MS20762 - Developing SQL Databases

Microsoft - SQL Server - Sviluppo

Durata:	Lingue:	Certificazione:
4 Giorni	**Italiano**	**MCSA SQL 2016 Database Development**

Descrizione del corso

This five-day instructor-led course provides students with the knowledge and skills to develop a Microsoft SQL Server database. The course focuses on teaching individuals how to use SQL Server product features and tools related to developing a database.

Programma

1. Introduction to Database Development
    - Introduction to the SQL Server Platform
    - SQL Server Database Development Tasks
2. Designing and Implementing
    - Designing Tables
    - Data Types
    - Working with Schemas
    - Creating and Altering Tables
3. Advanced Table Designs
    - Partitioning data
    - Compressing Data
    - Temporal Tables
4. Ensuring Data Integrità through Constraints
    - Enforcing data Integrità
    - Implementing Domain Integrità
    - Implementing Entity and Referential Integrità
5. Introduction to Indexes
    - Core Indexing Concepts

- Data Types and Indexes
- Single Column and Composite Indexes

6. Designing Optimized Index Strategies
   - Covering Indexes
   - Managing Indexes
   - Execution Plans
   - Using the DTE
7. Columnstore Indexes
   - Introduction to Columnstore indexes
   - Creating Columnstore indexes
   - Working Columnstore indexes
8. Designing and Implementing Views
   - Introduction to views
   - Creating and managing views
   - Performance considerations for views
9. Designing and Implementing Stored Procedures
   - Introduction to Stored Procedures
   - Working with Stored Procedures
   - Implementing Parameterized Stored Procedures
   - Controlling Execution Context
10. Designing and Implementing User-Defined Functions
    - Overview of Functions
    - Designing and Implementing Scalar Functions
    - Designing and Implementing Table-Valued Functions
    - Implementation Considerations for Functions
    - Alternatives to Functions
11. Responding to Data Manipulation via Triggers
    - Designing DML Triggers
    - Implementing DML Triggers
    - Advanced Trigger Concepts
12. Using In-Memory Tables
    - In-Memory tables
    - Native Stored Procedures
13. Implementing Managed Code in SQL
    - Introduction to SQL CLR Integration
    - Importing and Configuring Assemblies
    - Implementing SQL CLR Integration

14. Storing and Querying XML Data in SQL Server
    - Introduction to XML and XML Schemas
    - Storing XML Data and Schemas in SQL Server
    - Implementing the XML Data Type
    - Using the T-SQL FOR XML Statement
    - Getting Started with xQuery
15. Working with SQL Server Spatial Data
    - Introduction to Spatial Data
    - Working with SQL Server Spatial Data Types
    - Using Spatial Data in Applications
16. Storing and Querying Blobs and Text Documents in SQL Server
    - Considerations for BLOB Data
    - Working with FileStream
    - Using Full-Text Search