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2023-1-00315
C334-IT

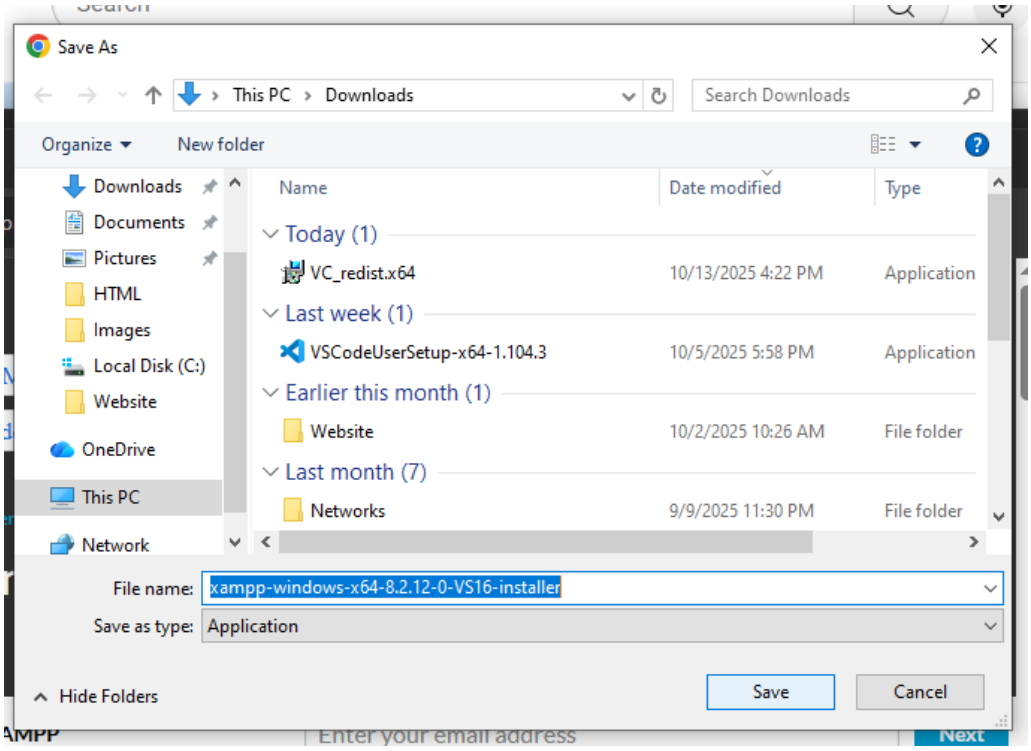
Laboratory Activity
Web Systems and Technology
Midterm

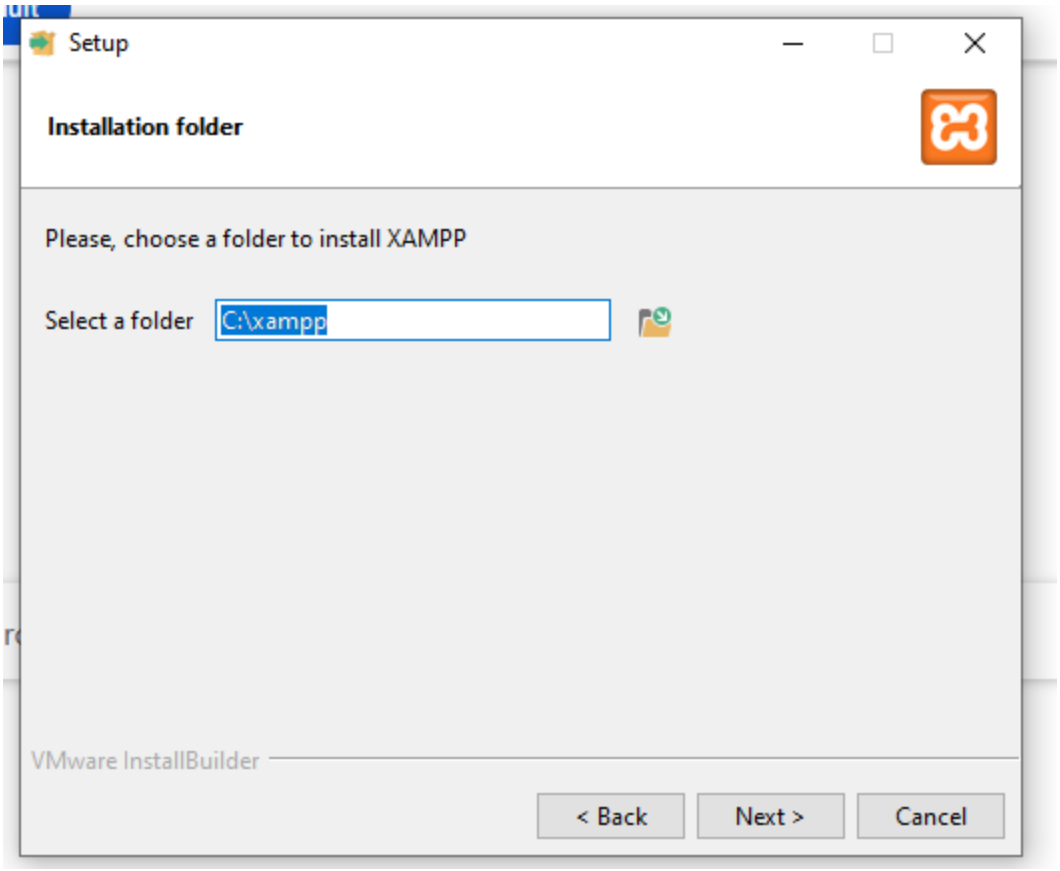
Procedure:

