

Laboratory Activity

Web Systems and Technology

Midterm

Procedure:

Step 1: Install a local server environment

Since phpMyAdmin requires a web server (Apache), a database server (MariaDB/MySQL), and PHP to run, you will need to install a bundled software package.

Popular options include:

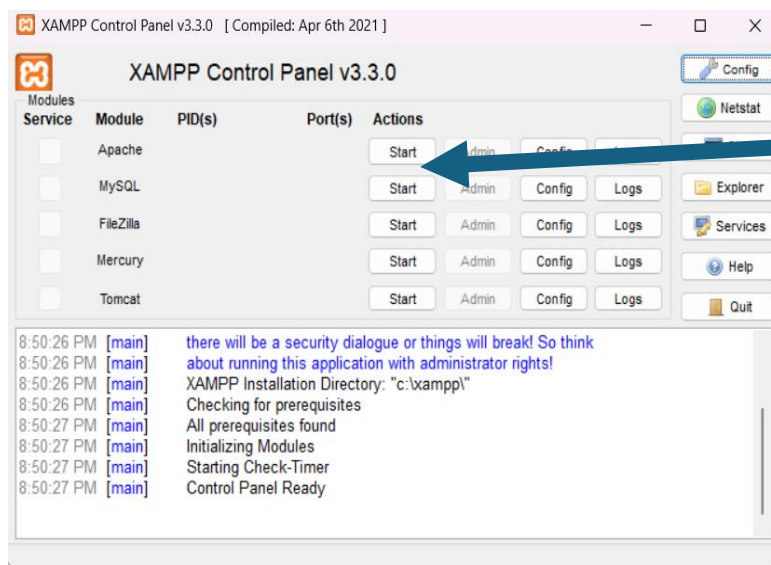
- **XAMPP:** Works on Windows, macOS, and Linux.
- **WAMP:** For Windows users.
- **MAMP:** For macOS users.

Step 2: Start the required services

After installing your server environment, you need to open its control panel and manually start the services.

For XAMPP, this means:

