

CS-GY 6083 B

MySQL Database : Connection & Usage

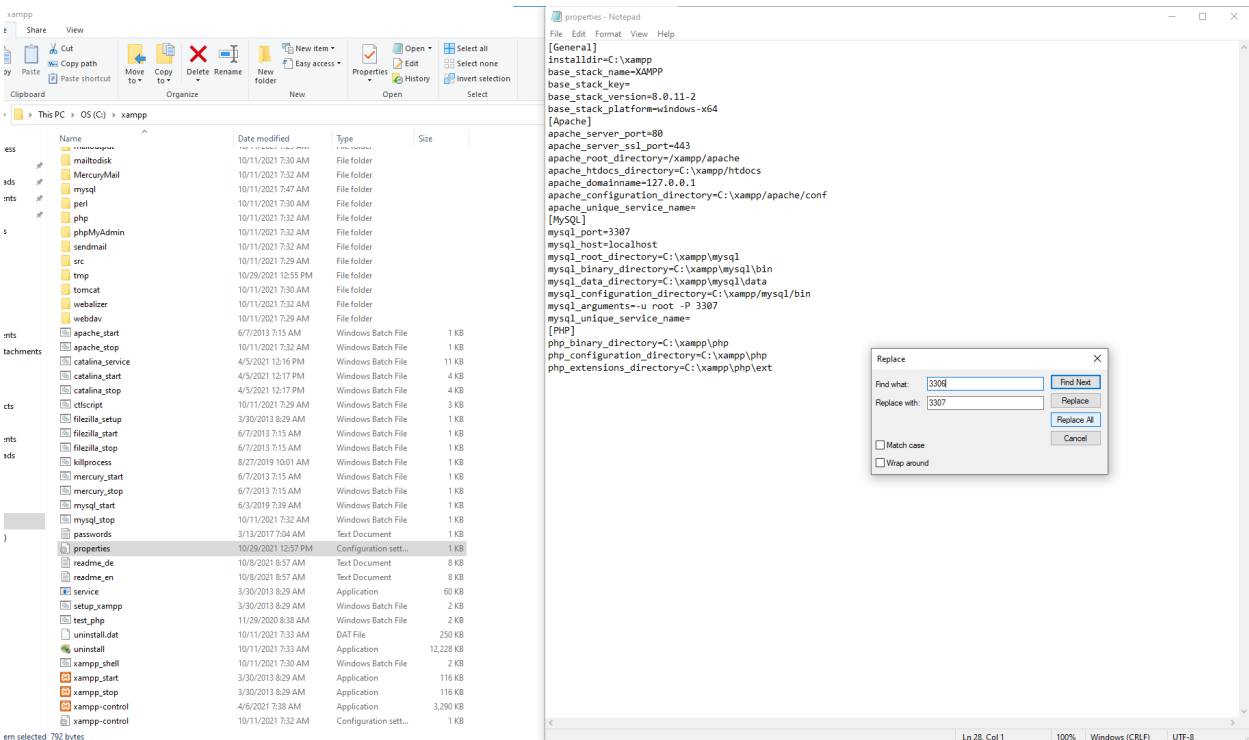
This document outlines the creation and use of a MySQL database on multiple platforms. It will provide the steps for you to connect to XAMPP's PHPMyAdmin and create a MySQL database to work with which you can also access in MySQL Workbench through a connection.

Your MySQL Workbench and XAMPP's MySQL should use the same port for you to share your work between these platforms. You need to change the port of MySQL in XAMPP in the following way :

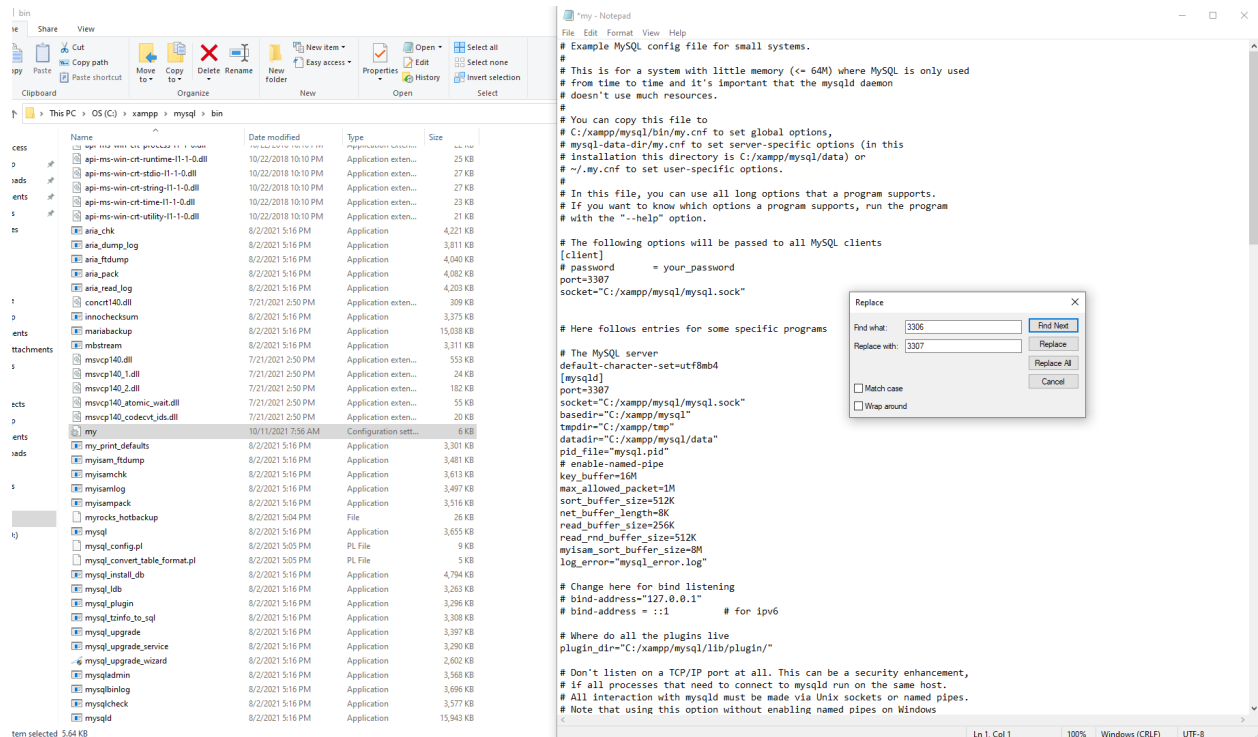
Find the following files in xampp folder:

