MS20461 - Querying Microsoft SQL Server 2014

Microsoft - SQL Server - Sviluppo

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**MCSA SQL Server 2012/2014**

Descrizione del corso

This 5-day instructor led course provides students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2014. This course is the foundation for all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence. The main purpose of the course is to prepare people for the exam "70-461: Writing Queries Using Microsoft® SQL Server® 2014 Transact-SQL." This exam will be the underlying exam for 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.. Note: This course is designed for customers who are interested in learning SQL Server 2012 or SQL Server 2014. It covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform.

Programma

1. Introduction to Microsoft SQL Server 2014
    - The Basic Architecture of SQL Server
    - SQL Server Editions and Versions
    - Getting Started with SQL Server Management Studio
2. Introduction to T-SQL Querying
    - Introducing T-SQL
    - Understanding Sets
    - Understanding Predicate Logic
    - Understanding the Logical Order of Operations in SELECT statements

3. Writing SELECT Queries
    - Writing Simple SELECT Statements
    - Eliminating Duplicates with DISTINCT
    - Using Column and Table Aliases
    - Writing Simple CASE Expressions
4. Querying Multiple Tables
    - Understanding Joins
    - Querying with Inner Joins
    - Querying with Outer Joins
    - Querying with Cross Joins and Self Joins
5. Sorting and Filtering Data
    - Sorting Data
    - Filtering Data with a WHERE Clause
    - Filtering with the TOP and OFFSET-FETCH Options
    - Working with Unknown and Missing Values
6. Working with SQL Server 2014 Data Types
    - Introducing SQL Server 2014 Data Types
    - Working with Character Data
    - Working with Date and Time Data
7. Using DML to Modify Data
    - Inserting Data
    - Modifying and Deleting Data
8. Using Built-In Functions
    - Writing Queries with Built-In Functions
    - Using Conversion Functions
    - Using Logical Functions
    - Using Functions to Work with NULL
9. Grouping and Aggregating Data
    - Using Aggregate Functions
    - Using the GROUP BY Clause
    - Filtering Groups with HAVING
10. Using Subqueries
    - Writing Self-Contained Subqueries
    - Writing Correlated Subqueries
    - Using the EXISTS Predicate with Subqueries
11. Using Table Expressions
    - Using Derived Tables

- Using Common Table Expressions
- Using Views
- Using Inline Table-Valued Functions

12. Using Set Operators
    - Writing Queries with the UNION Operator
    - Using EXCEPT and INTERSECT
    - Using APPLY
13. Using Window Ranking, Offset, and Aggregate Functions
    - Creating Windows with OVER
    - Exploring Window Functions
14. Pivoting and Grouping Sets
    - Writing Queries with PIVOT and UNPIVOT
    - Working with Grouping Sets
15. Executing Stored Procedures
    - Querying Data with Stored Procedures
    - Passing Parameters to Stored Procedures
    - Creating Simple Stored Procedures
    - Working with Dynamic SQL
16. Programming with T-SQL
    - T-SQL Programming Elements
    - Controlling Program Flow
17. Implementing Error Handling
    - Using TRY / CATCH Blocks
    - Working with Error Information
18. Implementing Transactions
    - Transactions and the Database Engine
    - Controlling Transactions
    - Isolation Levels
19. Improving Query Performance
    - Factors in Query Performance
    - Displaying Query Performance Data
20. Querying SQL Server Metadata
    - Querying System Catalog Views and Functions
    - Executing System Stored Procedures
    - Querying Dynamic Management Objects