DATABASE DEMO

COPYING TO WEB

The first task is to copy the necessary files over to the web folder.

Located on the USB are some extra files that we will be using.

THE FILES:

Show these files

- conne3ct_db.php   connects to the database
- db_table_create.sql   creates tables
- detail.php   a second page for your web site
- php1.txt   php commands to cut and paste

You should already have these files:
- index.html
- style.css

MOVE THE FILES

- Open a File Explorer window and open it to:
  - *Flash Drive*\01 Web Programming\My Files

- You should see the index.html and style.css files from the first session

- Open a second File Explorer window and open it to Desktop\zwamp\vdrive\web

- Place the File Explorer windows side by side.

- Drag and drop index.html and style.css to the other folder.

From the File Explorer window that is looking at the empty Web Programming folder:

- go up two levels

- click on the "02 Database" folder

- click on the Starting Files folder

- copy all of the files from this folder

- paste them in the Desktop\zwamp\vdrive\web folder

- close the File Explorer that is looking at the database starting files

We're ready to start!

WHAT IS A DATABASE?

A database is a collection of well organized lists. We use databases to save large amounts of complicated information, or information that we want to change quickly and easily.

So what's up with the list of items on your web pages? Can you add or change those items easily?

Not really, you need to edit your file every time you want to make some changes. We want to make this easier.

We need to build 3 things to make this work.

1. A web page – Hey we already built that!

2. A database

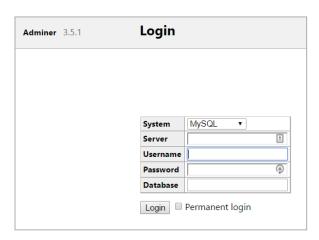3. Some programming code to connect the two together.

CREATE A DATABASE

- Find the folder **zwamp** on your desktop.

Z-WAMP is a web-server package that runs on Windows. It also includes a database server, which is what we are going to use right now.

- Open the folder and double click on **zwamp.exe**

- Close the zwamp window

- Go to the task bar
  - Right-click on the house
  - Click on Tools
  - Click on Adminer

- Sign in to MySQL
  - username: root
  - no password
  - click Login button

You should see this screen:

- Let's create a database

  - click on "Create new database"

  - text box (this is the database name): **techcamp**

  - collation: **utf8_bin**

Database Name and **Collation** must match the notes exactly or your web page won't be able to find the database.

  - click on the Save button

  - should get a green message: Database has been created.

Now we have a database.

A database is just a container for our lists.

The lists are called tables.

Now let's create a table.

- Click on "SQL Command"

- Open **db_table_create.sql** in the text editor

- Copy and paste all of the text to the SQL Command window

- Click on the EXECUTE button

- You should see a series of green success messages. Yay!!

- click on techcamp at the top

    o you can see the tables in the database

- click on db_table

    o you can see the column names

We have a database and a table! Hurrah!

Now we just have to connect the web page to our database

We do that by adding some new code to the web page

PHP

PHP is code that can be added to an HTML file.

This new kind of code will let us perform more complicated actions such as connecting to a database.

- Find your copy of **index.html**

- Rename it to **index.php**

- Open a browser window

- in the address line type: localhost/index.php

- There's your form

- Open **index.php** in a text editor

We're going to replace the list you created with a list of information from the database.

- Find your list of Pokémon (a group of <li> tags) and delete them.

  o **Do not delete the <ul> tags**

- Save the file and refresh the page. There's nothing there.

- Open php1.txt

  o Copy everything from this file.

- Paste the text between the \ and \ tags.

- Refresh the page.

There's still nothing there. The table is empty. Remember that form you created on your web page?

- Fill in the form. Click on the "Create" button.

- Do you see your new list item? Great! Now double-click on it.

  - Surprise! We added an extra page called detail.php to display the extra information about your Pokémon.

BEFORE YOU GO

Let's save your files.

All the work you have done in this session should be in:

  Desktop\zwamp\vdrive\web

- Use Windows Explorer to find this folder.

- Copy and paste all of the files in this folder to:

  - Flash Drive\02 Database\My Files