Course : MySQL, Administration

Practical course - 3d - 21h00 - Ref. MSA
Price : 2040 CHF E.T.

★★★★ **4 / 5**

Teaching objectives

At the end of the training, the participant 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

Course schedule

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 and locations

REMOTE CLASS
2026 : 20 May, 20 May, 5 Oct., 5 Oct., 7 Dec.,
7 Dec.