

PHP & MYSQL II

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PHP PART 2

PHP & MYSQL

Install Wamp



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WampServer

A Windows Web development environment for Apache, MySQL, PHP databases

Brought to you by: [alterway](#), [herveleclerc](#), [otomatic](#)

Your download will start shortly...



Get Updates

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Problems Downloading?

wampserver3.1.9_x86.exe | Scanned by: **Bitdefender**

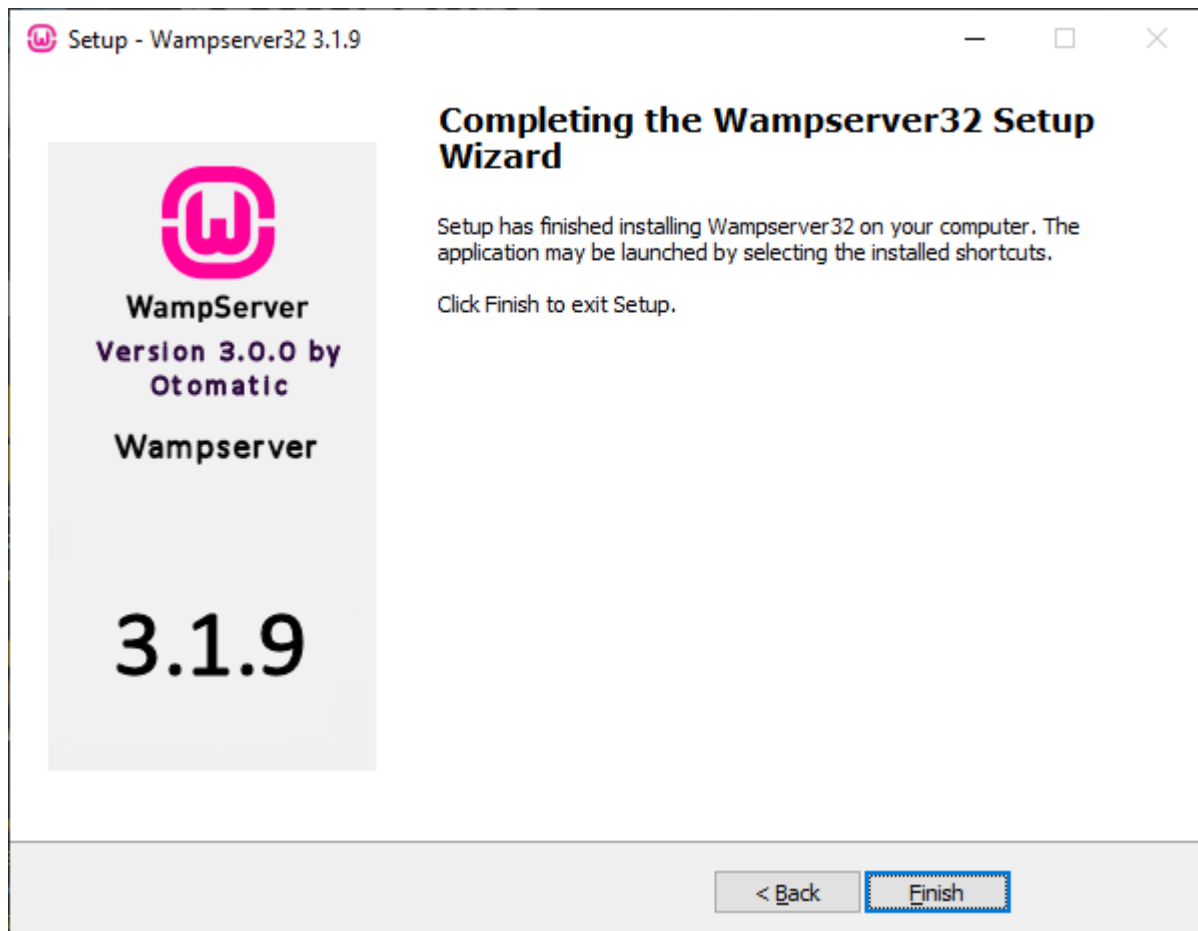


wampserver3.1.9_x86.exe

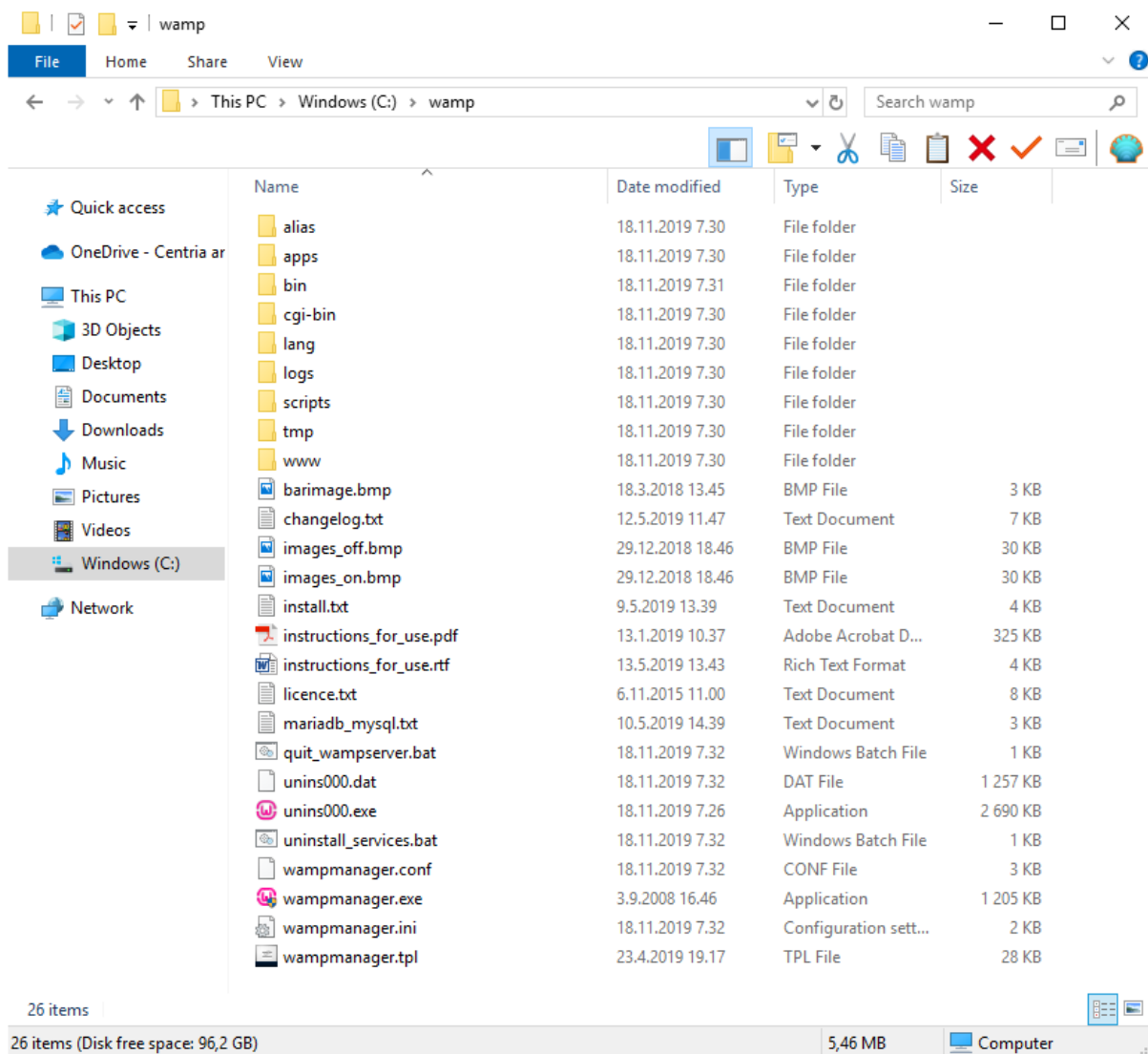
Type: Application

And finally

Wamp on your machine

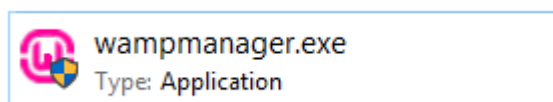


Wamp is now installed to C:\ drive:



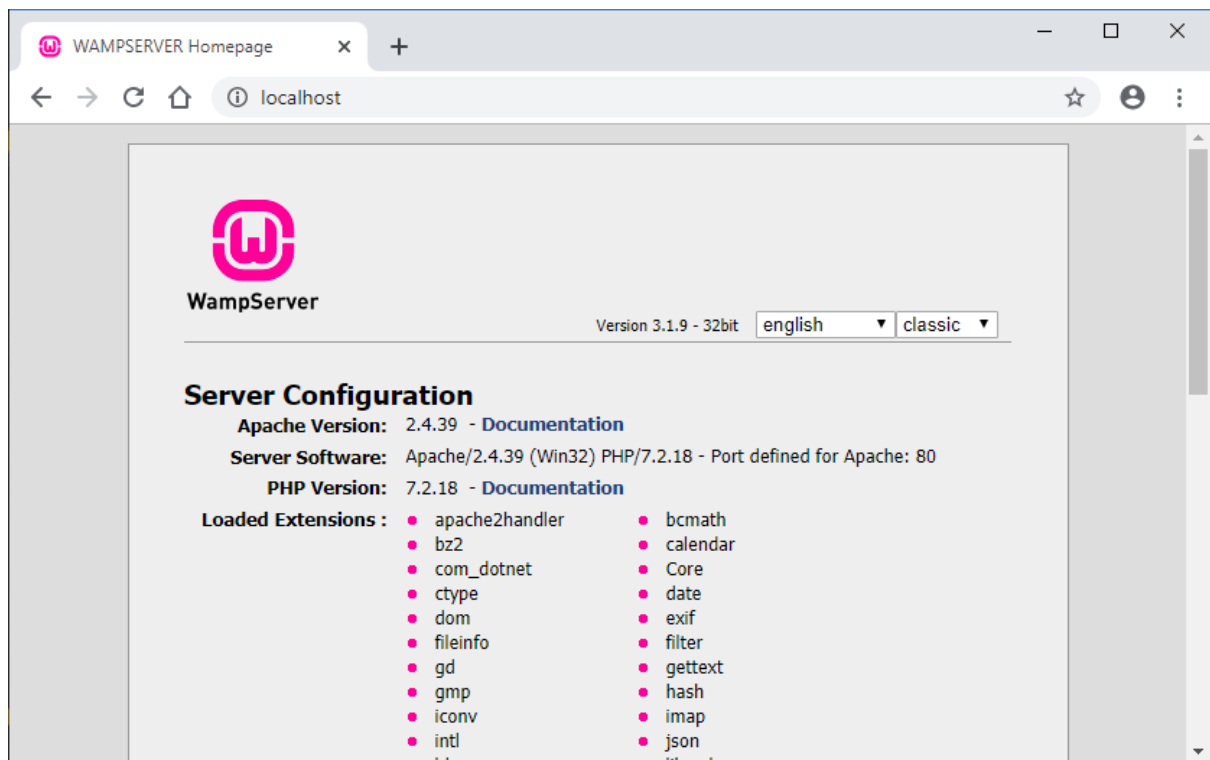
Start Wamp

Click `wampmanager.exe` to start wampserver:



Test Wamp with web browser

Now, open your web browser and write localhost: you should see this:



SO your local web server is working.

