

Microsoft SQL Server Analysis Services (SSAS) Course Outlines

Course Duration: 3 Days

Course Price: £975 Per Person | One to One £1075

Onsite Price from: £1755 for 2 Delegates | Additional Delegates £100 Per Person

Introduction to SQL Server Analysis Services (SSAS)

- ... Business Intelligence Semantic Model (BISM) Multidimensional Mode
- ... BISM Tabular Mode
- ... SQL Server Analysis Services 2012/2014

First Look at Multidimensional BISM

- ... Development, Administrative & Client Tools
- ... Upgrading to SSAS 2012/2104
- ... Using SQL Server Data Tools (SSDT - 2012/2014)
- ... Using Business Intelligence Development Studio (BIDS - 2008)
- ... Multidimensional Applications
- ... The Visual Studio Environment
- ... Deploying Browsing a Cube
- ... Using SQL Server Management Studio (SSMS)
- ... Querying the Cube in the MDX Query Editor
- ... Creating a Project
- ... Creating an Analysis Services Database
- ... Creating a Data Source
- ... Creating a Data Source View
- ... Creating a Cube
- ... Using the Cube Wizard

Understanding MDX

- ... What is MDX
- ... MDX Concepts
- ... Measures & Measure Groups
- ... Hierarchies & Hierarchy Levels
- ... Members
- ... Cells
- ... Tuples
- ... Sets
- ... MDX Queries
- ... MDX Expressions: Operators & Functions

Data Sources & Data Source Views

- ... Supported Data Sources
- ... Creating Data Source Views: DSV Wizard & DSV Designer
- ... Data Source Views in Depth
- ... Multiple Data Sources Within a DSV

Dimension Design

- ... Working with the Dimension Wizard
- ... Working with the Dimension Designer: Attributes, Attribute Relationships, User Hierarchies
- ... Browsing the Dimension
- ... Sorting Members of a Level
- ... Optimising Attributes
- ... Defining Translations in Dimensions
- ... Creating Snowflake Dimensions
- ... Creating Parent-Child Hierarchies

Cube Design

- ... The BISM Multidimensional Mode
- ... Creating a Cube Using the Cube Wizard
- ... Cube Dimensions
- ... Relationship Types: No Relationship, Regular, Fact, Many-to-Many, Referenced
- ... Measures & Measure Groups
- ... Calculated Members: Calculations
- ... Creating Perspectives
- ... Creating Translations
- ... Browsing Perspectives and Translations

Advanced Dimension Design

- ... Custom Rollups
- ... Unary Operators
- ... Naming Levels In Parent-Child Hierarchies
- ... Customising Dimension Properties: Ordering, All Member, Default Member, Unknown Member, Error Configurations, Storage Mode, Grouping Members
- ... Dimension Intelligence: Account, Time and Dimension
- ... Server Time Dimension
- ... Dimension Writeback

Advanced Cube Design

- ... Measure Groups & Measures
- ... Adding & Enhancing Dimensions
- ... Fact Relationships
- ... Many-To-Many Relationships
- ... Data Mining Dimensions
- ... Role-Playing Dimensions
- ... Defining Security
- ... Cell Writeback
- ... AMO Warnings
- ... Adding Calculations To Cubes
- ... Key Performance Indicators (KPIs)
- ... Actions: URL redirection, Report redirection, Drill-through
- ... Cube Intelligence: Semi-Additive Measures, Currency Conversion

- ... Cube Partitions: Storage, Aggregation Design, Usage-based Optimisation
- ... Real-Time Cubes

Administration & Management

- ... Management Studio
- ... Database Creation
- ... Managing SSAS Objects
- ... XMLA Scripts
- ... Processing SSAS Objects
- ... Managing Partitions
- ... Analysis Management Objects (AMO)
- ... Backup & Restore
- ... Detach and Attach
- ... Synchronisation
- ... Managing SSAS Security
- ... Online Mode
- ... Programmatic & Advanced Administration

Designing Multidimensional BISM for Performance

- ... Fine Tuning Dimensions & Cubes
- ... Optimising For Processing
- ... Designing Aggregations

Introduction to Data Mining, Multidimensional BISM, and Data Mining

- ... Data Mining Process
- ... Data Mining Algorithms
- ... Data Mining Models
- ... Using Data Mining with Excel

Analysing Cubes With Microsoft Office Components

- ... Analysing Data in Excel: Pivot Tables, Pivot Charts
- ... Analysing Data in PowerPivot

Other Features

- ... BISM Tabular Mode Overview
- ... PowerPivot Overview