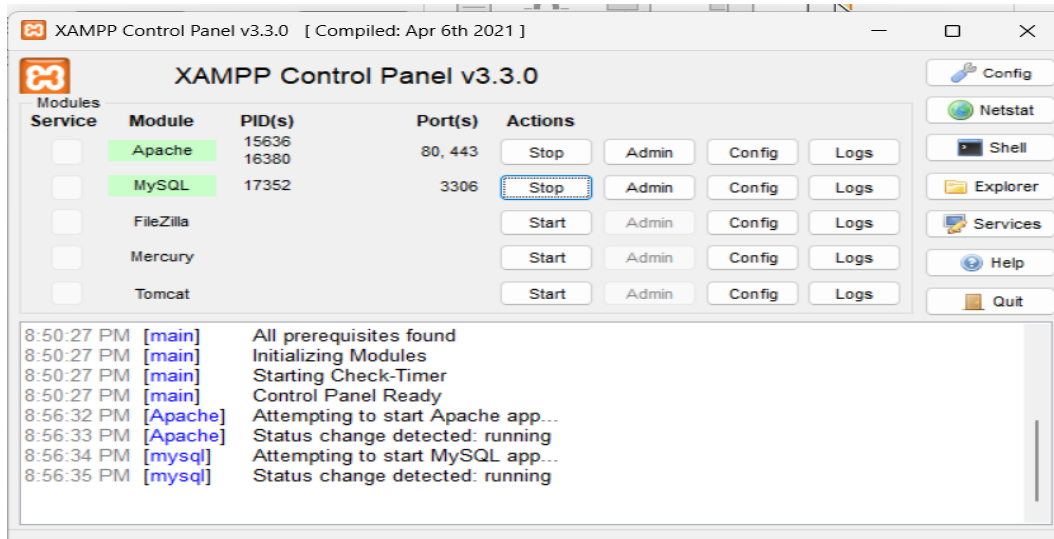
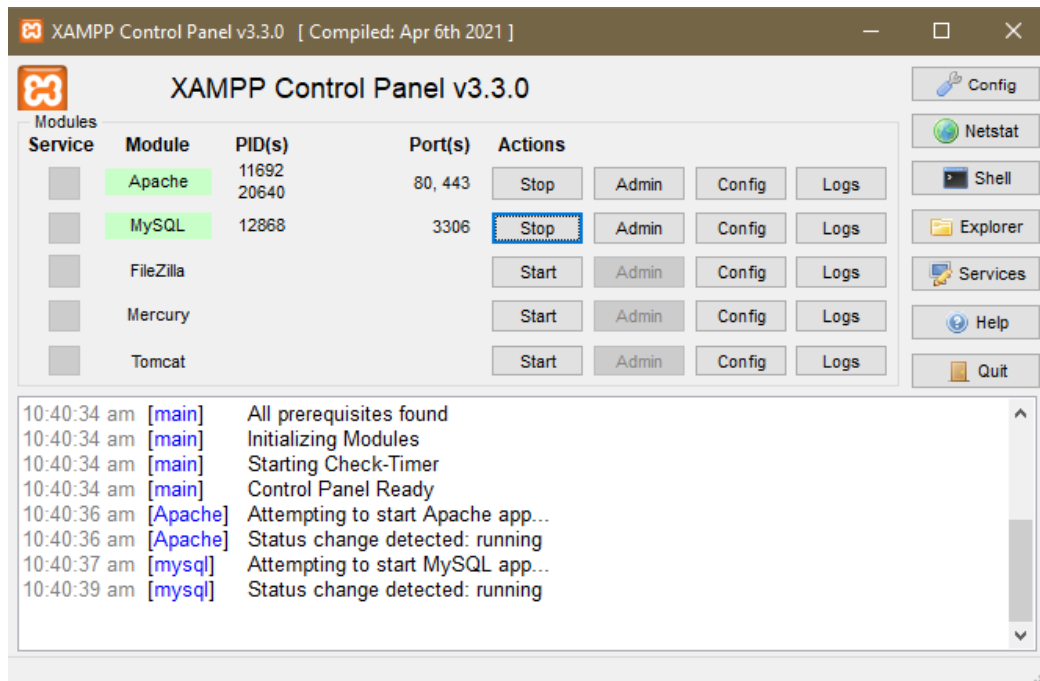
1. Open the **XAMPP Control Panel**.
2. Click the **Start** button next to **Apache**.
3. Click the **Start** button next to **MySQL**.
4. Ensure that both modules are running successfully.



Make sure to click the Start button to open the Apache and MySQL

- Once it green your server is now running

Answer:



- Make sure to check the ports of Apache and MySQL as follows

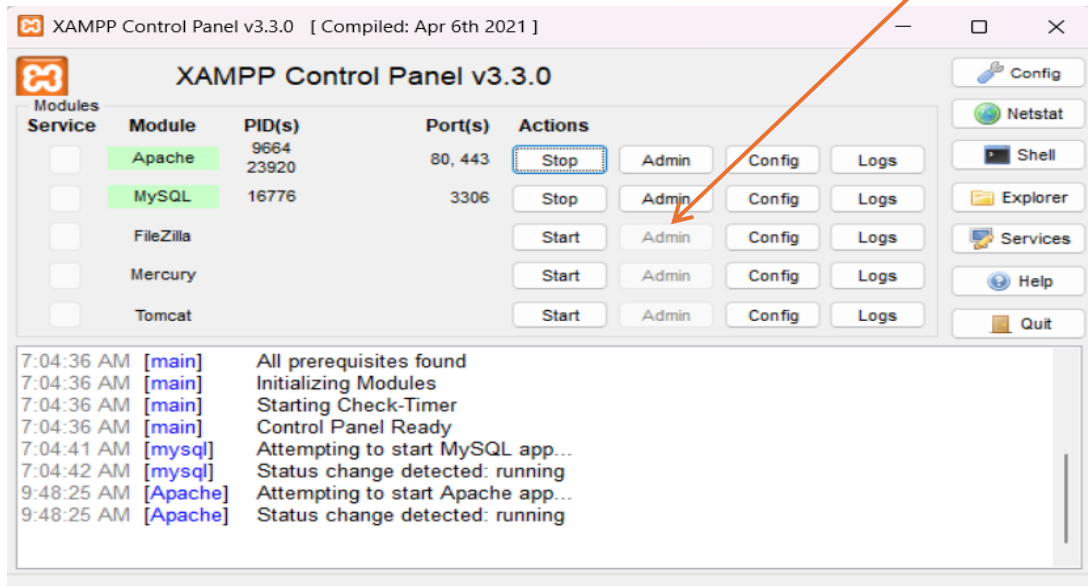
Module	PID(s)	Port(s)
Apache	26368 3028	80, 443
MySQL	25340	3306

