



Microsoft SQL Server 2008[®] Analysis Services

Course Description

In this course, you will learn how to use Microsoft SQL Server[®] 2008 Analysis Services (SSAS) to design and implement OnLine Analytical Processing (OLAP) cubes and data mining models to support Business Intelligence (BI) solutions. This course includes concepts, procedures and practices based on real-world experience giving both the novice and experienced SQL Server 2008 developer the tools to build data cubes and forecasting solutions. This course also provides information on end-user tools including Microsoft Excel[®] 2007, Office Visio[®] 2007 Professional Edition, SQL Server Business Intelligence Development Studio (BIDS) Microsoft SQL Server 2005 Integrated Services and Reporting Services.

Audience

SQL Server Administrators.

Topics Covered

What is Microsoft Business Intelligence?

- Define Business Intelligence
- Understand the Cube Structure
- Deploy and View a Sample Cube
- View a Cube by using Excel
- View a Cube by using SQL Reporting Services

OLAP Modelling

- Understand Basic OLAP Modeling (star schema)
- Understand Dimensional Modeling (stars and snowflakes)
- Understand Measure (fact) and Cube Modeling
- Model with SQL Server Business Intelligence Development Studio (BIDS)

Using SSAS in BIDS

- Understand the Development Environment
- Create Data Sources
- Create Data Source Views
- Create Cubes by using the Cube Wizard

Intermediate SSAS

- Learn how to Create Key Performance Indicators (KPIs)
- Discover how to Create Perspectives
- See how to Create Translations for Cubes and Dimensions
- Review the three SSAS Action Object Types: Regular, Drillthrough, and Reporting

Advanced SSAS

- Work with Multiple Fact Tables and the Dimension Usage Subtab in BIDS
- Explore Advanced Dimension Types
- Learn how to use the Business Intelligence Wizard
- Understand Writeback in Dimensions
- Review Semi-Additive Measures in OLAP Cubes

Cube Storage and Aggregation

- View & Customise Aggregation Designs
- Implement Proactive Caching
- Use Relational and SSAS Partitions
- Customize Cube and Dimension Processing

Introduction to MDX Queries

- Understand Basic MDX Syntax
- Use the MDX Query Editor in SSMS
- Understand Common MDX Functions Review MDX Functions New to SSAS 2008

MDX Expressions

- Understand the Calculation Subtab
- Learn how to add Calculated Members
- Explore how to add MDX Script Commands
- Discover how to add .NET Assemblies

Introduction to Data Mining

- Review the Algorithms that SSAS Includes
- Consider Data Mining Clients
- Understand Mining Structure Processing

SSAS Administration

- Implement SSAS Security
- Implement XMLA Scripts in SSMS
- Deploy and Synchronize Databases
- Understand SSAS Database Backup and Restore

Advanced Administration and Optimization

- Implement SSIS to Manage SSAS Databases
- Explore Clustering & Scalability Options
- Understand Performance Tuning and Optimization

Introduction to SSAS Clients

- Design Reports using Reporting Services
- Design Reports by using Report Builder
- Implement Excel 2007 Pivot Tables and Charts
- Use Excel 2007 as a Data Mining Client
- Review Microsoft Office SharePoint Server 2007

IN BRIEF

Delivery: Instructor-led course

Duration: 3 days

Class size: 10 Students Max.

Cost: \$2350 per person + GST

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

Prerequisites:

It is assumed that students have working experience with SQL Server 2005 or 2008, basic relational database concepts (e.g., tables, queries, and indexing), data transformation services, Excel 2007, and SharePoint[®] Server 2007.