

# SQL Advanced Querying

## *1 day course*

### **Overview**

Students will learn advanced queries and how to add, update, and delete data, tables, views, and indexes.

### **Prerequisites**

SQL Fundamentals of Querying or equivalent knowledge.

### **Benefits**

Students will learn how to change, update and manipulate an SQL database.

### **Target student**

Students should already understand the basics of querying a database with the SQL command language. They should be comfortable issuing SELECT queries against one or more tables and understand query concepts, such as joins.

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## **Course Content:**

### **Querying with unions and advanced joins**

- Querying multiple tables with unions
- Advanced Joins
- Calculating with COMPUTE

### **Querying with subqueries**

- Subqueries

### **Adding data**

- Inserting data
- SELECT INTO

### **Updating and removing data**

- Updating records
- Deleting records
- Deleting the contents of tables

### **Manipulating tables and views**

- Creating tables
- Modifying tables
- Deleting tables
- Adding and removing views

### **Manipulating indexes**

- Adding and removing indexes

### **Ensuring data integrity with transactions**

- Transactions

### **Creating databases**

- Creating a database with SQL
  - Deleting a database
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