MSQ4-8 - MOC 20768 - DEVELOPING SQL DATA MODELS

Categoria: **SQL Server 2017 e 2016**

INFORMAZIONI SUL CORSO

Durata:	Categoria:	Qualifica Istruttore:	Dedicato a:	Produttore:
3 Giorni	SQL Server 2017 e 2016	Microsoft Certified Trainer	Sviluppatore	Microsoft

OBIETTIVI

Descrivere i componenti, l'architettura, e la natura di una soluzione di BI
Creare un database multidimensionale con servizi di analisi
Implementare dimensioni in un cubo
Implementare misure e gruppi di misure in un cubo
Utilizzare la sintassi MDX
Personalizzare un cubo
Implementare un database tabulare
Utilizzare DAX per interrogare un modello tabellare
Utilizzare il data mining per l'analisi predittiva

PREREQUISITI

Conoscenza di base del sistema operativo Microsoft Windows e delle sue funzionalità di base.
Conoscenza di Transact-SQL.
Conoscenza di database relazionali.

CONTENUTI

Module 1: Introduction to Business Intelligence and Data Modeling
Introduction to Business Intelligence
The Microsoft business intelligence platform

Lab : Exploring a Data Warehouse
After completing this module, you will be able to:
Describe the concept of business intelligence
Describe the Microsoft business intelligence platform

Module 2: Creating Multidimensional Databases
Introduction to multidimensional analysis
Creating data sources and data source views
Creating a cube
Overview of cube security

Lab : Creating a multidimensional database
After completing this module, you will be able to:
Use multidimensional analysis

Create data sources and data source views
Create a cube
Describe cube security

Module 3: Working with Cubes and Dimensions
Configuring dimensions
Define attribute hierarchies
Sorting and grouping attributes

Lab : Working with Cubes and Dimensions
After completing this module, you will be able to:
Configure dimensions
Define attribute hierarchies.
Sort and group attributes

Module 4: Working with Measures and Measure Groups
Working with measures
Working with measure groups

Lab : Configuring Measures and Measure Groups
After completing this module, you will be able to:
Work with measures
Work with measure groups

Module 5: Introduction to MDX
MDX fundamentals
Adding calculations to a cube
Using MDX to query a cube

Lab : Using MDX
After completing this module, you will be able to:
Describe the fundamentals of MDX
Add calculations to a cube
Query a cube using MDX

Module 6: Customizing Cube Functionality
Implementing key performance indicators
Implementing actions
Implementing perspectives
Implementing translations

Lab : Customizing a Cube
After completing this module, you will be able to:
Implement key performance indicators
Implement actions
Implement perspectives
Implement translations

Module 7: Implementing a Tabular Data Model by Using Analysis Services
Introduction to tabular data models
Creating a tabular data model
Using an analysis services tabular model in an enterprise BI solution

Lab : Working with an Analysis services tabular data model
After completing this module, you will be able to:
Describe tabular data models
Create a tabular data model
Be able to use an analysis services tabular data model in an enterprise BI solution

Module 8: Introduction to Data Analysis Expression (DAX)
DAX fundamentals
Using DAX to create calculated columns and measures in a tabular data model

Lab : Creating Calculated Columns and Measures by using DAX
After completing this module, you will be able to:
Describe the fundamentals of DAX
Use DAX to create calculated columns and measures in a tabular data model

Module 9: Performing Predictive Analysis with Data Mining
Overview of data mining
Using the data mining add-in for Excel
Creating a custom data mining solution
Validating a data mining model
Connecting to and consuming a data mining model

Lab : Perform Predictive Analysis with Data Mining
After completing this module, you will be able to:
Describe data mining
Use the data mining add-in for Excel
Create a custom data mining solution
Validate a data mining solution
Connect to and consume a data mining solution

INFO

Materiale didattico: Materiale didattico in formato digitale
Costo materiale didattico: incluso nel prezzo del corso a Calendario
Natura del corso: Operativo (previsti lab su PC)