- 1) xampp/properties.ini
- 2) xampp/mysql/bin/my.ini
- 3) xampp/php/php.ini

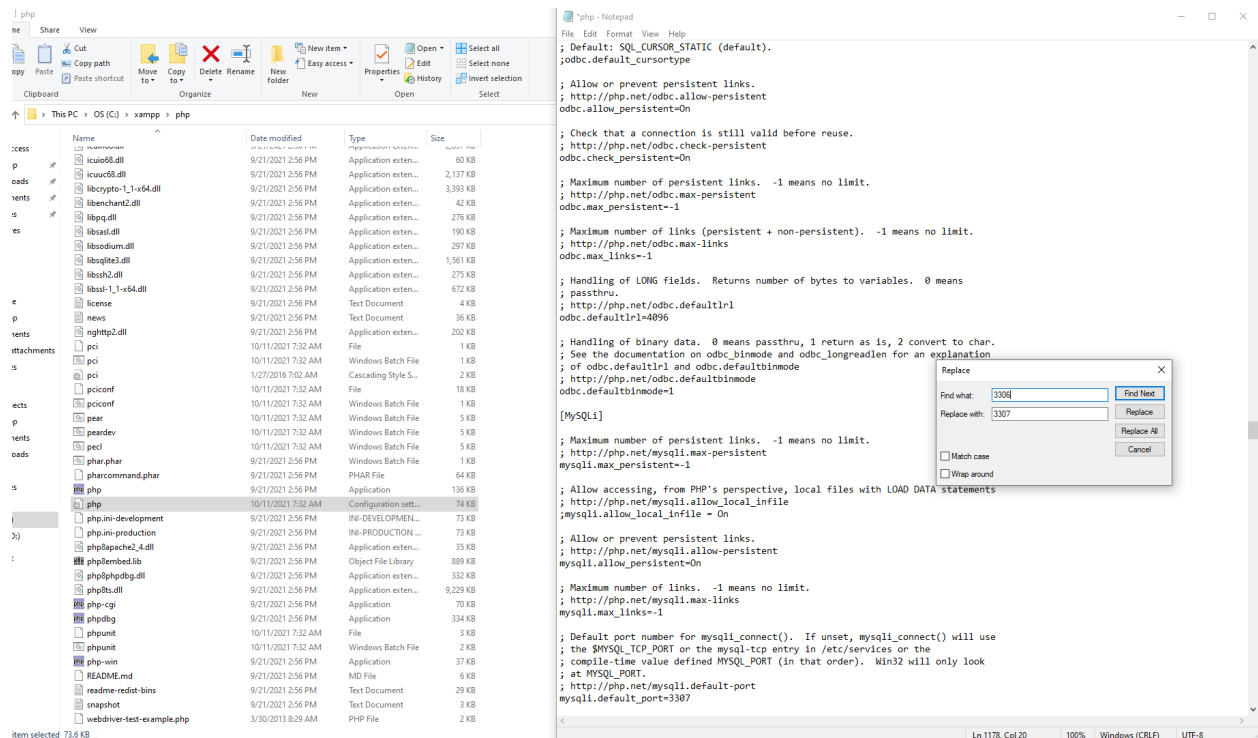
Use find and replace feature to replace all ports to the port you will use in MySQL Workbench connection setup (Set it to 3307) and save all .ini files as shown below.



xampp/properties.ini



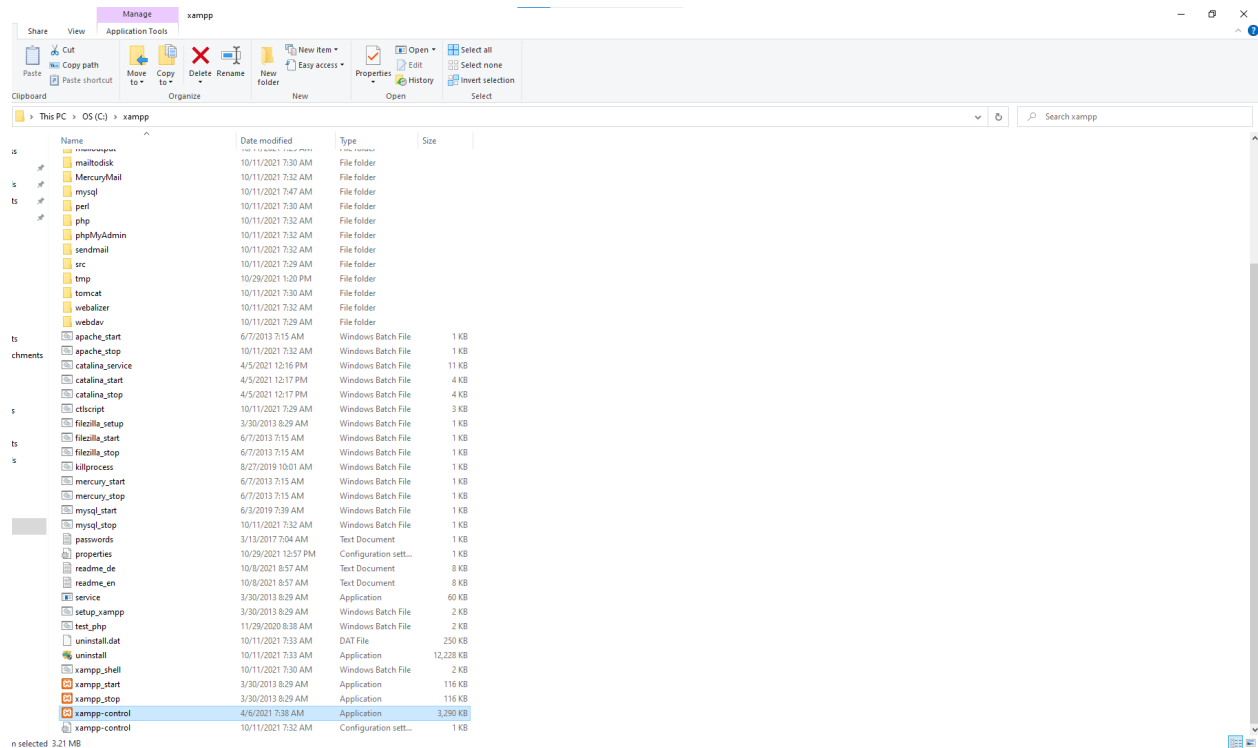
xampp/mysql/bin/my.ini



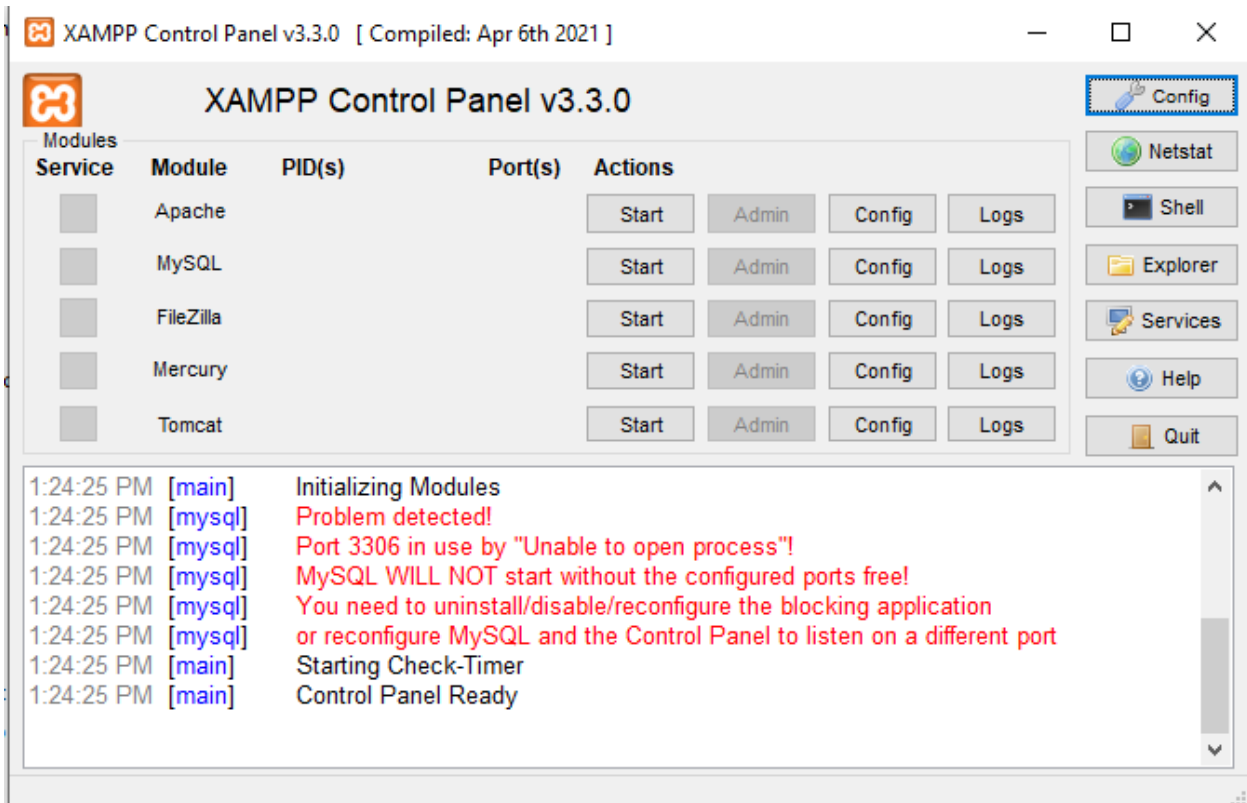
xampp/php.ini

Post this, you need to start MySQL through XAMPP through the following steps :

