

Querying Data with Microsoft Transact-SQL

Duration: 2 Days

Course Description:

This course will teach the basics of Microsoft's dialect of the standard SQL language: Transact-SQL. Topics include both querying and modifying data in relational databases that are hosted in Microsoft SQL Server-based database systems, including: Microsoft SQL Server, Azure SQL Database and, Azure Synapse Analytics.

Intended Audience:

This course can be valuable for anyone who needs to write basic SQL or Transact-SQL queries. This includes anyone working with data as a data analyst, a data engineer, a data scientist, a database administrator or a database developer. It can also be useful for others peripherally involved with data, or wanting to learn more about working with data such as solution architects, students and technology managers.

Course Outline:

Introduction to Transact-SQL

- Introduction
- Work with schemas
- Explore the structure of SQL statements
- Examine the SELECT statement
- Work with data types
- Handle NULLs

Sort and filter results in T-SQL

- Introduction
- Sort your results
- Limit the sorted results
- Page results
- Remove duplicates
- Filter data with predicates

Combine multiple tables with JOINS in T-SQL

- Introduction
- Understand joins concepts and syntax
- Use inner joins
- Use outer joins
- Use cross joins
- Use self joins

Write Subqueries in T-SQL

- Introduction
- Understand subqueries
- Use scalar or multi-valued subqueries
- Use self-contained or correlated subqueries

Use built-in functions and GROUP BY in Transact-SQL

- Introduction
- Categorize built-in functions
- Use scalar functions
- Use ranking and rowset functions
- Use aggregate functions
- Summarize data with GROUP BY
- Filter groups with HAVING

Modify data with T-SQL

- Introduction
- Insert data
- Generate automatic values
- Update data
- Delete data
- Merge data based on multiple tables

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