unknown Values	Create and Drop Indices
Search Based on the Existence of Records	
Generate Output Using Correlated Subqueries	Managing Transactions
Filter Grouped Data Within Subqueries	Create Transactions
Perform Multiple-Level Subqueries	Commit Transactions
	Stored Procedures and Parameters (time permitting)