

SSAS COURSE CONTENT

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1. SSAS Installation and Configuration

- ✚ Introduction to SSAS 2012 & 2014
- ✚ Multidimensional Mode Configuration
- ✚ Tabular Mode Configuration, In-Memory
- ✚ Testing SSAS Workspace Servers in SSDT
- ✚ Understanding Real-world Databases
- ✚ Need for OLAP Databases and Mining
- ✚ Need for Cubes and Faster Reports
- ✚ Identifying OLAP / Analysis Entities
- ✚ Kimball and Inmon Methods - BI Design
- ✚ SSAS Usage and Target Access Methods
- ✚ Column Storage, Row Storage Options

2. Basic SSAS Entities & Usage

- ✚ Data Source and Data Source Views
- ✚ Computed Columns and Attributes
- ✚ Building Relationships For Cubes
- ✚ Identifying Facts and Dimensions
- ✚ Identifying Measurable Aggregates
- ✚ Identifying Attributes and Hierarchies
- ✚ Deciding Cube (MOLAP) Schema
- ✚ Named Queries and Relations in DSV
- ✚ Database Dimensions from DSV Entities
- ✚ Cube Dimensions from DSV Relations
- ✚ Cube & Database Dimensions - Issues

3. Dimension Wizard and Attributes

- ✚ Creating Multi-Dimensional Entities

- ✚ Attributes and Key Member Names
- ✚ Cube Dimension Templates and Options
- ✚ Applying Time Based Dimensions
- ✚ Dimension Hierarchies and Limitations
- ✚ Cube Attribute Relations and Uses
- ✚ Composite Attribute Keys in OLAP Cubes
- ✚ Building Attribute Levels and Hierarchies
- ✚ Duplicate Attribute Key Errors
- ✚ Common Deployment & Security Errors
- ✚ Deployment Warnings in Real-World

4. Cube Wizard and Relations

- ✚ Cube Design – Regular Templates
- ✚ Cube Measures and Dimension Keys
- ✚ Additive and Semi-Additive Measures
- ✚ Cube Customization Options and MDX
- ✚ Calculations and MDX Members
- ✚ MDX Scripts for Member Calculations
- ✚ Cube Calculation Sets and MDX Scripts
- ✚ BI Enhancements and MDX in MOLAP
- ✚ Time-Based Calculations with MDX

5. Dimension Types & KPI

- ✚ Role-Playing Dimensions and MDX
- ✚ Fact and Factless Dimensions
- ✚ Referenced Dimensions & Usage
- ✚ Conformed Dimensions & Usage
- ✚ Degenerate Dimensions & Usage
- ✚ Junk & Hierarchical Dimensions
- ✚ Dimension Usage and Granularity
- ✚ Building Fact Less Dimensions
- ✚ Static and Dynamic KPIs with MDX
- ✚ Parent and Child KPIs with MDX

- ✚ Defining KPIs and Goals using MDX
- ✚ Perspectives using MDX Expressions
- ✚ SSAS Actions with MDX and XMLA

6. SSAS Partitions and Aggregations

- ✚ Local and Remote Cube Partitions
- ✚ Storage Modes – MOLAP, ROLAP, HOLAP
- ✚ Aggregations and Proactive Caching
- ✚ Tuning Cube Partition Processing
- ✚ Row Estimations and Aggregations
- ✚ Assigning Aggregations, Scripts
- ✚ Usage-Based Optimization (UBO)

7. MDX Functions, FILTERS and JOINS.

- ✚ MDX Functions & Conditional JOINS
- ✚ Complex MDX Queries & FILTERS
- ✚ CROSS APPLY versus MDX JOINS
- ✚ CROSS APPLY and MDX Query Filters
- ✚ Cube and Dimension Writebacks
- ✚ MDX with Roleplaying Dimensions
- ✚ MDX Transactions & Limitations

8. Data Mining and Forecast

- ✚ Need for Data Mining Structures
- ✚ Data Mining Algorithms and Rules
- ✚ DMX Queries and Forecast Reports
- ✚ Data Mining Scope and DMX Ranks

9. Tabular Mode Cube Design

- ✚ Entity Identification Procedures
- ✚ Workspace Configuration Settings
- ✚ In-Memory Processing Options
- ✚ Advance Cube Design Scenarios
- ✚ Aggregated Measures with KPIs

- ✚ Partitioned Dimensions & Usage
- ✚ Conditional MDX Scripts & Options
- ✚ Hierarchical MDX in Tabular Mode
- ✚ MDX Filters and Joins in Tabular Mode

10. Deployment (Tabular & Multidimensional)

- ✚ Deployment Options and Pre-requisites
- ✚ Cube Deployment Process and Tools
- ✚ SSAS Deployment Wizard Tool & Errors
- ✚ Storage Locations - Cube & Partitions
- ✚ Creating OLAP Databases, Scripts
- ✚ Processing Options and Schedules
- ✚ Managing Deployment Process (OLAP)
- ✚ SSAS Database and Cube/Mining Audits
- ✚ MDX Query Log Tables in DB Engine
- ✚ Flight Recorder Options and Sampling
- ✚ Managing SSAS Log Providers

11. OLAP Database Management

- ✚ OLAP & Tabular Database Backups
- ✚ OLAP Compressions and Encryptions
- ✚ Backups, Restores and Passwords
- ✚ Scheduling Backups and Jobs
- ✚ OLAP DB Synchronizations and XMLA
- ✚ Partitions - Splits and Merge Options
- ✚ Managing Partitions & Aggregations

12. Usage-Based Optimization (UBO)

- ✚ Need for Optimization and Audits
- ✚ Designing Aggregations using UBO
- ✚ Aggregations For Optimization Levels
- ✚ Audit Query Filters and Reuse Options
- ✚ OLAP Restore Options and XMLA

13. Using OLAP Structures

- ✚ Cube Analysis with Excel Tables
- ✚ Excel Pivots and Refresh Options
- ✚ Configuring ODC (Office) Connections
- ✚ Prediction Functions and Analysis
- ✚ DMX and MDX Queries Interfaces

14. Managing Security with MDX

- ✚ SSAS Security Roles and Scope
- ✚ Object Level Access and Dynamic MDX
- ✚ Item Security and DAX Expressions
- ✚ Dynamic Cube Security with MDX
- ✚ OLAP Security Audits and Query Logs

15. Schedules and SSAS Upgrades

- ✚ OLAP Management with ETL/DWH
- ✚ MDX and OLAP Operations with ETL
- ✚ Scheduling SSAS Operations (XMLA)
- ✚ Comparing SSAS 2012 & SSAS 2014

16. Practice Test & Interview Questions

Contact for SSAS Training: +919885022027