

# Skills Network

## Hands-on Lab: CREATE, ALTER, TRUNCATE, DROP into Tables 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:

- Create a database.
- Create a new table in a database.
- Add, delete, or modify columns in an existing table.
- Remove all rows from an existing table without deleting the table itself.
- Delete an existing table in a database.

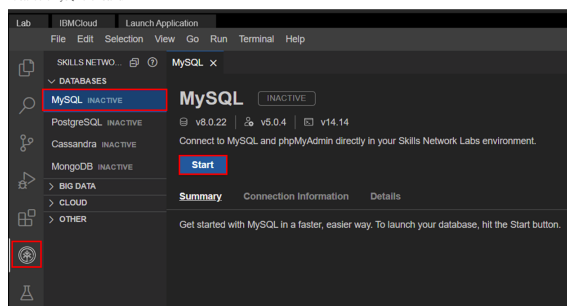
### Exercise

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.

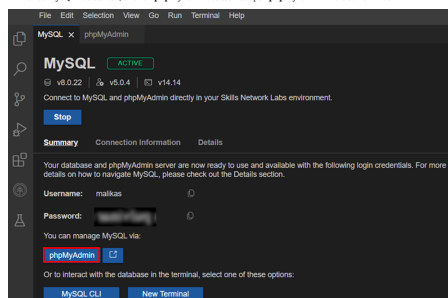
#### Task A: Create a database

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

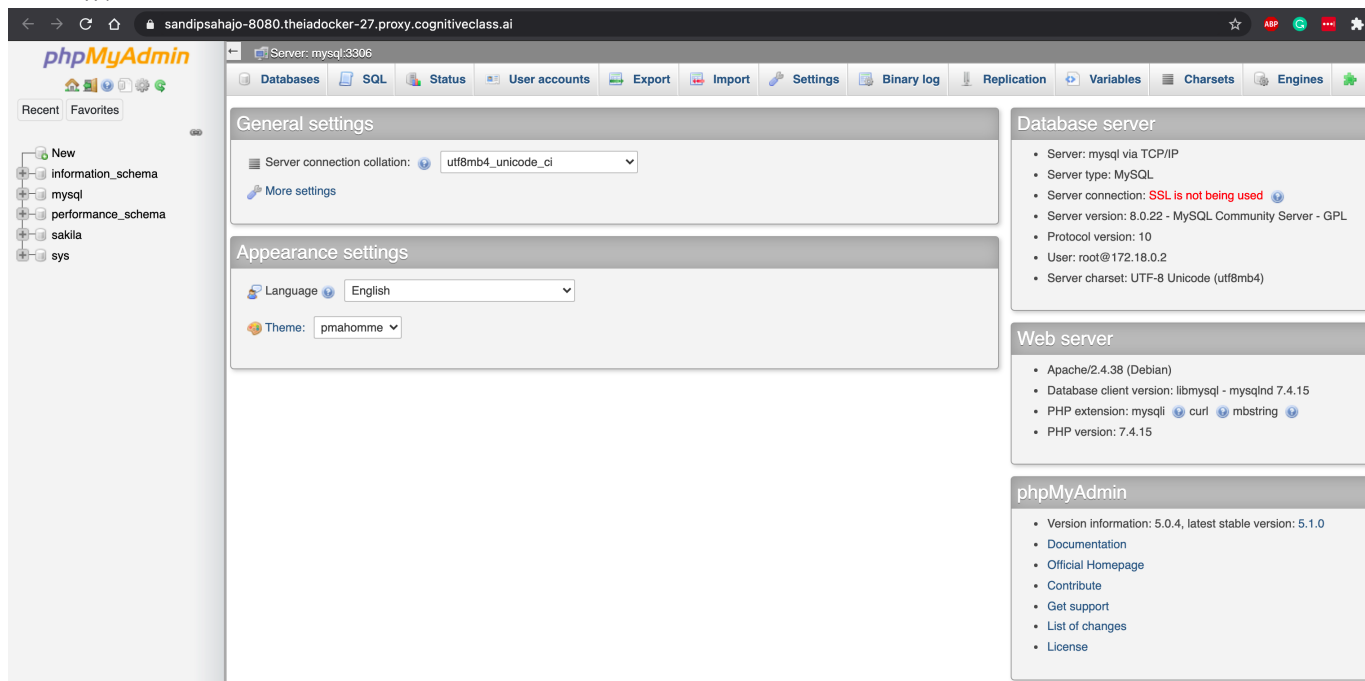
To start the MySQL click **Start**.



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 **MySQL\_learners** as the name of the database and select **utf8\_general\_ci** and click **Create**.  
UTF-8 is the most commonly used character encoding for content or data.

Proceed to Task B.