- You are now ready to test your server

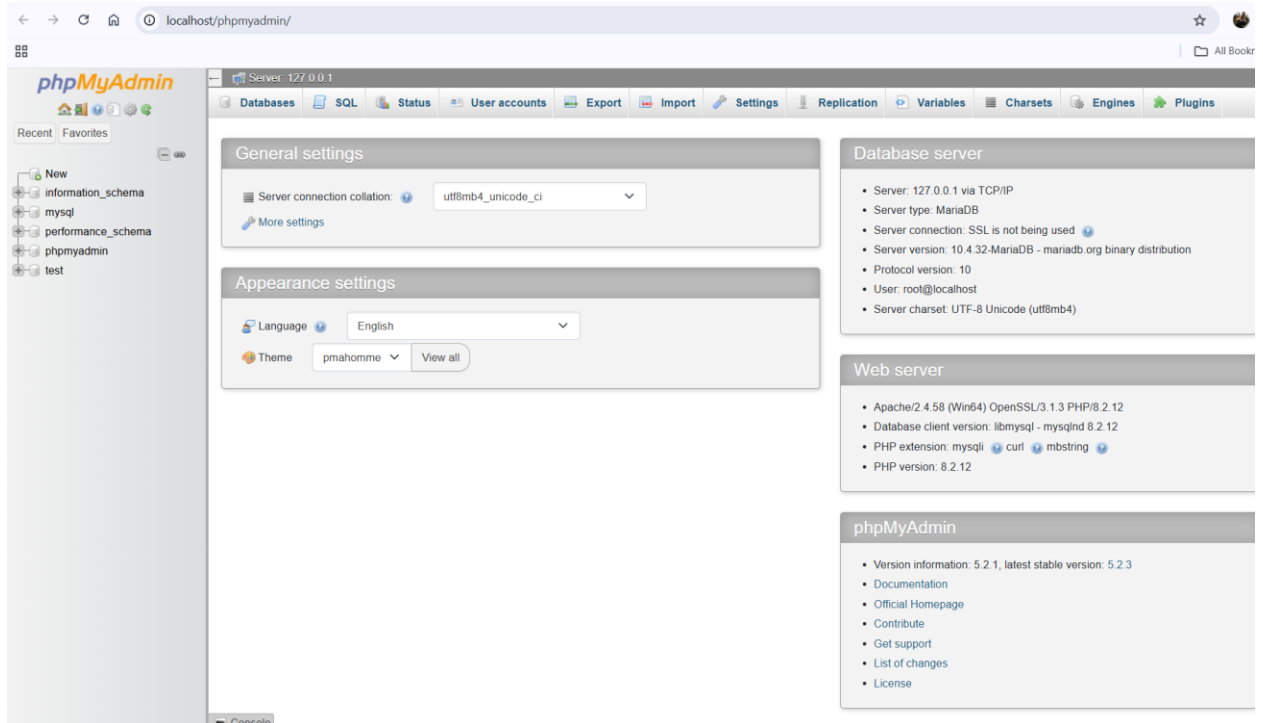
Step 3: Access phpMyAdmin

Once your servers are running, you can access the phpMyAdmin interface through your web browser.

