Hands-on Lab: Create Tables using SQL Scripts and Load Data into Tables in MySQL using phpMyAdmin

Estimated time needed: 30 minutes

In this lab, you will learn how to create tables and load data in the MySQL database server using the phpMyAdmin graphical user interface (GUI) tool.

Software Used in this Lab

In this lab, you will use **MySQL**. MySQL is a Relational Database Management System (RDBMS) designed to efficiently store, manipulate, and retrieve data.

Database Used in this Lab

To complete this lab, you will utilize MySQL relational database service available as part of IBM Skills Network Labs (SN Labs) Cloud. SN Labs is a virtual lab environment used in this course.

The database used in this lab is an internal database. You will be working on a sample HR database. This HR database schema consists of 5 tables called EMPLOYEES, JOB_HISTORY, JOBS, DEPARTMENTS and LOCATIONS. Each table has a few rows of sample data. The following diagram shows the tables for the HR database.

SAMPLE HR DATABASE TABLES

Objectives

After completing this lab, you will be able to use phpMyAdmin with MySQL to:
- Create a database
- Create tables using SQL scripts
- Load data into tables

Exercise

In this exercise through different tasks, you will learn how to create tables and load data in the MySQL database server using the phpMyAdmin graphical user interface (GUI) tool.

Task 1: Create a database

1. Click on **Skills Network Toolbox** in **Databases** section, click **MySQL**.

To start the MySQL, click **Start.**

2. Once MySQL has started, click on **phpMyAdmin button** to open **phpMyAdmin** in the new window.

3. This will run the phpMyAdmin GUI tool.

4. In the top menu, click **Home** to create a new empty database. Then select **SQL** in the menu of the database and click **Create**.

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Proceed to Task 2.

Exercise 1: Create tables using SQL scripts

In this exercise, you will learn how to execute a script containing the CREATE TABLE commands for all the tables rather than create tables manually by typing the SQL commands in the SQL editor.

1. Download the script file to your computer.
   - HR_Database_Create_Tables_Script.sql
2. Select the HR database. Same click on the Import tab.
3. Come on choose file. Browse to the file and upload it.
4. Come and down and click on **Go.**

5. The script then got imported successfully.

6. Click on any of the tables and you will see on the Table Definition that is, on the set of columns, data types, etc.

Exercise 2: Load data into tables

In this exercise, you will learn how data can be loaded into MySQL. You could manually insert each row into the table one by one, but that would take a long time. Instead MySQL would almost every other databases allows you to load data from CSV files.

1. Download the 5 csv files below to your local computer.
   - Departments.csv
   - Employees.csv
   - Jobs.csv
   - Job_History.csv
   - Locations.csv

To load each table do the following steps:
- Select each table
- Click on Import tab
- Select the file that includes for that you click on the

The data then got inserted.

Further you can click on browse and view the data of each table.

SELECT * FROM EMPLOYEES

EMP_ID	F_NAME	L_NAME	SSN	B_DATE	SEX	ADDRESS	JOB_ID	SALARY	MANAGER_ID	DEP_ID

Congratulations! You have completed this lab, and you are now ready for the next topic.

Author(s)

Author link

Changelog

Date	Version	Changed by	Change Description