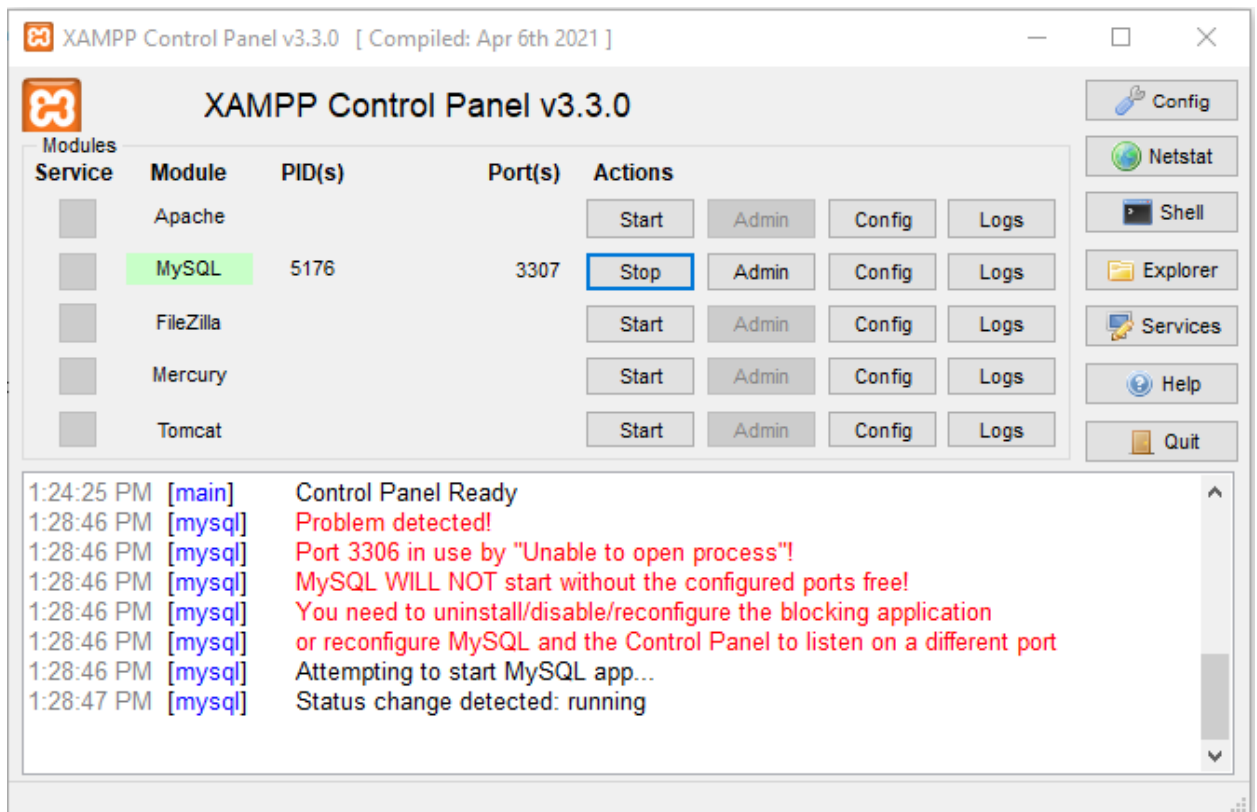
1. Find XAMPP Control Panel in the directory XAMPP Application is installed :



2. Open XAMPP CONTROL PANEL :



3. Click on the Start button opposite MySQL to start a MySQL Connection. The Control Panel should look as below once you have MySQL running on port 3307 (Ignore the statements in red in the image) :




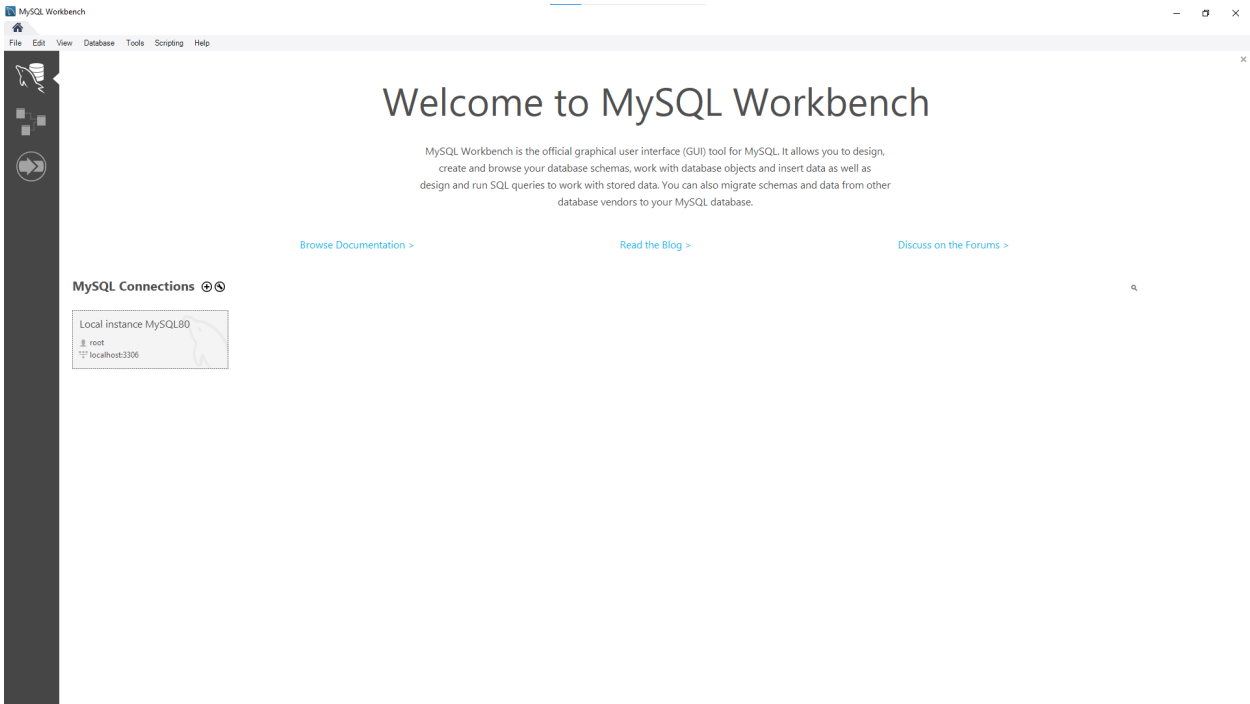
Now, we can go ahead and use MySQL on the following platforms :

