



COURSE: 20761C Querying Data with Transact-SQL

This course is designed to introduce students to Transact-SQL. It is designed in such a way that the first three days can be taught as a course to students requiring the knowledge for other courses in the SQL Server curriculum. Days 4 & 5 teach the remaining skills required to take exam 70-761.

Summary

<i>Duration:</i>	<i>5 days/ 40 hours</i>
<i>Level:</i>	<i>200*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>Bulgarian/English</i>

** The difficulty level is consistent with the widely accepted scale of technical difficulty of training on Microsoft Corp*

AUDIENCE:

- The main purpose of the course is to give students a good understanding of the Transact-SQL language which is used by all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence. As such, the primary target audience for this course is: Database Administrators, Database Developers and BI professionals.

AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Describe key capabilities and components of SQL Server; Describe T-SQL, sets, and predicate logic
- Write a single table SELECT statement; Write a multi-table SELECT statement
- Write SELECT statements with filtering and sorting; Describe how SQL Server uses data types; Write DML statements; Write queries that use built-in functions
- Write queries that aggregate data; Write subqueries
- Create and implement views and table-valued functions
- Use set operators to combine query results
- Write queries that use window ranking, offset, and aggregate functions
- Transform data by implementing pivot, unpivot, rollup and cube
- Create and implement stored procedures
- Add programming constructs such as variables, conditions, and loops to T-SQL code

TOPICS:

Module 1. Introduction to Microsoft SQL Server

Module 2. Introduction to T-SQL Querying

Module 3. Writing SELECT Queries

Module 4. Querying Multiple Tables

Module 5. Sorting and Filtering Data

Module 6. Working with SQL Server Data Types

Module 7 Using DML to Modify Data

Module 8. Using Built-In Functions

Module 9. Grouping and Aggregating Data

Module 10. Using Subqueries

Module 11. Using Table Expressions

Module 12. Using Set Operators

Module 13. Using Windows Ranking, Offset, and Aggregate Functions

Module 14. Pivoting and Grouping Sets

Module 15. Executing Stored Procedures

Module 16. Programming with T-SQL

Module 17. Implementing Error Handling

Module 18. Implementing Transactions