Now we can try different things

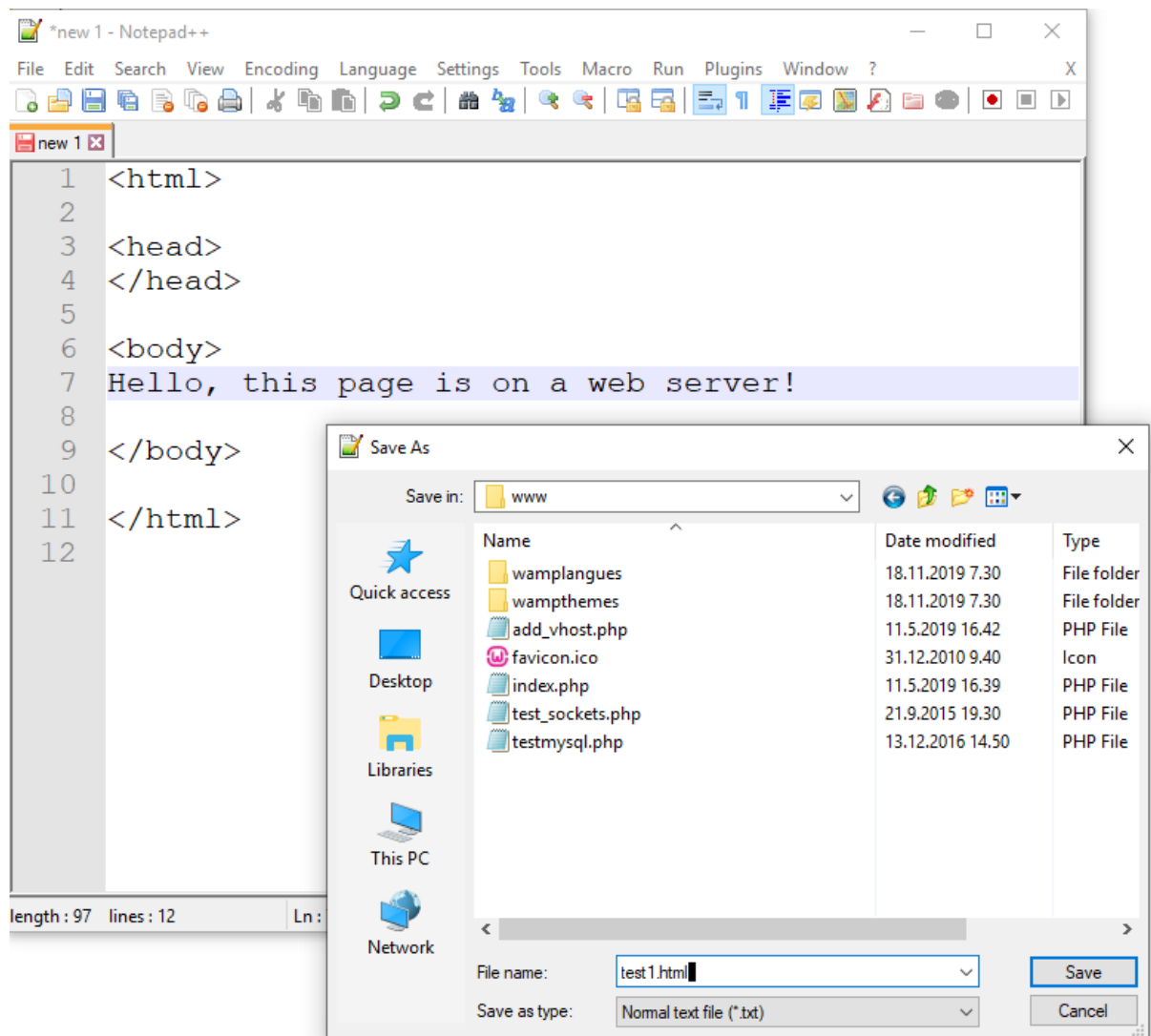
[Html pages](#)

First we create an html page, save it to www subfolder and open it on a browser

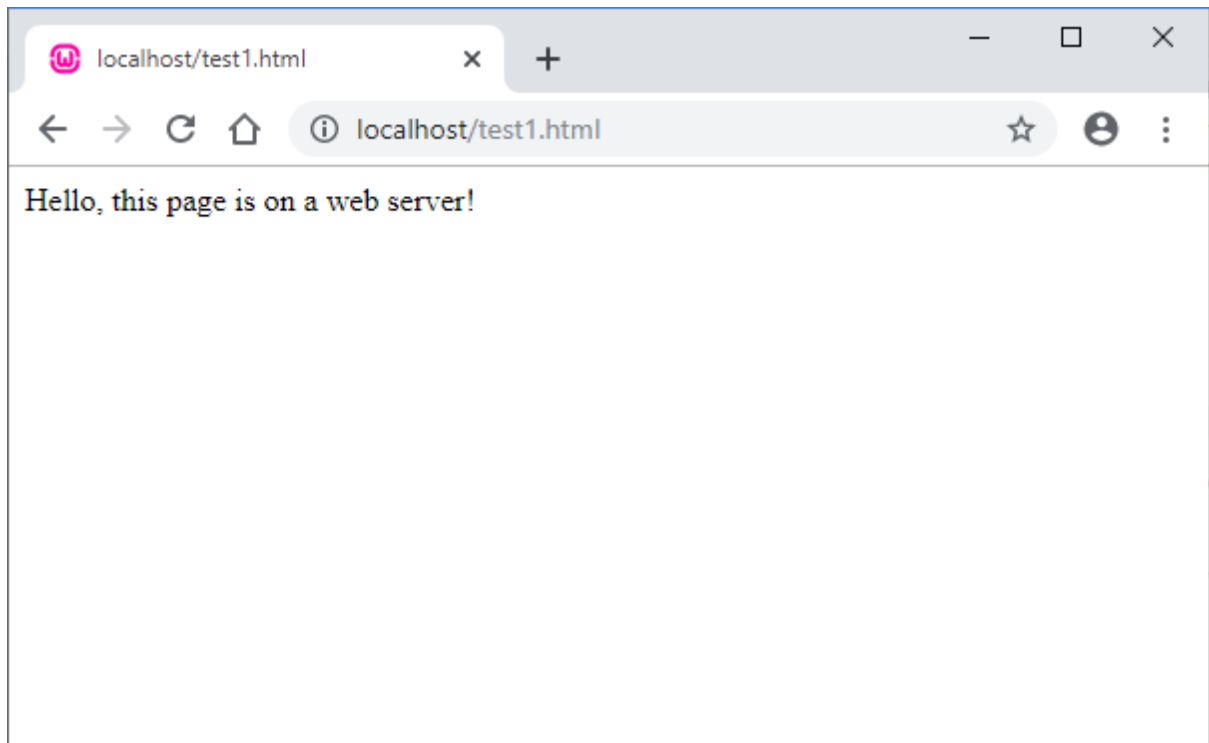
Here is the code

```
C:\wamp\www\test1.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
test1.html x
1 <html>
2
3 <head>
4 </head>
5
6 <body>
7 Hello, this page is on a web server!
8
9 </body>
10
11 </html>
12
length: 97 lines: 12 Ln: 7 Col: 37 Sel: 0 | 0 Windows (CR LF) UTF-8 INS
```

We have saved it to www-folder:



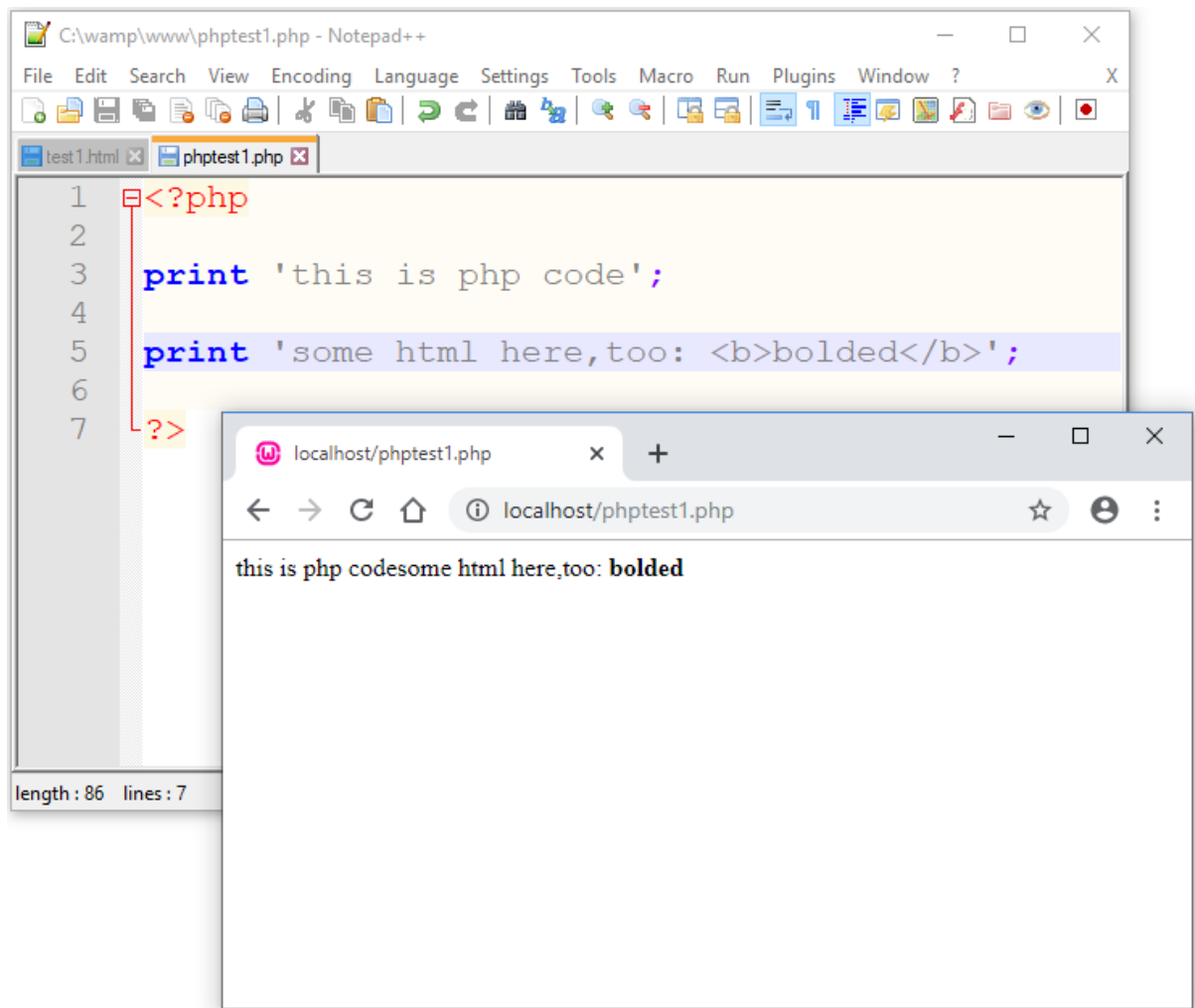
Now, open it to your browser:



