

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	26 000 Kč	50
Brno	5	26 000 Kč	50
Bratislava	5	1 125 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
03.03.2025	5	26 000 Kč	Online	CZ/SK	Gopas Praha Online
03.03.2025	5	1 125 €	Online	CZ/SK	Gopas Bratislava Online
19.05.2025	5	26 000 Kč	Presence	CZ/SK	Gopas Praha Prezenční
 09.06.2025	5	1 125 €	Telepresence	CZ/SK	Gopas Bratislava Prezenční_GTT
09.06.2025	5	26 000 Kč	Online	CZ/SK	Gopas Praha Online

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

GOPAS Praha
Kodaňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



Copyright © 2020 GOPAS, a.s.,
All rights reserved

Monitoring and Performance Tuning T-SQL Queries

- Dynamic Management Views
- 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

GOPAS Praha

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

GOPAS Brno

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

GOPAS Bratislava

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



Copyright © 2020 GOPAS, a.s.,
All rights reserved