



# SQL Querying - Fundamentals of Querying Level 1

Course Outlines

## SQL Querying - Fundamentals of Querying Level 1

Days of Training: 1

### Overview

In this course, students learn how to compose SQL queries to retrieve information from the database.

### Prerequisites

- Access 2003 - Level 1
- Understanding of relational database concepts.

### At Course Completion

Upon successful completion of this course, students will be able to:

- Connect to the SQL Server database and execute a simple query.
- Include a search condition in a simple query.
- Use various functions based on the data types to perform calculations on data.
- Organize the data obtained from the query before it is displayed on the screen.
- Retrieve data by combining information from multiple tables.
- Format the output, save the result, and generate a report.

SQLQUERYL1

### Lesson 1: Executing a Simple Query

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

### Lesson 2: Performing a Conditional Search

- Search Using a Simple Condition
- Compare Column Values
- Search Using Multiple Conditions
- Search for a Range of Values and Null Values
- Retrieve Data Based on Patterns

### Lesson 3: Working with Functions

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

### Lesson 4: Organizing Data

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

### Lesson 5: Retrieving Data from Tables

- Combine Results of Two Queries
- Compare the Results of Two Queries
- Retrieve Data by Joining Tables
- Check for Unmatched Records
- Retrieve Information from a Single Table
- Using Joins

### Lesson 6: Presenting Query Results

- Save the Query Result
- Generate an XML Report

### New Horizons of Syracuse, NY

Glacier Creek Office Park  
6711 Towpath Road, Suite 100  
East Syracuse, NY 13057  
Phone: 315-449-3290  
Email: info.syracuse@newhorizons.com

Visit our website at:

[www.newhorizonstraining.com](http://www.newhorizonstraining.com)

### New Horizons of Rochester, NY

Calkins Road Business Park  
50 Methodist Hill Drive, Suite 50  
Rochester, NY 14623  
Phone: 585-427-2150  
Email: info.rochester@newhorizons.com