Php files

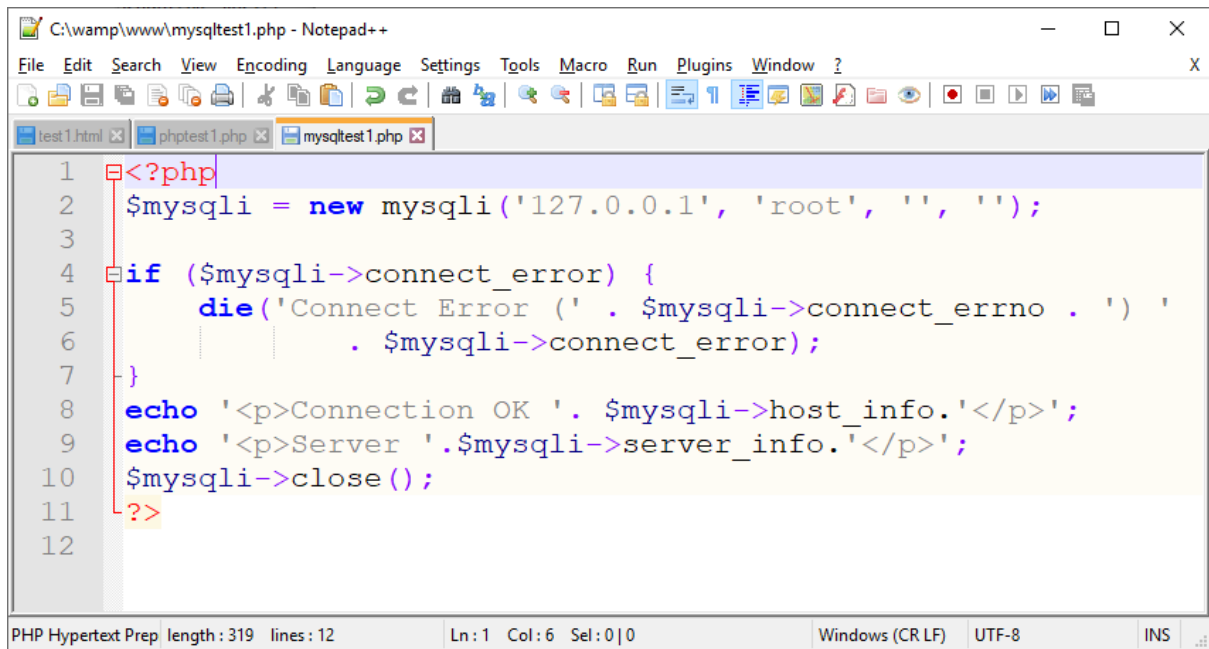
Then let's try the same with a php-file!

Follow this example:



MySQL

First we test the connection. Here is the code that tries to connect to a mysql server. If connection works, some info is printed. Otherwise you get an error message.



The screenshot shows a Notepad++ window titled 'C:\wamp\www\mysqltest1.php - Notepad++'. The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and ?. The toolbar contains various icons for file operations and editing. The tab bar shows three tabs: test1.html, phptest1.php, and mysqltest1.php. The main editor area contains the following PHP code:

```
1 <?php
2 $mysqli = new mysqli('127.0.0.1', 'root', '', '');
3
4 if ($mysqli->connect_error) {
5     die('Connect Error (' . $mysqli->connect_errno . ') '
6         . $mysqli->connect_error);
7 }
8 echo '<p>Connection OK ' . $mysqli->host_info.'</p>';
9 echo '<p>Server ' . $mysqli->server_info.'</p>';
10 $mysqli->close();
11 ?>
12
```

The status bar at the bottom displays 'PHP Hypertext Prep | length : 319 | lines : 12 | Ln : 1 | Col : 6 | Sel : 0 | 0 | Windows (CR LF) | UTF-8 | INS'.

Note the important line:

```
$mysqli = new mysqli('127.0.0.1', 'root', '', '');
```

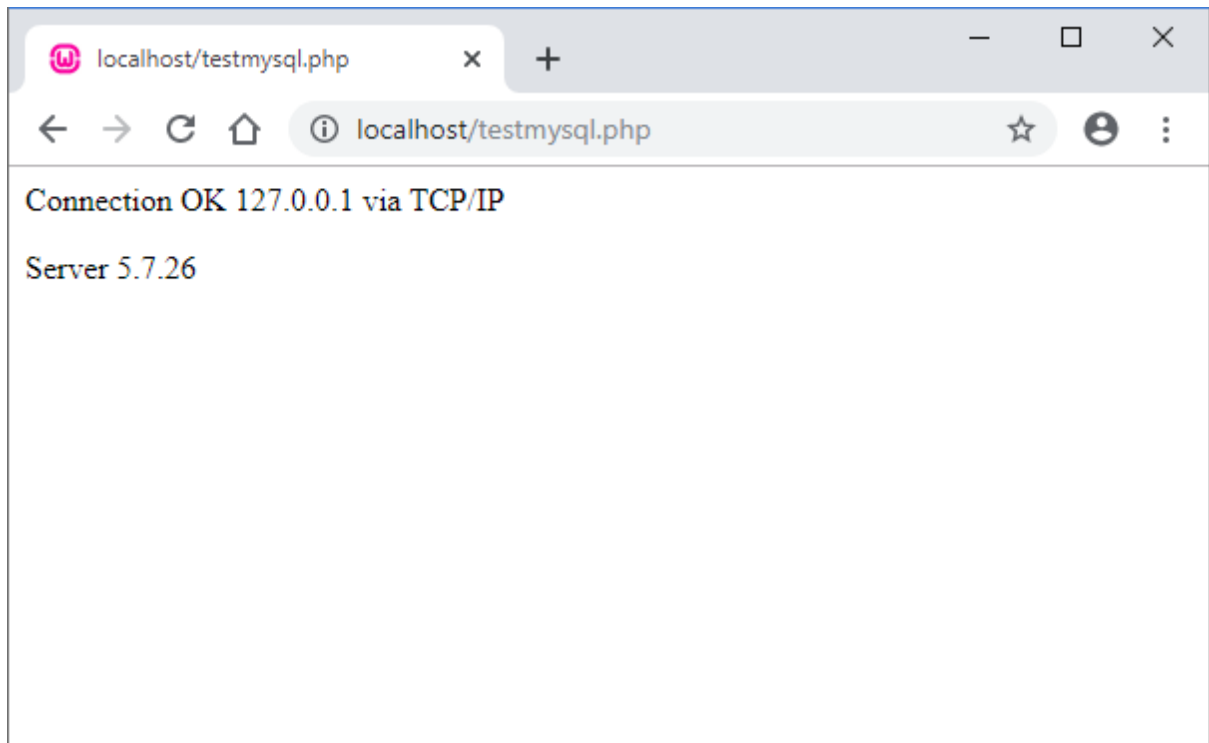
First there is the ip address of localhost.

Then is mysql server user name: root

And then comes root's password: empty

You can use the line in all of your assignments when you connect to a mysql server!

It works!



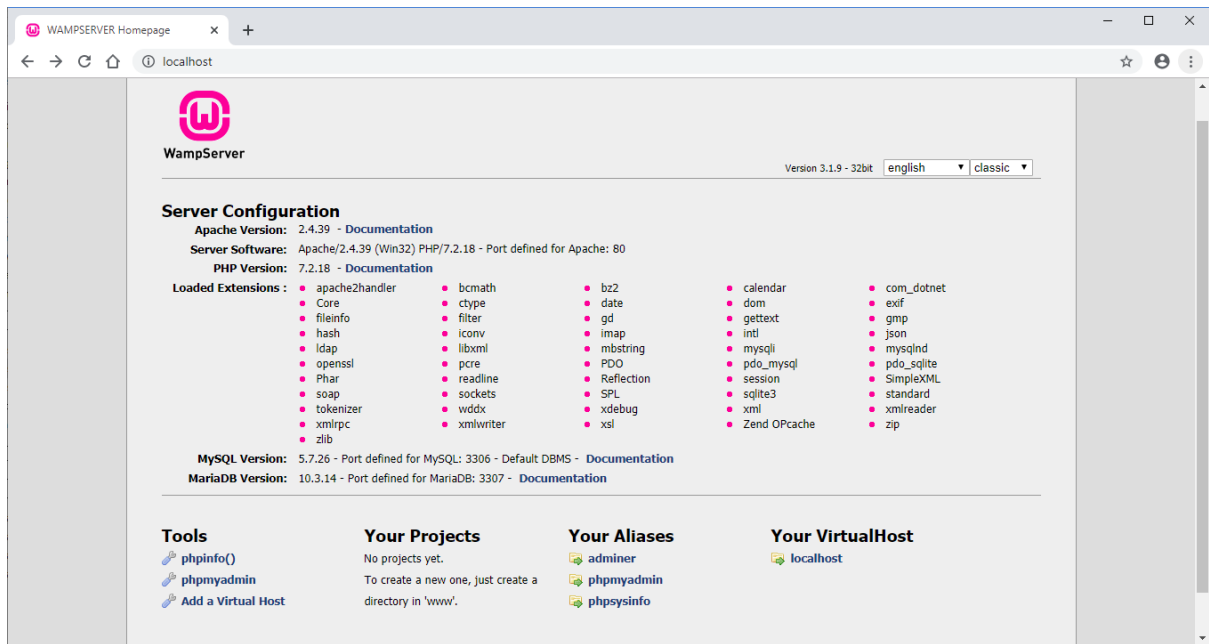
Now you have a mysql server in use: you can create

- o Databases
- o Tables and queries
- o Interactions between php files and mysql databases
- o And test your sql statements before you use them in php files

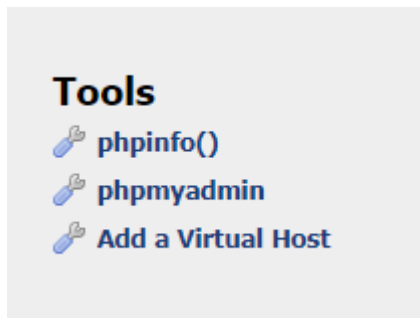
First we take a look at a very good database tool name phpMyAdmin.