- A. Using MySQL Workbench
- B. Using PHPMyAdmin

A. Using MySQL Workbench :

1. Make a new connection in MySQL Workbench :

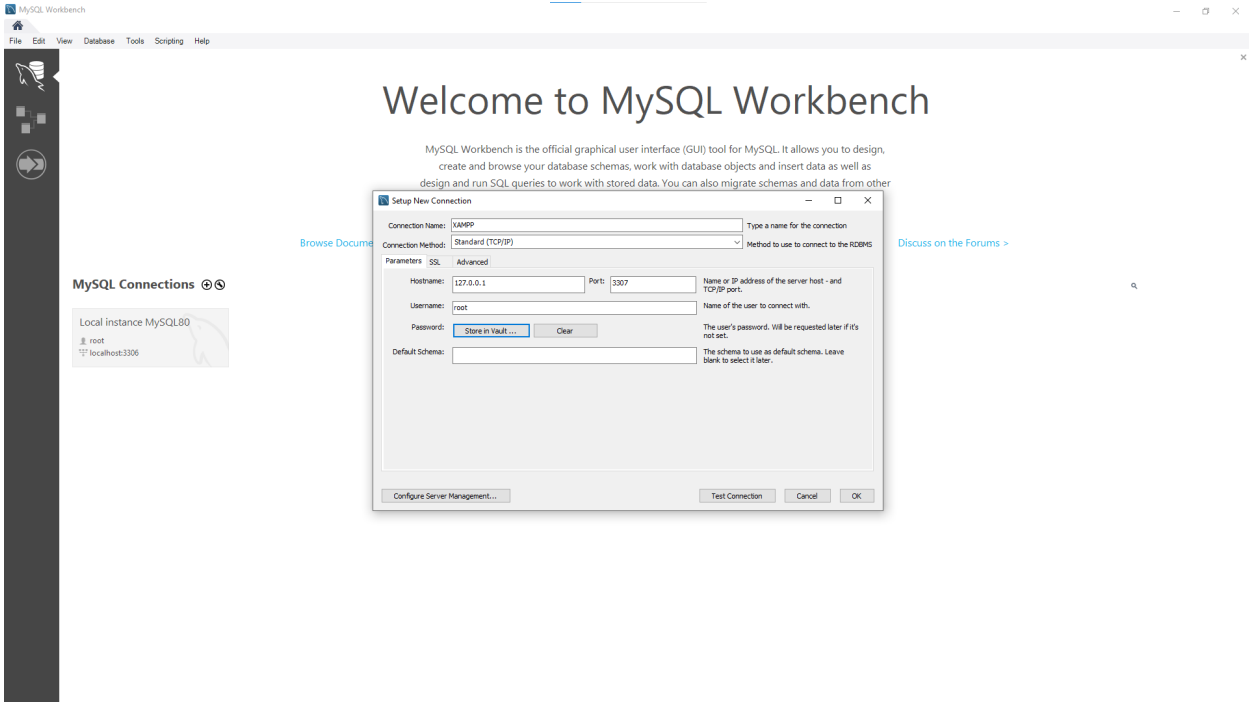
Click on  near MySQL Connections



2. Setup New Connection screen pops up:

Set Connection Name eg: XAMPP

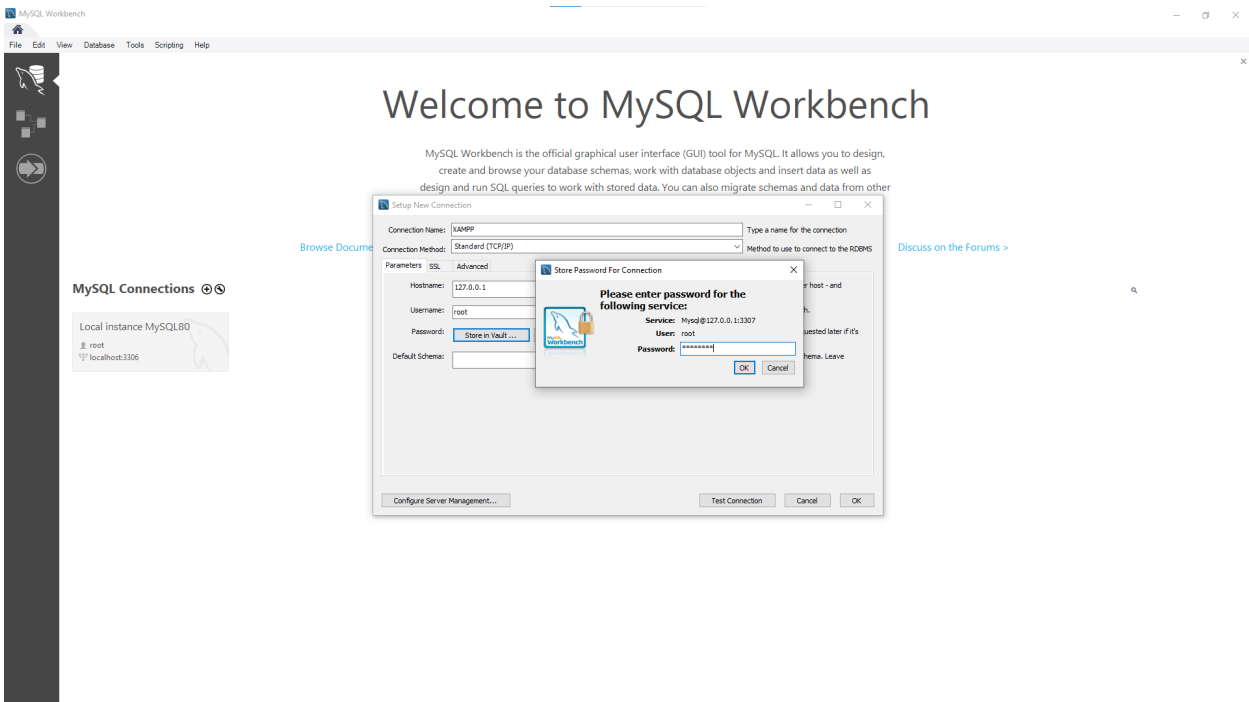
Set PORT as 3307 to establish a common connection with the MySQL server you have started as above.



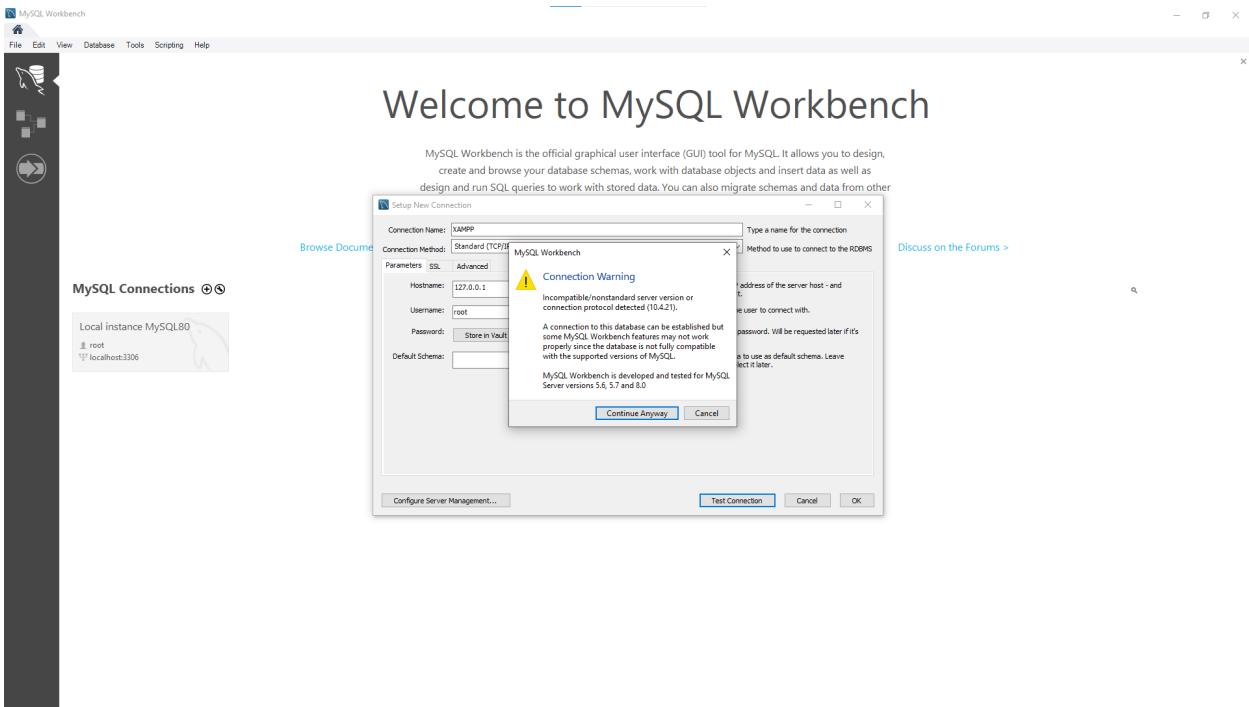
3.

