

# Microsoft SQL Server Analysis Services Tabular

Course code: GOC6412

This course is intended for anyone who wants to professionally analyze data using SQL Server Analysis Services (SSAS) in tabular mode and learn the basics of the DAX language. Participants will learn how to create their own tabular model, understand the fundamentals of DAX, and discover how to deploy the created solution to a production environment – either on their own server or in the cloud. They will also learn how to secure the solution appropriately and automate its maintenance.

Affiliate	Duration	Course price	ITB
Praha	2	12 800 Kč	20
Brno	2	12 800 Kč	20
Bratislava	2	640 €	20

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
07.09.2026	2	12 800 Kč	Presence	CZ/SK	GOPAS Praha
15.10.2026	2	12 800 Kč	Presence	CZ/SK	GOPAS Brno
07.12.2026	2	12 800 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

## What You Will Learn

- You will get familiar with SQL Server Analysis Services
- You will learn in which products the tabular engine is used
- You will learn how to create your own tabular model, understand the difference between dimension and fact tables, create relationships between them, and define hierarchies
- You will learn the basics of the DAX language
- You will master the creation of measures, calculated tables, and get introduced to time intelligence calculations
- You will learn how to deploy the created model to a production environment, secure it properly, and automate essential maintenance tasks

## Prerequisites

- Basic understanding of data warehouse concepts at the level of course GOC645
- Basic knowledge of relational databases and T-SQL at the level of course GOC277

## Course Outline

- Introduction to Analysis Services and the Tabular Engine
- Overview of SQL Server Analysis Services
- Key concepts and use cases
- Learn which products use the tabular engine (SSAS, Power BI, Power Pivot)
- Creating a Tabular Model in Analysis Services
- Dimension and fact tables
- Relationships between tables
- Hierarchies
- DAX Language
- Calculated columns
- Measures

**GOPAS Praha**  
Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Brno**  
Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

**GOPAS Bratislava**  
Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 902 903 132  
[info@gopas.sk](mailto:info@gopas.sk)



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- Calculated tables
- Expanding Business Logic with Examples
- Manipulating calculation context
- Time intelligence calculations
- Iterators
- Calculation Groups
- Performance Optimization
- VertiPaq storage
- Partitioning
- Factors negatively affecting performance
- Basics of Querying in DAX
- Introduction to DAX queries
- Application in SQL Server Reporting Services (optional)
- Deployment to On-Premises or Cloud
- Deployment to on-premises server
- Deployment to Microsoft Azure Analysis Services
- Deployment to Microsoft Fabric workspaces
- Roles and Security
- Designing a security model
- Row-level security in roles
- Automation of Management and Maintenance
- Key steps in management and maintenance (processing, backup, partitioning)
- Demonstration of automation on a physical or virtual server
- Demonstration of automation in the cloud

## **GOPAS Praha**

Na Strži 2097/63  
140 00 Praha 4 - Krč  
Tel.: +420 226 201 390  
[info@gopas.cz](mailto:info@gopas.cz)

## **GOPAS Brno**

Nové sady 996/25  
602 00 Brno  
Tel.: +420 530 513 590  
[info@gopas.cz](mailto:info@gopas.cz)

## **GOPAS Bratislava**

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