[phpMyAdmin](#)

Open again localhost (the page is really named index.php):

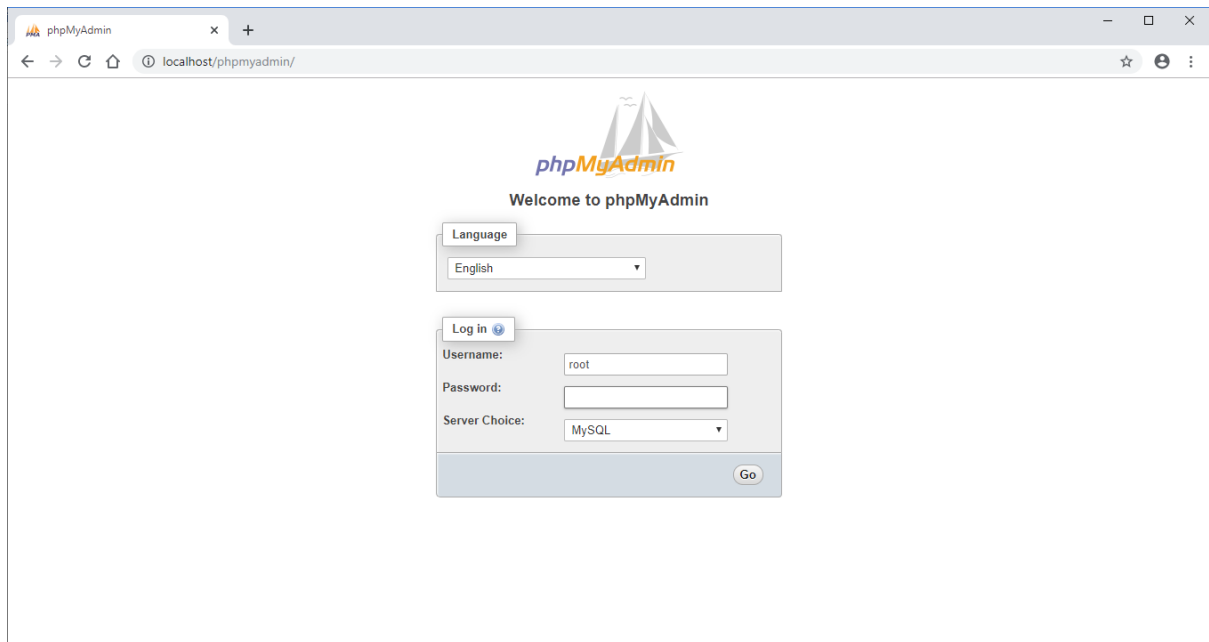


On the left you see block Tools

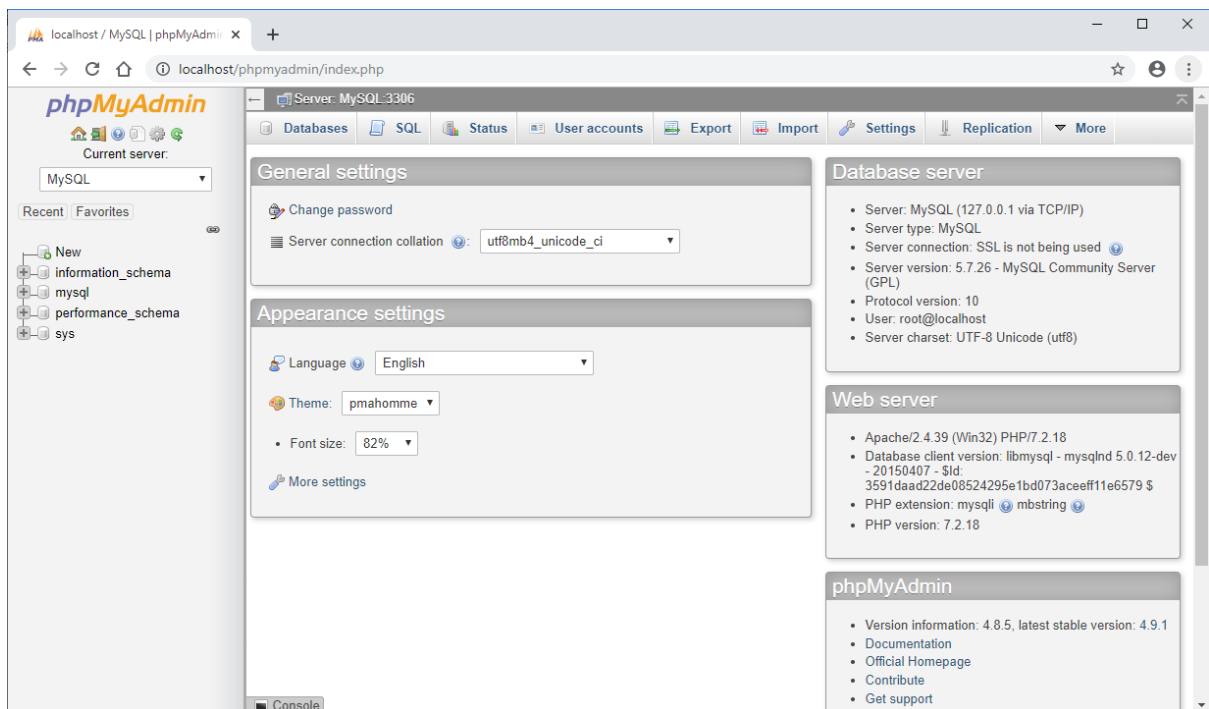


Click phpmyadmin

Log in



You see this



Here you can create databases and tables and do tests.

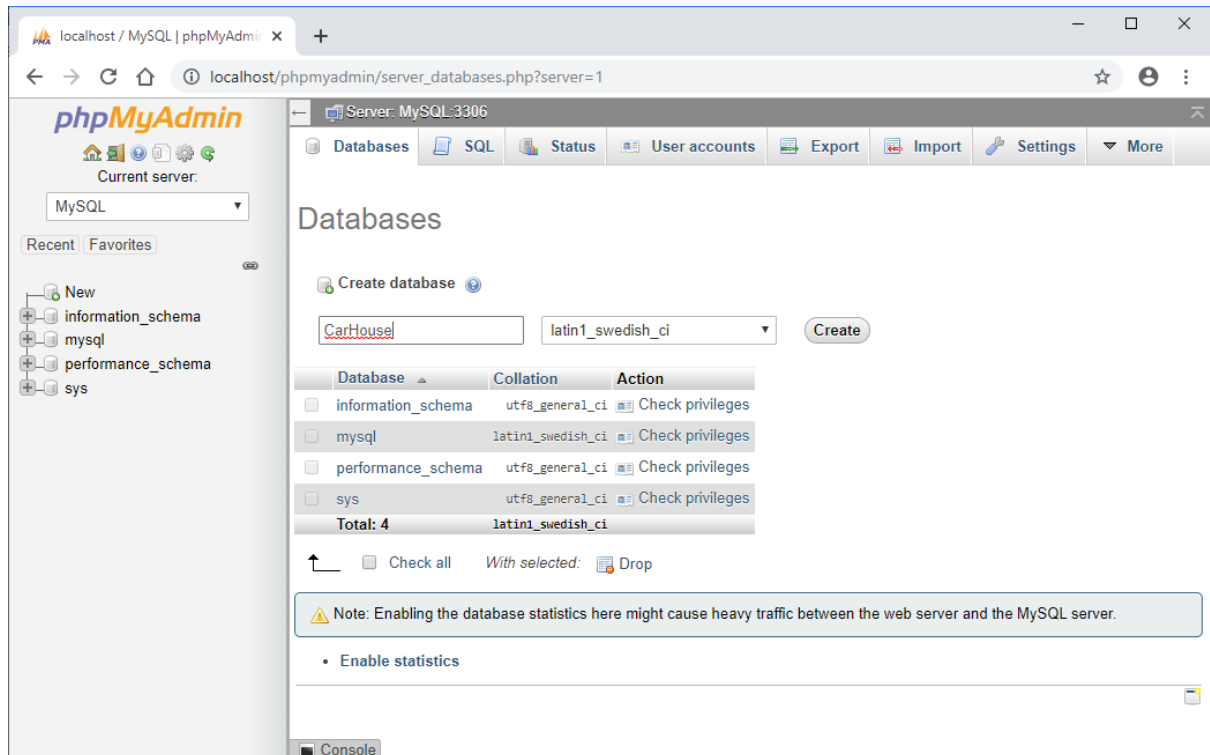
You can also test how well your php codes have worked...

