

Microsoft SQL Server Analysis Services

Course code: GOC641

The course is intended for anyone who wants to create professional data analysis using Analysis Services. Participants acquire skills using appropriate data sources, creating cubes, measures, dimensions, KPIs and other techniques to analyze data.

Who the course is for

- The course is intended for database specialists and analysts who are tasked with advanced data analysis and want to take advantage of technology SQL Server Analysis Services

After completing this course, students will be able to:

- Describe Analysis Services
- Create multidimensional databases
- Work with cube and create dimensions
- Work with measures and measure groups
- Describe transactions and concurrency
- Use basic syntax of MDX language
- Extend cube attributes
- Analysis Services maintenance
- Data mining overview
- Use basic syntax of DAX language
- Analysis Services Tabular model
- How to choose right model

Required skills

- Basic knowledge of the Microsoft Windows operating system and its core functionality
- Working knowledge of Transact-SQL
- Basic knowledge of data warehouses

Course Outline

Analysis Services Overview

- Overview
- Basic concepts

Multidimensional database

- Datasource
- Datasource view
- Creation of cubes and dimensions

Advanced techniques of cube and dimension creation

- Advanced cube creation
- Advanced dimension creation

Work with measures

- Measures
- Measure groups

MDX fundamentals

- MDX basic concepts
- MDX basic syntax
- Calculated members

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Microsoft SQL Server Analysis Services

Cube extensions

- KPI
- Actions
- Perspectives
- Translation

Analysis Services management

- Deploy
- Security
- Processing
- Automating tasks

Datamining fundamentals

- Datamining structures
- Datamining models

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- Datamining structures
- Datamining models

PowerPivot

- PowerPivot overview
- How to create InMemory model using Excel

DAX fundamentals

- Extending data model using DAX
- Advanced DAX
- Using DAX on aggregated level

Analysis Services Tabular model

- Working with Tabular model
- Tabular vs. multidimensional
- Tabular model maintenance

How to choose right data model

- Model comparison
- Discussion with students

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