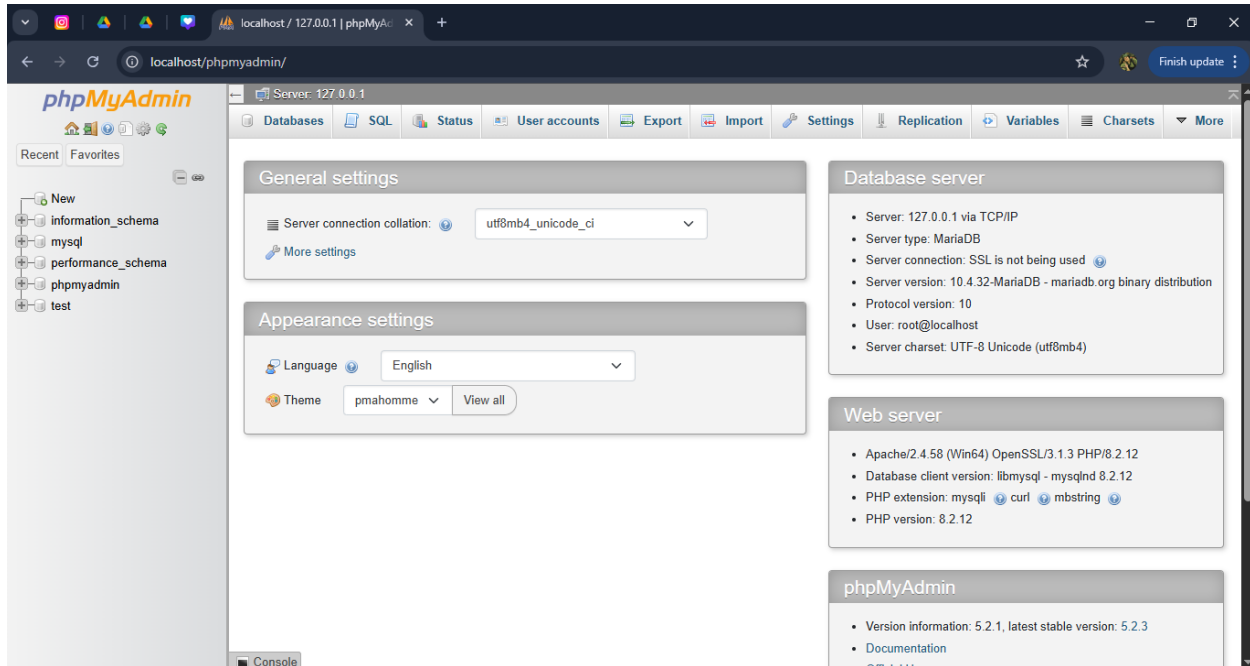
1. Open your web browser.
2. Type `http://localhost/phpmyadmin` in the address bar and press Enter.
3. Log in with your credentials. If you are using a new installation, the default username is often **root** with **no password**.



Then it will redirect you to the admin panel



Answer:



Step 4: Plan your database schema

Before creating your database, consider what information you need to store and how it should be organized. Proper planning helps avoid structural problems later on.