PHP Part 2: task

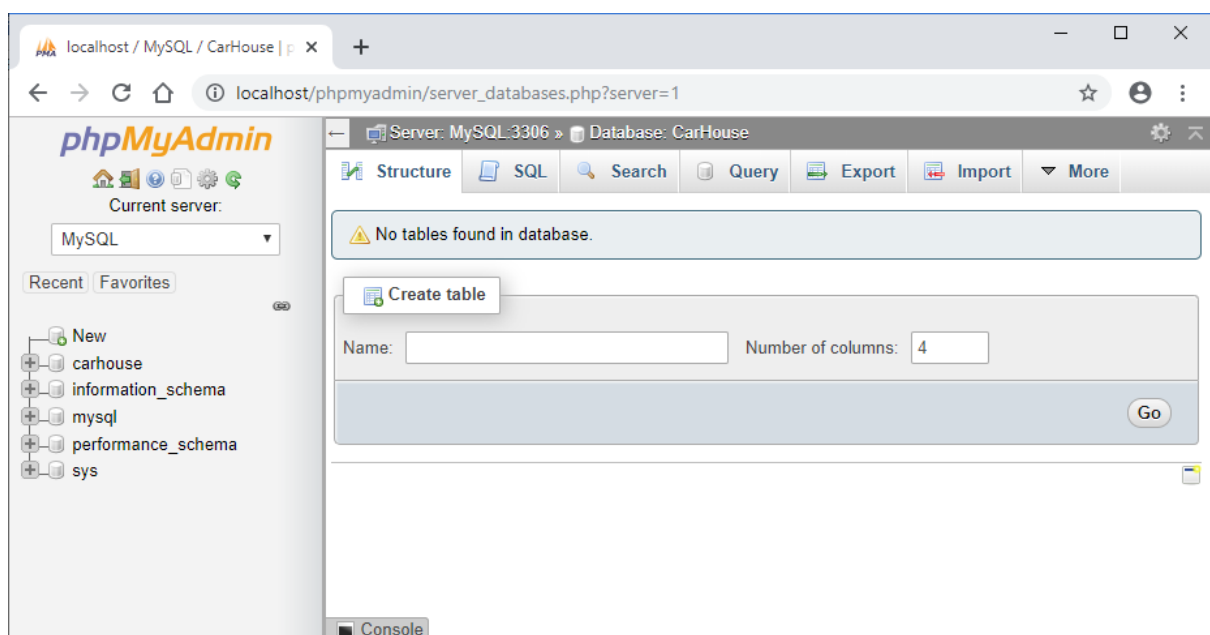
Your php task starts here!

Create a database

Create a new database called CarHouse



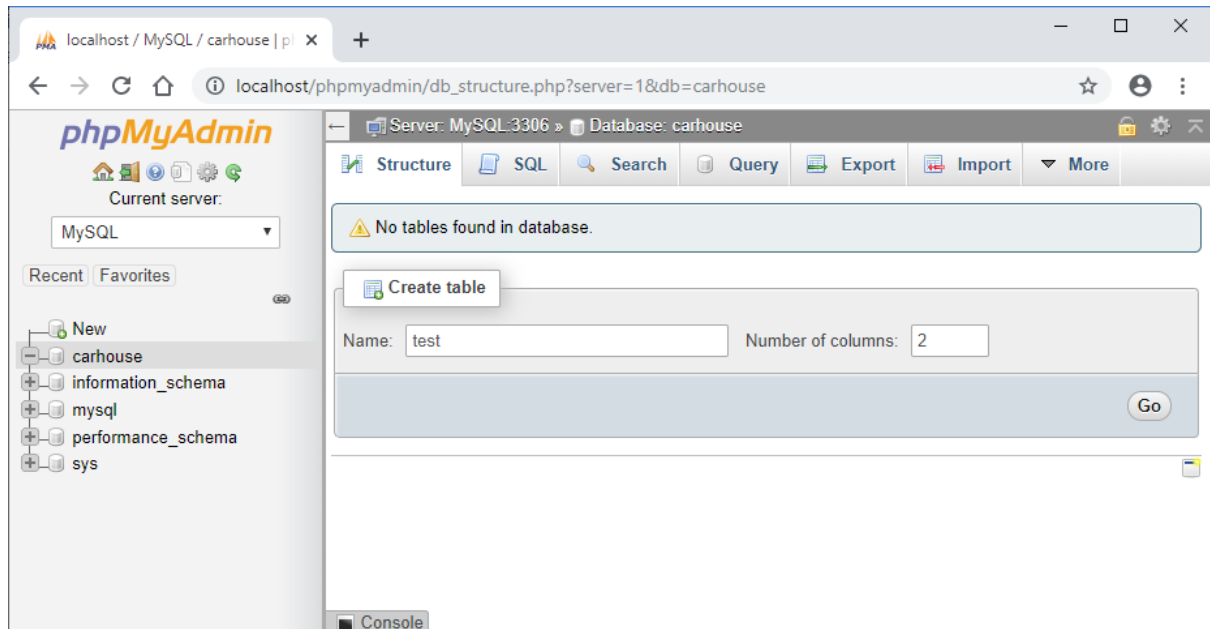
Now our tool wants us to create tables to our database, but we could cancel it now!



We want to use php code everywhere to learn to manipulate tables with code.

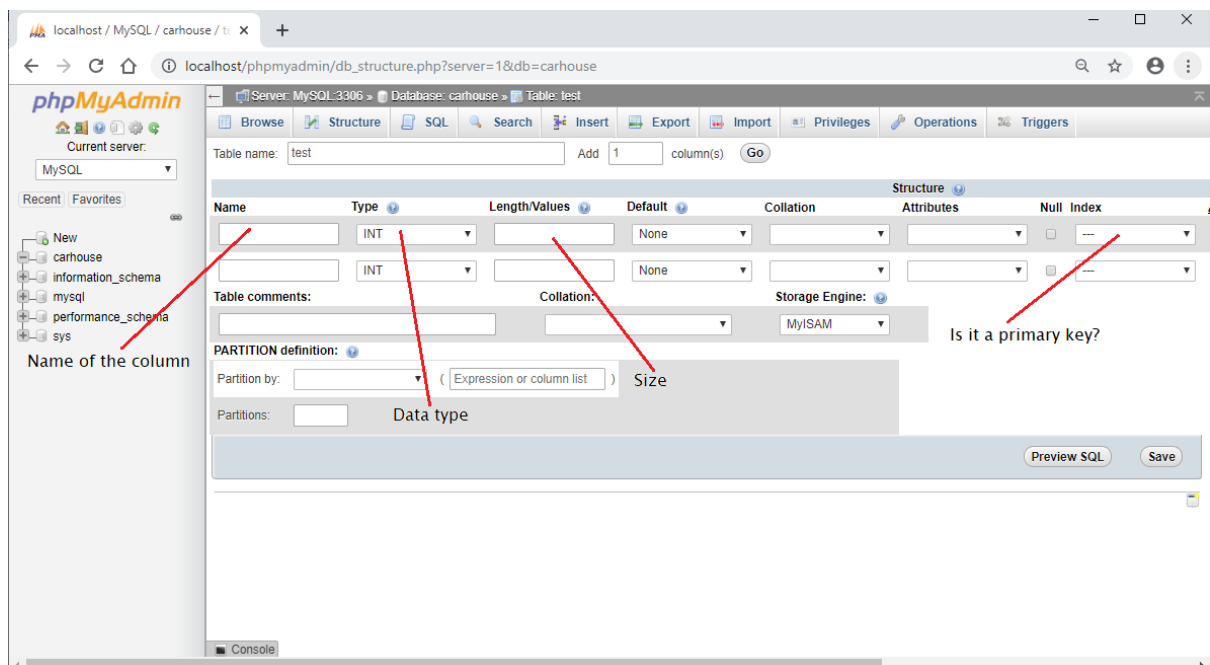
Creating a table for testing

However it is good to make tests: we can create a table called test with 2 columns:



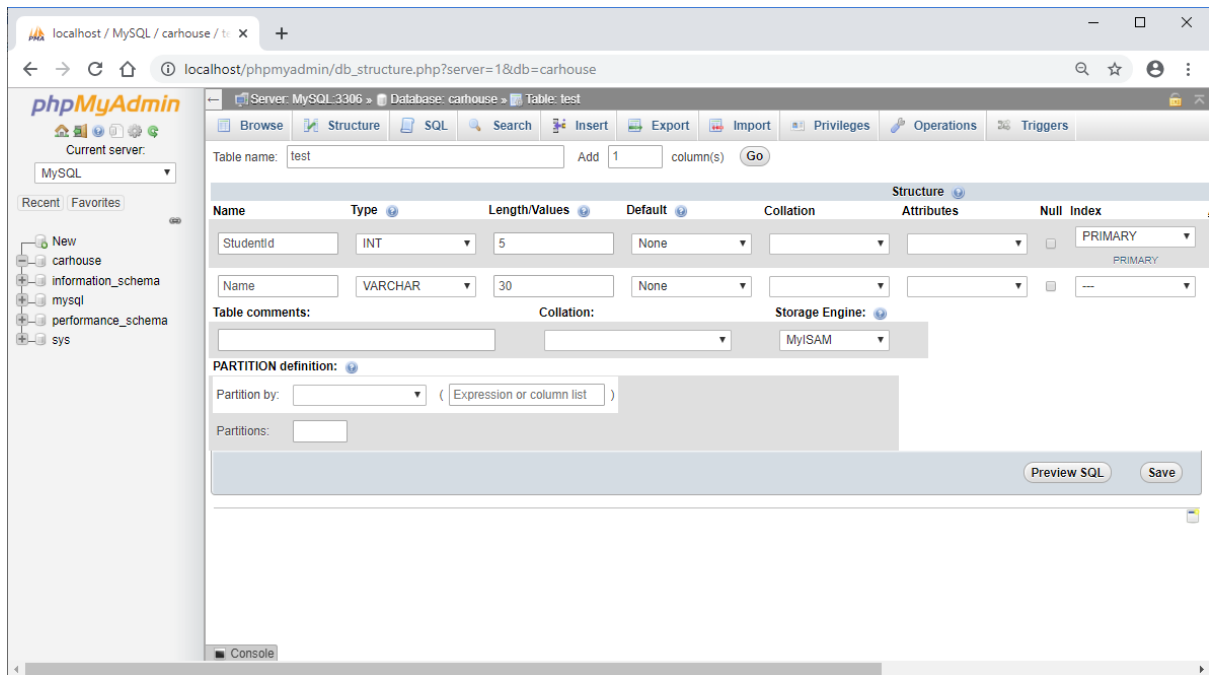
Click then go!

