



**Course Objective :**

This course is a follow-up course on our highly popular Understanding SQL Scripting course.

In this course, SQL(Structured Query Language): Advanced Querying, you will create advanced SQL queries to manipulate and index tables. You will work with advanced queries to create and work with subqueries, creating and manipulating view and index tables. You will learn how to do Table Design, creating tables with Constraints and Backing Up Tables.

You will also create and committ transactions so that you can choose to save or cancel data entry process and learn rollback transactions.

You will also learn Database Security in creating & managing users, roles and privileges. Granting permissions to roles and modifying privileges.

**Prerequisite:**

Follow up course on Understanding Sql Scripting course

**Certificate Of Attendance :**

Certificate Of Attendance will be awarded to students completing the course.

**Training Methodology & Materials:**

- Practical case study sessions to enhance concept.
- Well-designed lab sessions to enhance further understanding of the courseware.

**Training Duration:**

Full-Time : 1 day  
Time : 9.30am to 5.30pm

**Course Fee :**

Normal Course Fee : S\$799  
Regn Fee : S\$25  
All fees subject to GST 7%

**Detailed Course Outline**

**1. Advanced Querying Using Subqueries**

- 1.1. Search Based on an Unknown Value
- 1.2. Search Based on Multiple Unknown Values
- 1.3. Compare a Value with Unknown
- 1.4. Search Based on the Existence of Records
- 1.5. Generate Output Using Correlated Subqueries
- 1.6. Filter Grouped Data Within Subqueries
- 1.7. Perform Multiple-level Subqueries
- 1.8. Generating Output Using Nested Subqueries.

**2. Advanced Table Data Manipulation Statement**

- 2.1 The Output Clause statement
- 2.2 The Truncate Table Statement
- 2.3 The Merge Statement

**3. Manipulating the Table Structure**

- 3.1. Table Design
- 3.2. Create a Table with Constraints
- 3.3. Primary Key/Primary Key Constraints
- 3.4. Foreign Key/Foreign Key Constraints
- 3.5. Default Constraints/Checking Constraint
- 3.6. Add or Drop Constraints
- 3.7. Modify the Table Structures/Column Structures
- 3.8. Backing Up Tables

**4. Working with Views**

- 3.3. Create a View
- 3.4. Create View Statement /Schema Binding /Top Keyword.
- 3.5. Create View with Schema Binding
- 3.6. Manipulating Data in View
- 3.7. Creating Aliases
- 3.8. Modify and Drop Views

**4. Indexing Data**

- 4.1. Creating Indices
- 4.2. The Create Index Statement
- 4.3. Drop Indices
- 4.4. The Drop Indices Statement

**5. Managing Transactions**

- 5.1. Create Transactions
- 5.2. The Rollback Tran Statement
- 5.3. How to Create Transactions
- 5.4. Creating Transactions
- 5.5. Committing Transactions

**6. Database Security - Roles & Privileges**

- 6.1. DCL Commands
- 6.2. The SQL Grant Command
- 6.3. The SQL Revoke Command
- 6.4. System and Object Privileges
- 6.5. Create, Modifying and Dropping Roles
- 6.6. Create, Modifying and Deleting Privileges



**6333-4843**

**IT Enabler Consultancy Pte Ltd**

35 Selegie Road #09-06 Parklane Shopping Mall S(188307)

customerservice@ienabler.com.sg

www.ienabler.com.sg

Company Reg. No.: 200211025Z