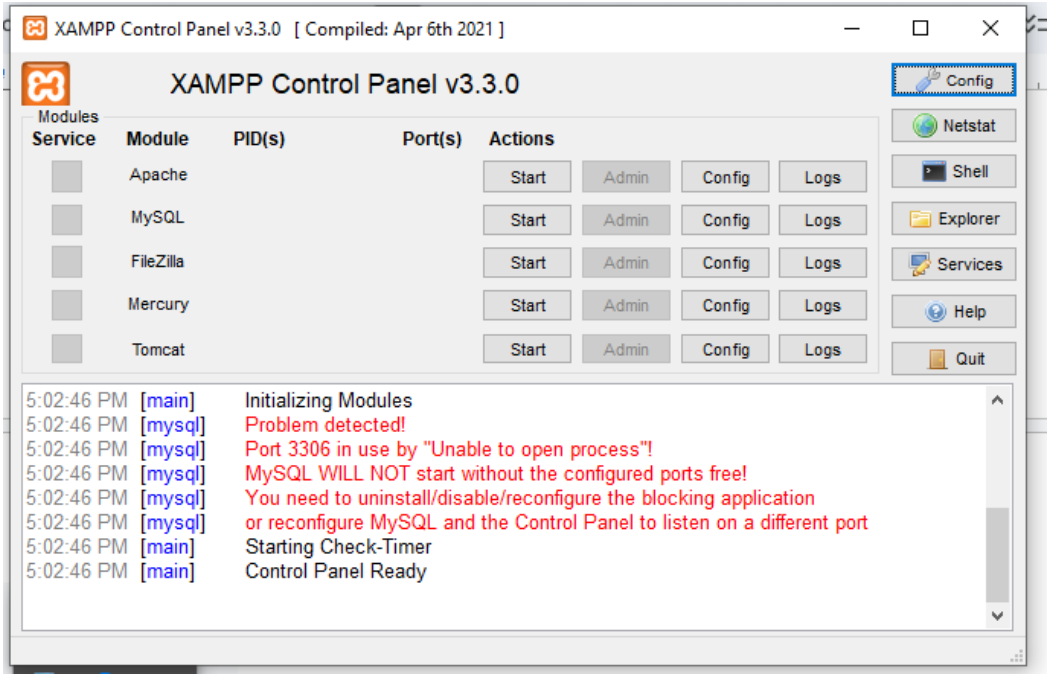
Step 1: Install a local server environment
Since phpMyAdmin requires a web server (Apache), a database server (MariaDB/MySQL), and PHP to run, you will need to install a bundled software package.
Popular options include:

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

Answers:




Setup
Installation folder
Please, choose a folder to install XAMPP
Select a folder
C:\xampp
VMware InstallBuilder
< Back
Next >
Cancel

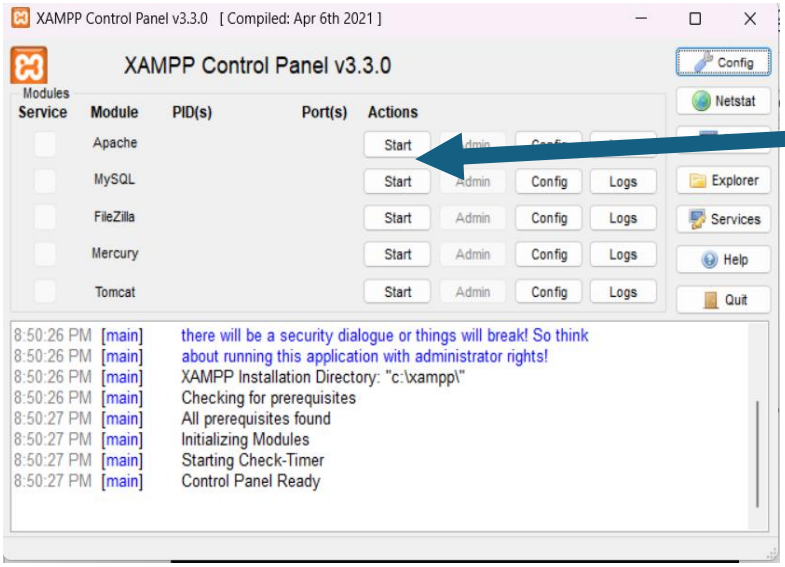

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]
XAMPP Control Panel v3.3.0
Modules
Service
Module
PID(s)
Port(s)
Actions
Apache
MySQL
FileZilla
Mercury
Tomcat
Start
Admin
Config
Logs
Config
Netstat
Shell
Explorer
Services
Help
Quit
5:02:46 PM [main] Initializing Modules
5:02:46 PM [mysql] Problem detected!
5:02:46 PM [mysql] Port 3306 in use by "Unable to open process"!
5:02:46 PM [mysql] MySQL WILL NOT start without the configured ports free!
5:02:46 PM [mysql] You need to uninstall/disable/reconfigure the blocking application
5:02:46 PM [mysql] or reconfigure MySQL and the Control Panel to listen on a different port
5:02:46 PM [main] Starting Check-Timer
5:02:46 PM [main] Control Panel Ready

Step 2: Start the required services

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

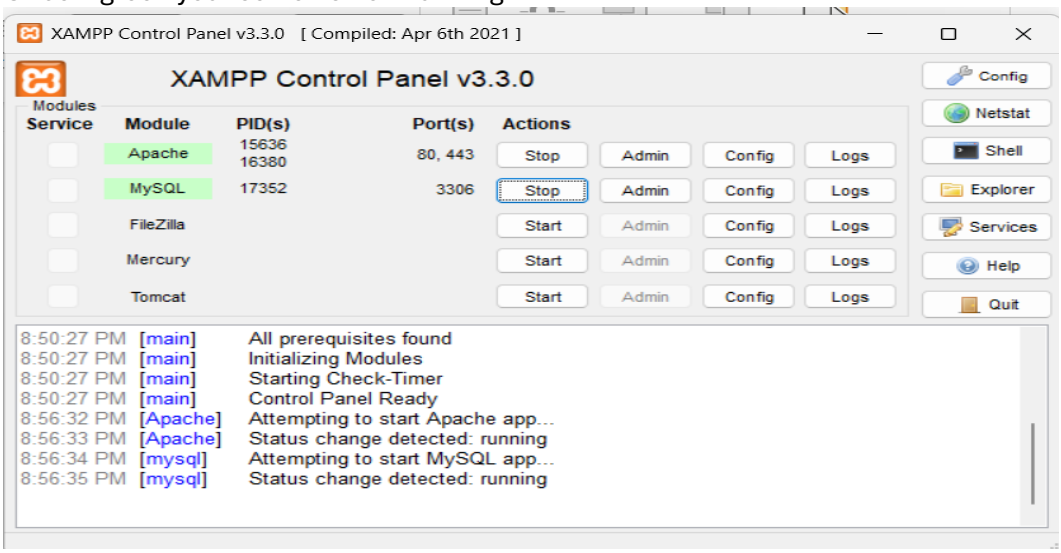
For XAMPP, this means:

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.

