

# MSQ4-8 - MOC 20768 - DEVELOPING SQL DATA MODELS

Categoria: **SQL Server 2017 e 2016**

## INFORMAZIONI SUL CORSO



**Durata:**  
3 Giorni



**Categoria:**  
SQL Server 2017 e  
2016



**Qualifica Istruttore:**  
Microsoft Certified  
Trainer



**Dedicato a:**  
Sviluppatore



**Produttore:**  
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)