
SQL Server Analysis Services - SSAS

Mode: Classroom

Duration: 20 hours

Course Outline

Introduction to Analysis Services

- Introduction
- Business Intelligence Queries
- Architecture Options
- Database Developments
- Development, Management and Client Tools
- Summary

Dimensional Model Development

- Introduction
- Dimension wizard
- Dimension designer
- Unknown member
- Attribute properties
- Date dimension
- User Hierarchies
- Parent child hierarchy
- Attribute relationship
- Translation
- Summary

Cube Development

- Data Source and Data Source Views
- Computed and Named Queries
- Building Entity Relationships
- Deciding Data Warehouse Schema
- Creating Dimensions and Builds
- Attributes and Member Names
- Choosing Dimension Templates
- Applying Time Based Dimensions
- Need for Hierarchies and Limitations
- Attribute Relations and Uses
- Building Levels and Hierarchies

- Need for Composite Attribute Keys

KPI Calculations and Partitioned Aggregations

- Identifying Cube Entries for FASMI Rules
- Measures and Additives (Full and Semi)
- Defining Measure Groups and Measures
- Cube Customizations and Options
- BI Enhancements and Granularity
- Building Fact Less Cube Dimensions
- Calculations and Conditional Colors
- MDX Scripting for Calculations
- Defining KPIs and Goals using MDX
- Perspectives using MDX Expressions
- SSAS Actions with MDX and XMLA
- Need for Cube Partitions and Query Binding
- Local and Remote Server Partitions
- Need for Storage Models – MOLAP and ROLAP
- Generation of Aggregations on Partitions
- Storage Modes and Proactive Caching
- Hierarchies and Relations in Tabular Mode

Security

- Overview
- User Security
- Dimension Security
- Cell Security
- Administrator Security
- Service amount configuration