

# SQL Querying: Fundamentals

## Course Contents:

### Executing a Simple Query

Connect to the SQL Database using SQL Server Management Studio  
Query a Database using the SELECT Statement  
Save a Query Script to a File  
Modify and Execute a Saved Query

### Performing a Conditional Search

Use the WHERE Clause to Search and Filter Data using One or More Conditions  
Use the WHERE Clause to Search for a Range of Values with BETWEEN and IN Clauses

### How to Handle NULL Values in Data

Search Text Data Based on Patterns using the LIKE Operator

### Working with Functions

Format and Manipulate Dates using Date Functions  
Summarize Data using Aggregate Functions Like COUNT, SUM, AVG, MIN, MAX  
Use Functions to Manipulate String Values

### Organizing Data

Sort Data using the ORDER BY Clause  
Rank Data with the RANK and DENSE\_RANK Clauses  
Group Data with the GROUP BY Clause  
Filter Grouped Data using the HAVING Clause  
Summarize Grouped Data using ROLLUP and CUBE Clauses  
Use PIVOT and UNPIVOT Operators

### Retrieving Data from Multiple Tables

Combine the Results of Two Queries with the UNION Statement  
Compare the Results of Two Queries with the INTERSECT and EXCEPT Statements  
Query Data from Multiple Tables using the JOIN Clause