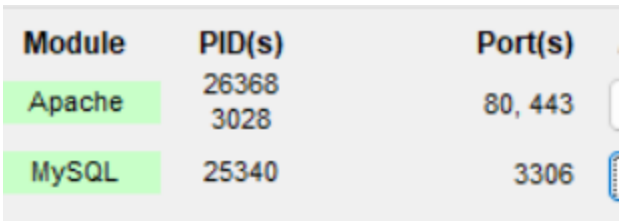


Make sure to click the Start button to open the Apache and MySQL

- Once it green your server is now running

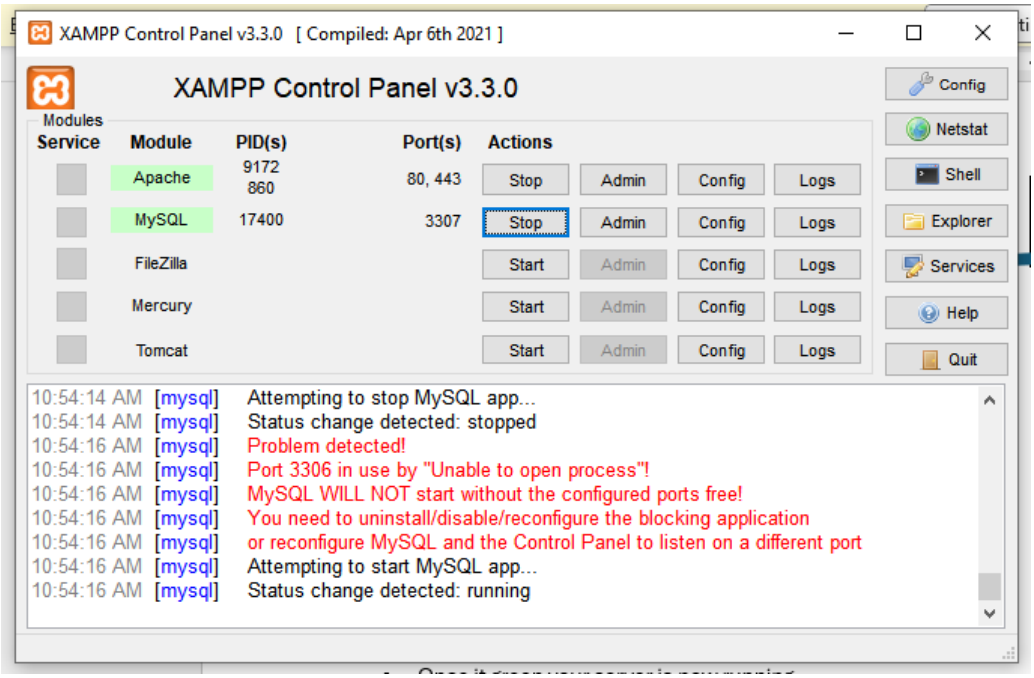


- Make sure to check the ports of Apache and MySQL as follows



- Your now ready to test your server

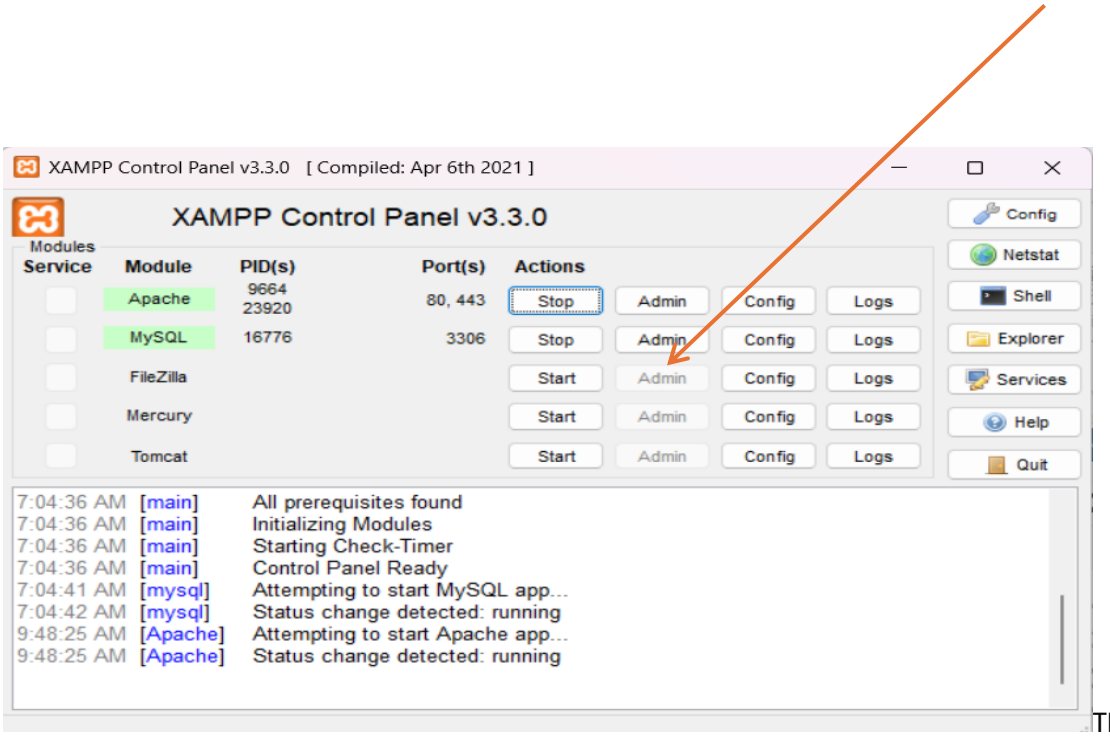
Answer:



