

# Hands-on Lab: Built-in functions - Aggregate, Scalar, String, Date and Time Functions in MySQL using phpMyAdmin

**Estimated time needed:** 20 minutes

In this lab, you will learn how to create tables and load data in the MySQL database service 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.



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

## Database Used in this Lab

**Mysql\_learners** database has been used in this lab.

## Objectives

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

- Compose queries consting of built in functions and check the results.

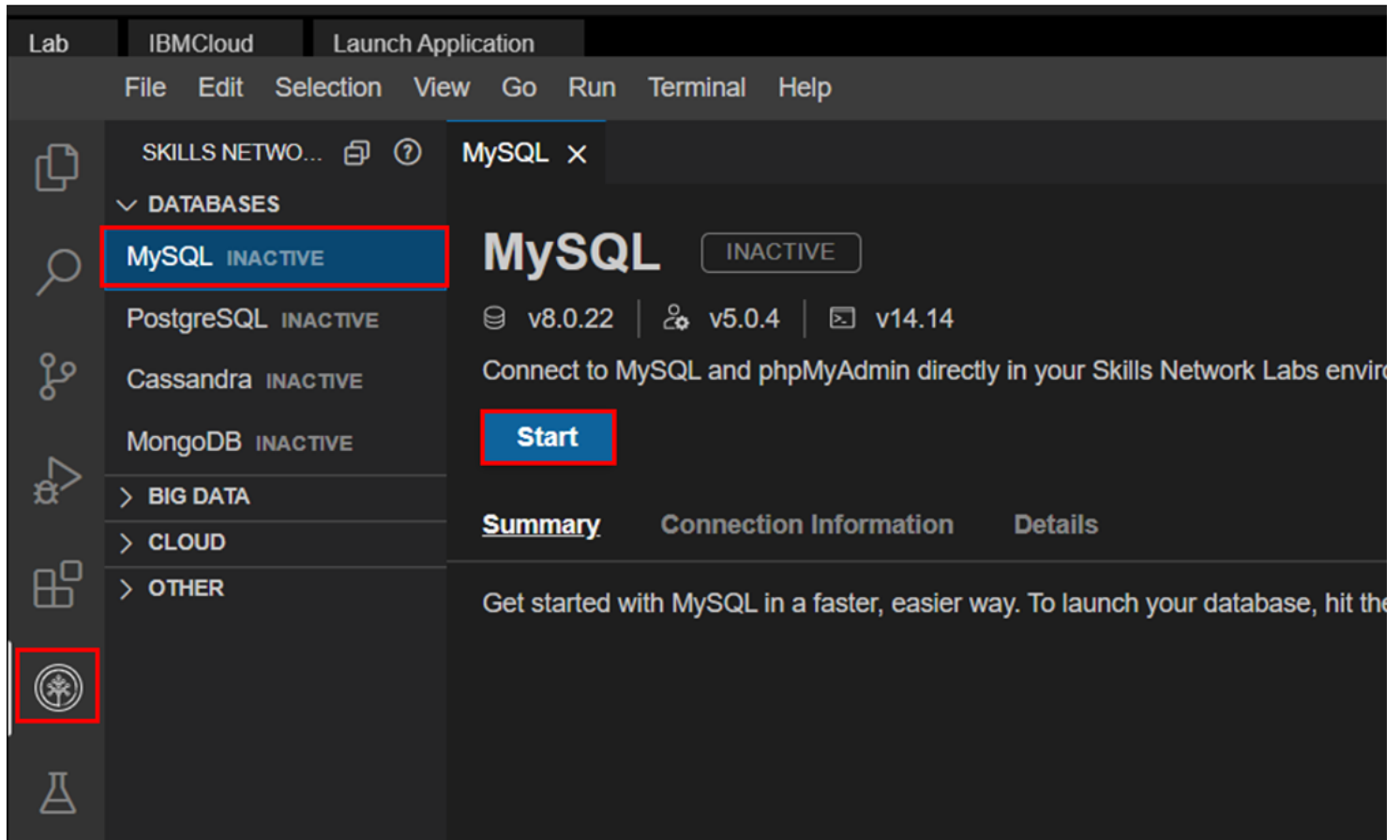
## Exercise

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.