To set password click on Store in Vault:

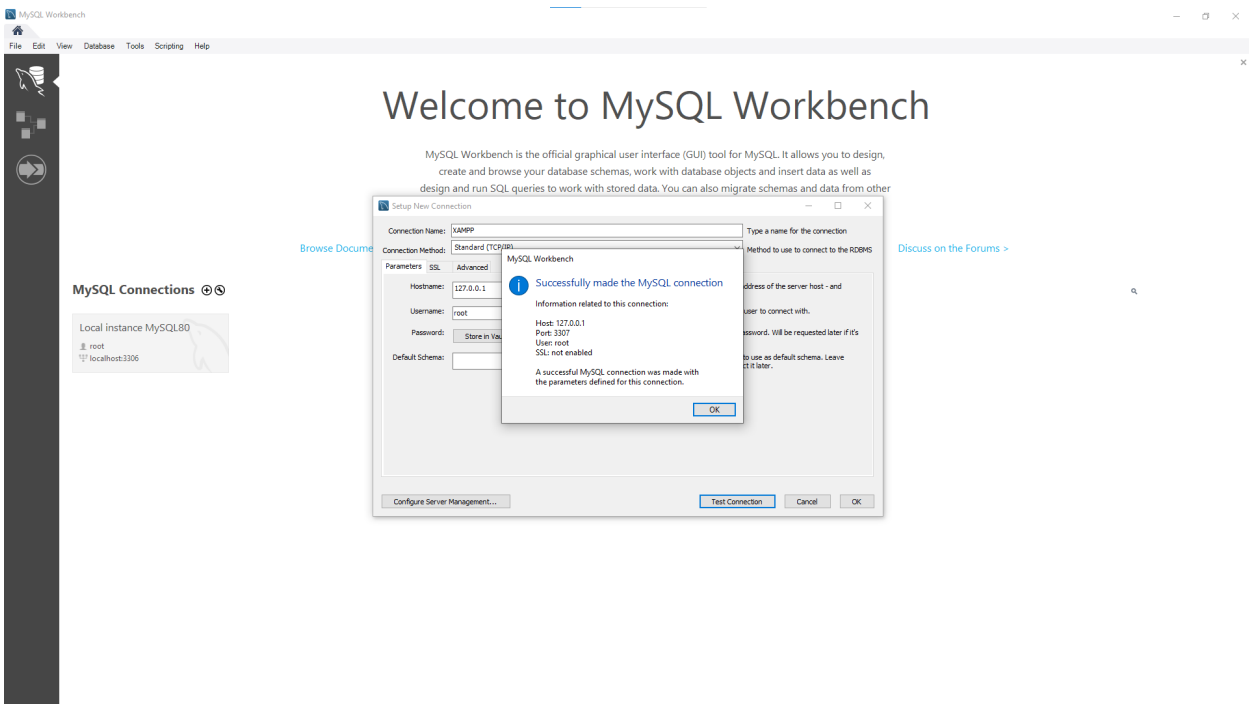
Set a password eg. password. Click on OK.



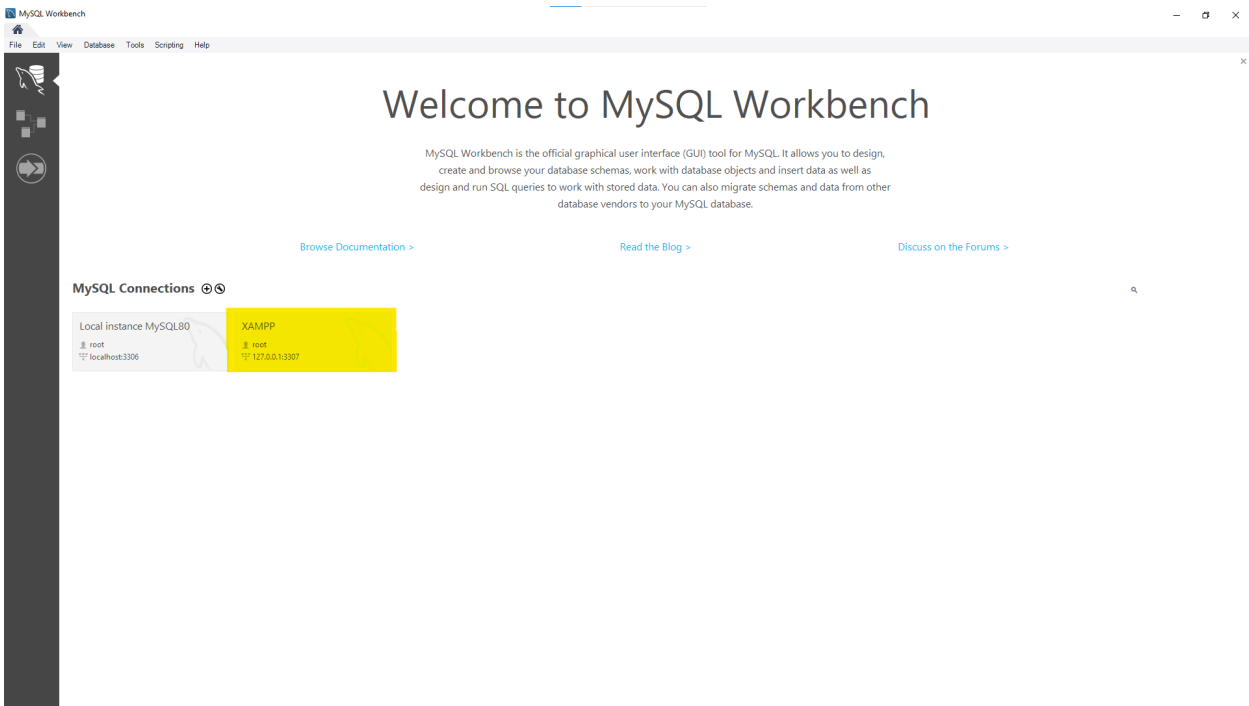
4. Click on Test Connection. Enter your password. Click on OK. A successful connection will still throw the following warning, Click on continue.



