



# Querying Microsoft SQL Server 2000 with Transact-SQL

M2071

2 day

## Overview :

This two-day instructor led, hands-on course is designed to provide students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2000

## Target Audience :

This course is intended for SQL Server database administrators, implementers, system engineers, and developers who are responsible for writing queries

## At the end of the course, delegates will be able to:

- Describe the uses of and ways to execute the Transact-SQL language
- Use querying tools
- Write SELECT queries to retrieve dataGroup and summarize data by using Transact-SQL
- Join data from multiple tables
- Write queries that retrieve and modify data by using subqueries
- Modify data in tables
- Query text fields with full-text searchDescribe how to create programming objects

## Course Content :

### Introduction to Transact-SQL

- The Transact-SQL Programming Language
- Types of Transact-SQL Statements
- Transact-SQL Syntax Elements
- Using SQL Server Books Online

### Using Transact-SQL Querying Tools

- SQL Query Analyzer
- Using the Object Browser Tool in SQL Query Analyzer
- Using the osql Utility
- Executing Transact-SQL Statements
- Creating and Executing Transact-SQL Scripts

### Retrieving Data

- Retrieving Data by Using the SELECT Statement
- Filtering Data
- Formatting Result Sets
- How Queries Are Processed
- Performance Considerations
- Retrieving Data and Manipulating Result Sets

### Grouping and Summarizing Data

- Listing the TOP n Values
- Using Aggregate Functions
- GROUP BY Fundamentals
- Generating Aggregate Values Within Result Sets
- Using the COMPUTE and COMPUTE BY Clauses
- Grouping and Summarizing Data

### Joining Multiple Tables

- Using Aliases for Table Names
- Combining Data from Multiple Tables
- Combining Multiple Result Sets
- Querying Multiple Tables

### Working with Subqueries

- Introduction to Subqueries
- Using a Subquery as a Derived Table
- Using a Subquery as an Expression
- Using a Subquery to Correlate Data
- Using the EXISTS and NOT EXISTS Clauses
- Working with Subqueries

### Modifying Data

- Using Transactions
- Inserting Data
- Deleting Data
- Updating Data
- Performance Considerations
- Modifying Data

### Querying Full-Text Indexes

- Introduction to Microsoft Search Service
- Microsoft Search Service Components
- Getting Information About Full-Text Indexes
- Writing Full-Text Queries
- Querying Full-Text Indexes

### Introduction to Programming Objects

- Displaying the Text of a Programming Object
- Introduction to Views
- Advantages of Views
- Creating Views
- Introduction to Stored Procedures
- Introduction to Triggers
- Introduction to User-defined Functions
- Working with Views

## Course Prerequisites :

Delegates are required to meet the following prerequisites:

- Experience using a Microsoft Windows operating system

An understanding of basic relational database concepts, including:

- Logical and physical database design
- Data integrity concepts Relationships between tables and columns (primary key and foreign key, one-to-one, one-to-many, and many-to-

## Testing and Certification :

Recommended as preparation for exam(s):

- 70-229, Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition

many).

- How data is stored in tables (rows and columns).Familiarity with the role of the database administrator

**Follow on Courses :****Further Information :**

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For more information, or to book your course, please call Global Knowledge Denmark

Address: Kirkebjerg Alle 88, 2605 Brøndby

Telephone: +45 44 88 18 00

Email: [training@globalknowledge.dk](mailto:training@globalknowledge.dk)

Web: [www.globalknowledge.dk](http://www.globalknowledge.dk)