MS20464 - Developing Microsoft SQL Server 2014 Databases

Microsoft - SQL Server - Sviluppo

Durata:	Lingue:	Certificazione:
5 Giorni	**Italiano**	**MCSE Data Management and Analytics**

Descrizione del corso

This 5-day instructor-led course introduces SQL Server 2014 and describes logical table design, indexing and query plans. It also focusses on the creation of database objects including views, stored procedures, along with parameters, and functions. Other common aspects of procedure coding, such as indexes, concurrency, error handling, and triggers are also covered in this course. Also this course helps you prepare for the Exam 70-464. 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 Database Development
    - Introduction to the SQL Server Platform
    - Working with SQL Server Tools
    - Configuring SQL Server Services
2. Designing and Implementing Tables
    - Designing Tables
    - Working with Schemas
    - Creating and Altering Tables
3. Ensuring Data Integrità through Constraints
    - Enforcing Data Integrità
    - Implementing Domain Integrità
    - Implementing Entity and Referential Integrità
4. Introduction to Indexing

- Execution Plan Core Concepts
- Common Execution Plan Elements
- Working with Execution Plans
- Designing Effective Nonclustered Indexes
- Performance Monitoring

5. Advanced Indexing
    - Execution Plan Core Concepts
    - Common Execution Plan Elements
    - Working with Execution Plans
    - Designing Effective Nonclustered Indexes
    - Performance Monitoring
6. Columnstore Indexes
    - Columnstore Indexes
    - Best Practices for Columnstore Indexes
7. Designing and Implementing Views
    - Introduction to Views
    - Creating and Managing Views
    - Performance Considerations for Views
8. 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
    - Memory-Optimized Tables
    - Native Stored Procedures
13. Implementing Managed Code in SQL Server

- 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
    - Shredding XML
15. Working with SQL Server Spatial Data
    - Introduction to Spatial Data
    - Working with SQL Server Spatial Data Types
    - Using Spatial Data in Applications