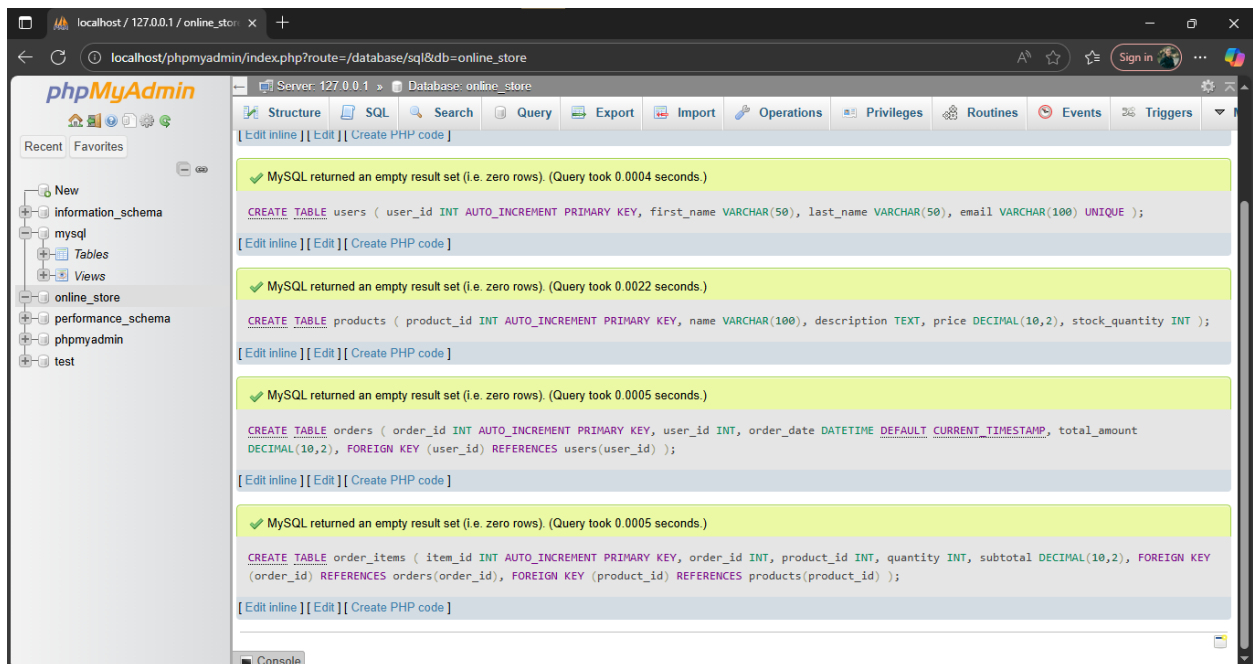
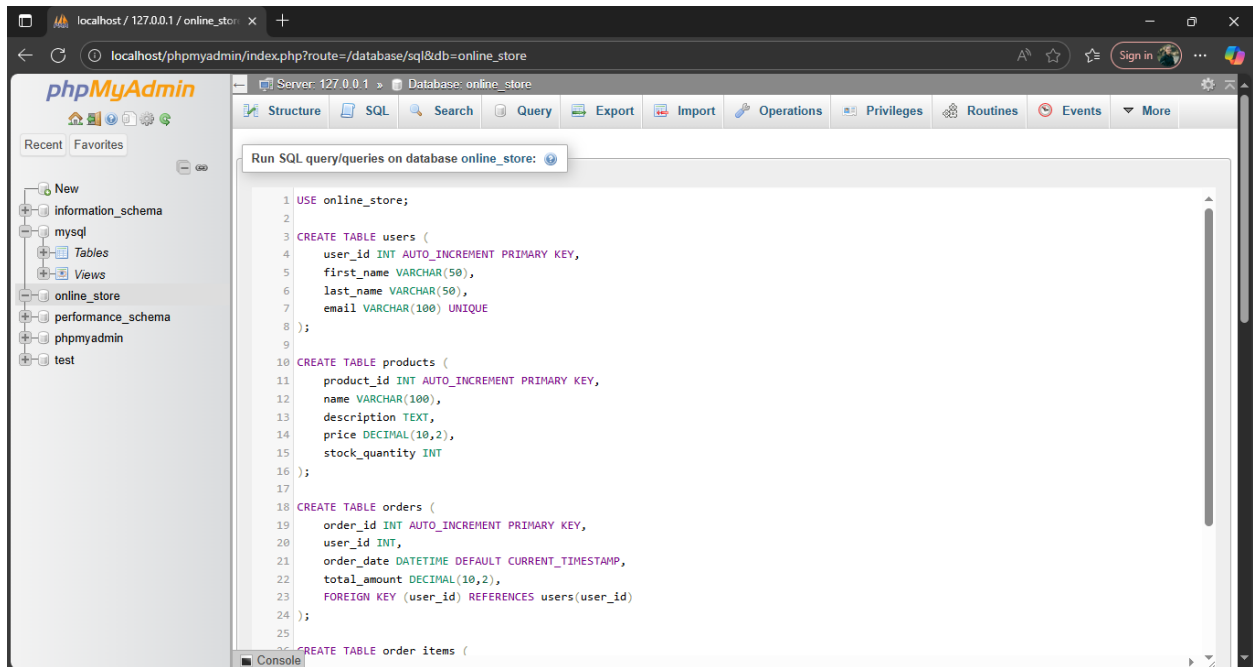
A simple planning process involves:

