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## Querying Data with Transact-SQL (MS-20761)

**ID** MS-20761 **Price** CHF 3,240.—(excl. VAT) **Duration** 5 days

### Who should attend

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.

### Prerequisites

- Working knowledge of relational databases.
- Basic knowledge of the Microsoft Windows operating system and its core functionality.

### Course Objectives

After completing this course, students will be able to:

- Describe key capabilities and components of SQL Server 2016.
- 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.

- Introduction to Microsoft SQL Server 2016
- Introduction to T-SQL Querying
- Writing SELECT Queries
- Querying Multiple Tables
- Sorting and Filtering Data
- Working with SQL Server 2016 Data Types
- Using DML to Modify Data
- Using Built-In Functions
- Grouping and Aggregating Data
- Using Subqueries
- Using Table Expressions
- Using Set Operators
- Using Windows Ranking, Offset, and Aggregate Functions
- Pivoting and Grouping Sets
- Executing Stored Procedures
- Programming with T-SQL
- Implementing Error Handling
- Implementing Transactions

### Course Content

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## Training Centres worldwide



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