

# SQL Querying Introduction

## OBJECTIVES

Compose SQL queries to retrieve desired information from a database; connect to the SQL Server database and execute a simple query, include a search condition in a simple query; use various functions to perform calculations on data, organize the data obtained from a query before it is displayed on-screen; retrieve data from multiple tables, export the results of a query.

**Duration:** 1 Day

### 1. EXECUTING A SIMPLE QUERY

- Connect to the SQL Database
- Query a Database
- Save a Query
- Modify and Execute a Saved Query

### 2. PERFORMING A CONDITIONAL SEARCH

- Search Using One or More Conditions
- Search for a Range of Values and NULL Values
- Search Data Based on Patterns

### 3. WORKING WITH FUNCTIONS

- Perform Date Calculations
- Calculate Data Using Aggregate Functions
- Manipulate String Values

### 4. ORGANIZING DATA

- Sort Data
- Rank Data
- Group Data
- Filter Grouped Data
- Summarize Grouped Data
- Use PIVOT and UNPIVOT Operators

### 5. RETRIEVING DATA FROM MULTIPLE TABLES

- Combine the Results of Two Queries
- Compare the Results of Two Queries
- Retrieve Data by Joining Tables

### 6. EXPORTING QUERY RESULTS

- Generate a Text File
- Generate an XML File