

## COURSE: Querying SQL Server Fundamentals

The program is specifically designed to give students a solid foundation in learning the Transact-SQL query language. The training is very useful for all those who deal with writing queries and reports in their daily professional activities and work primarily with data in a database.

### Summary

<i>Duration:</i>	<i>3 days/ 24 hours</i>
<i>Level:</i>	<i>100*</i>
<i>Delivery method:</i>	<i>In class</i>
<i>Language:</i>	<i>English/Bulgarian</i>

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

The course “Querying SQL Server Fundamentals” is practically oriented and contains numerous exercises in order to better absorb the material.

### AUDIENCE:

- Database Administrators who are new in role
- Business Analysts
- Data professionals
- All professionals who work with data and need to learn how to get data from a database

### AFTER THE TRAINING ATTENDEES WILL BE ABLE TO:

- Create simple to complex queries to retrieve data from an SQL Server database using Transact-SQL language
- Use data from several tables to group and aggregate data
- Distinguish the types of data and use the system functions for data processing of SQL Server
- Use specific language structures (CASE) in order to write more complex queries
- Export query results from SQL Server

### TOPICS:

**Module 1: SQL Server Overview** (Overview and Components; Database structure; Overview of Relational Databases; Overview and syntax elements of T-SQL; SQL Server Management Tool)

**Module 2: The SELECT module** (Basic SELECT statement)

**Module 3: Grouping and Summarizing data** (Grouping and Summarizing data in SELECT statement; GROUP BY; Aggregate functions; HAVING; GROUPING SETS)

**Module 4: Joins and Subqueries** (Fundamentals of JOINS; Combining and Limiting Result Sets; Working with Subqueries)

**Module 5: Advanced data-analysis calculations** (Windowing function)