

Introduction to SSAS

- Datawarehouse Concepts
- Analysis Services Architecture
- Introduction to SSAS 2008 R2 & 2012

Data warehouse Architecture

- Need for Cubes and Measures
- Identifying Facts and Dimensions
- Identifying Measures and Aggregates
- Identifying Attributes and Hierarchies
- Datawarehouse Design Principles
- Staging operations and usages

Basic SSAS Entities

- Data Source and Data Source Views
- Manipulating structures in DSV
- Computed and Named Queries
- Building Entity Relationships
- Deciding Datawarehouse Schema

Dimension Wizard

- Creating Dimensions and Builds
- Attributes and Member Names
- Choosing Dimension Templates
- Applying Time Dimensions
- Need for Hierarchies and Limitations
- Attribute Relations and Uses
- Building Levels and Hierarchies
- Need for Composite Attribute Keys
- Creating empty Dimensions

Cube Wizard

- Planning for Cube Design

- Identifying Cube Entries
- Measures and Additives
- Creating Measure Groups
- Cube Customizations and Options
- Empty Cubes and Enhancements

Cube Operations

- Dimension Usage and Flexible Cubes
- Building Fact Dimensions
- Calculations and Conditional Colors
- MDX Scripting for Calculations
- Calculation Sets and Options
- Defining KPIs and Goals
- Perspectives and Uses
- SSAS Actions and Coding

SSAS Partitions and Aggregations

- Need for Cube Partitions
- Local and Remote Partitions
- Need for Storage Models
- Generation of Aggregations

MDX Specifics and Functions

- Need of MDX Language
- Complex MDX Queries
- MDX Functions & Limitations
- PARALLELPERIOD specifics
- Conditional MDX JOINS
- Cube and Dimension Writebacks
- MDX Transactions & Limitations

Data Mining and Forecast

- Need for Data Mining Structures
- Data Mining Algorithms and Rules

- DMX Queries and Forecast Reports
- Data Mining Scope and Ranking
- Prediction Functions and Analysis

SSAS Deployment

- Deployment Pre-requisites
- Deployment Options and Tools
- Creating OLAP (SSAS) Databases
- Processing Options and stages
- Managing Deployment Process

SSAS Logging

- Benefits of SSAS Logging
- Choosing correct log providers
- Managing SSAS Log Providers

OLAP Database Management

- OLAP Database Backups
- Compressions and Encryptions
- Restore Options and Partitions
- Scripting Backups and XMLA
- Scheduling Backups and Jobs
- DB Synchronizations and XMLA
- Managing Partitions & Aggregations
- DB Reports and Dashboards
- Monitoring Execution Plans

Usage Based Optimizations (UBO)

- Need for Optimizations and Audits
- Designing Aggregations using UBO
- OLAP Restore Options and XMLA

Managing Security

- SSAS Security Roles and Scope
- Object Level Access and MDX
- Drill-Through Security and MDX
- Item Level Security and MDX
- Dynamic Security Implementation
- Windows Level Authentications
- Security Audits and Query Logs

Schedules and Upgrades

- Using SSIS for DW Management
- Using SSIS for XMLA Operations
- MDX and DMX Operaitons in SSIS
- Scheduling SSAS operations
- Upgrading OLAP Databases (DW)
- Comparing SSAS 2008 R2 & 2012
- New SSAS Features in DENALI



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