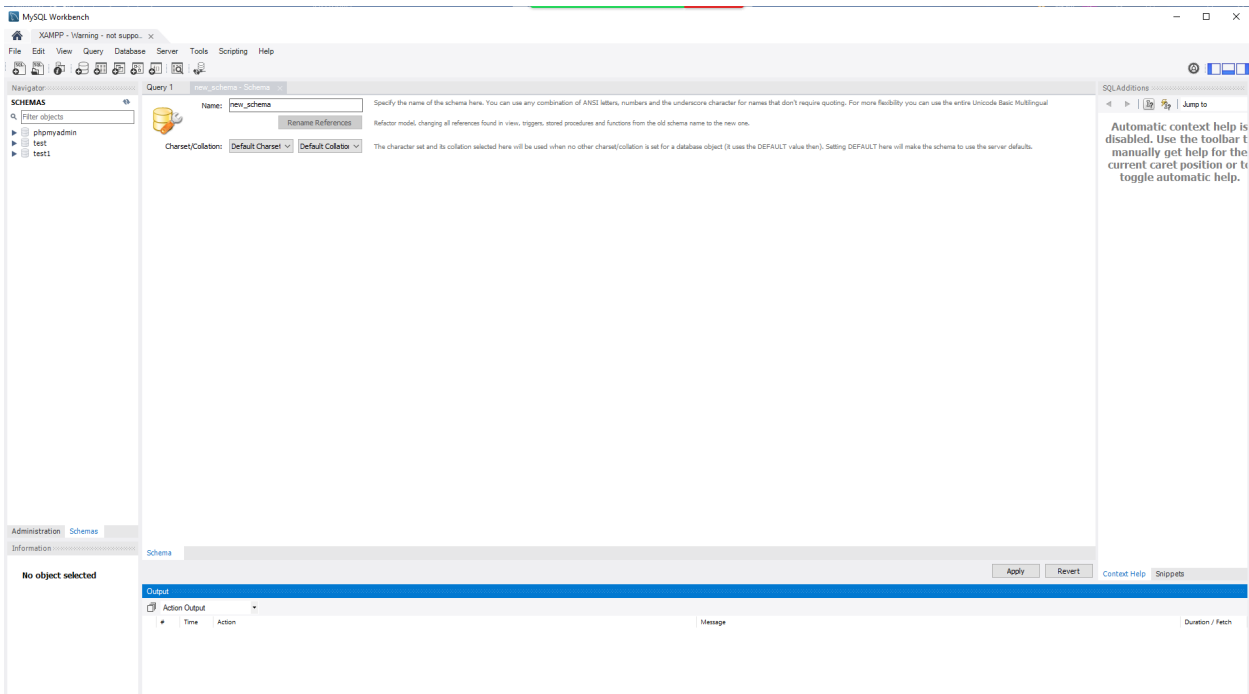
5. Successful Connection message will show up:



6. New Connection is visible on the Welcome Page:

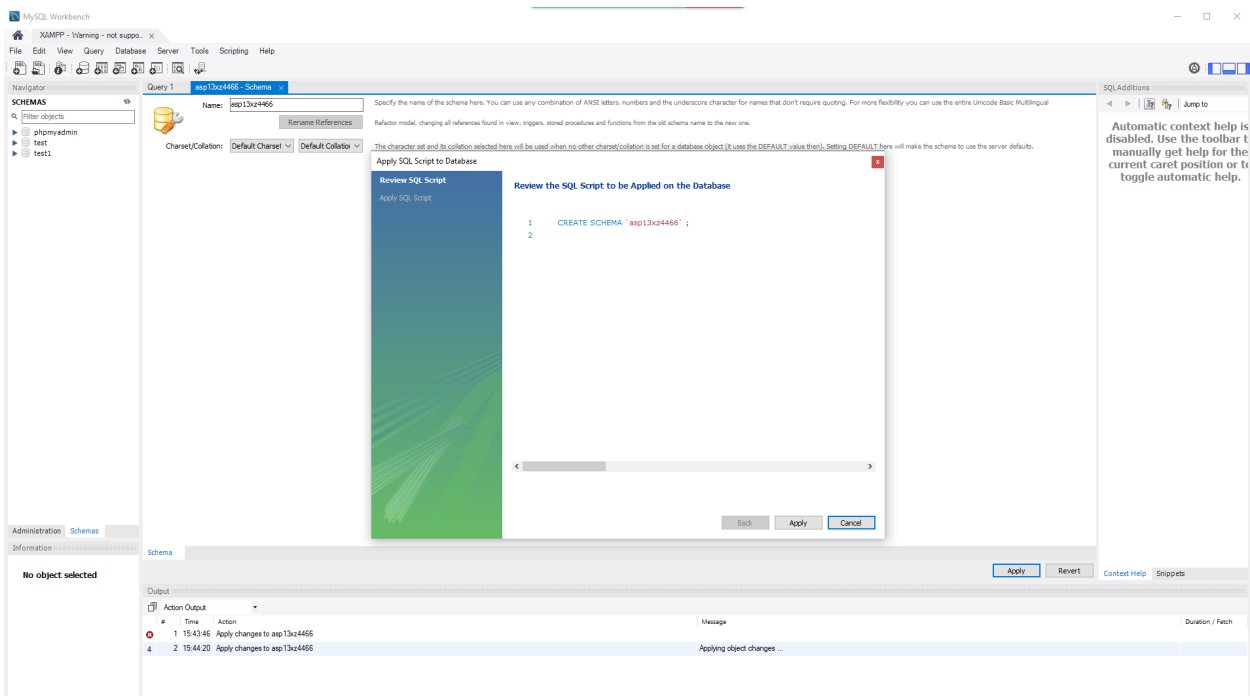


7. Click on this new connection to create a new database :

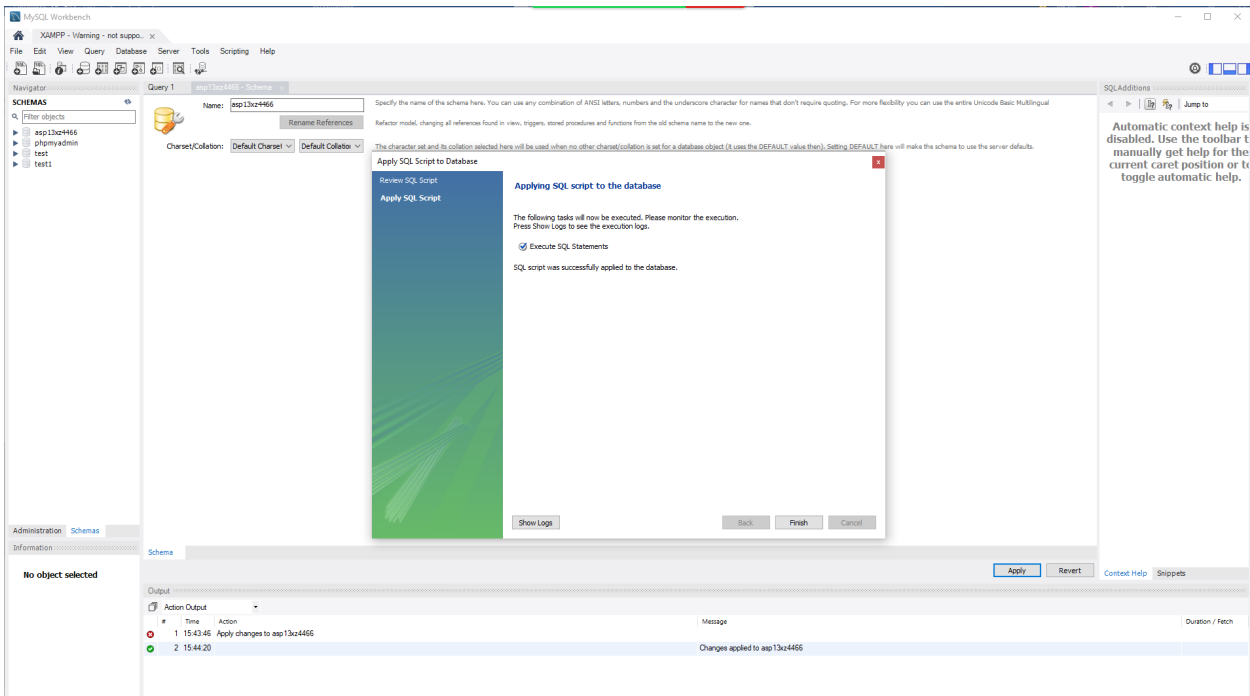


8. Put in a name for your database as the net ID of both the group members in your project or just your net ID if you are doing the project individually (In this example, asp13xz4466). You will see the following

popup :