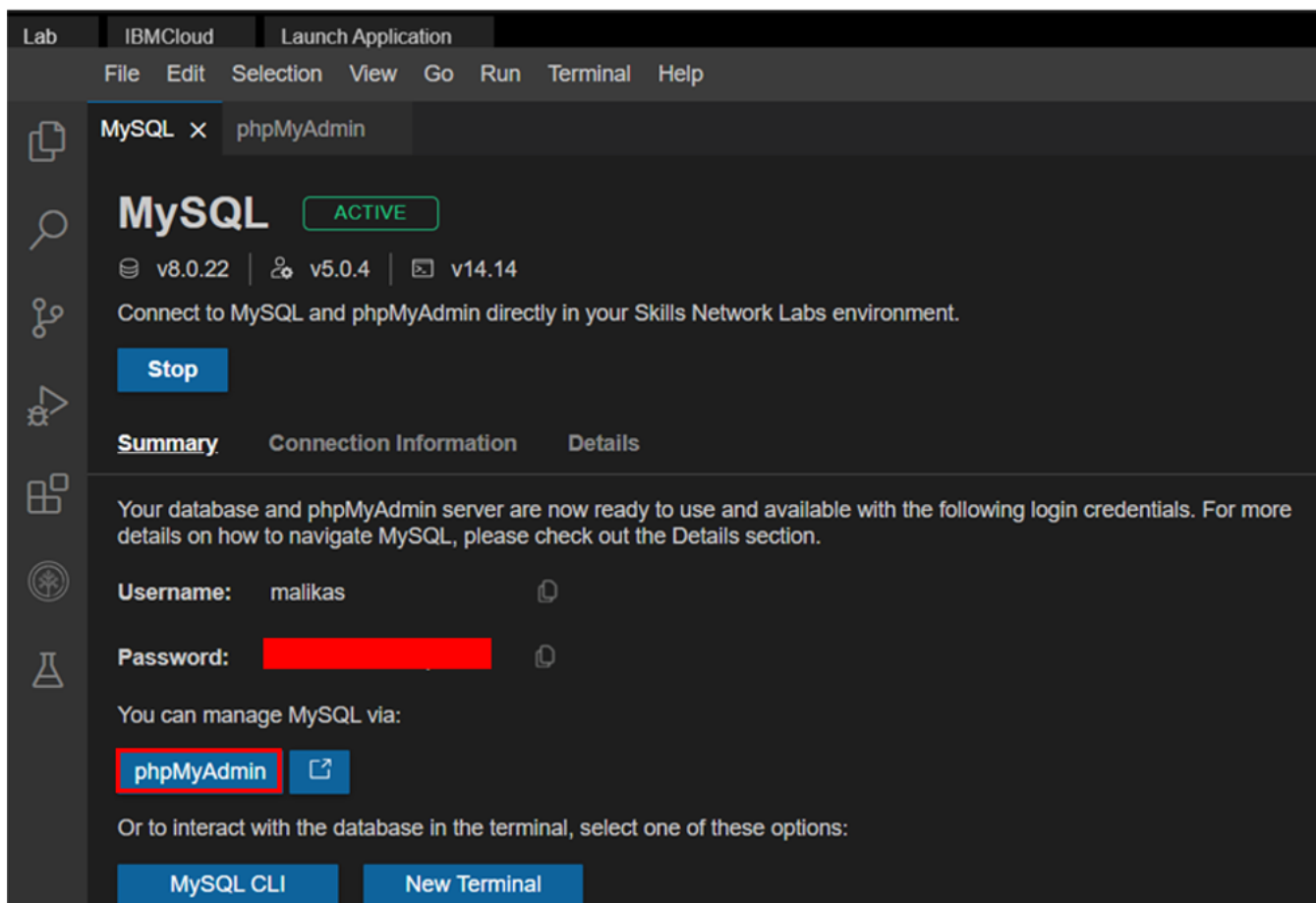
## Task A: Create a database

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.

← → ↻ 🏠 🔒 sandipsahajo-8080.theiadocker-27.proxy.cognitivecla

# phpMyAdmin

🏠 📁 ⓘ 📄 ⚙️ 💰

Recent Favorites

- New
- + information\_schema
- + mysql
- + performance\_schema
- + sakila
- + sys

← Server: mysql:3306

Databases SQL Status

## General settings

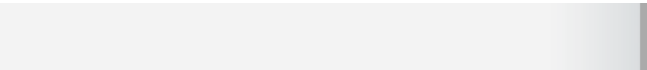
☰ Server connection collation: ⓘ utf8mb4

🔑 More settings

## Appearance settings

🗣️ Language ⓘ English

🎨 Theme: pmahomme ▼



4. In the tree-view, click **New** to create a new empty database. Then enter **Mysql\_Learners** 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.

Databases

SQL

Status

User accounts

Export

Import

Settings

Binary log

R

# Databases

Create database

Mysql\_learners

utf8mb4\_0900\_ai\_ci

Create

	Database	Collation	Master replication	Action
<input type="checkbox"/>	information_schema	utf8_general_ci	✓ Replicated	Check privileges
<input type="checkbox"/>	mysql	utf8mb4_0900_ai_ci	✓ Replicated	Check privileges
<input type="checkbox"/>	performance_schema	utf8mb4_0900_ai_ci	✓ Replicated	Check privileges
<input type="checkbox"/>	sys	utf8mb4_0900_ai_ci	✓ Replicated	Check privileges

Total: 4

☐ Check all

With selected:

Drop

Note: Enabling the database statistics here might cause heavy traffic between the web server and the MySQL server.

• Enable statistics

Compose and run the following queries in the textarea of the **SQL** page. Click **Go** to execute the queries and observe the the results.

**Note:** The solutions are provided at the end of this lab, but please try to compose the queries on your own before checking the solutions.

# Exercise 1: Create the Pet Rescue table

Rather than create the table manually by typing the DDL commands in the SQL editor, you will execute a script containing the create table command.

1. Download the script file [PETRESCUE-CREATE.sql](#)

**Note:** To download, just right-click on the link above and click on **Save As..** or **Save Link As...** depending on your browser. Save the file as a .sql file and not HTML.

2. Next load the sql to your database using the Import option.