

Chapter 11: PHP and MySQL

Objectives

- Use PHP and MySQL to connect to a database locally
- Use PHP and MySQL to connect to a database on a webhost
- Use PHP and MySQL to display data locally
- Use PHP and MySQL to display data on a webhost

Introduction

What to read

Read the entire chapter.

We blew through the database chapters 8 - 10. That is purposeful because we want to concentrate on PHP programming. The important part is knowing how to set up your databases locally and on a webhost; writing queries is offered in CTI 110, DBA 110 and DBA 120. I will provide all of the SQL that you need in order to run any queries once we are using PHP and MySQL together. You can use these chapters as a reference or visit W3Schools, MySQL manual or post to the forum for additional information. This chapter covers a lot of ground with a limited number of pages.

Prepared and bound statements

There is some difficult material in this chapter and I will provide a couple of video tutorials that will help explain *how* the prepared statements work. Suffice to say that you can just copy the material as is for now and it will work.

Bookorama and bowling

We will build on the chapter by getting PHP to work with the bookorama database and a new database (borrowed from CTI 110) called bowling.

Bookorama in the development environment

Last assignment we set up the **bookorama** database locally and on your webhost.

Local (development environment)

Create a new folder named **ch11** and store it in your **my-code** folder.

Create a new folder named **bookorama** and save it in your **ch11** folder.

Copy the contents from the author's code from chapter 11 and place it in your **bookorama** folder. I have also placed a zipped file with these contents in Moodle.

Modify the author's code that connects to the database so that it uses your credentials. This material is found on page 277. For those of you with the e-book it is in the section titled **Setting up a connection** and contains the line

```
$db = new mysqli('localhost', 'bookorama', 'bookoramal23',  
'books');
```

Catalog search

Make sure that XAMPP has both PHP and MySQL running.

Try the bookorama catalog search (figure 11.2). Troubleshoot if the program is not running correctly.

Putting new information in the database

Continue reading through the chapter and see if you are able to add a new record to your database.

Once successful with this section it is time to push this to your webhost.

Bookorama on your webhost

Your database should be set up on your webhost from the previous assignment.

Change the database connection information so that it works with your webhost. In my case I'll need to change the database name from **bookorama** to **charlxxx_bookorama**. This should be the only file you will need to change when you push your files to your host.

After uploading to your host, check to make sure that the code runs as expected. You should be able to use the search feature and the insert a new book entry.

What about all that prepared statement stuff?!

There is a lot of information about adding some security to your site. This is pretty technical stuff. We will go over it in class and in addition I will provide some video tutorials on how it works. Just go with it for now.

Submitting Your Work

Hold on to your code for today and just get it working. I'll add this to Moodle next. Sorry... running out of time.

Also, the bowling part will come soon too!