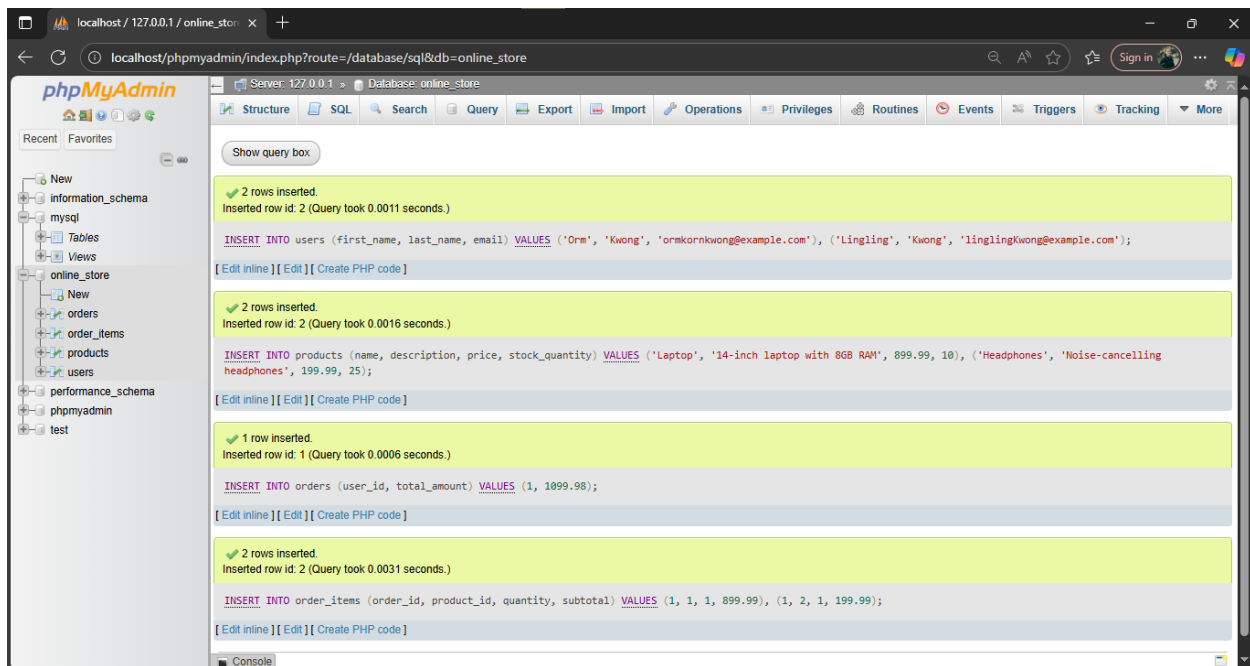
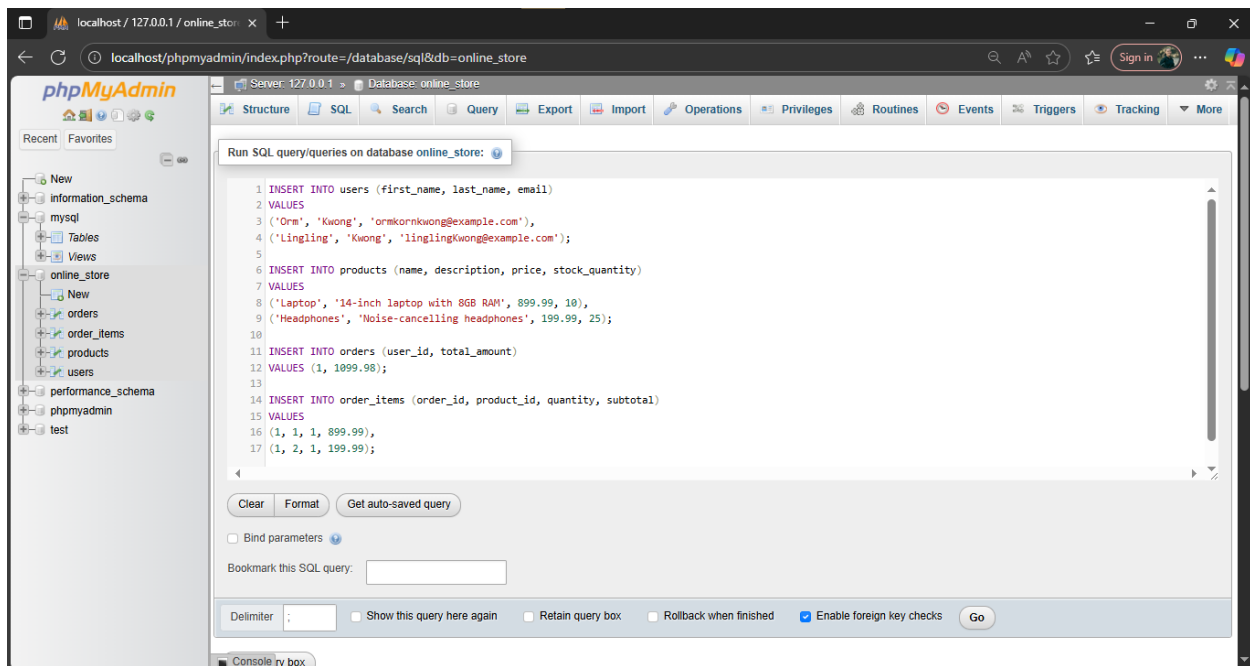
- **Identifying entities:** Figure out the main "things" your database needs to track, like Users, Products, or Orders.
- **Defining attributes:** Decide on the specific data points for each entity. For a Users table, this might include first_name, last_name, and email.
- **Specifying primary keys:** Choose a unique identifier for each table, such as a user ID. This is typically an auto-incrementing integer.
- **Establishing relationships:** Determine how your tables will connect to each other. For example, the Orders table might link to a Users table.

