

# Basics of Writing Queries in T-SQL Language on Microsoft SQL Server Platform

Course code: GOC277

Introductory course provides students with all necessary technical skill to write T/SQL queries for Microsoft SQL Server. Targeted platform is broad range actually supported Microsoft SQL Servers. The course is intended for junior database developers, administrators and power users or information workers.

Affiliate	Duration	Course price	ITB
Praha	3	20 900 Kč	30
Brno	3	20 900 Kč	30
Bratislava	3	675 €	30

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
10.03.2025	3	607,5 €	Online	CZ/SK	Gopas Bratislava Online
10.03.2025	3	18 810 Kč	Online	CZ/SK	Gopas Praha Online
23.04.2025	3	20 900 Kč	Presence	CZ/SK	Gopas Brno Prezenční
28.04.2025	3	20 900 Kč	Presence	CZ/SK	Gopas Praha Prezenční
19.05.2025	3	675 €	Presence	CZ/SK	Gopas Bratislava Prezenční
11.06.2025	3	20 900 Kč	Presence	CZ/SK	Gopas Praha Prezenční
02.07.2025	3	675 €	Online	CZ/SK	Gopas Bratislava Online
02.07.2025	3	20 900 Kč	Online	CZ/SK	Gopas Praha Online

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## Who is the course for

Junior database administrators and developers

Power users or information workers

## What we teach you

- Write SELECT queries to retrieve data
- Group and summarize data by
- Join data from multiple tables
- Write queries that retrieve and modify data by using subqueries

## Required skills

Basic knowledge of relational databases (tables, relations, etc.)

## Course Outline

Introduction to T-SQL

- Basic terminology (DCL, DDL, DML, comments, variables, loops, conditions)
- Data types
- Operators (logical, arithmetical, concatenation)
- System functions (GETDATE, CHARINDEX, ISNULL)
- Management Studio

Basics of the SELECT statement

### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



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# Basics of Writing Queries in T-SQL Language on Microsoft SQL Server Platform

- Selecting data with SELECT, WHERE, FROM
- Columns, constants, expressions
- Conditions and operators

## Join tables

- Why and how join tables together
- INNER JOIN
- LEFT, RIGHT, FULL OUTER JOIN
- CROSS JOIN
- UNION

## Aggregation in queries

- Aggregation functions
- GROUP BY
- HAVING
- Duplicity testing
- Ranking functions (ROW\_NUMBER, NTILE, RANK, DENSE\_RANK)

## Subqueries

- Subquery in SELECT
- Subquery in FROM
- Subquery in WHERE

### **GOPAS Praha**

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### **GOPAS Brno**

Nové sady 996/25  
602 00 Brno  
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