

Monitoring and Performance Tuning T-SQL Queries

Course code: GOC631

The primary audience for this course is individuals who develop and optimize SQL Server database solution and queries.

Affiliate	Duration	Course price	ITB
Praha	5	30 000 Kč	50
Brno	5	30 000 Kč	50
Bratislava	5	1 200 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
08.06.2026	5	30 000 Kč	Presence	CZ/SK	GOPAS Praha
22.06.2026	5	1 200 €	Presence	CZ/SK	GOPAS Bratislava
14.09.2026	5	30 000 Kč	Presence	CZ/SK	GOPAS Praha
19.10.2026	5	30 000 Kč	Presence	CZ/SK	GOPAS Brno
07.12.2026	5	30 000 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

Who the course is for

- The primary audience for this course is individuals who develop and optimize SQL Server database solution and queries

After completing this course, students will be able to:

- Describe query lifecycle
- Monitor queries and analyze performance problems
- Design and optimize index strategy
- Understand query plans
- Describe transactions and concurrency

Required skills

- Basic knowledge of the Microsoft Windows operating system and its core functionality
- Working knowledge of Transact-SQL
- Experience with database design

Course Outline

Query lifecycle

- SQL Server architecture
- Query lifecycle
- Query optimization process
- SQLIOS, Memory, CPU, Threads
- Performance killers

Monitor queries and analyze performance problems

- Performance Monitor
- SQL Profiler
- Dynamic Management Views

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- Activity monitor
- Data Collector
- Extended Events
- Performance problem analysis

Index strategy

- Deep index description
- Index design
- Statistics
- Index maintenance
- Index monitoring

Execution plans

- What is execution plan ?
- Plan reading and analysis
- Plan caching
- Adhoc and procedure plans

Concurrency control

- Transactions and concurrency control
- Locks
- Transaction Isolation Level

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