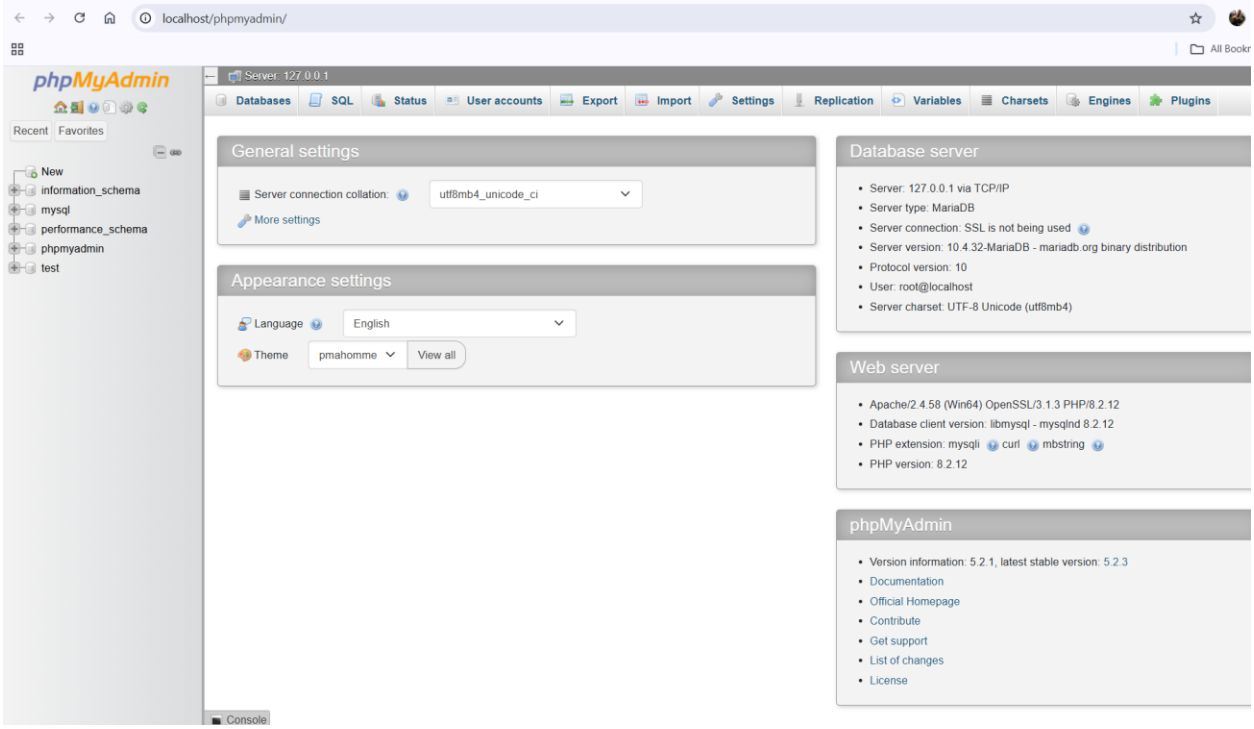
Step 3: Access phpMyAdmin

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

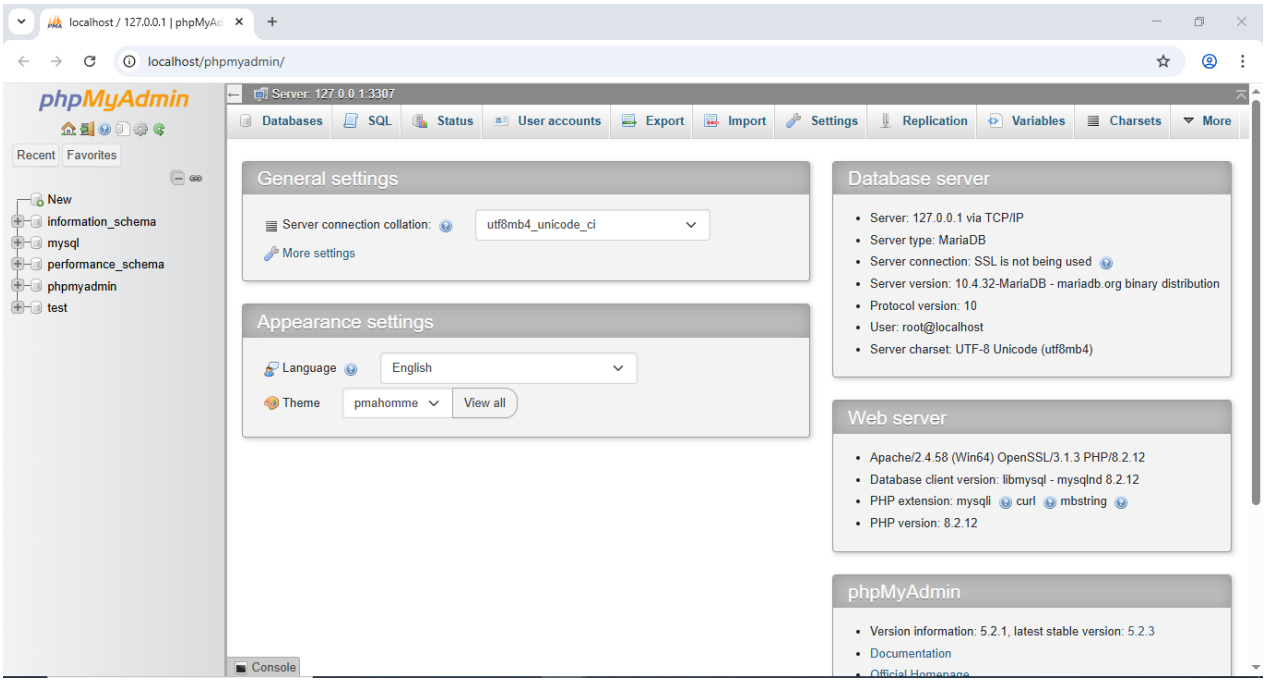
1. Open your web browser.
2. Type http://localhost/phpmyadmin in the address bar and press Enter.
3. Log in with your credentials. If you are using a new installation, the default username is often **root** with **no password**.



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.

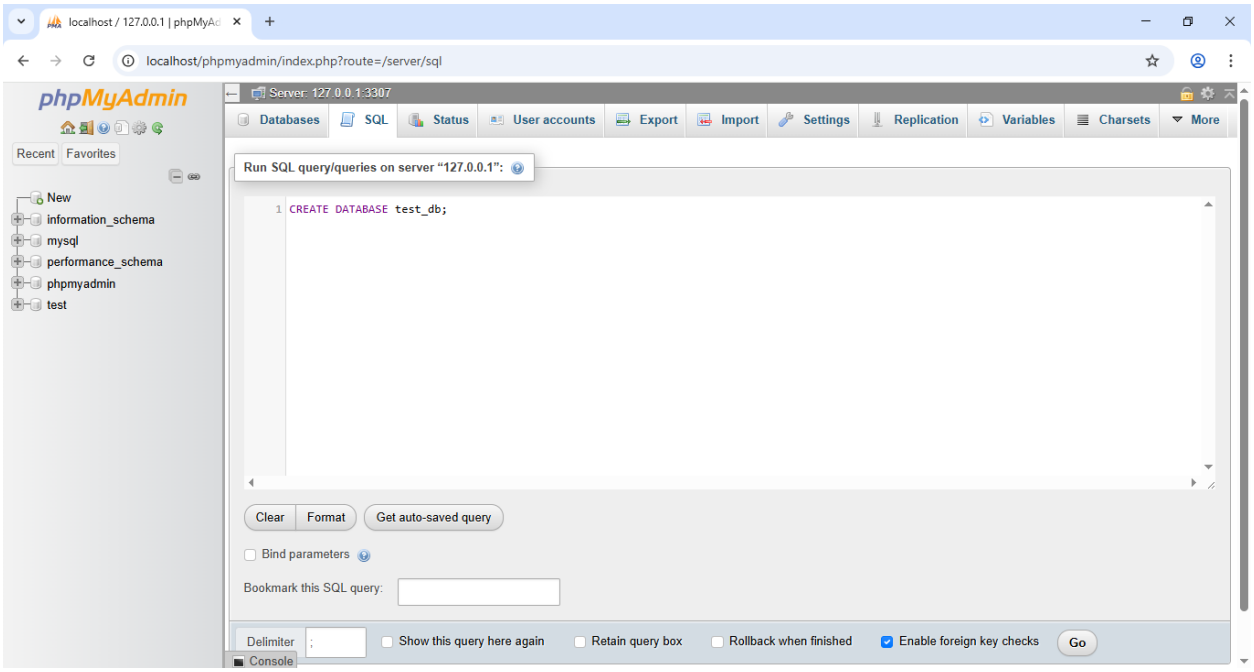
A simple planning process involves:

