



Designing Business Intelligence Solutions with MS SQL Server 2014

This five-day instructor-led course teaches participants how to implement self-service Business Intelligence (BI) and Big Data analysis solutions using the Microsoft data platform. The course discusses the rationale for self-service BI, and describes how to use Microsoft SQL Server Reporting Services, Excel, SharePoint Server, and Office 365 Power BI to create self-service data models and reports. The course then goes on to describe how to use Microsoft Azure HDInsight to perform Big Data analysis.

Who Should Attend:

This course is intended for BI professionals who are familiar with data warehouses & enterprise BI solutions built with SQL Server technologies.

Also for experienced data analysts who want to learn how to use MS technologies for self-service analysis & reporting.

Course Prerequisites:

Before attending this course, participants are required to have:

- Knowledge of data warehousing and data modelling principles
- Familiarity with Microsoft Excel and SharePoint Server 2013

Course Objectives:

After completing this course, participants will be able to:

- Describe key features and benefits of self-service BI.
- Use SQL Server Reporting Services to implement a self-service reporting solution.

Course Objectives cont:

- Use PowerPivot in Excel to create analytical data models.
- Use Power Query in Excel to import data into a data model.
- Use Power View in Excel to create interactive data visualizations.
- Use Power Map in Excel to create geographic data visualizations.
- Use Microsoft SharePoint Server to implement collaborative self-service BI solutions.
- Provision & use a Microsoft Azure HDInsight cluster for Big Data analysis.
- Use Pig & Hive to analyse big data in Microsoft Azure HDInsight.
- Design & implement Big Data processes to support self-service BI.

Course Code: 20467D

Course Duration: 5 Days

Course Summary

Module 1: Planning a BI Solution

Module 2: Planning BI Infrastructure

Module 3: Designing a Data Warehouse

Module 4: Designing and ETL Solution

Module 5: Designing Analytical Data Models

Module 6: Planning a BI Delivery Solution

Module 7: Designing a Reporting Services Solution

Module 8: Designing an Excel Based Reporting Solution

Module 9: Planning a SharePoint Server BI Solution

Module 10: Monitoring & Optimising a BI Solution

Module 11: Operating a BI Solution

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Call 1300 927 394 to register for this course today as places are strictly limited.



Course Outline

Module 1: Planning a BI Solution

This module enables students to plan the components of a BI Solution

Lessons

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

Lab

- Planning BI Solutions

Module 2: Planning BI Infrastructure

This module describes how to use plan appropriate BI Infrastructure given a set of BI Parameters.

Lessons

- Considerations of BI Infrastructure
- Planning Data Warehouse Hardware

Lab

- Planning BI Infrastructure

Module 3: Designing a Data Warehouse

This module describes how to design a data warehouse given a set of user requirements

Lessons

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

Lab

- Designing a Data Warehouse Logical Schema

Module 4: Designing an ETL Solution

This module describes how to design an extract, transform and load (ETL) solution

Lessons

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

Lab

- Designing and ETL Solution

Module 5: Designing Analytical Data Models

This module describes how to design analytical data models for specific BI scenarios

Lessons

- Introduction to Analytical Data Models
- Designing Analytical Data Models

Lab

- Designing Analytical Data Models
- Designing Dimensions and Hierarchies

Module 6 : Planning a BI Delivery Solution

This module describes how to choose an appropriate delivery solution for a given scenario.

Lessons

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

Lab

- Planning a BI Delivery Solution

Module 7 : Designing a Reporting Services Solution

This module describes how to design a reporting services solution.

Lessons

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

Lab

- Designing a Reporting Solution

Module 8 : Designing an Excel Based Reporting Solution

In this module students will learn how to design a reporting solution using Excel

Lessons

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

Lab

- Designing an Excel Reporting Solution



Module 9 : Planning a SharePoint Server BI Solution

This module introduces the use of SharePoint Server as a BI solution

Lessons

- 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
- Implementing PerformancePoint Services

Module 10 : Monitoring and Optimising a BI Solution

At the conclusion of this module you will be able to optimize and monitor a BI solution.

Lessons

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

Lab

- Monitoring and Optimising a BI Solution

Module 11: Operating a BI Solution

At the conclusion of this module you will be able to plan management and maintenance operations of a BI solution.

Lessons

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

Lab

- Operating a BI Solution