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Software Used in this Lab

In this lab, you will use <u>MySQL</u> . MySQL is a Relational Database Management System (RDBMS) de efficiently store, manipulate, and retrieve data.	esigned to
To complete this lab you will utilize MySQL relational database service available as part of IBM Skill Labs (SN Labs) Cloud IDE. SN Labs is a virtual lab environment used in this course.	s Network
Database Used in this Lab	
The database used in this lab is an internal database. You will be working on a sample HR database. T database schema consists of 5 tables called EMPLOYEES , JOB_HISTORY , JOBS , DEPARTMEN LOCATIONS . Each table has a few rows of sample data. The following diagram shows the tables for database:	NTS and

Objectives

After completing this lab, you will be able to use phpMyAdmin with MySQL to:

- Create a database.
- Create tables using SQL scripts

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• 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 service using the phpMyAdmin graphical user interface (GUI) tool.

Task A: Create a database

1. Click on Skills Network Toolbox. In Database section, click MySQL.

To start the MySQL click Start.

- 2. Once MySQL has started, click on phpMyAdmin button to open phpMyAdmin in the same window.
- 3. You will see the phpMyAdmin GUI tool.
- 4. In the tree-view, click **New** to create a new empty database. Then enter **HR** as the name of the database and click **Create**.

The encoding will be left as **utf8mb4_0900_ai_ci**. UTF-8 is the most commonly used character encoding for content or data.

Proceed to Task B.

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 each table manually by typing the DDL commands in the SQL editor.

- 1. Download the script file to your computer:
 - HR Database Create Tables Script.sql
- Select the HR database. Later click on the Import tab.
- Click on **choose file**. Browse for the file and upload it.
- Later scroll down and click on Go.
- The script then gets imported successfully.
- Click on any of the tables and you will see its Table Definition (that is, its list of columns, data types, etc).

Exercise 2: Load data into tables

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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 (and almost every other database) allows you to load data from .CSV files.

The steps below explain the process of loading data into the tables you created earlier in exercise 1.

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

To load each table do the following steps.

- Select each table.
- Click on Import tab.
- Select the csv file and click on Go to load the csv file.

Once the tables are loaded, you will get a message that the records are inserted successfully.

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

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

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Changelog

Date	Version	Changed by	Change Description
2023-05-11	0.8	Eric Hao & Vladislav Boyko	Updated Page Frames
2023-05-10	0.7	Eric Hao & Vladislav Boyko	Updated Page Frames
2023-05-10	0.6	Eric Hao & Vladislav Boyko	Updated Page Frames
2023-05-05	0.5	Benny Li	Updated and Re-Published
2022-08-03	0.4	Sathya Priya	Updated CSV Links
2022-07-27	0.3	Lakshmi Holla	Updated HTML tag
2022-04-07	0.2	Malika Singla	Updated screenshot
2021-11-01	0.1	Lakshmi Holla, Malika Singla	Initial Version

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