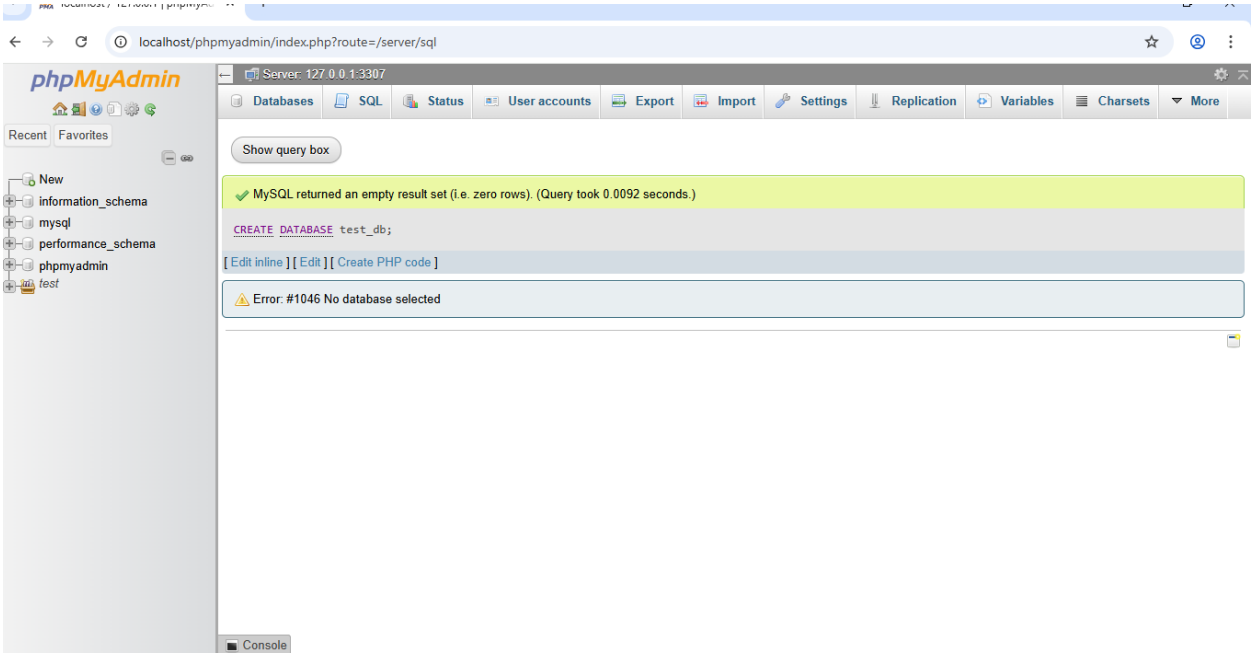
- **Identifying entities:** Figure out the main "things" your database needs to track, like Users, Products, or Orders.
- **Defining attributes:** Decide on the specific data points for each entity. For a Users table, this might include first_name, last_name, and email.
- **Specifying primary keys:** 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.

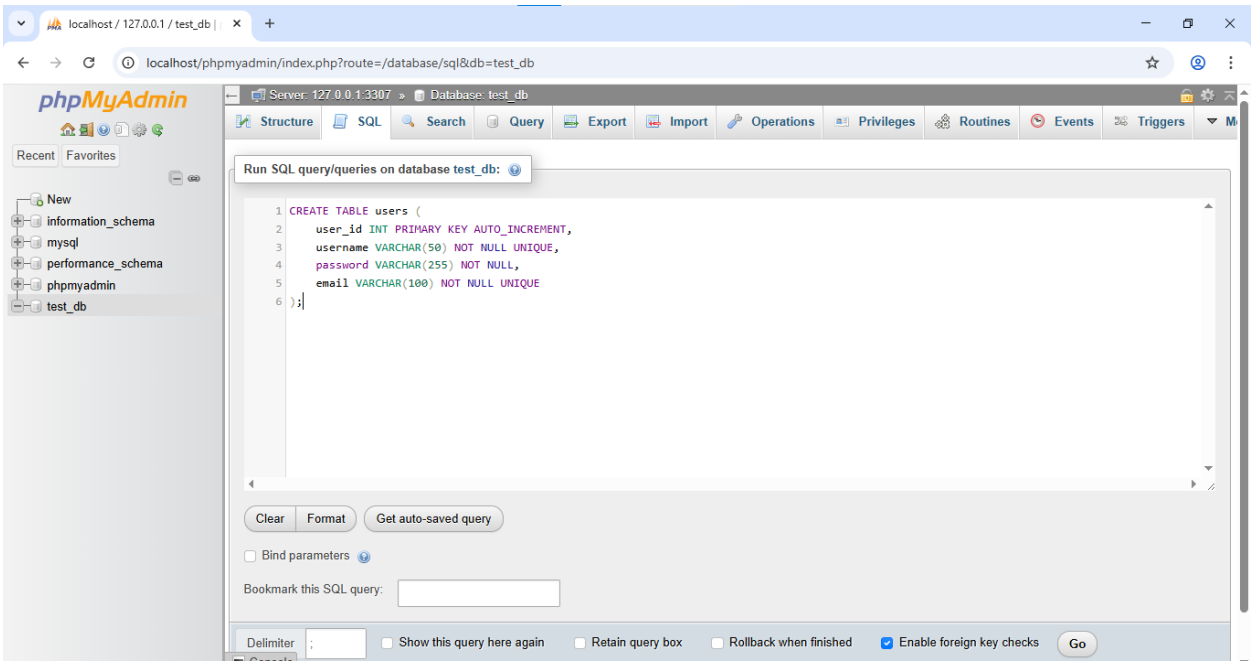
  This time:

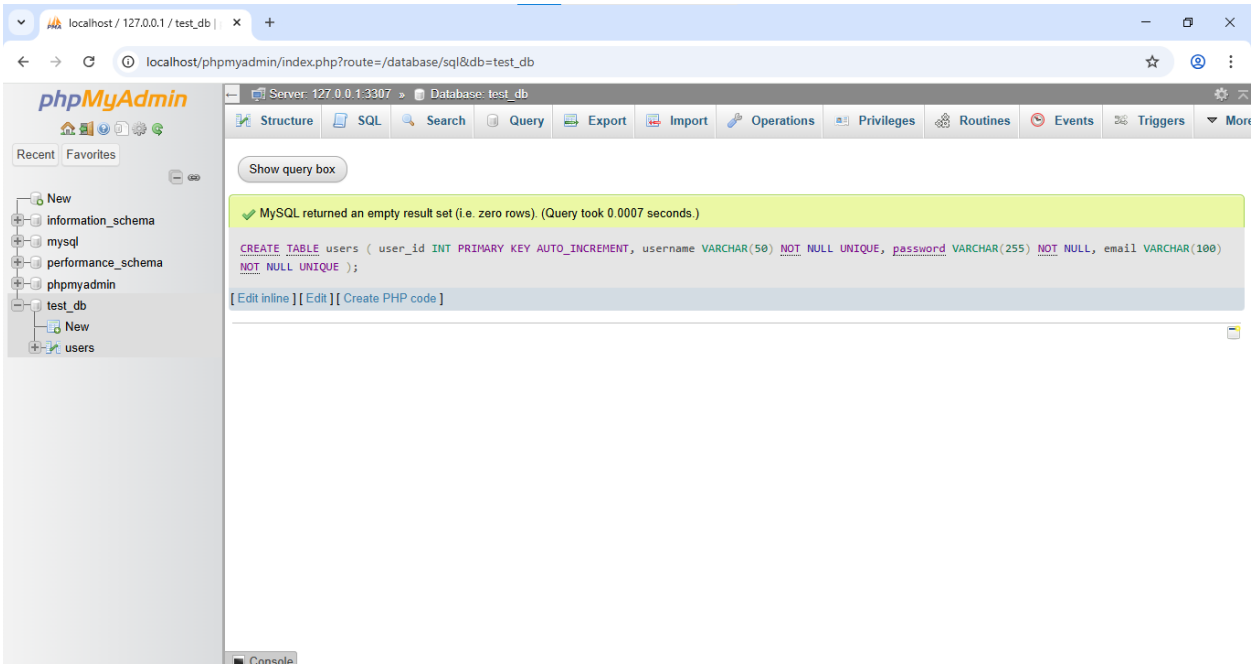
  - I want you to explore or try to create a sample database as your activity for today without connecting it to php (or to your website)
  - Name it on the desired table name.
  - Screenshot all your works and output in this document and sent it through your github (filename: Activity 3 -10/30) this is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