Databases

SQL

Status

User accounts

Export

Import

Databases

Create database

Mysql\_Learners

utf8\_general\_ci

Create

Database	Collation	Master replication	Action
<input type="checkbox"/> information_schema	utf8_general_ci	✓ Replicated	<a href="#">Check privileges</a>
<input type="checkbox"/> mysql	utf8mb4_0900_ai_ci	✓ Replicated	<a href="#">Check privileges</a>
<input type="checkbox"/> performance_schema	utf8mb4_0900_ai_ci	✓ Replicated	<a href="#">Check privileges</a>
<input type="checkbox"/> sys	utf8mb4_0900_ai_ci	✓ Replicated	<a href="#">Check privileges</a>
Total: 4			

In this lab, you will learn some commonly used DDL (Data Definition Language) statements of SQL. First you will learn the CREATE statement, which is used to create a new table in a database. Next, you will learn the ALTER statement which is used to add, delete, or modify columns in an existing table. Then, you will learn the TRUNCATE statement which is used to remove all rows from an existing table without deleting the table itself. Lastly, you will learn the DROP statement which is used to delete an existing table in a database.

How does the syntax of a CREATE statement look?

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How does the syntax of an ALTER statement look?

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323. 323
324. 324
325. 325
326. 326
327. 327
328. 328
329. 329
330. 330
331. 331
332. 332
333. 333
334. 334
335. 335
336. 3
```

The screenshot shows the SQL IDE interface. On the left, the 'Run SQL query/queries on table MysqL\_learners.PETSale:' panel contains the following SQL code:

```
1 ALTER TABLE PETSale  
2 DROP COLUMN PROFIT;  
3  
4 SELECT * FROM PETSale;
```

On the right, the 'Options' panel shows the table structure for PETSale:

ID	PET	SALEPRICE	SALEDATE	QUANTITY
1	Cat	450.00	2018-05-29	9
2	Dog	666.66	2018-06-01	3
3	Parrot	50.00	2018-06-04	2
4	Hamster	60.60	2018-06-11	6
5	Goldfish	48.48	2018-06-14	24

### Task C: ALTER using ALTER COLUMN

1. Change the data type to **VARCHAR(20)** type of the column **PET** of the table **PETSale** and show the altered table. Copy the code below and paste it to the textarea of the **SQL** page. Click **Go**.

The screenshot shows the SQL IDE interface. On the left, the 'Run SQL query/queries on table MysqL\_learners.PETSale:' panel contains the following SQL code:

```
1  
2  
3  
4 ALTER TABLE PETSale CHANGE PET PET VARCHAR(20);  
5  
6 SELECT * FROM PETSale;
```

On the right, the 'Options' panel shows the table structure for PETSale:

ID	PET	SALEPRICE	SALEDATE	QUANTITY
1	Cat	450.00	2018-05-29	9
2	Dog	666.66	2018-06-01	3
3	Parrot	50.00	2018-06-04	2
4	Hamster	60.60	2018-06-11	6
5	Goldfish	48.48	2018-06-14	24

### Task D: ALTER using RENAME COLUMN

1. Rename the column **PET** to **ANIMAL** of the **PETSale** table and show the altered table. Copy the code below and paste it to the textarea of the **SQL** page. Click **Go**.

The screenshot shows the SQL IDE interface. On the left, the 'Run SQL query/queries on table MysqL\_learners.PETSale:' panel contains the following SQL code:

```
1  
2  
3  
4 ALTER TABLE PETSale CHANGE PET ANIMAL VARCHAR(20);  
5  
6 SELECT * FROM PETSale;
```

On the right, the 'Options' panel shows the table structure for PETSale:

ID	ANIMAL	SALEPRICE	SALEDATE	QUANTITY
1	Cat	450.00	2018-05-29	9
2	Dog	666.66	2018-06-01	3
3	Parrot	50.00	2018-06-04	2
4	Hamster	60.60	2018-06-11	6
5	Goldfish	48.48	2018-06-14	24

In this exercise, you will use the **TRUNCATE** statement to remove all rows from an existing table created in exercise 1 without deleting the table itself.

1. Remove all rows from the **PET** table and show the empty table. Copy the code below and paste it to the textarea of the **SQL** page. Click **Go**.

The screenshot shows the SQL IDE interface. On the left, the 'Run SQL query/queries on table MysqL\_learners.PETSale:' panel contains the following SQL code:

```
1 TRUNCATE TABLE PET;  
2 SELECT * FROM PET;
```

On the right, the 'Options' panel shows the table structure for PETSale:

ID	ANIMAL	QUANTITY
----	--------	----------

In this exercise, you will use the **DROP** statement to delete an existing table created in exercise 1.

1. Delete the **PET** table and verify if the table still exists or not (SELECT statement won't work if a table doesn't exist). Copy the code below and paste it to the textarea of the **SQL** page. Click **Go**.

The screenshot shows the SQL IDE interface. On the left, the 'Run SQL query/queries on table MysqL\_learners.PETSale:' panel contains the following SQL code:

```
1 DROP TABLE PET;  
2 SELECT * FROM PET;
```

On the right, the 'Options' panel shows the table structure for PETSale:

ID	ANIMAL	QUANTITY
----	--------	----------

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

[Lakshmi Holla](#)

[Malika Singla](#)

### Changelog

Date	Version	Changed by	Change Description
2022-10-28 0.4		Appalbhaktula Hema	Updated instructions
2022-07-27 0.3		Lakshmi Holla	updated html tag
2022-06-04 0.2		Lakshmi Holla, Malika Singla	Updated the MySQL starting commands
2021-11-01 0.1		Lakshmi Holla, Malika Singla	Initial Version

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