Now you can give information concerning columns (the are really table properties or fields):

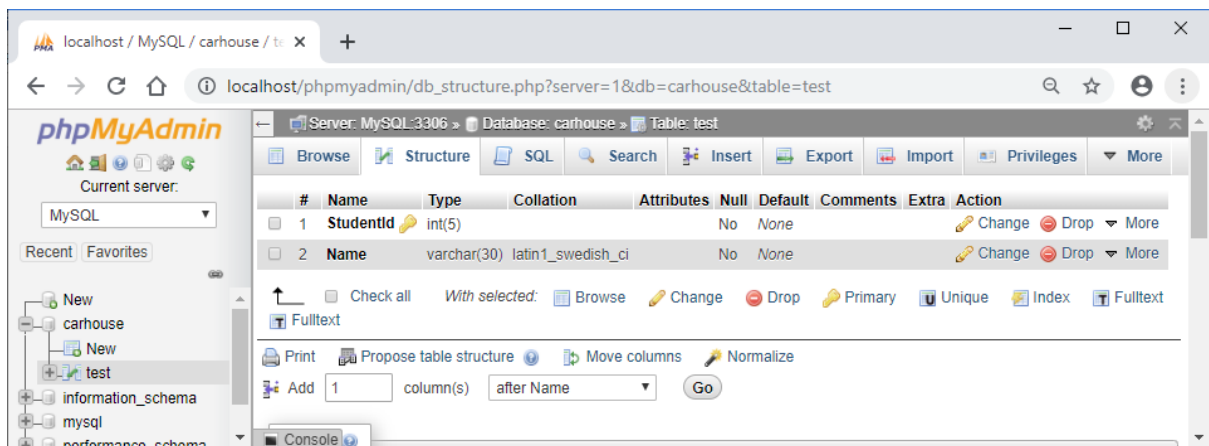


Add contents to test table

Let's give info

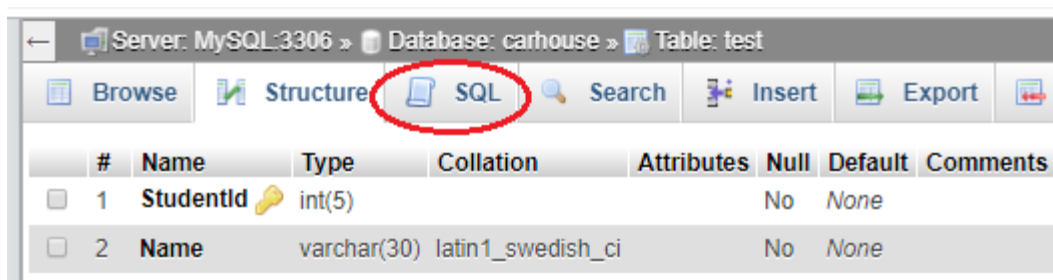


It is there:

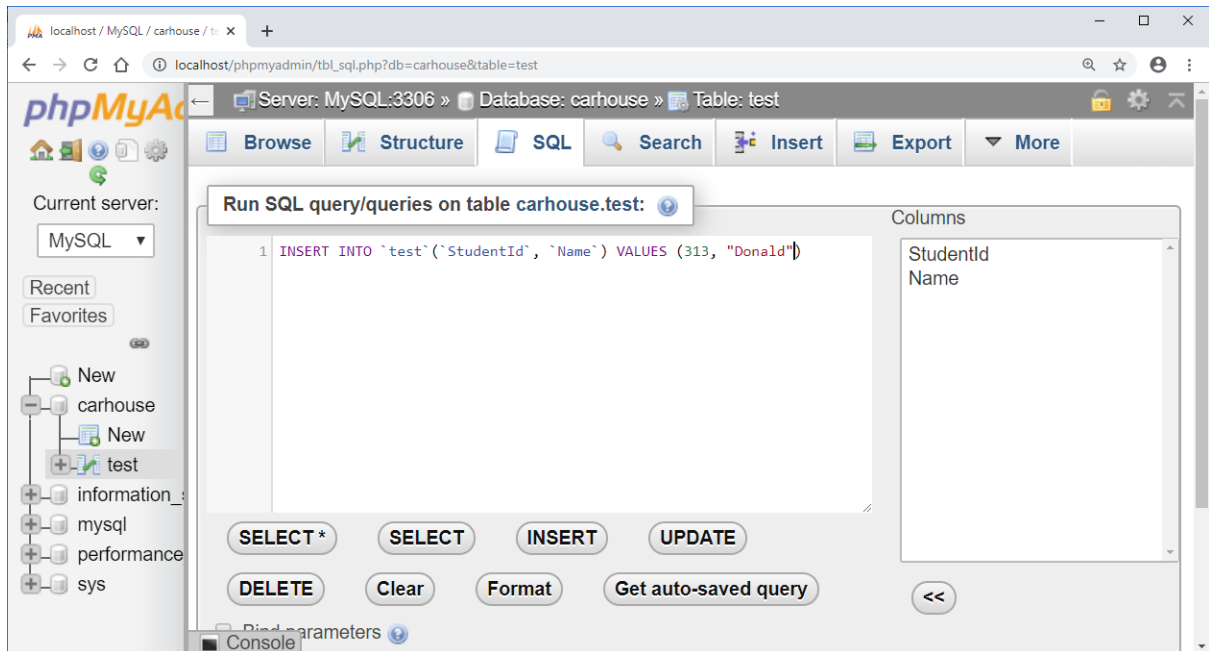


Testing sql staments

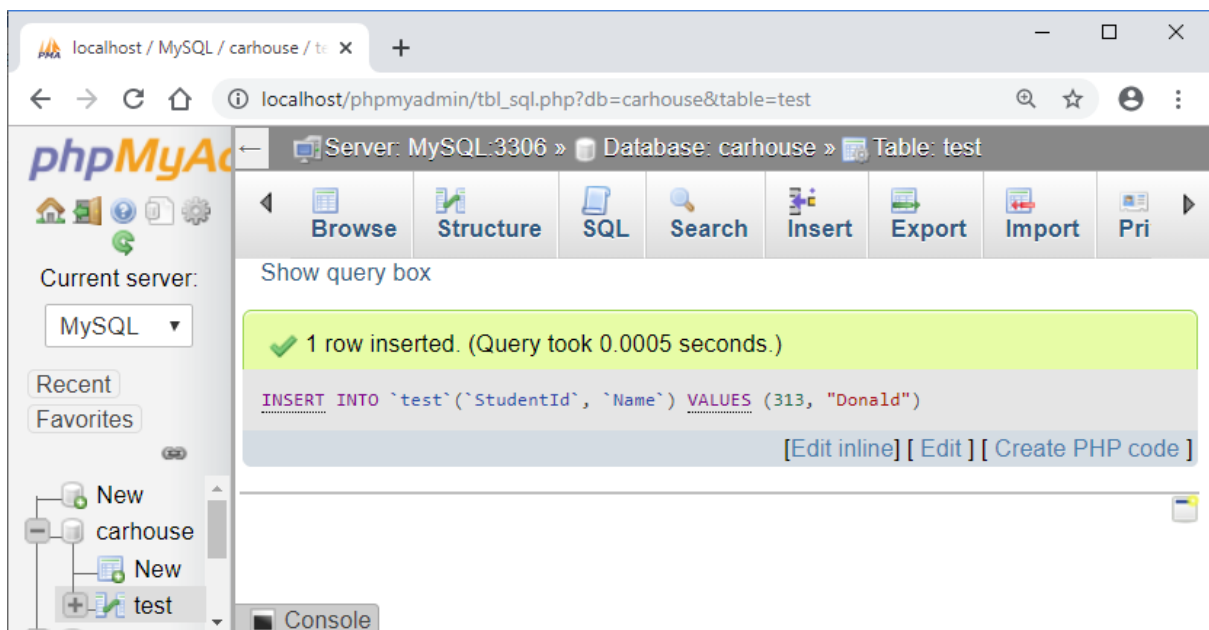
Try now some sql statements:



First we try to add data:

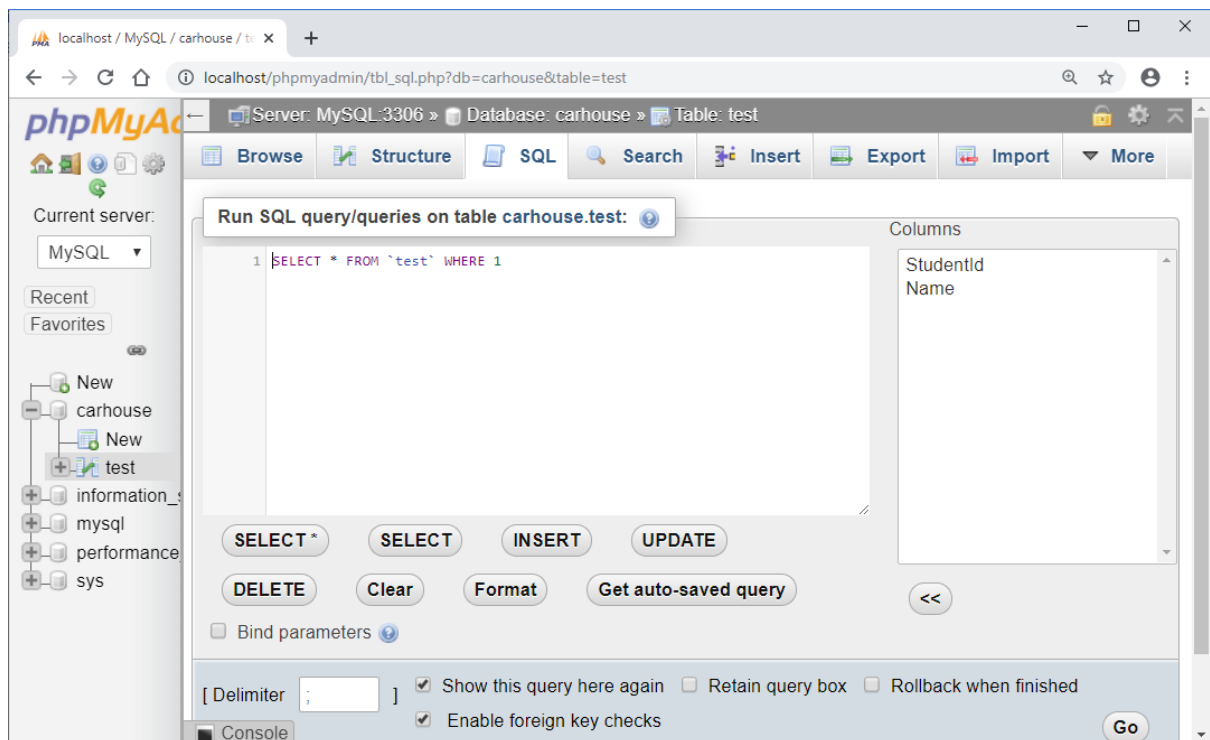


After clicking go, we get



Printing contents

After adding some rows we can print contents:



+ Options

	StudentId	Name
☐ Edit Copy Delete	313	Donald
☐ Edit Copy Delete	100	Pike
☐ Edit Copy Delete	1000	Synnöve

