

MSQ3-2 - MOC 20462 - ADMINISTERING MICROSOFT SQL SERVER DATABASES

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 attività e gli strumenti di amministrazione di base del database.
Installare e configurare SQL Server 2014.
Configurare i database di SQL Server e lo storage.
Pianificare e implementare una strategia di backup.
Ripristinare i database dai backup.
Importare ed esportare i dati.
Monitorare SQL Server.
Tracciare l'attività di SQL Server.
Gestire la protezione di SQL Server.
Effettuare l'auditing degli accessi e crittografare i dati.
Eseguire la manutenzione ordinaria del database.
Automatizzare la manutenzione di SQL Server con l'agente Jobs SQL Server.
Configurare la Posta elettronica, gli avvisi e le notifiche.

PREREQUISITI

Questo corso richiede che siano soddisfatti i seguenti prerequisiti: Conoscenza di base del sistema operativo Microsoft Windows e la sua funzionalità di base. Conoscenza operativa di Transact-SQL. Conoscenza operativa di database relazionali. Qualche esperienza con la progettazione di database. I prerequisiti possono essere soddisfatti frequentando i seguenti corsi, o ottenendo conoscenze e competenze equivalenti: 20461C: Esecuzione di query di Microsoft SQL Server 2014

CONTENUTI

Module 1: Introduction to SQL Server 2014 Database Administration

Database Administration Overview
Introduction to the SQL Server Platform
Database Management Tools and Techniques

Lab : Using SQL Server Administrative Tools

Using SQL Server Management Studio
Using the sqlcmd Utility

Using Windows PowerShell with SQL Server

Module 2: Installing and Configuring SQL Server 2014

Planning SQL Server Installation

Installing SQL Server 2014

Post-Installation Configuration

Lab : Installing SQL Server 2014

Preparing to Install SQL Server

Installing SQL Server

Performing Post-Installation Configuration

Module 3: Working with Databases and Storage

Introduction to Data Storage with SQL Server

Managing Storage for System Databases

Managing Storage for User Databases

Moving Database Files

Configuring the Buffer Pool Extension

Lab : Managing Database Storage

Configuring tempdb Storage

Creating Databases

Attaching a Database

Module 4: Planning and Implementing a Backup Strategy

Understanding SQL Server Recovery Models

Planning a Backup Strategy

Backing up Databases and Transaction Logs

Using Backup Options

Ensuring Backup Reliability

Lab : Backing Up SQL Server Databases

Backing Up Database

Performing Database, Differential, and Transaction Log Backups

Performing a Partial Backup

Module 5: Restoring SQL Server 2014 Databases

Understanding the Restore Process

Restoring Databases

Advanced Restore Scenarios

Working with Point-in-Time Recovery

Lab : Restoring SQL Server Databases

Restoring a Database Backup

Restoring Database, Differential, and Transaction Log Backups

Performing a Piecemeal Restore

Module 6: Importing and Exporting Data

Introduction to Transferring Data

Importing and Exporting Table Data

Copying or Moving a Database

Lab : Importing and Exporting Data

Using the SQL Server Import and Export Wizard
Using the bcp Utility
Using the BULK INSERT Statement
Using the OPENROWSET Function

Module 7: Monitoring SQL Server 2014

Introduction to Monitoring SQL Server
Dynamic Management Views and Functions
Performance Monitor

Lab : Monitoring SQL Server 2014

Collecting Baseline Metrics
Monitoring a Workload

Module 8: Tracing SQL Server Activity

Tracing SQL Server Workload Activity
Using Traces

Lab : Tracing SQL Server Workload Activity

Capturing a Trace in SQL Server Profiler
Generating Database Tuning Recommendations
Using SQL Trace

Module 9: Managing SQL Server Security

Introduction to SQL Server Security
Managing Server-Level Security
Managing Database-Level Principals
Managing Database Permissions

Lab : Managing SQL Server Security

Managing Server-Level Security
Managing Database-Level Security
Testing Database Access

Module 10: Auditing Data Access and Encrypting Data

Auditing Data Access in SQL Server
Implementing SQL Server Audit
Encrypting Databases

Lab : Auditing Data Access and Encrypting Data

Implementing Auditing
Implementing Transparent Database Encryption

Module 11: Performing Ongoing Database Maintenance

Ensuring Database Integrity
Maintaining Indexes
Automating Routine Database Maintenance

Lab : Performing Ongoing Database Maintenance

Managing Database Integrity
Managing Index Fragmentation
Implementing a Maintenance Plan

Module 12: Automating SQL Server 2014 Management

Automating SQL Server Management
Implementing SQL Server Agent Jobs
Managing SQL Server Agent Jobs
Managing Job Step Security Contexts
Managing Jobs on Multiple Servers

Lab : Automating SQL Server Management

Creating a Job
Scheduling a Job
Configuring Job Step Security Contexts

Module 13: Monitoring SQL Server 2014 by Using Alerts and Notifications

Monitoring SQL Server Errors
Configuring Database Mail
Configuring Operators, Alerts, and Notifications

Lab : Monitoring SQL Server by Using Alerts and Notifications

Configuring Database Mail
Implementing Operators and Notifications
Implementing Alerts

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)