



20467: Designing Business Intelligence Solutions with Microsoft® SQL Server® 2012/2014

Duration: 5 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course teaches participants how to plan and design a Business Intelligence (BI) solution that is based on Microsoft SQL Server 2014 and other Microsoft BI technologies.

Target Audience

This course is intended for:

- Database Professionals
- 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.

Prerequisites

To attend this course, attendees should have professional experience in addition to the following technical knowledge:

- Basic understanding of dimensional modelling (star schema) for data warehouses
- Basic server hardware knowledge
- The ability to:
 - Create Integration Services packages that include control flows and data flows
 - Create a basic multidimensional cube with Analysis Services
 - Create a basic tabular model with PowerPivot and Analysis Services
 - Create Reporting Services reports with Report Designer
 - 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®.



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Course Objectives

Upon successful completion of this course, attendees 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.

Course Topics

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



Course Topics *Continued*

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

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 of Services Operations
- Reporting Services Operations

LABS INCLUDED

