

MSQ3-8 - MOC 10977 - UPDATING YOUR SQL SERVER SKILLS TO MICROSOFT SQL SERVER 2014

Categoria: **SQL Server 2014 e 2012**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
SQL Server 2014 e
2012



Qualifica Istruttore:
Microsoft Certified
Trainer



Dedicato a:
Professionista IT



Produttore:
Microsoft

OBIETTIVI

- Descrivere le caratteristiche e le funzionalità chiave di SQL Server 2014.
- Sfruttare le funzionalità nuove e migliorate per lo sviluppo di database in SQL Server 2014.
- Utilizzare funzionalità di database in memoria in SQL Server 2014.
- Gestire SQL Server 2014 utilizzando viste a gestione dinamica e PowerShell.
- Implementare la sicurezza in SQL Server 2014.
- Implementare l'alta disponibilità e le tecniche di recupero dati in SQL Server 2014.
- Utilizzare SQL Server 2014 Integration Services.
- Utilizzare SQL Server 2014 Servizi di qualità dei dati.
- Utilizzare SQL Server 2014 Master Data Services.
- Gestire SQL Server 2012 Agent e l'occupazione.
- Implementare un modello di dati tabulari in SQL Server 2014 Analysis Services.
- Implementare una soluzione di BI self-service con Microsoft Excel 2013.
- Descrivere gli elementi chiave di soluzioni cloud per i dati.
- Implementare un database in Microsoft SQL Azure database.
- Implementare un database di SQL Server in una macchina virtuale di Microsoft Azure.
- Implementare una soluzione Big Data con Microsoft Azure HDInsight e la Azure Marketplace di Microsoft.

PREREQUISITI

Questo corso richiede che siano soddisfatti i seguenti prerequisiti:
Esperienza di soluzioni di business intelligence (BI), costruzione e gestione di database, data warehouse, e con SQL Server 2008. Familiarità con il sistema operativo Windows Server 2012 e in rete. Familiarità con Microsoft Excel e Microsoft SharePoint Server 2013.

CONTENUTI

Module 1: Introduction to SQL Server 2014

- Overview of SQL Server 2014
- SQL Server 2014 Editions and Components
- Installing SQL Server 2014
- Enhancements to SQL Server Management Studio

Lab : Exploring SQL Server 2014

Reviewing Installed Components
Using SQL Server Management Studio

Module 2: What's New in SQL Server Database Development

Transact-SQL Enhancements
New and Enhanced Transact-SQL Functions
Enhancements to Spatial Data Support
Storing and Querying Documents with SQL Server 2014

Lab : Developing SQL Server 2014 Databases

Using Sequence Objects
Using the THROW statement
Implementing Paging
Querying Documents

Module 3: In-Memory Database Capabilities

The Buffer pool Extension
Columnstore Indexes
Memory-Optimized Tables

Lab : Using In-Memory Database Capabilities

Enabling the Buffer Pool Extension
Creating Columnstore Indexes
Working with Memory-Optimized Tables

Module 4: Scripting SQL Server 2014

New and Enhanced Dynamic Management Views
Using PowerShell to Manage SQL Server

Lab : Managing SQL Server with Scripts

Using Dynamic Management Views
Using PowerShell

Module 5: Implementing Security in Microsoft SQL Server 2014

Security Management Enhancements
Contained Databases

Lab : Implementing Security

Implementing User-Defined Server Roles
Implementing Contained Databases

Module 6: High Availability and Data Recovery Enhancements

AlwaysOn High Availability
Enhancements to Data Recovery

Lab : Using AlwaysOn Availability Groups

Creating an AlwaysOn Availability Group
Using an AlwaysOn Availability Group
Observing Availability Group Failover Behavior

Module 7: New and Enhanced Features in SQL Server Integration Services

Using the CDC Control Task for Incremental Data Loads

Deploying and Operating SSIS Packages

Lab : Using SQL Server Integration Services

Extracting Modified Data

Deploying and Operating an SSIS Project

Module 8: Data Quality Services

Introduction to Data Quality

Using Data Quality Services to Cleanse Data

Using Data Quality Services to Match Data

Lab : Cleansing Data

Creating a DQS Knowledge Base

Using a DQS Project to Cleanse Data

Using DQS in an SSIS Package

Lab : Deduplicating Data

Creating a Matching Policy

Using a DQS Project to Match Data

Module 9: Master Data Services

Introduction to Master Data Services

Implementing a Master Data Services Model

Using the Master Data Services Add-in for Excel

Lab : Implementing Master Data Services

Creating a Basic Model

Editing a Model by Using the Master Data Services Add-in for Excel

Loading Data into a Model

Enforcing Business Rules

Consuming Master Data Services Data

Module 10: SQL Server 2014 Reporting Services

Reporting Services Overview

Reporting Services and Microsoft SharePoint Server

Introduction to Data Alerts

Lab : Using SQL Server 2014 Reporting Services

Viewing SharePoint Mode Configuration

Authoring, Publishing, and Viewing a Report

Creating and Managing Data Alerts

Module 11: Implementing an Analysis Services Tabular Data Model

Introduction to Analysis Services Tabular Data Model Projects

Creating a Tabular Model

Using an Analysis Services Tabular Data Model in the Enterprise

Lab : Working with an Analysis Services Tabular Data Model

Creating an Analysis Services Tabular Data Model Project

Configuring Columns and Relationships

Using Custom DAX Expressions

Deploying an Analysis Services Tabular Data Model

Module 12: Self-Service BI with Microsoft Excel

PowerPivot for Excel
PowerPivot for SharePoint Server
Power Query
Power View
Power Map
Collaborative Analysis with Power BI for Office 365

Lab : Self-Service BI with Excel

Creating a Data Model with PowerPivot
Importing Data with Power Query
Visualizing Data with Power View
Visualizing Geographic Data with Power Map

Module 13: Introduction to Cloud Data Solutions

Overview of Cloud Computing
Microsoft Azure Services for Data

Lab : Using Microsoft Azure

Creating a Microsoft Azure Storage Account
Backing Up a Database to Microsoft Azure
Storing Data Files in Microsoft Azure

Module 14: Microsoft Azure SQL Database

Introduction to Microsoft Azure SQL Database
Microsoft Azure SQL Database Security
Implementing and Managing Databases

Lab : Using Microsoft Azure SQL Database

Provisioning Microsoft Azure SQL Database
Configuring Microsoft Azure SQL Database Security
Migrating a SQL Server Database to Microsoft Azure SQL Database

Module 15: SQL Server in Microsoft Azure Virtual Machines

Introduction to Microsoft Azure Virtual Machines
Microsoft Azure Virtual Machine Connectivity and Security
Creating Databases in a Microsoft Azure Virtual Machine

Lab : Using Microsoft Azure Virtual Machines

Creating a Microsoft Azure Virtual Machine
Configuring Virtual Machine Security and Connectivity
Creating Databases on a Virtual Machine

Module 16: Implementing Big Data Solutions

Introduction to Big Data
Microsoft Azure HDInsight
Consuming HDInsight Results in Excel
Obtaining Data from the Microsoft Azure Marketplace

Lab : Creating a Big Data Solution

Provisioning an HDInsight Cluster
Processing Data with HDInsight
Analyzing Big Data in Excel

INFO

Manuale: Materiale didattico ufficiale Microsoft in formato digitale

Prezzo manuale: 250 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)