

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.

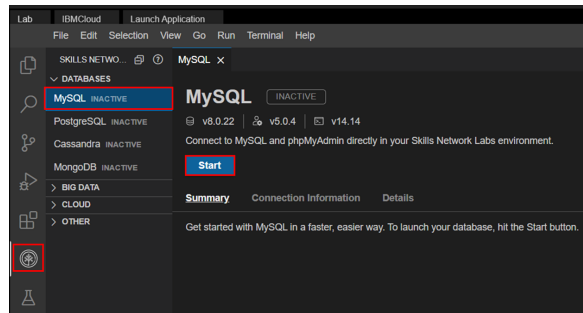
Exercise

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.

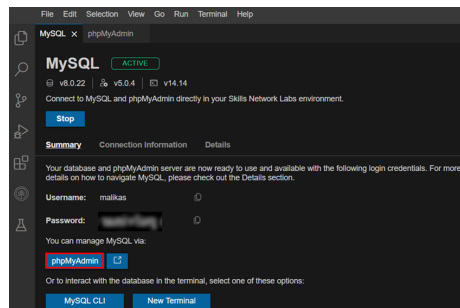
Task A: Create a database

1. Click on Skills Network Toolbars, 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.

The screenshot shows the phpMyAdmin interface for a MySQL server. The left sidebar displays a tree view of databases: information_schema, mysql, performance_schema, sakila, and sys. The main panel is divided into three sections: General settings, Appearance settings, and Database server. The General settings section shows the server connection collation as utf8mb4_unicode_ci. The Appearance settings section shows the language as English and the theme as pmahomme. The Database server section lists server details: Server: mysql via TCP/IP, Server type: MySQL, Server connection: SSL is not being used, Server version: 8.0.22 - MySQL Community Server - GPL, Protocol version: 10, User: root@172.18.0.2, and Server charset: UTF-8 Unicode (utf8mb4). The Web server section lists: Apache/2.4.38 (Debian), Database client version: libmysql - mysqlnd 7.4.15, PHP extension: mysqli curl mbstring, and PHP version: 7.4.15. The phpMyAdmin section lists version information: 5.0.4, latest stable version: 5.1.0, and links to documentation, official homepage, contribute, get support, list of changes, and license.

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

Create database

mysql_learners utf8_general_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			

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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7.
8. CREATE TABLE table_name (
9.     column1 datatype,
10.    column2 datatype,
11.    column3 datatype,
12.    ...
13. );
```

Copy

How does the syntax of an ALTER statement look?

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How does the syntax of a TRUNCATE statement look?

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How does the syntax of a DROP statement look?

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In this exercise, you will use the CREATE statement to create two new tables using DDL.

1. You need to create two tables, **PETSALE** and **PET**. To create the two tables PETSALE and PET, copy the code below and paste it to the text area of the SQL page. Click Go.

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Copy



2. Now insert some records into the two newly created tables and show all the records of the two tables. Copy the code below and paste it to the text area of the SQL page. Click Go.

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15. INSERT INTO PETSale VALUES
16. (1, 'Cat', 450.00, 100.47, '2018-05-29');
17. (2, 'Dog', 666.66, 150.76, '2018-06-01');
18. (3, 'Parrot', 50.00, 8.90, '2018-06-04');
19. (4, 'Hamster', 60.00, 12.00, '2018-06-11');
20. (5, 'Goldfish', 48.48, 3.50, '2018-06-14');
21.
22. INSERT INTO PET VALUES
23. (1, 'Cat', 1);
24. (2, 'Dog', 2);
25. (3, 'Parrot', 3);
26.
27. SELECT * FROM PETSale;
28. SELECT * FROM PET;
```

In this exercise, you will use the ALTER statement to add, delete, or modify columns in two of the existing tables created in exercise 1.

Task A: ALTER using ADD COLUMN

1. Add a new QUANTITY column to the PETSale table and show the altered table. Copy the code below and paste it to the textareas of the SQL page. Click Go.

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2. Now update the newly added QUANTITY column of the PETSale table with some values and show all the records of the table. Copy the code below and paste it to textareas of the SQL page. Click Go.

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Task B: ALTER using DROP COLUMN

1. Delete the PROFIT column from the PETSale table and show the altered table. Copy the code below and paste it to the textareas of the SQL page. Click Go.

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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 textareas of the SQL page. Click Go.

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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 textareas of the SQL page. Click Go.

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BrowseStructureSQLSearchInsertExportImportPrivilegesOperations

Run SQL query/queries on table MysqLearners.PETSALE:

1. ALTER TABLE 'PETSALE' CHANGE 'PET' 'ANIMAL' VARCHAR(20);

Showing rows 0 - 4 (5 total, Query took 0.0006 seconds)

select * from 'PETSALE'

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	8
5	Goldfish	48.48	2018-06-14	24

Show all

Number of rows: 25

Filter rows: Search this table

Options

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	8
5	Goldfish	48.48	2018-06-14	24

Show all

Number of rows: 25

Filter rows: Search this table

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 text area of the SQL page. Click Go.

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BrowseStructureSQLSearchInsertExportImportPrivilegesOperations

Run SQL query/queries on table MysqLearners.PETSALE:

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

MySQL returned an empty result set (i.e. zero rows) (Query took 0.0015 seconds)

SELECT * FROM PET

ID	ANIMAL	QUANTITY
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Query results operations

Create view

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 text area of the SQL page. Click Go.

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