



Introduction to Microsoft Business Intelligence from SQL 2008 through SharePoint and Office 2007

Days: 4
Format: Instructor-Led
Class Code: 50263
Certification Exams: None
Certification Track: None

Recommended Course Sequence

Knowledge of prerequisites noted below.

Course content is subject to change without notice.

Course Description:

This instructor-led course provides students with the knowledge and skills to develop Microsoft End-to-End business solutions using SQL Server 2008 in an integrated environment with SharePoint and Office 2007. The course introduces the students to Microsoft Unified Data Model, SQL 2008 Analysis Services, Integration Services, Reporting Services, Report Builder 2.0, SharePoint 2007 Integration, Reporting Services Content Types, Business Data Catalog, Excel Web Services, and Business Intelligence with Excel 2007 and Visio 2007

Target Student:

This course is intended for DBAs, Developers and Business Intelligence Professionals seeking an introduction to the Microsoft BI Stack whether for new or existing projects or migration to the Microsoft environment.

Prerequisites:

Before attending this course, students must have:

- 1-2 years experience working with distributed applications.
- Background in Microsoft .NET Framework concepts and technology.
- Working knowledge of Microsoft SQL Server.
- Working knowledge of XML.
- Working knowledge of a Microsoft Windows-based network environment.
- Developers should have experience with Microsoft Visual Studio 2005 or later.
- No prior BizTalk experience is necessary.

At Course Completion

After completing this course, students will be able to:

- Describe the Microsoft Business Intelligence stack.
- Explain the Unified Dimension Model and when it can and cannot be used.
- Use the new Business Intelligence Features in SQL 2008.
- Create a SSAS Project using the Microsoft Unified Dimension Model.
- Create a Data Mart using Business Intelligence Studio.
- Create a Integration Services project and load a Data Mart.
- Load a Data Mart from a flat file.
- Model Dimensions, Measures and Cubes.
- Understand the pros and cons of Integration into SharePoint.
- Create a Report using Report Builder 2.0.
- Load and Manage Reports with SharePoint.
- Understand and Create a Shared Service Provider in SharePoint.
- Understand and Create a Business Data Catalog in SharePoint.
- Set permissions on objects within SharePoint.
- Utilize the Business Intelligence add-ins for Excel 2007.

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Course Outline

Module 1: Course Overview

This module explains how the class will be structured and introduces course materials and additional administrative information.

Lessons
<ul style="list-style-type: none">■ Introduction■ Course Materials■ Facilities■ Prerequisites■ What We'll Be Discussing

Module 2: Overview of the Microsoft BI Stack

Lessons
<ul style="list-style-type: none">■ The Goal of Business Intelligence■ Key Concepts■ Key Components■ SharePoint Report Center■ Office 2007■ Common Business Challenges in BI

Module 3: Unified Data Model

Lessons
<ul style="list-style-type: none">■ UDM Defined■ User Experience: Relational vs. UDM■ Advantages■ Trouble in River City
Lab : Unified Data Model
<ul style="list-style-type: none">■ Creating a Data Mart using Business Intelligence Development Studio■ Enabling Table Compression

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Module 4: SharePoint and Business Intelligence

Lessons
<ul style="list-style-type: none">■ What is SharePoint?■ What Does SharePoint Bring to the BI?■ Key SharePoint Concepts■ SharePoint or WSS?■ SharePoint Architecture■ Content Types■ Solutions■ Features
Lab : SharePoint and Business Intelligence
<ul style="list-style-type: none">■ Setting up A Report Center■ Shared Service Provider

Module 5: New BI Features in SQL 2008

Lessons
<ul style="list-style-type: none">■ Integration Services/Analysis Services/Reporting Services■ Performance Enhancements■ Programmability Enhancements■ Architectural Enhancements■ Usability Enhancements
Lab : New BI Features in SQL 2008
<ul style="list-style-type: none">■ Explore Some Of The New Features

Module 6: SSIS Major Components

Lessons
<ul style="list-style-type: none">■ Major Components■ New or Changed Features■ Script Task■ Samples
Lab : SSIS Projects
<ul style="list-style-type: none">■ Create A SSIS Project■ Add a Data Source■ Create A Data Flow■ Create Another Data Flow■ Load Data via a SQL Statement

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Module 7: SSIS ETL

Lessons
<ul style="list-style-type: none">■ SSIS and ETL■ Transformers■ Best Practices 1■ Best Practices 2
Lab : SSIS ETL
<ul style="list-style-type: none">■ Populating the Fact Table■ Loading Manufacturing Facts■ Handling Errors■ Inventory Fact Flow

Module 8: SSAS Key Concepts

Lessons
<ul style="list-style-type: none">■ Key Concepts■ Schemas■ Measures■ Dimensions
Lab : SSAS Key Concepts
<ul style="list-style-type: none">■ Define an OLAP Cube■ Working with Measures and Measure Groups■ Time and Hierarchies■ Relating Dimensions■ Build Deploy and Browse the Cube

Module 9: SSAS Cube Details

Lessons
<ul style="list-style-type: none">■ Cube Processing■ Partitions■ Proactive Caching■ Aggregations
Lab : SSAS Cube Details
<ul style="list-style-type: none">■ Multiple Partitions■ Set Storage■ Design Aggregations■ Default Members

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Module 10: SQL Server Reporting Services

Lessons
<ul style="list-style-type: none">■ Integration with SharePoint■ Report Builder 2.0■ Differences Between Environments■ Tablix■ Charts
Lab : SQL Server Reporting Services
<ul style="list-style-type: none">■ SSRS Projects Report Wizard■ SSRS SMDL■ Report Builder 2.0

Module 11: SharePoint Business Data Catalog

Lessons
<ul style="list-style-type: none">■ The BDC■ Special BDC Only Web Parts■ Application Definition Files
Lab : SharePoint Business Data Catalog
<ul style="list-style-type: none">■ Use a BDC Application■ Explore BDC Web Parts■ Use a BDC List

Module 12: SharePoint Integrated Security and Report Management

Lessons
<ul style="list-style-type: none">■ Understanding SharePoint Security■ Report Content Types■ Report Subscriptions■ Workflows■ Reports Library■ Business Web Parts
Lab : SharePoint Integrated Security and Report Management
<ul style="list-style-type: none">■ Examine Permissions■ Set Shared Schedule for Subscriptions■ Manage Data Connections■ Set up a Subscription

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Module 13: Excel Web Services

Lessons
<ul style="list-style-type: none">■ • Excel Web Access■ • Excel Web Services■ • User Defined Function
Lab : Excel Web Services (Optional)
<ul style="list-style-type: none">■ Excel Web Access■ Excel Web Services■ User Defined Function

Module 14: Excel 2007 and Data Mining BI

Lessons
<ul style="list-style-type: none">■ Key Terms in Data Mining■ Types of Data Mining Algorithms■ The Algorithms■ Excel and The BI Extensions■ Visio 2007
Lab : Excel 2007 and Data Mining BI
<ul style="list-style-type: none">■ Utilize the Excel Data Mining Tools

Additional Reading

To help you prepare for this class, review the following resources:

- The Microsoft Data Warehouse Toolkit by Ralph Kimbal
- Smart Business Intelligence Solutions with Microsoft SQL Server 2008
- Microsoft SQL Server 2008 Analysis Services Unleashed