Querying Data with Microsoft Transact-SQL (DP-080T00)

COURSE OVERVIEW

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.

WHO WILL BENEFIT FROM THIS COURSE?

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 OBJECTIVES

Students will learn to:

- Introduction to Transact-SQL
- Sort and filter results in T-SQL
- Combine multiple tables with JOINs in T-SQL
- Write Subqueries in T-SQL
- Use built-in functions and GROUP BY in Transact-SQL
- Modify data with T-SQL

COURSE OUTLINE

- Module 1: Introduction to Transact-SQL
- Understand what SQL is for
- Identify database objects in schemas
- Identify SQL statement types
- Use the SELECT statement
- Work with data types
- Handle NULLs

Module 2: Sort and filter results in T-SQL

- Sort your results
- Limit the sorted results
- Return paged results
- Remove duplicates
- Filter data with predicates

Module 3: Combine multiple tables with JOINs in T-SQL

- Describe join concepts and syntax
- Write queries that use inner and outer joins
- Write queries that use cross joins
- Write queries that use self joins

Module 4: Write Subqueries in T-SQL

- Understand what subqueries are
- Use scalar or multi-valued subqueries
- Use self-contained or correlated subqueries

Module 5: Use built-in functions and GROUP BY in Transact-SQL

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

Module 6: Modify data with T-SQL

- Insert data into a table
- Generate automatic values
- Update data in a table
- Delete data from a table
- Merge data based on multiple tables

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