MS20467D: Designing Business Intelligence Solutions with Microsoft SQL Server

40 HORAS

INTRODUCTION

This training course teaches database and business intelligence (BI) professionals how to plan and design a BI solution that is based on Microsoft SQL Server 2014 and other Microsoft BI technologies.

AUDIENCE

This course is not designed for students who are new to SQL Server 2014 BI technologies; it is targeted at BI professionals with experience of implementing solutions with SQL Server database Engine, SQL Server Integration Services, SQL Server Analysis Services, and SQL Server Reporting Services.

AT COURSE COMPLETION

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.

PREREQUISITES

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

COURSE OUTLINE

Module 1: Planning a BI Solution

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

Module 2: Planning SQL Server Business Intelligence Infrastructure

- Considerations of BI Infrastructure
- Planning Data Warehouse Hardware

Module 3: Designing a Data Warehouse

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

Module 4: Designing an ETL solution

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

Module 5: Designing Analytical Data Models

- Introduction to Analytical data Models
- Designing Analytical Data Models

Module 6: Planning a BI Delivery Solution

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

Module 7: Designing a Reporting Services Solution

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

Module 8: Designing an Excel Based reporting Solution

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

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

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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

Module 11: Operating a BI Solution

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

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