

MySQL administration

Course code: GOC661

Students will acquire important information about the properties of the database system MySQL and acquire skills of effective management and maintenance. Among the important topics of the course include the setup process in Windows and Linux environments, backup and recovery strategy databases, security configuration, system monitoring and troubleshooting.

Affiliate	Duration	Course price	ITB
Praha	5	22 500 Kč	50
Brno	5	22 500 Kč	50
Bratislava	5	1 000 €	50

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
16.12.2024	5	22 500 Kč	Presence	CZ/SK	GOPAS Praha
17.02.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Brno
24.02.2025	5	1 000 €	Online	CZ/SK	GOPAS Bratislava online
24.02.2025	5	22 500 Kč	Online	CZ/SK	GOPAS Praha online
24.03.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Praha
07.04.2025	5	1 000 €	Presence	CZ/SK	GOPAS Bratislava prezenčne
02.06.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Brno
23.06.2025	5	22 500 Kč	Presence	CZ/SK	GOPAS Praha
30.06.2025	5	22 500 Kč	Online	CZ/SK	GOPAS Praha online
30.06.2025	5	1 000 €	Online	CZ/SK	GOPAS Bratislava online

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Who is the course for

- IT specialists who want to manage MySQL database system

After completing this course, students will be able to use new features in these areas:

- MySQL overview
- Install and configure MySQL on Windows
- Install and configure MySQL on Linux
- Configure and manage database
- Principles and use backup and recovery
- Database system security
- Monitoring
- Maintenance and automation tasks
- Data import and export
- Troubleshooting

Required skills

- Basic knowledge of operating systems Microsoft Windows / Linux
- Basic knowledge of databases

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



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Course Outline

MySQL overview

- Properties, versions, editions, components, compared with other DB
- Overview and tools for administrators
- Architecture of the MySQL database system

Installation and configuration in a Windows environment

- Preparing for installation (Windows)
- Getting the installation media and the choice of distribution
- Using multiple instances of MySQL on a single server
- Installation procedure
- Recommended configuration (CPU, Memory, etc.)

Installation and configuration in a Linux environment

- Installing from the repository distribution
- Installing from source package
- Configure and start the database system

Configuration and database management

- Overview of database structure
- System database
- Database configuration

Backing up and restoring databases

- Properties backup process
- Types of database backups and their combinations
- Using Tools
- Database recovery scenarios and practical use

Security

- Authentication mode of user connections
- Creating and managing users
- Types and set permissions
- Audit, logging and tracking users

MySQL monitoring

- Tools for Monitoring MySQL
- Monitoring active connections
- Analysis of performance indicators
- Solving performance problems

Maintenance and automation tasks

- Reason for using automation
- Design and creation of automated tasks
- Maintenance database system (defragmentation, etc.)

Data import and export

- Overview and application of methods for data import
- Overview and application of methods for data export

Troubleshooting

- Methods and procedures to identify and solve problems
- Troubleshooting service level
- Solving the concurrency problems
- Troubleshooting the connection level

GOPAS Praha

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101 00 Praha 10
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