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SQL Server Analysis Services

Introduction to BI, Data Warehousing and Analysis Services

- Data Warehouses
- Fact Tables
- Dimension Tables
- Dimensions Cubes
- Star Schemas
- Snowflake Schemas
- Normalization vs Denormalization
- Business Intelligence Semantic Model (BISM)
- Tabular Model
- SSAS Features, Tools and Terminologies

Creating Multidimensional Analysis Solutions

- Supported Data Sources
- Data Source View (DSV) Wizard
- DSV Designer
- Named Calculation
- Database Dimensions
- Dimension Wizard
- Dimension Designer
- Attributes
- Attribute Relationships
- Hierarchies and Levels
- Ragged Hierarchies
- Parent-Child Hierarchies
- Deploying & Processing Dimensions
- Browsing Dimensions
- Sorting Dimension Members
- Dimension Translations
- Time Dimensions

All the training sessions will be conducted with Practical Examples.
Students' practice labs will be provided separately for hands on.



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Working with Cubes

- Cube Wizard
- Deploying & Processing Cubes
- Browsing Cubes
- Cube Dimensions
- Measures & Measure Groups
- Calculated Members
- Time Dimension
- Dimension Write back
- Cube Partitions: Storage, Aggregation Design, Usage-based Optimization

Working with Measures and Measure Groups

- Measure Groups & Measures
- Adding & Enhancing Dimensions
- Fact Relationships
- Many-To-Many Relationships
- Data Mining Dimensions
- Role-Playing Dimensions
- Adding Calculations To Cubes

Multidimensional expressions

- Basic syntax
- Using the MDX query editor in SQL Server Management Studio
- Fundamental Concepts
- Members
- Cells
- Tuples
- Sets
- Simple MDX Queries
- Adding calculated members
- Adding scripts
- Adding named sets

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Customizing Cube Functionality

- Key Performance Indicators (KPIs)
- Trends
- Actions: URL redirection, Report redirection, Drill-through
- Cube Perspectives
- Cube Translations
- Browsing Perspectives and Translations

SSAS Administration

- Management Studio
- Database Creation
- Managing SSAS Objects
- XMLA Scripts
- Processing SSAS Objects
- Managing Partitions
- Backup & Restore
- Detach and Attach
- Synchronization
- Managing SSAS Security

SSAS Security

- Security Architecture
- Cube Roles
- Database Dimension Security
- Cube Dimension Security

Analyzing Cubes with Microsoft Excel

- Creating an offline cube
- Analyzing Data in Excel: Pivot Tables, Pivot Charts
- Analyzing Data in PowerPivot

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Microsoft MDX Basics

- Basic MDX
- SELECT
- FROM Clause
- Where Clause
- Filters
- With Clause
- Aliasing through With Clause
- Comments

Dimensions

- Source
- MDX Functions
- Key Concepts of Dimensions
- Dimension Properties
- Dimension Attributes
- Attribute Values
- Attribute Members
- MDX Hierarchies
- User Hierarchies
- Levels
- members Function
- Members have Properties
- Intrinsic Dimension and Level Properties
- Intrinsic Member Properties
- Custom Member Properties
- Tuples
- Member Reference with Tuples
- Tuples with Multiple Dimensions
- Cells
- Partial Tuples
- Sets
- MDX: Tuple Vs Set
- Set Functions
- Empty Sets
- Sets with Multipart Tuples

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Shared Dimensionality
Using Two Axis
Distinct Function
MeasureGroupMeasures Function
CrossJoin Function
CrossJoin and Auto-Exists
Exists Function

Navigating Hierarchies

Navigation Functions of Immediate Relatives
Function Syntax
members Function
Dimensions have Members
Hierarchies have Members
Levels Have Members
Children function
Descendants Function
Descendants Syntax
Parent Function
Ancestor Function
Ascendants Function
Siblings Function
Cousin Function
Lastchild and Firstchild functions
Lead, Lag, Head and Tail Functions
Lead Function
Lag Function
Head Function
Tail Function
Prevmember, Nextmember Functions
PrevMember Function
NextMember
CurrentMember Function
Drilldown (Up)
DrilldownLevel
DrilldownLevelBottom
DrilldownLevelTop
DrilldownMember
DrilldownMemberBottom

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DrilldownMemberTop
DrillupLevel
DrillupMember
Hierarchize
Order Function
Rank Function
Controlling Sort Order
Ascending Sort
Descending Sort
basc
bdesc
Range Operator
TopCount, BottomCount Function
Item Function
Filter Function
Filter Operator Table
NonEmpty Function
Combining Sets
Union
Intersection (Intersect)
Exception (Except)

MDX Calculations

Named Calculation
Named Set
Scoped Assignments
Expressions
Nulls in expressions in MDX
Operators supported in MDX
Solve Order
Calculated Members (WITH Member)
Query-scoped
Session-scoped
Create Member
Formatting through With
Dynamic Expressions
Using Sets In Expressions
Existing Keyword
IIF Function
IsEmpty

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- CurrentMember
- Level and Ordinal Function
- Statistical Functions
- Min and Max
- AVG Function
- Sum Function
- Aggregate Function
- Count Function (Counting Tuples)
- Count (Dimension)
- Count (Hierarchy Levels)
- Count (Set)
- TopCount Function

Working With Time

- The Time Dimension
- Current Value
- Navigating Time
- Historical Values
- ParrallelPeriod
- OpeningPeriod/ClosingPeriod
- OpeningPeriod
- ClosingPeriod
- PeriodsToDate
- (x)TD Functions
- Year-To-Date (YTD)
- Quarter-To-Date (QTD)
- Month-To-Date (MTD)
- Week-To-Date (WTD)
- LastPeriods
- Combining Functions

Business Insights

- Peer Ranking
- Percent of Level or Group
- Percentage of Parent
- Inventory
- Order Ranking
- Calculating Averages (AVG)
- Rolling Averages

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