



IN BRIEF

Delivery: Instructor-led course

Duration: 5 days

Cost Per Person: \$3,600+GST per person

Inclusions: Microsoft expert instructor, comprehensive course manual, individual computer access, and fully catered lunch, morning and afternoon tea breaks.

Prerequisites:

To help you prepare for this course review the following resources:

The Data Warehouse by Ralph Kimball.

Products Covered: The workshop will empower developers to exploit the BI functionality in the following technologies:

- SQL Server 2008 Database Services
- SQL Server 2008 Integration Services
- SQL Server 2008 Reporting Services
- SQL Server 2008 Analysis Services (OLAP and Data Mining)
- Office Visio 2010 Office Excel 2010
- SharePoint Server 2010

While based on SQL Server 2008 versions of SQL Server, this course is highly relevant for those working on SQL Server 2005 versions as well.

End to End Microsoft Business Intelligence with SQL 2008 R2 and SharePoint 2010

Course Description

This five-day, instructor-led course provides students with the knowledge and skills to develop Microsoft End-to-End business solutions using SQL Server 2008 R2 in an integrated environment with SharePoint 2010 and Office 2010. The course introduces the students to Microsoft Unified Data Model, SQL 2008 R2 Analysis Services, Integration Services, Re-reporting Services, Report Builder 3.0, SharePoint 2010 Integration, Reporting Services Content Types, PerformancePoint Services, Dashboard Designer, Excel Services, Power Pivot and Data Mining

Audience

Project managers, developers, I.T. Professionals, end-user ombudsman, analyst. This course will expose team members to all aspects of the Microsoft BI stack from the source data through the reporting of the data be it in a pdf subscribed report or through an interactive digital dashboard.

Objectives

At the end of the course, attendees will be able to:

- Describe the entire Microsoft Business Intelligence stack and the role of each component so that a better informed estimate of resources might be made in the BI project.
- Explore the concept of the Unified Data Model, understand its limitations and practical implementations and when it might be appropriate to use in a fast and low cost BI deployment.
- Explore what SQL 2008 and the R2 release change in Microsoft BI and how best to leverage these technologies.
- Gain a good working knowledge of SQL Integration Services and with that knowledge understand why the Extract Transform and Load process may go through 40 percent or more of the entire project budget.
- Finally get an explanation of Multidimensional space in SQL Server Analysis Services that can be comprehended by us mere mortals and with that knowledge learn how to get the domain experts such as HR or Marketing to communicate what they really need to know about the business.
- Plan for the on-going maintenance and changing nature of BI projects and then their rapid expansion across the enter-prise.
- Experience the terrific new report design interface Re-port Builder 3.0 and also the PerformancePoint Services one-click application Dashboard designer. You will learn to use these tools to design reports in either ad-hoc mode or for distribution once or scheduled on subscriptions. You will explore the Dashboard designer and see the ease of which you can create scorecards, filters, KPIs and dashboards.
- PowerPivot? The big development with Excel 2010 and SQL Server 2008 R2. You will learn where it fits, how to use it and what effect it will have on the present and future of your Microsoft BI investment.
- Explore Excel Services 2010 and you will be able to successfully implement a "Single version of the Truth workbook" deployment.

Topics continued overleaf...



.....Topics Covered Continued

The Microsoft Business Intelligence Stack

- SQL 2008R2 Business Intelligence Platform
- SQL Analysis Services
- SQL Reporting Services
- Performance Management Tools
- SharePoint 2010
- Multidimensional Space
- MDX
- Data Mining
- Understanding the Terminology
- Explore Business Intelligence Development Studio
- Connect into a SQL Server Analysis Services Cube
- Use SQL Server Management Studio
- Explore SharePoint 2010

Unified Data Model

- UDM Defined
- User Experience: Relational vs. UDM Advantages
- Trouble in River City
- Sharepoint 2007 and Business Intelligence
- Creating a Data Mart using Business Intelligence Development Studio.
- Enabling Table Compression
- New BI Features in SQL 2008

SQL Server Integration Services

- Major Components
- New or Changed Features
- Script Task
- Samples
- SSIS and ETL
- Transformers
- Create A SSIS Project
- Add a Data Source
- Create A Data Flow
- Create Another Data Flow
- Load Data via a SQL Statement
- Populating the Fact Table
- Loading Manufacturing Facts
- Handling Errors
- Inventory Fact Flow

SQL Server Analysis Services

- Schemas and Measures
- Dimensions
- Cube Processing
- Partitions
- Proactive Caching
- Aggregations
- Define an OLAP Cube
- Time and Hierarchies
- Relating Dimensions
- Build Deploy and Browse the Cube
- Multiple Partitions
- Design Aggregations
- Default Members

SQL Server Reporting Services

- Integration with SharePoint
- Report Builder 2.0
- Differences Between Environments
- Tablix
- Charts
- Report Builder 3.0

MDX

- MDX Query Editor
- Select Statement
- Key Concepts
- Sets
- Functions
- Time Intelligence
- Understand the Cell
- Write a Tuple

PerformancePoint Services 2010

- Integration with SharePoint Server 2010
- Common Service Application Framework
- New PerformancePoint Features
- Storage Security
- Time Intelligence and Dynamic Filters
- Linking of Web Parts
- KPI Details Report
- Retired Features
- Scorecards in PPS
- KPI Collections
- Dashboard Design Guidelines
- Dashboard Designer Internals
- Dashboard Designer Interface
- First Class Objects
- Dashboard Designer Features
- Use SharePoint to create a site collection
- Configure Central Administration for PerformancePoint Services
- Create and Explore a PerformancePoint Business Intelligence Center
- Explore the Dashboard in PPS

Excel Services 2010

- Integration with SharePoint Server 2010
- Storage Security
- Single version of the truth
- Excel Web Services
- New capabilities
- Deploy a Excel spread sheet for a single version of the truth
- Utilize Excel Web Services

Excel PowerPivot

- Integration with SharePoint Server 2010
- Understanding
- Modeling
- Explore Excel PowerPivot

Data Mining

- Key Terms in Data Mining
- Types of Data Mining Algorithms
- The Algorithms
- Excel and The BI Extensions
- Visio 2007