This time:

- I want you to explore or try to create a sample database as your activity for today without connecting it to php (or to your website)
- Name it on the desired table name.
- Screenshot all your works and output in this document and sent it through your github (filename: Activity 3 -10/30) this is a different filename from your Activity 2.

Answer:





localhost / 127.0.0.1 / online_store x +

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=online_store&table=products

Server: 127.0.0.1 > Database: online_store > Table: products

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

`SELECT * FROM `products``

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	product_id	name	description	price	stock_quantity
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Laptop	14-inch laptop with 8GB RAM	899.99	10
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Headphones	Noise-cancelling headphones	199.99	25

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Let every user access this bookmark

localhost / 127.0.0.1 / online_store x +

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=online_store&table=users

Server: 127.0.0.1 > Database: online_store > Table: users

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

`SELECT * FROM `users``

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	user_id	first_name	last_name	email
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Orm	Kwong	ormkornkwong@example.com
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Lingling	Kwong	linglingKwong@example.com

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Let every user access this bookmark

localhost / 127.0.0.1 / online_store x +

localhost/phpmyadmin/index.php?route=/database/structure&db=online_store

Server: 127.0.0.1 > Database: online_store

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
orders	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	1	InnoDB	utf8mb4_general_ci	32.0 K	-
order_items	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	2	InnoDB	utf8mb4_general_ci	48.0 K	-
products	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	2	InnoDB	utf8mb4_general_ci	16.0 K	-
users	<input type="checkbox"/> Browse <input type="checkbox"/> Structure <input type="checkbox"/> Search <input type="checkbox"/> Insert <input type="checkbox"/> Empty <input type="checkbox"/> Drop	2	InnoDB	utf8mb4_general_ci	32.0 K	-
4 tables	Sum	7	InnoDB	utf8mb4_general_ci	128.0 K	0 B

Check all | With selected:

Print Data dictionary

Create new table

Table name: Number of columns: 4 Create