MySQL, Administration

Hands-on course of 3 days - 21h
Ref.: MSA - Price 2025: 2 010 (excl. taxes)

EDUCATIONAL OBJECTIVES
At the end of the training, the trainee will be able to:

Installing the MySQL DBMS

Determining the main features of MySQL database administration

Creating and managing a database

Managing access to users

Managing database security.

Participants

THE PROGRAMME

last updated: 03/2024

1) » Introduction and installation
- Versions and types of licenses.
- Mysql, mysqlshow, myphpadmin tools.
- Configuring the server (my.cnf, sql_mode, strict mode, etc.).
- Starting and stopping.
- Installations (binary, from source code, etc.).
- Mysqladmin.
- Installing MySQL Workbench.
- Changing versions, migration.
- Hands-on work ¤Installation in Linux/Windows. Installing MySQL Workbench.

2) » Objects of a MySQL database
- Types of tables (MyISAM, MEMORY, MERGE, etc.).
- Changing the definition of a table.
- Index.
- View management.
- The INFORMATION_SCHEMA database.
- Hands-on work ¤Creating and using views. Changing the definition of a table.

3) » Connections, access rights, security
- User authentication
- Structure of "mySQL" database tables.
- Managing users and their privileges.
- Rights to views and stored workflows.
- Using SSL.
- Hands-on work ¤Complete securing of post-installation. Creating MySQL accounts. Managing privileges and passwords.

4) » Storage engines and plug-ins
- MyISAM and InnoDB storage engines.
- Architecture and configuration of InnoDB.
- Transactional operation of the InnoDB engine.
- Locking tables.

- Plug-ins: Configuration and start-up.
- Hands-on work ¤Changing the InnoDB configuration. Implementing transactions

5) » Maintaining a MySQL server
- Session status (variables, "show status" command), force-killing a session.
- Loading: LOAD DATA, myimport, SELECT INTO OUTFILE, mysqldump.
- Logs (general, errors, slow queries, etc.).
- Backup strategies.
- InnoDB Hot Backup, mysqlbinlog.
- Incremental backup and restore.
- Scheduling.
- Hands-on work ¤Activating logs. Using loading/unloading tools. Backup and restore with "mysqldump". Using the binary log

DATES

REMOTE CLASS
2025 : 08 sept., 03 nov.