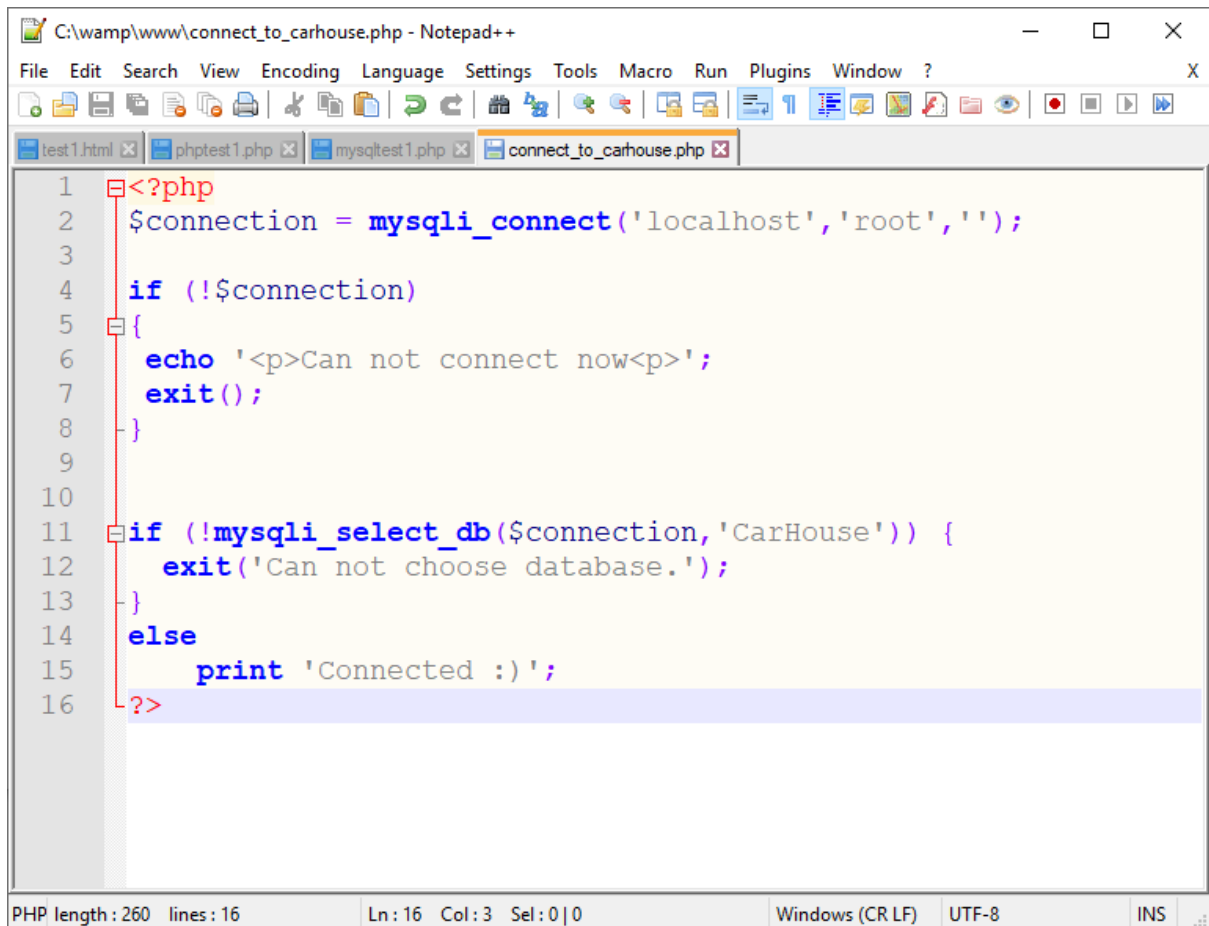
Check all With selected: Edit Copy Delete Export

[Back to the CarHouse and php](#)

Connection

Connecting to our database:

Create the code

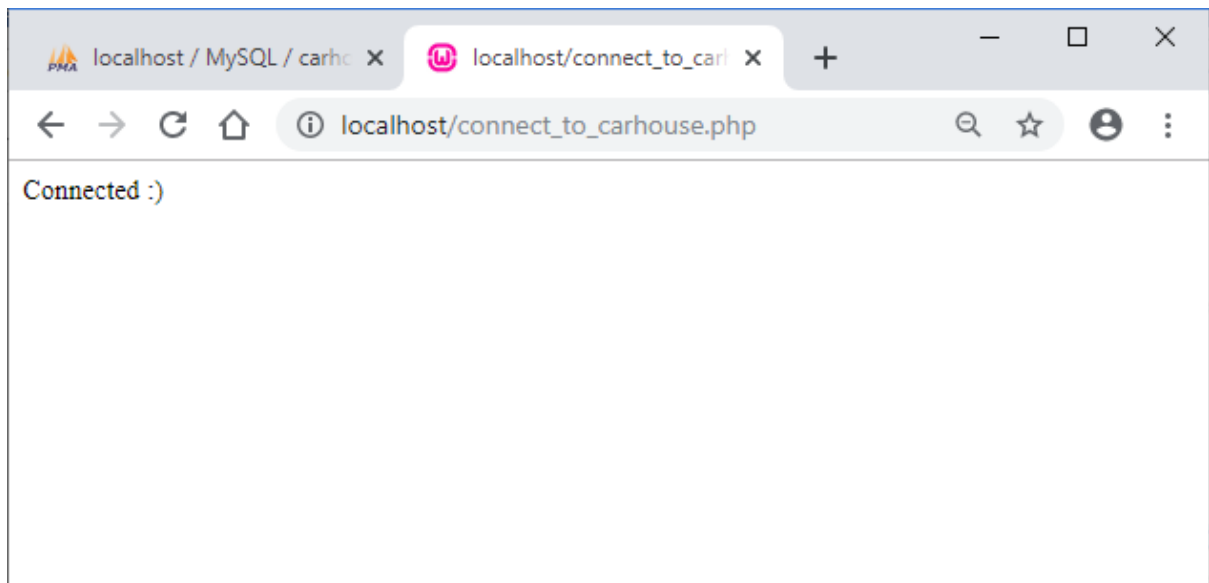


The screenshot shows a Notepad++ window with the file `C:\wamp\www\connect_to_carhouse.php` open. The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and ?. The toolbar contains various icons for file operations and development tools. The tab bar shows four open files: `test1.html`, `phptest1.php`, `mysqltest1.php`, and `connect_to_carhouse.php`. The code in the editor is as follows:

```
1 <?php
2 $connection = mysqli_connect('localhost','root','');
3
4 if (!$connection)
5 {
6     echo '<p>Can not connect now<p>';
7     exit();
8 }
9
10
11 if (!mysqli_select_db($connection,'CarHouse')) {
12     exit('Can not choose database.');
```

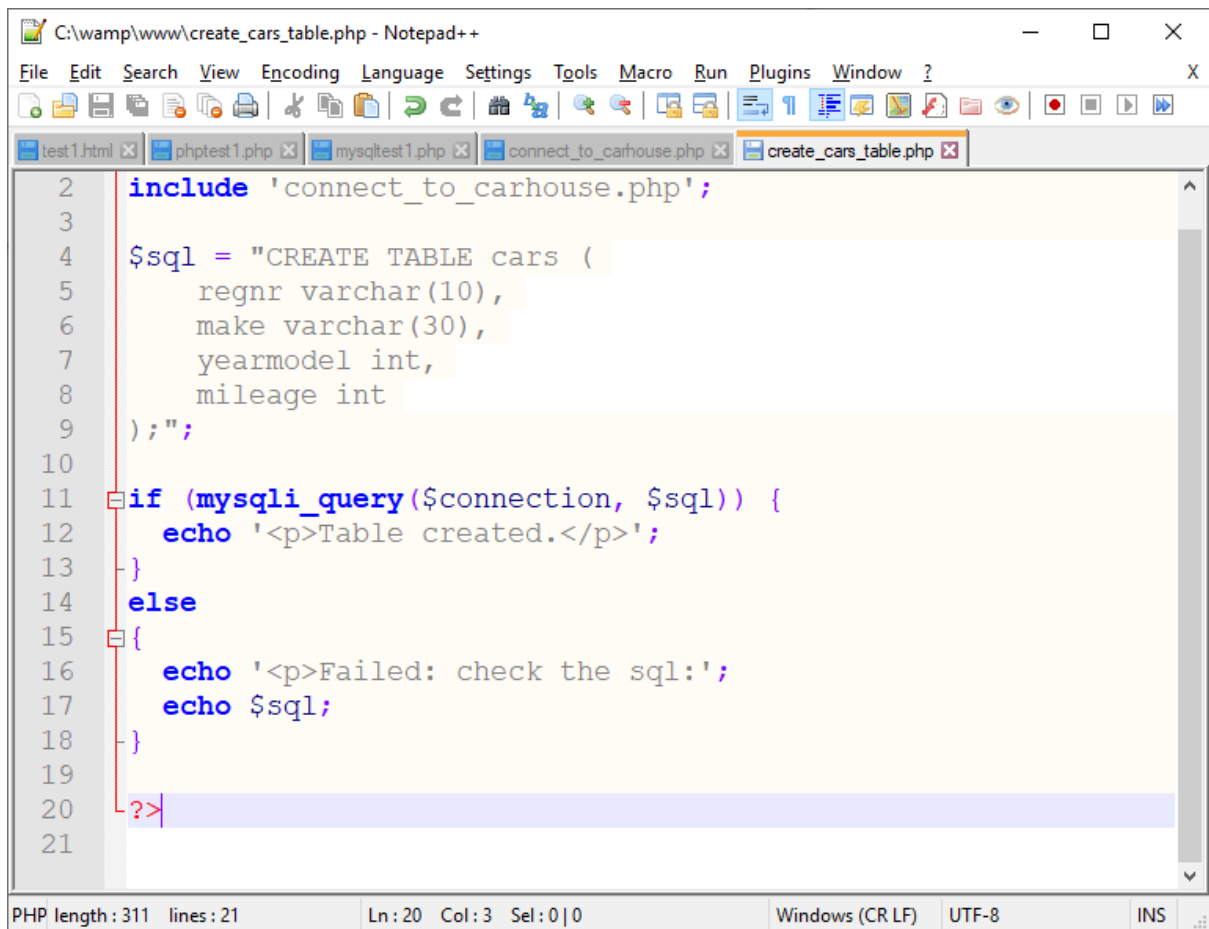
The status bar at the bottom indicates: PHP length: 260 lines: 16, Ln: 16 Col: 3 Sel: 0|0, Windows (CR LF), UTF-8, and INS.

