

# 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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## 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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