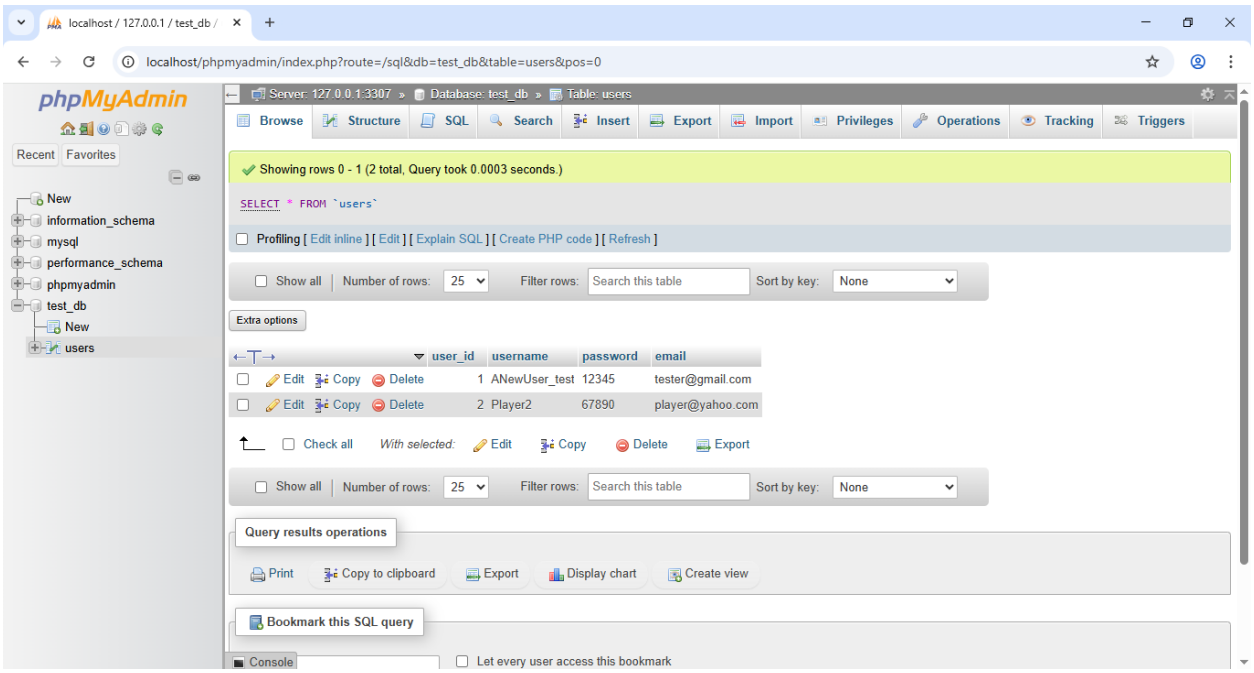
Answers:

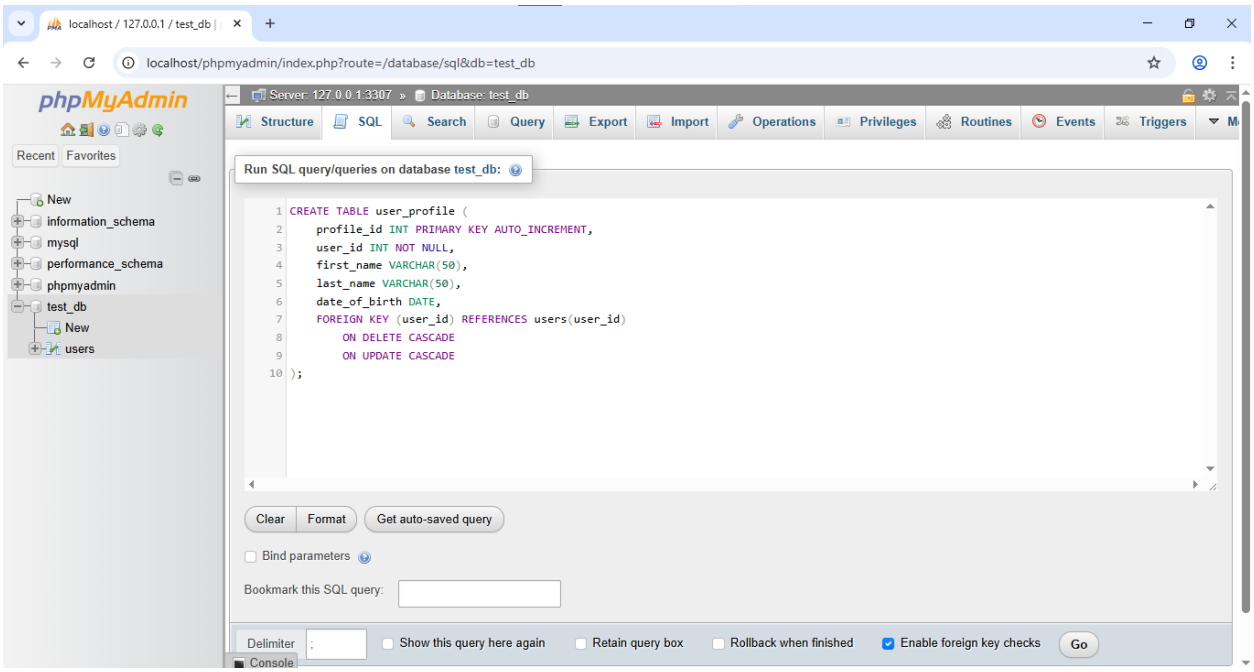

localhost / 127.0.0.1 | phpMyAd
localhost/phpmyadmin/index.php?route=/server/sql
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test
Server: 127.0.0.1:3307
Databases
SQL
Status
User accounts
Export
Import
Settings
Replication
Variables
Charsets
More
Run SQL query/queries on server "127.0.0.1":
1 CREATE DATABASE test_db;
Clear
Format
Get auto-saved query
Bind parameters
Bookmark this SQL query:
Delimiter
Show this query here again
Retain query box
Rollback when finished
Enable foreign key checks
Go
Console

