

# SQL Advanced <sub>Queries</sub>



### Overview:

SQL is an essential skill for data professionals and developers working with SQL databases. With this combination of expert instruction, demonstrations, and practical activities, learn to write complex SQL queries.

## Prerequisites:

To successfully understand the content and complete activities students must have a basic understanding of SQL and should be comfortable with creating SELECT queries.

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#### Who should attend:

This course will suit Database Administrators, Application Developers and other users who require access to their database in an efficient manner.

# 截 Benefits:

- Understanding join types and their limitations
- Use subqueries
- Filter grouped data using subqueries
- Perform multi-level subqueries
- Summarise data

### Learning Outcomes:

- Use subqueries to generate query output.
- Manipulate table data
- Manipulate the table structure.
- Create views and manipulate data through views
- Modify the view structure
- Drop views.
- Create indices on table columns
- Drop inefficient indices.
- Mark the beginning of a transaction
- Create a savepoint within a transaction
- Rollback a transaction
- Commit a transaction.

## Version(s):

## 👼 2 days



## \$ 1210.00



To book this course: Call: 1300-2-GO-CTS

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## **Content:**

#### Learning Outcomes

- Be able to write complex SQL Queries
- Understand Performance implications when writing SQL
- Be able to interrupt QEPs and generate better SQL
- Gain a thorough understanding of the syntax and semantics of SQL statements

#### Predicates

- Comparison
- Like Predicates
- Between Predicates
- In Predicates
- Any All or Some Predicates
- Using Subqueries Effectively
- Subquery Rules
- Correlated Subqueries
- EXISTS Predicate
- Scalar Functions

#### 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

#### 🏶 Joins

- Unions
- Types of Joins
- Formulation of Join
- Outer Joins
- Caveats
- Self Joins
- Limitations of Joins

#### Summarizing Data

- Aggregate Functions
- Aggregate Queries
- Aggregate Quotes
- Set Functions
- Grouping

#### Managing Data Sequentially

- Cursors
- Cursor Solution
- Select Cursor

#### Manipulating Table Structure

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

#### Working with Views

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

#### Query Optimization

- Indexes
- Statistics
- Query Flattening
- Disjunctive Normal Form
- Function Queries

#### Managing Transactions

- Create Transactions
- Commit Transactions



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