

SQL Commands 2 (Advanced Querying)

Duration: 1 Day

Course Overview:

Our SQL Command 1: Fundamentals of Querying course examined the fundamentals of SQL querying. Because of various business conditions and requirements, in addition to querying the database, SQL users may need to restructure and index tables, as well as manipulate the data in the tables. In this course, SQL Commands 2: Advanced Querying, students will create advanced SQL queries, as well as manipulate and index tables.

Students Learn How To:

- Code subqueries to generate query output
- Manipulate table data by inserting, updating, and deleting records in a table
- Create a simple table, create tables with constraints, modify the table structure, and delete tables
- Create views, manipulate data through views, modify the view structure, and drop views
- Create indexes on table columns and drop inefficient indexes
- Connect to the SQL server database and execute a simple query

Who Should Attend: For those with basic SQL skills who want to extend their knowledge beyond basic queries to manipulating, restructuring, and indexing data.

Prerequisites: SQL Commands 1 or equivalent knowledge.

Course Outline:

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

Manipulating Table Data

- Insert Data
- Modify Data
- Delete Data

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
- Delete Tables

Working with Views

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

Indexing Data

- Create Indexes
- Drop Indexes

Appendix A: Structure of the Bookstore Database

Appendix B: Working with Transactions

- Rollback Transactions
- Commit Transactions