

SSAS Course Content:35-40hours

Course Outline

SSAS - Introduction To SSAS

- Dimension Modeling
- Basics of data warehouse design
- Metric Decomposition Data Profiling
- Hands-on Lab: How to design a data warehouse example

SSAS Overview

- Data Source Views
- Cubes
- Dimensions and Measures
- Aggregates
- Hands-on Lab: Creating the project and DSV.

Cube Design and Browsing

- Creating the cube
- Processing the cube
- Exploring the various tabs
- Browsing the cube
- Hands-on Lab: Creating and Exploring the SSAS cube

SSAS- The Cube in Depth

- Dimension and Cube Editors
- Formatting measures
- Creating hierarchies
- Dimension and attribute properties
- Varying types of dimensions in SSAS
- Defining dimension, attribute and hierarchy properties
- Creating attribute relationships
- Hands-on Lab: Modifying your Dimension and Cube Properties

Adding New Facts and Dimensions

- Adding a new dimension table
- Adding a new measure group and measure
- Creating relationships between facts and dimensions
- Hands-on Lab: Creating relationship between attributes and adding multiple fact tables

MDX and Calculations

- The basics of MDX
- Using the Business Intelligence Wizard to ease MDX creation
- Creating calculations to simply querying of your cube
- Hands-on Lab: Creating calculations for your end users

SSAS - Data Mining In Depth

- Data Mining Basics
- The methodology needed for a data mining project

- Creating a mining model
- Training the mining model
- Validating and testing the mining model
- Predicting sales using the model
- Hands-on Lab: Creating, testing and querying a mining model

Using Excel to Data Mine

- Installing the Excel 2007 Data Mining Addin
- Allowing business users to easily mine their data with Excel and SSAS 2007
- Advanced mining in Excel
- Hands-on Lab: Using Excel to easily data mine

Actions

- Drilling through to data with actions
- Opening a Reporting Services report
- Using action to execute custom scripts
- Hands-on Lab: Adding actions to your cube

SSAS - SSAS User Interface and Administration

- Reporting Services with SSAS
- Creating a report using MDX
- Creating a data mining report
- Hands-on Lab: Building a cube report

Using Excel to Build Cube Interfaces

- Using Office 2007 to view cube and data mining data
- Basics of creating a thin client to show data. Students will be given a basic solution that can be used license-free to display cube data
- Creating an offline cube experience for users
- Hands-on Lab: Using Excel 2007 to display data

Administering SSAS

- Administrating your SSAS server
- Scheduling the processing of your cube
- Partitioning your cube
- Migrating changes in your cube
- Where to store your cube's data
- How to secure your cube
- Hands-on Lab: Deploying and scheduling processing of your cube