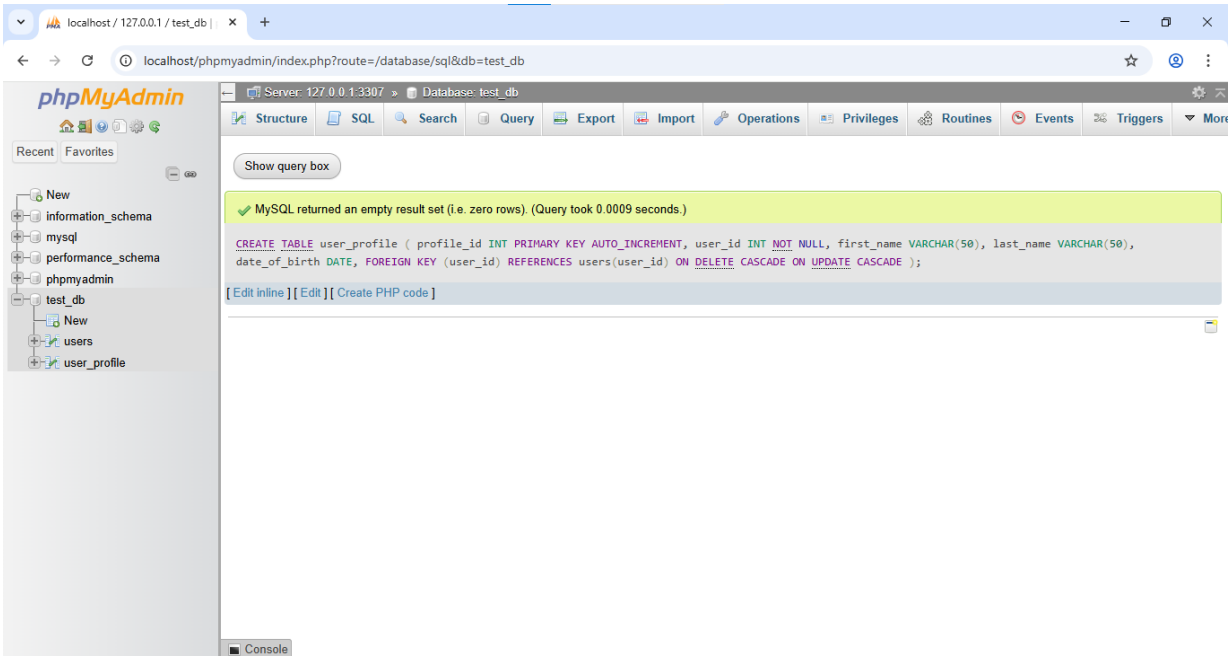

localhost/phpmyadmin/index.php?route=/server/sql
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test
Server: 127.0.0.1:3307
Databases
SQL
Status
User accounts
Export
Import
Settings
Replication
Variables
Charsets
More
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0092 seconds.)
CREATE DATABASE test_db;
[Edit inline] [Edit] [Create PHP code]
Error: #1046 No database selected
Console

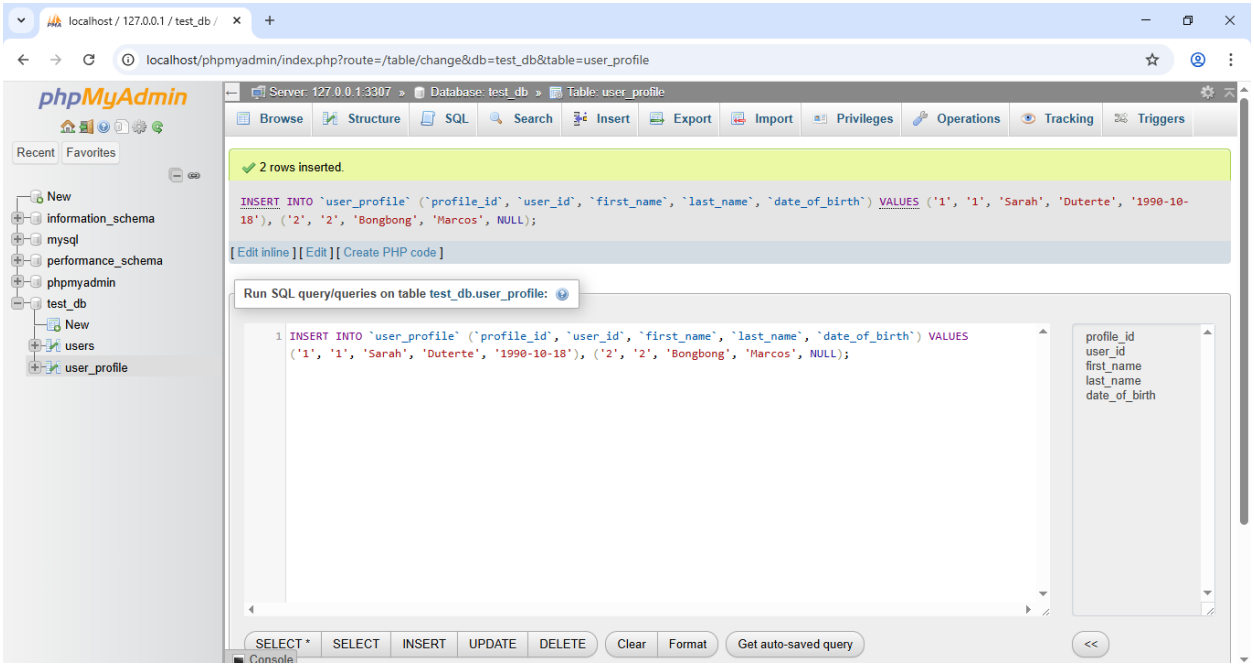

localhost / 127.0.0.1 / test_db
localhost/phpmyadmin/index.php?route=/database/sql&db=test_db
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
Server: 127.0.0.1:3307 » Database: test_db
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Run SQL query/queries on database test_db:
CREATE TABLE users (
user_id INT PRIMARY KEY AUTO_INCREMENT,
username VARCHAR(50) NOT NULL UNIQUE,
password VARCHAR(255) NOT NULL,
email VARCHAR(100) NOT NULL UNIQUE
);
Clear
Format
Get auto-saved query
Bind parameters
Bookmark this SQL query:
Delimiter
Show this query here again
Retain query box
Rollback when finished
Enable foreign key checks
Go

