

MSQ3-11 - MOC 20467 - DESIGNING BUSINESS INTELLIGENCE SOLUTIONS WITH MICROSOFT SQL SERVER

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

After completing this course, students will be able to:

- Plan a BI solution.
- Plan SQL Server BI infrastructure.
- Design a data warehouse.
- Design an extract, transform and load (ETL) solution.
- Design analytical data models.
- Plan a BI delivery solution.
- Design a Reporting Services solution.
- Design a Microsoft Excel-based reporting solution.
- Plan a SharePoint Server BI solution.
- Monitor and optimize a BI solution.
- Operate a BI solution.

PREREQUISITI

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- A basic understanding of dimensional modeling (star schema) for data warehouses
- Basic server hardware knowledge
- The ability to create Integration Services packages that include control flows and data flows
- The ability to create a basic multidimensional cube with Analysis Services
- The ability to create a basic tabular model with PowerPivot and Analysis Services
- The ability to create Reporting Services reports with Report Designer
- The ability to implement authentication and permissions in the SQL Server database engine, Analysis Services, and Reporting Services
- Familiarity with SharePoint Server and Microsoft Office applications – particularly Excel

CONTENUTI

Module 1: Planning a BI Solution

- Elements of a BI Solution
- Planning a BI Project
- The Microsoft BI Platform

Lab: Planning BI Solutions

- Describe the components of a BI Solution.
- Identify the components of a BI Solution.
- Plan a BI Project.

Module 2: Planning SQL Server Business Intelligence Infrastructure

- Considerations of BI Infrastructure
- Planning Data Warehouse Hardware

Lab: Planning BI Infrastructure

- Describe the components of a BI Infrastructure and where you would use them.
- Plan for the hardware requirements of a data warehouse implementation.

Module 3: Designing a Data Warehouse

- Data Warehouse Design Overview
- Designing Dimension Tables
- Design FACT tables

Lab: Designing a Data Warehouse Logical Schema

- Design a data warehouse.
- Design dimension tables.
- Design Fact tables.
- Design a logical schema for a data warehouse.

Module 4: Designing an ETL solution

- ETL Overview
- Planning for Data Extraction
- Planning for Data Transformations
- Planning for Data Loading

Lab: Designing an ETL Solution

- Describe the components of an ETL solution.
- Design an ETL solution.

Module 5: Designing Analytical Data Models

- Introduction to Analytical data Models
- Designing Analytical Data Models

Lab: Designing Analytical Data Model and Dimensions and Hierarchies

- Describe the features of an analytical data model.
- Design an analytical data model.

Module 6: Planning a BI Delivery Solution

- Considerations for BI delivery
- Common Reporting Scenarios
- Choosing a Reporting Tool

Lab: Planning a BI Delivery Solution

- Describe the components of a BI delivery solution.
- Describe some common reporting scenarios.
- Choose an appropriate delivery solution for a given scenario.

Module 7: Designing a Reporting Services Solution

- Planning a Reporting Solution
- Designing Reports
- Planning Report Consistency

Lab: Designing a Reporting Services Solution

- Plan for a reporting Services solution.
- Design reports for a reporting services solutions.
- Plan for consistency of reporting

Module 8: Designing an Excel Based reporting Solution

- Using Excel for Data Reporting and Analysis
- PowerPivot in Excel
- Power View in Excel

Lab: Designing and Excel Reporting Solution

- Describe key features of excel reporting solutions.
- Use PowerPivot in Excel to create reports.
- Use Power View in excel to create reports.

Module 9: Planning a SharePoint Server BI Solution

- Introduction to SharePoint Server as a BI Platform
- Planning Security for a SharePoint Server BI Solution
- Planning Reporting Services Configuration
- Planning PowerPivot Configuration
- Planning for PerformancePoint Services

Lab: Implementing a SharePoint Server BI Solution and PerformancePoint Services

- Describe the components of a SharePoint Server BI solution.
- Plan security for a SharePoint Server BI solution.
- Plan reporting solutions for a SharePoint Server BI solution.
- Describe the components of a PerformancePoint Solution.
- Implement PerformancePoint services.

Module 10: Monitoring and Optimizing a BI Solution

- Overview of BI Monitoring
- Monitoring and Optimizing the Data Warehouse
- Monitoring and Analyzing Analysis Services
- Monitoring and Optimizing Reporting Services

Lab: Monitoring and Optimizing a BI Solution

- Describe the options for monitoring and optimizing a BI solution.
- Be able to monitor and optimize a BI solution.

Module 11: Operating a BI Solution

- Overview of BI Operations
- ETL Operations
- Data Warehouse Operations
- Analysis Services Operations
- Reporting Services Operations

Lab: Operating a BI Solution

- Describe the components to be managed in a BI Solution.
- Be able to manage the components of a BI solution.

INFO

Esame: 70-467 - Designing Business Intelligence Solutions with Microsoft SQL Server

Manuale: Il Materiale Didattico Ufficiale per tutti i corsi Microsoft MOC può essere richiesto, se disponibile, in forma elettronica (DMOC) invece che cartacea e lo studente iscritto potrà scaricarlo dal sito Microsoft. Chi acquista un DMOC ha diritto a consultare tutte le versioni del manuale, sia quelle precedenti a quella che acquista sia quelle che usciranno successivamente, dove troverà corretti eventuali errori e/o le novità del prodotto.

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

Natura del corso: Operativo (previsti lab su PC)