

PHP and MySQL Introduction

Course Code:CSC 3215

Course Title: Web Technologies



Dept. of Computer Science
Faculty of Science and Technology

Lecturer No:	07	Week No:	06	Semester:	
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Lecture Outline



1. MySQL installation
2. phpMyAdmin Dashboard
3. Using phpMyAdmin

MySQL Installation



- Open XAMPP control panel and make sure that Apache and MySQL service is running

XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]

Service	Module	PID(s)	Port(s)	Actions	Admin	Config	Logs
<input type="checkbox"/>	Apache	1272 6448	80, 443	Stop	Admin	Config	Logs
<input type="checkbox"/>	MySQL	3204	3306	Stop	Admin	Config	Logs
<input type="checkbox"/>	FileZilla			Start	Admin	Config	Logs
<input type="checkbox"/>	Mercury			Start	Admin	Config	Logs
<input type="checkbox"/>	Tomcat			Start	Admin	Config	Logs

10:56:30 PM [main] All prerequisites found
10:56:30 PM [main] Initializing Modules
10:56:30 PM [main] Starting Check-Timer
10:56:30 PM [main] Control Panel Ready
10:56:36 PM [Apache] Attempting to start Apache app...
10:56:37 PM [Apache] Status change detected: **running**
10:56:37 PM [mysql] Attempting to start MySQL app...
10:56:38 PM [mysql] Status change detected: **running**

phpMyAdmin



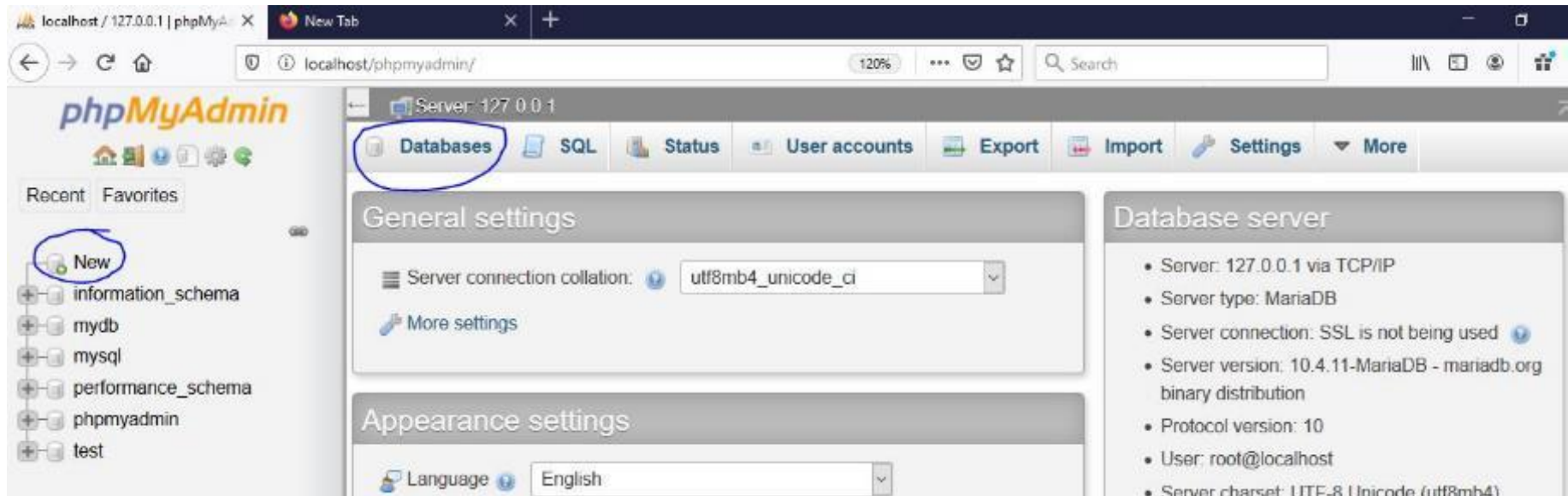
- Open a browser then type 'localhost' or 'localhost:8080' or 'localhost:8082'
- Then navigate to 'phpMyAdmin'



phpMyAdmin Dashboard



- Below picture shows 'phpMyAdmin' dashboard
- To check existing database, the user can click on 'Databases'
- User can create database by clicking 'New'



Create DB



- User can create database by entering the database name click create button
- If the database successfully created then it will appear on left menu.

The screenshot shows the phpMyAdmin web interface. On the left, the 'Recent' and 'Favorites' tabs are visible. Under the 'Recent' tab, a list of databases is shown: 'New', 'information_schema', 'mydb', 'mysql', 'performance_schema', 'phpmyadmin', and 'test'. The 'New' database is circled in blue. In the main area, the 'Databases' tab is selected. Below it, the 'Create database' section is visible. The 'Database name' input field is circled in blue and contains the text 'utf8mb4_general_ci'. The 'Create' button is also circled in blue. Below the input field, there is a table with columns 'Database', 'Collation', and 'Action'. The table lists 'information_schema' with collation 'utf8_general_ci' and 'mydb' with collation 'utf8mb4_general_ci'. Both rows have a 'Check privileges' link in the 'Action' column.

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The screenshot shows the phpMyAdmin web interface. On the left, the "Recent" and "Favorites" tabs are visible. The "Recent" tab is active, showing a list of databases: "New", "information_schema", "mydb", "mysql", "performance_schema", "phpmyadmin", and "test". The "New" database is circled in blue. In the main area, the "Databases" tab is selected. The "Create database" section is visible, with a "Database name" input field containing "utf8mb4_general_ci" and a "Create" button. Both the input field and the button are circled in blue. Below this, a table lists existing databases with columns for "Database", "Collation", and "Action".

Database	Collation	Action
<input type="checkbox"/> information_schema	utf8_general_ci	Check privileges
<input type="checkbox"/> mydb	utf8mb4_general_ci	Check privileges

PHP and MySQL Connection



Create a php file and try out below code. If it returns "Connected successfully" then connection between PHP and MySQL is successful

```
<?php
$servername = "localhost"; // default host name
$username = "root"; // default user is root
$password = ""; //default password is empty

// Create connection using mysqli function
$conn = new mysqli($servername, $username, $password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```




References

- MySQL - www.mysql.com
- W3Schools Online Web Tutorials- www.w3schools.com
- PHP Manual - www.php.net



Books

- Sams Teach Yourself Ajax JavaScript and PHP All in One; Phil Ballard and Michael Moncur;
- Sams Publishing; 2010
- JavaScript Phrasebook; Christian Wenz; Sams Publishing; 2007
- PHP and MySQL Web Development, 4/E; Luke Welling and Laura Thomson; AddisonWesley Professional; 2009
- JavaScript for Programmers Paul J. Deitel and Harvey M. Deitel; Prentice Hall; 2009