

MOC20466

Implementing Data Models and Reports with Microsoft SQL Server

Durata: 4.5 gg

Descrizione

Il focus di questo corso è la creazione di managed BI solutions. Esso descrive come implementare modelli di dati multidimensionali e tabulari, fornire report con Microsoft SQL Server Reporting Services, creare cruscotti con Microsoft Server PerformancePoint Services SharePoint, e scoprire informazioni di business utilizzando il data mining.

OBIETTIVI

Al termine del corso gli allievi saranno in grado di:

- Descrivere i componenti, l'architettura e la natura di una soluzione di BI.
- Creare un database multidimensionale con Analysis Services.
- Implementare misure in un cubo.
- Implementare misure e gruppi di misure in un cubo.
- Utilizzare MDX sintassi.
- Personalizzare un cubo.
- Implementare un modello di dati tabulare in SQL Server Analysis Services.
- Utilizzare DAX per migliorare un modello tabulare.
- Creazione di report con Reporting Services.
- Migliorare i rapporti con grafici e parametri.

- Gestire esecuzione dei report e la consegna.
- Implementare un dashboard in SharePoint Server con PerformancePoint Services.
- Utilizzo di Data Mining per Predictive Analysis.

A chi è rivolto?

Database professionals.

Prerequisiti

PREREQUISITI

Per partecipare con profitto a questo corso è necessario che gli allievi possiedano i seguenti prerequisiti:

- Almeno 2 anni di esperienza di lavoro con i database relazionali, tra cui:
- Progettazione di un database normalizzato.
- Creazione di tabelle e relazioni.
- Esecuzione di query con Transact-SQL.
- Conoscenza di base della topologia dello schema del data warehouse.
- La consapevolezza della priorità di business chiave come ricavi, la redditività e la contabilità finanziaria è auspicabile.

Contenuti

CONTENUTI

Module 1: Introduction to Business Intelligence and Data Modeling

As a SQL Server database professional, you may be required to participate in, or perhaps even lead, a project with the aim of implementing an effective enterprise BI solution. Therefore, it is important that you have a good understanding of the various elements that comprise a BI solution, the business and IT personnel typically involved in a BI project, and the Microsoft products that you can use to implement the solution.

Module 2: Creating Multidimensional Databases

This module provides an introduction to multidimensional databases and introduces the core components of an Online Analytical Processing (OLAP) cube.

Module 3: Working with Cubes and Dimensions

This module describes how to create and configure dimensions and dimension hierarchies in an Analysis Services multidimensional data model.

Module 4: Working with Measures and Measure Groups

This module describes measures and measure groups. It also explains how you can use them to define fact tables and associate dimensions with measures.

Module 5: Introduction to MDX

This module describes the fundamentals of MDX and explains how to build calculations, such as calculated members and named sets.

Module 6: Enhancing a Cube

This module describes how to enhance a cube with Key Performance Indicators (KPIs), actions, perspectives, and translations.

Module 7: Implementing an Analysis Services Tabular Data Model

This module describes Analysis Services tabular data models and explains how to develop a tabular data model using the SQL Server Data Tools for Business Intelligence (BI) add-in for Visual Studio.

Module 8: Introduction to DAX

This module explains the fundamentals of the DAX language. It also explains how you can use DAX to create calculated columns and measures, and how you can use them in your tabular data models.

Module 9: Implementing Reports with SQL Server Reporting Services

This module introduces Microsoft SQL Server Reporting Services and discusses the tools and techniques that a professional BI developer can use to create and publish reports.

Module 10: Enhancing Reports with SQL Server Reporting Services

This module describes how to enhance a SQL Server reporting Services report with charts and other visualizations, and how to use parameters to filter data in a report.

Module 11: Managing Report Execution and Delivery

This module describes how to apply security and report execution settings, and how to create subscriptions to deliver reports.

Module 12: Delivering BI with SharePoint PerformancePoint Services

This module introduces Microsoft SharePoint Server as a platform for BI, and then focuses on building BI dashboards and scorecards with PerformancePoint Services.

Module 13: Performing Predictive Analysis with Data Mining

This module introduces data mining, describes how to create a data mining solution, how to validate data mining models, how to use the Data Mining Add-ins for Microsoft Excel, and how to incorporate data mining results into Reporting Services reports.

Certificazioni

Il corso è propedeutico per i seguenti esami:

- 70-466 - Implementing Data Models and Reports with Microsoft SQL Server