DP-080 Querying Data with Microsoft Transact-SQL (2 Days)

This course will teach you how to use Transact-SQL to query and modify 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.

Skills Gained

After completing this course, students will be able to:

- Use SQL Server query tools
- Write SELECT statements to retrieve columns from one or more tables
- Sort and filter selected data
- Use built-in functions to returned data values
- Create groups of data and aggregate the results
- Modify data with Transact-SQL using INSERT, UPDATE, DELETE and MERGE

Who Can Benefit

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

Module 1: Getting Started with Transact-SQL

- Introduction to Transact-SQL
- Using the SELECT statement

Lab : Get started with SQL Server query tools and writing queries in T-SQL

Module 2: Sorting and Filtering Query Results

- Sorting query results
- Filtering the data

Lab : Sort and filter data returned by SELECT queries

Module 3: Using Joins and Subqueries

- Using JOIN operations
- Using subqueries

Lab : Write queries with JOIN operations
Lab : Write SELECT statements using subqueries

Module 4: Using Built-in Functions

- Getting started with scalar functions
- Grouping aggregated results

Lab : Built-in functions

Module 5: Modifying Data

- Inserting data into tables
- Modifying and deleting data

Lab : Modify data