Test it:



Creating cars table

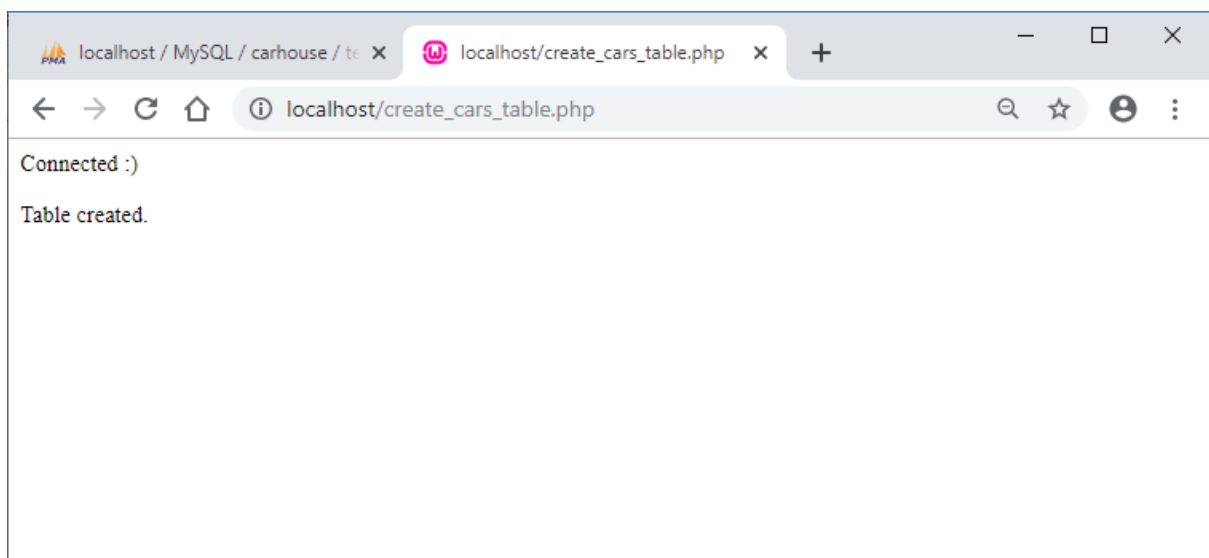
Now, let's create the table, cars:



```
2  include 'connect_to_carhouse.php';
3
4  $sql = "CREATE TABLE cars (
5      regnr varchar(10),
6      make varchar(30),
7      yearmodel int,
8      mileage int
9  );";
10
11  if (mysqli_query($connection, $sql)) {
12      echo '<p>Table created.</p>';
13  }
14  else
15  {
16      echo '<p>Failed: check the sql:';
17      echo $sql;
18  }
19
20  ?>
21
```

PHP length : 311 lines : 21 Ln : 20 Col : 3 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

Test it



Adding data to cars table

Let's add contents:

Here is the php code

```
<?php
$this_filename = $_SERVER['PHP_SELF'];
?>

<html>
<body>

<form action="<?php echo $this_filename; ?>" method="post">
Give car info: <br>

Register number:<br>
<input type="text" name="reg" size="10"> <br>
Make: <br>
<input type="text" name="make" size="30"> <br>
Yearmodell:<br>
<input type="text" name="year" size="5"> <br>
Mileage:<br>
<input type="text" name="miles" size="10"> <br>
Submit:<br>
<input type="submit" value="Submit"> <br>
Clear:<br>
<input type="reset" value="Clear All">

</form>

<?php
include 'connect_to_carhouse.php';
```

```

if (isset($_POST['reg']))
{ $m1 = $_POST['reg']; }
if (isset($_POST['make']))
$m2 = $_POST['make'];
if (isset($_POST['year']))
$m3 = $_POST['year'];
if (isset($_POST['miles']))
$m4 = $_POST['miles'];
settype($m3, "int");settype($m4, "int");
if (isset($_POST['reg']))
{
$sql =
"INSERT INTO `cars`(`regnr`, `make`, `yearmodel`, `mileage` ) VALUES ('$m1','$m2',$m3,$m4)";

if (mysqli_query($connection, $sql)) {
echo '<p>Data added.</p>';
}
else
{
echo '<p>Failed: ';
    // echo $sql; for testing ...
}

}

?>

```

Html form works as a user interface: it looks like this now:

The screenshot shows a web browser window with three tabs: 'localhost', 'localhost', and 'php PHP: se'. The address bar displays 'localhost/add_data_to_cars.php'. The page content includes a form with the following elements:

- Text label: "Give car info:"
- Text label: "Register number:" followed by a text input field.
- Text label: "Make:" followed by a text input field.
- Text label: "Yearmodell:" followed by a text input field.
- Text label: "Mileage:" followed by a text input field.
- Text label: "Submit:" followed by a "Submit" button.
- Text label: "Clear:" followed by a "Clear All" button.
- Text label: "Connected :)"
- Text label: "Data added."

Data is taken from textboxes.

An sql statement is created and executed.

Example of one run:

localhost / x localhost / x php: PHP: setty x +

localhost/add_data_to_cars.php

Give car info:

Register number:
ABC-112

Make:
Fiat 127

Yearmodel:
1988

Mileage:
34000

Submit:
Submit

Clear:
Clear All

Connected :)

Data added.

You can check the result also by opening mysqladmin:

localhost / MySQL / carhouse localhost/add_data_to_ x php: PHP: settype - Manual x +

localhost/phpmyadmin/sql.php?db=carhouse&table=cars&pos=0

Server: MySQL 3306 Database: carhouse Table: cars

Current server: MySQL

Recent Favorites

New carhouse New test information mysql performance sys

Options

regnr make yearmodel mileage

ABC-112 Fiat 127 1988 34000

Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

SELECT * FROM `cars`

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

Show all Number of rows: 25 Filter rows: Search this table

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

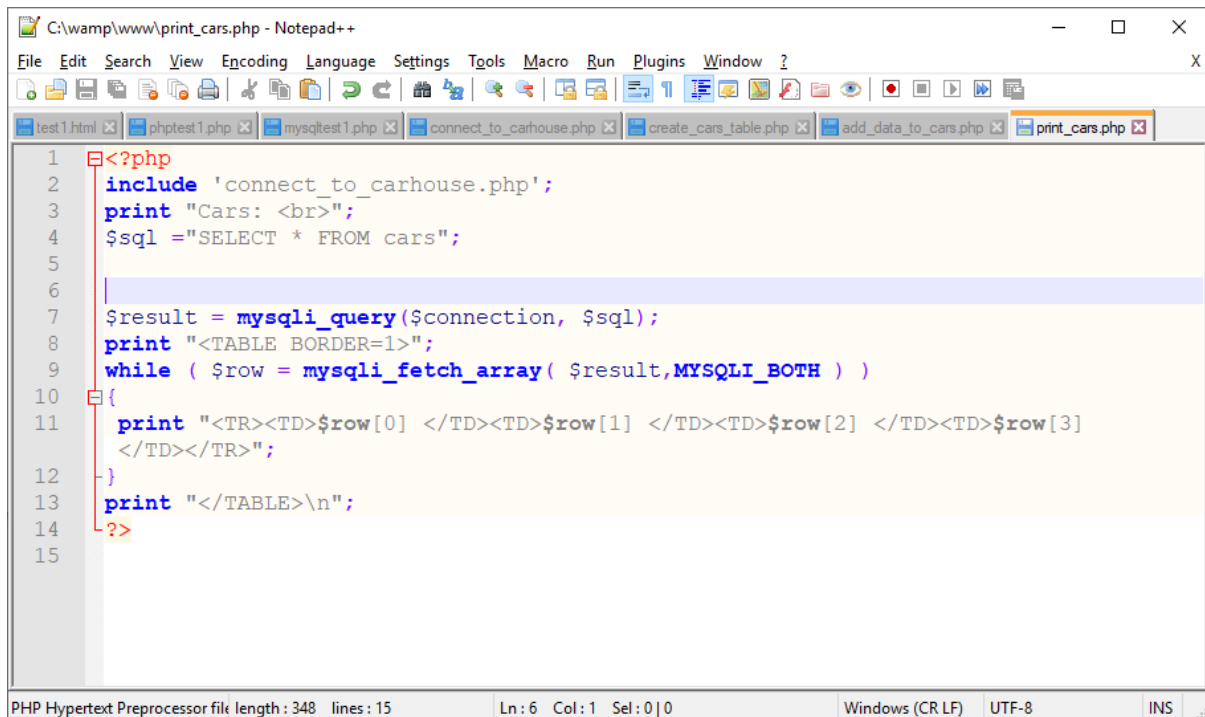
Print Copy to clipboard Export Display chart Create view

Console

Printing cars table

But: we want to use php to print contents:

Try the code



The screenshot shows a Notepad++ window titled 'C:\wamp\www\print_cars.php - Notepad++'. The code is as follows:

```
1 <?php
2 include 'connect_to_carhouse.php';
3 print "Cars: <br>";
4 $sql = "SELECT * FROM cars";
5
6
7 $result = mysqli_query($connection, $sql);
8 print "<TABLE BORDER=1>";
9 while ( $row = mysqli_fetch_array( $result,MYSQLI_BOTH ) )
10 {
11     print "<TR><TD>$row[0] </TD><TD>$row[1] </TD><TD>$row[2] </TD><TD>$row[3]
12     </TD></TR>";
13 }
14 print "</TABLE>\n";
15 ?>
```

The status bar at the bottom indicates: 'PHP Hypertext Preprocessor file length : 348 lines : 15', 'Ln : 6 Col : 1 Sel : 0 | 0', 'Windows (CR LF)', 'UTF-8', and 'INS'.

Assignments

a)

Create first CarHouse database

Create cars table

Add information to cars table

Print contents

b)

You need a form where you type the car value (e.g. register number).

Then if there is a value you can search the car using sql and then print results.

c)

Nearly same code as above.

Bonus

Add extra features to you car application OR
create your own database application!

Using [Awardspace](#), [000WebHost](#) or other webserver

Procedures are similar as with WAMP.

Awardspace screen

Create MySQL Database

Create PostgreSQL Database

Create MySQL Database

Database Name

2941403_name

Database Password ⓘ

(8-32 alphanumeric chars)

Please provide a password.

Confirm Database Password

(8-32 alphanumeric chars)

Database Version

5.7

Create Database

All Databases

MySQL Databases

PostgreSQL Databases

Search filter:

Name	User	Host	Port	Quota
+ 2941403_kauko1	2941403_kauko1	fdb26.awardspace.net	3306	Available: 30 MiB Used: 84 KiB

000WebHost screen

water-cooled-office

Current site | Free

Dashboard

Tools >

Website Settings >

Databases

MySQL Database

phpMyAdmin