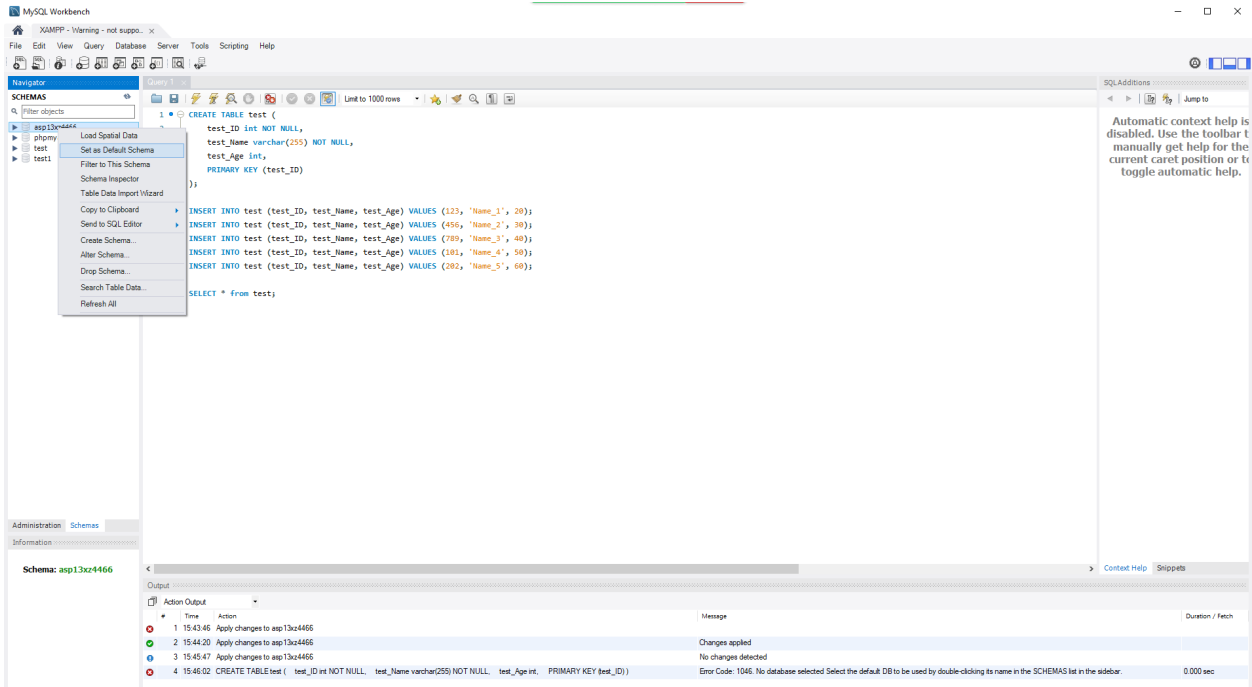
9. Click on Finish and then Apply :



10. You can also create a new database using the following command :

```
CREATE DATABASE asp13xz4466;
```

You will see the following screen. In the left panel, right click on your database and select “Set as Default Schema” :

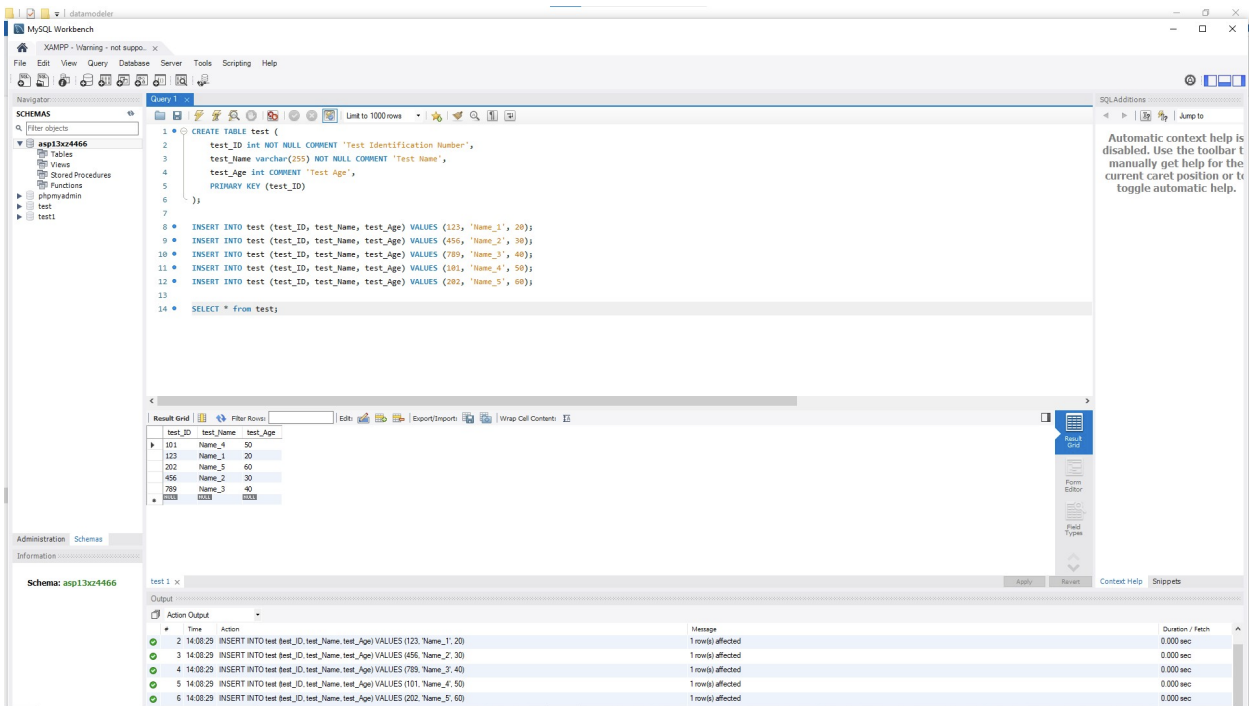


Alternatively, you could set the database to default by using the following command :

```
USE asp13xz4466;
```

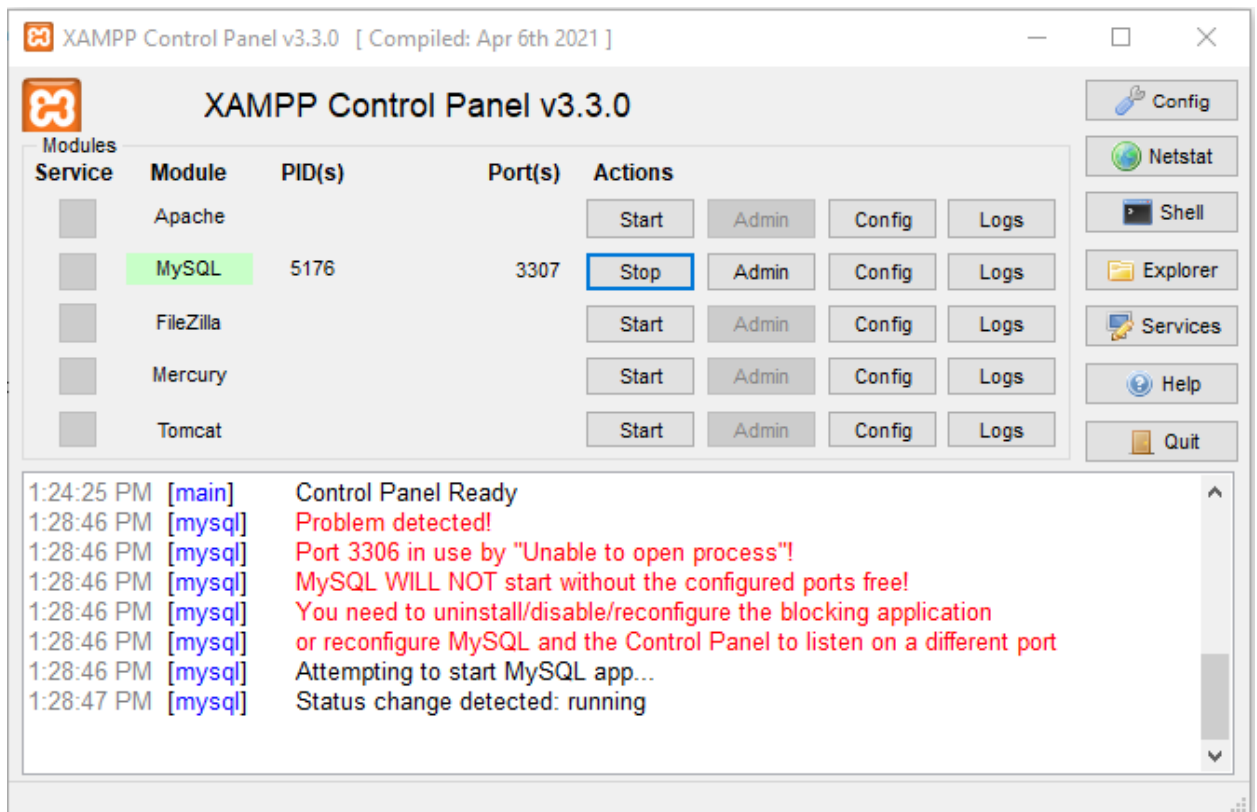
11. You can use the editor on the right to write your data script to insert into, select from tables etc.