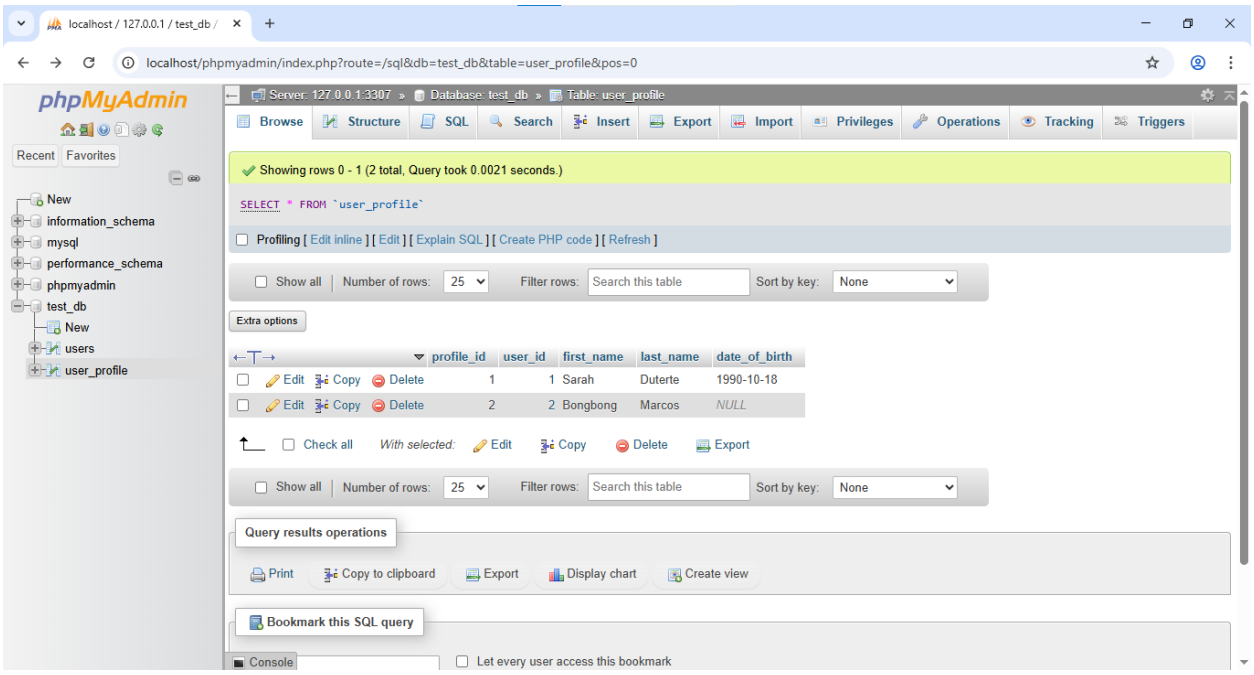

localhost / 127.0.0.1 / test_db
localhost/phpmyadmin/index.php?route=/database/sql&db=test_db
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
Server: 127.0.0.1:3307 » Database: test_db
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds.)
CREATE TABLE users (user_id INT PRIMARY KEY AUTO_INCREMENT, username VARCHAR(50) NOT NULL UNIQUE, password VARCHAR(255) NOT NULL, email VARCHAR(100) NOT NULL UNIQUE);
[Edit inline] [Edit] [Create PHP code]
Console


localhost / 127.0.0.1 / test_db /
localhost/phpmyadmin/index.php?route=/sql&db=test_db&table=users&pos=0
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
Server: 127.0.0.1:3307 » Database: test_db » Table: users
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 1 (2 total, Query took 0.0003 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
username
password
email
Edit Copy Delete 1 ANewUser_test 12345 tester@gmail.com
Edit Copy Delete 2 Player2 67890 player@yahoo.com
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Bookmark this SQL query
Console
Let every user access this bookmark


localhost / 127.0.0.1 / test_db
localhost/phpmyadmin/index.php?route=/database/sql&db=test_db
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
Server: 127.0.0.1:3307 » Database: test_db
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Run SQL query/queries on database test_db:
CREATE TABLE user_profile (
profile_id INT PRIMARY KEY AUTO_INCREMENT,
user_id INT NOT NULL,
first_name VARCHAR(50),
last_name VARCHAR(50),
date_of_birth DATE,
FOREIGN KEY (user_id) REFERENCES users(user_id)
ON DELETE CASCADE
ON UPDATE CASCADE
);
Clear
Format
Get auto-saved query
Bind parameters
Bookmark this SQL query:
Delimiter
Show this query here again
Retain query box
Rollback when finished
Enable foreign key checks
Go
Console


localhost / 127.0.0.1 / test_db
localhost/phpmyadmin/index.php?route=/database/sql&db=test_db
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
user_profile
Server: 127.0.0.1:3307 » Database: test_db
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Show query box
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0009 seconds.)
CREATE TABLE user_profile (profile_id INT PRIMARY KEY AUTO_INCREMENT, user_id INT NOT NULL, first_name VARCHAR(50), last_name VARCHAR(50), date_of_birth DATE, FOREIGN KEY (user_id) REFERENCES users(user_id) ON DELETE CASCADE ON UPDATE CASCADE);
[Edit inline] [Edit] [Create PHP code]
Console


localhost / 127.0.0.1 / test_db
localhost/phpmyadmin/index.php?route=/table/change&db=test_db&table=user_profile
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
user_profile
Server: 127.0.0.1:3307 » Database: test_db » Table: user_profile
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
2 rows inserted.
INSERT INTO `user_profile` (`profile_id`, `user_id`, `first_name`, `last_name`, `date_of_birth`) VALUES ('1', '1', 'Sarah', 'Duterte', '1990-10-18'), ('2', '2', 'Bongbong', 'Marcos', NULL);
[Edit inline] [Edit] [Create PHP code]
Run SQL query/queries on table test_db.user_profile:
INSERT INTO `user_profile` (`profile_id`, `user_id`, `first_name`, `last_name`, `date_of_birth`) VALUES ('1', '1', 'Sarah', 'Duterte', '1990-10-18'), ('2', '2', 'Bongbong', 'Marcos', NULL);
profile_id
user_id
first_name
last_name
date_of_birth
SELECT *
SELECT
INSERT
UPDATE
DELETE
Clear
Format
Get auto-saved query
<<
Console


localhost / 127.0.0.1 / test_db /
localhost/phpmyadmin/index.php?route=/sql&db=test_db&table=user_profile&pos=0
phpMyAdmin
Recent
Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test_db
New
users
user_profile
Server: 127.0.0.1:3307 » Database: test_db » Table: user_profile
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 1 (2 total, Query took 0.0021 seconds.)
SELECT * FROM `user_profile`
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
profile_id
user_id
first_name
last_name
date_of_birth
Edit Copy Delete 1 1 Sarah Duterte 1990-10-18
Edit Copy Delete 2 2 Bongbong Marcos NULL
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Bookmark this SQL query
Console
Let every user access this bookmark