



SQL: ADVANCED Querying

Course Introduction:

In this course, SQL: Advanced Querying, you will create advanced SQL queries to manipulate and index tables. 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 data entry process.

Course Objectives:

- 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 save point within a transaction, rollback a transaction, and commit a transaction.

Who Should Attend?

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

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
- Create Aliases
- Modify and Drop Views

Indexing Data

- Create Indexes
- Drop Indexes

Managing Transactions

- Create Transactions
- Commit Transactions

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