Below we have shown a small example of creating a table TEST with comments for each column. Click on the flash/lightning button in the panel just above the editor (Third button under the Query 1 tab) to run your full script. Click on the button next to it if you want to run some selective statements after you have selected them with your cursor :



B : Using PHPMYAdmin :

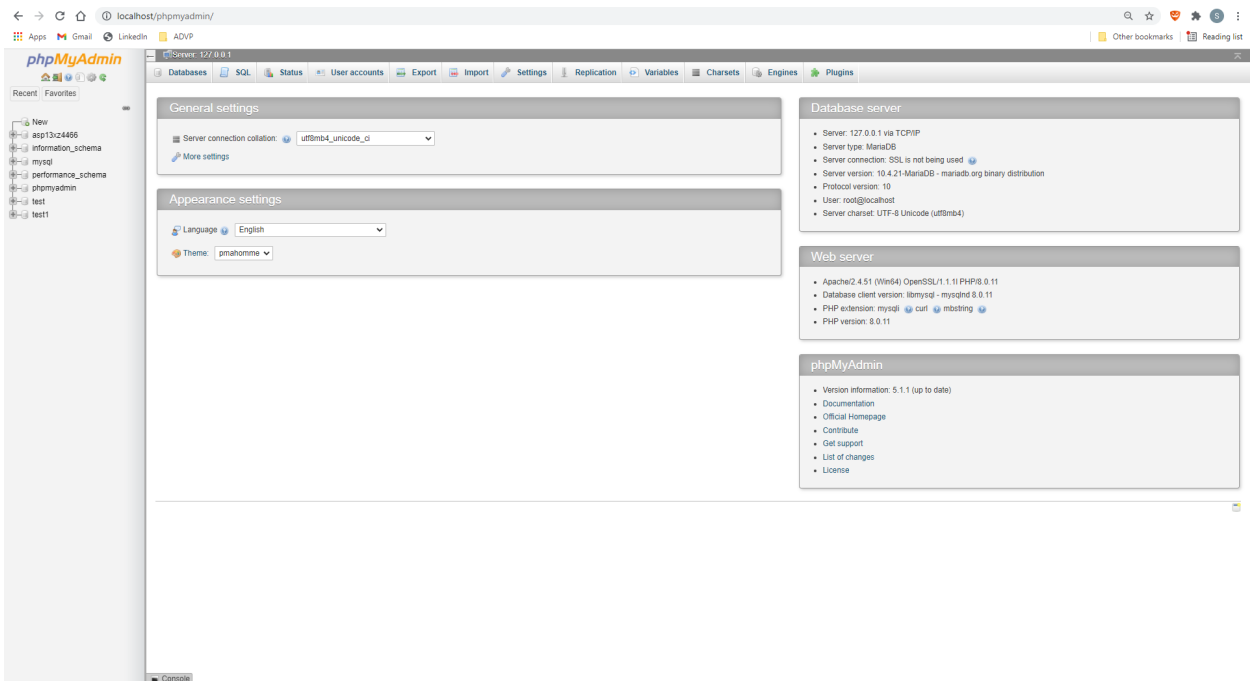
1. Go to the XAMPP CONTROL PANEL (Since we started the MySQL server previously, the panel should look as in the image shown below.



2. Click on Start against Apache to start the Apache server. After this step, you should have both the MySQL (We started this at the beginning of this tutorial) and Apache server running.
3. Click on Admin against Apache to launch PHPMyAdmin :

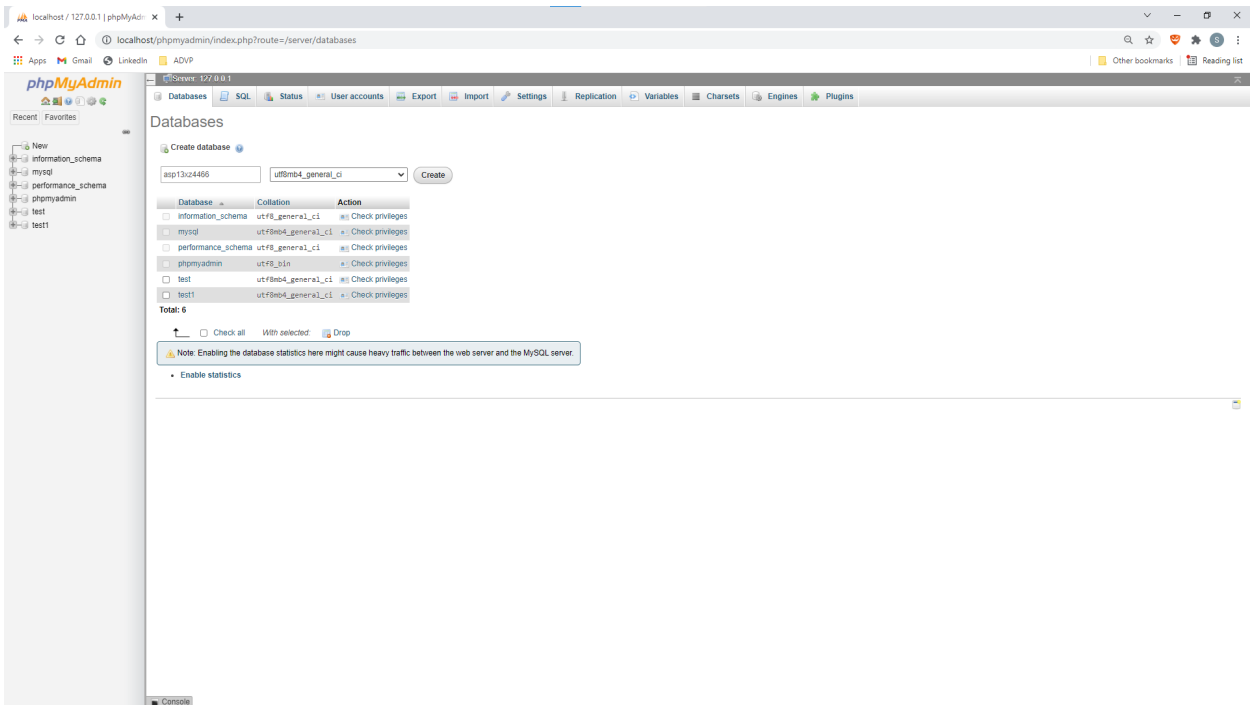


4. Click on PHPMyAdmin in the top right corner to go to the PHPMyAdmin console :



5. Click on Databases in the top panel to create database :

6. Add the database name as shown and don't change the other field. Click on Create :



7. Use the SQL button in the top panel to go to the SQL editor and create a table or write other queries. We have shown one example here to create a database and a corresponding table. **If you have created a database in MySQL Workbench as shown above in this document, it would appear here in the left panel and you could use it further.** We haven't shown an image for that here. Instead, we are showing how to create a new database in PHPMyAdmin. **Use the Go button on the blue panel in the middle to run your queries after you have selected the queries you want to run :**

