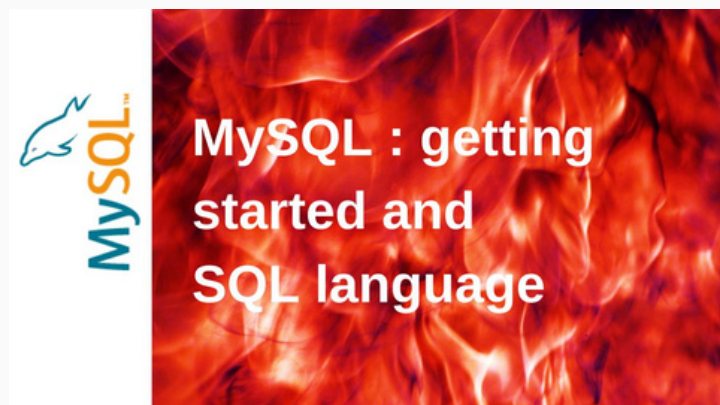


Module : Mastering SQL language with MySQL

In this training, you will learn how to manipulate a database with the SQL language: create and alter objects, update (insert, delete, update) and select data. This skill is needed to connect your apps to data.

Prerequisites : Know how to use a computer, Basic Excel concepts.



Ways to take this course: Online Instructor Led
Online self-paced
Video On Demand

Video conference tool : ZOOM

Duration : 21 H (3 days)

Mastering SQL update clauses

Insert some columns
Insert all columns
Insert multiple rows
Sequences, auto increment
Dates with MySQL
Modify data: UPDATE
Modify data: REPLACE
Delete data
Integrity of data

OUTLINE

MySQL Getting Started

Client-server web architecture
PHP MySQL platforms
Install XAMPP on Windows
Test the installation
phpMyAdmin Client
MySQL Workbench Client
Navicat for MySQL Client
Install Notepad++
Basic CLI commands
Using a graphical client

Data definition

Create database
Database Objects
Defining a DB table
Create a table in SQL
Create a table graphically
The different constraints
Concept of foreign key
How to create constraints
Insert with foreign key
How to create an index
How to delete an index
MySQL data types

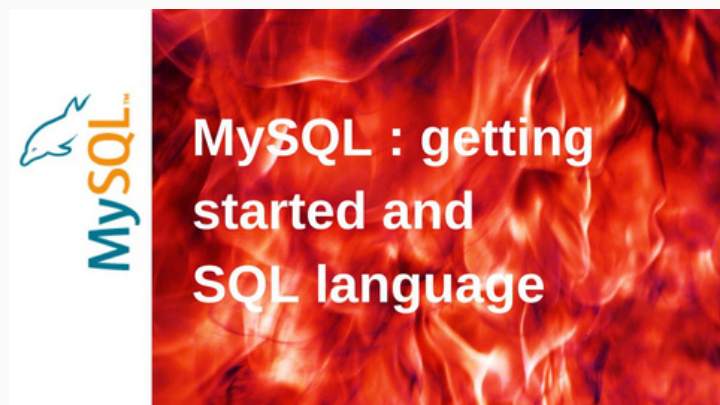
Modify data structures

ALTER TABLE and its options
Edit Constraints and Indexes
The RENAME clause
Navicat, Workbench

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OUTLINE

Selecting data (I)

Introduction
Projection operation
Selection or restriction
Union and difference
The intersection
Cartesian product
Inner join
Self-join
Outer join
Lab : Relational Algebra

Selecting data (II)

SELECT Syntax
Projection, order by
Filtering and operators
Group and aggregate
Group and filter
Intersection
Union
Difference
Cartesian product

SQL joins and subqueries

Equijoin, self-join
Outer joins
Full joins
Natural join
Sub queries
Single line subqueries
Multi-line subqueries
Related Subqueries

MySQL Lab

Lab: data definition
Lab: insert, modify, delete data
Lab: selection, grouping, joins
Lab: modify data structures