

Lab 4: Characters Database

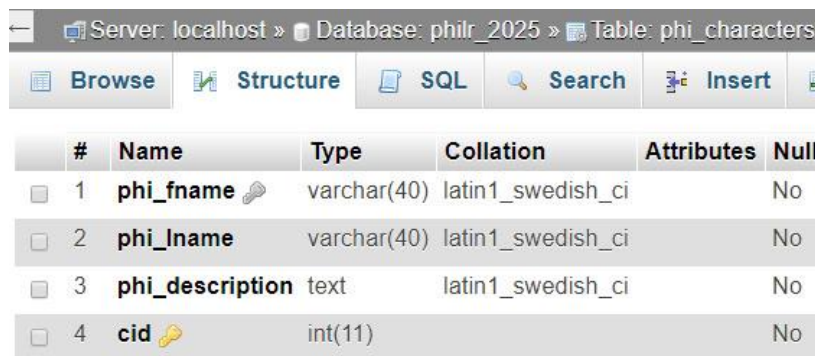
Overview: Based on the lessons creating a simple database of fictional characters, please create your own database of any fictional characters (other than the Simpsons which we used in class) and submit it for marks. DO NOT use the Simpsons characters, but use any other fictional characters.

- Instead of using the homepage (index.php) to list your characters, please use another page (list.php) to do that, and use index to create a brief introduction to your project (a couple paragraphs).
- It is recommended you use the Bootstrap template that your instructor will explain in class.
- For this Lab, a secure login will not be required. In real applications however, we must secure all admin functionality.

Submission:

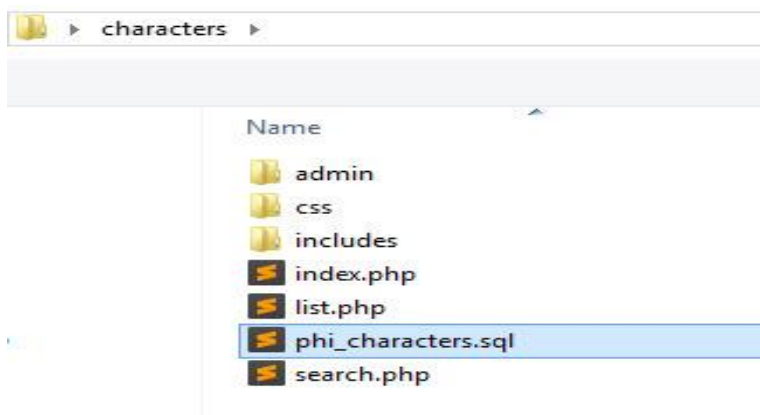
Due to a significant number of students that are submitting assignments that are partially or mostly created by their friends, we will insist that each student create a database table where **both the name of the table and all columns** (except primary key) **are prepended (added to the front of) by the first 3 letters of their username**. Use underscores and not hyphens. This will hopefully enforce that each student is creating an original work, and not just making a few changes to someones else's work. This should also create an environment of thinking more about one's own project and less of typing what the instructor types.

Here is an example. The student with a username of **philir** will create this table called **phi_characters**:



The screenshot shows the phpMyAdmin interface for a database named 'philir_2025'. The table 'phi_characters' is selected. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null
1	phi_fname	varchar(40)	latin1_swedish_ci		No
2	phi_lname	varchar(40)	latin1_swedish_ci		No
3	phi_description	text	latin1_swedish_ci		No
4	cid	int(11)			No



Also, each student will submit not only the URL and htaccess info for their project, but will Export the Table and add that to their project folder which will be zipped and uploaded to Moodle.

The instructor can then examine the code and database table to make sure it is an original creation.

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Mark out of 10 will be given. Worth 10% of final. Marks deducted for missing, incomplete, or nonfunctional aspects.

1. All functionality : *4 marks*
 - Create (insert)
 - Read (list)
 - Update (edit)
 - Delete
 - Search
2. Content: Please create a home page (index.php) that introduces what this project is about.
 - Please make sure your project is populated with real content and at least 10 fictional characters. *2 marks*
3. Visual layout & usability: *3 mark*. Marks deducted for anything lacking.
 - Validation on all form elements makes sense. Must be PHP validation, NOT browser.
 - Minlength and maxlength make sense for this.
 - User error messages must be present and helpful.
 - Make sure the overall layout is a typical desktop-friendly and modern standard layout.
 - All navigation links are present.
 - Please align and style all forms.
 - Output should be nicely styled. Delineate output so that each character has a unique containing element that visually sets it apart.
 - You do NOT have to copy the screen shots shown below. Please do your own design.
4. **Challenge** *1 mark* - Figure the following out on your own: Select any of the following for 1 mark.
 - Have some kind of confirmation before you delete a character. This can be done easily with Javascript (it's called a *confirm* or *prompt*). Look for *inline JS confirm* as this can be done easily with an embedded JS without creating a function in the script tag.
 - Research both MySQL Random and Limit: Create a query that dynamically displays a random sample character information on the homepage (index.php).

SEE MOODLE FOR DUE DATES

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Screen shots are shown for functional guides only. **Do NOT copy the design.**

Home page (index.php)

Simpsons Characters DB

by Phil

[Home](#) | [List Characters](#) | [Insert Character](#) | [Edit](#) | [Search](#) [Logout](#)

Simpsons Characters Home

The Simpsons is an American animated sitcom created by Matt Groening for the Fox Broadcasting Company. The series is a satirical parody of a middle class American lifestyle epitomized by its family of the same name, which consists of Homer, Marge, Bart, Lisa, and Maggie. The show is set in the fictional town of Springfield and parodies American culture, society, television, and many aspects of the human condition.

This project is a simple lesson in PHP/MySQL web development. It demonstrates a basic MySQL database CRUDS (create-read-update-delete-search) application. Other PHP techniques we have learned such as form styling and validation, use of PHP "includes", and securing admin pages, are all used in this app.

Marge Simpson

Marjorie "Marge" Jacqueline Simpson (née Bouvier) is a fictional main character in the American animated sitcom The Simpsons and part of the...

list.php

Simpsons Characters DB

by Phil

[Home](#) | [List Characters](#) | [Insert Character](#) | [Edit](#) | [Search](#) [Logout](#)

List Characters

Homer Simpson

Homer and his wife Marge have three children: Bart, Lisa, and Maggie. As the family's provider, he works at the Springfield Nuclear Power Plant. Homer embodies several American working class stereotypes: he is crude, overweight, incompetent, clumsy, lazy, a heavy drinker, and ignorant; however, he is essentially a decent man and fiercely devoted to his family. Despite the suburban blue-collar routine of his life, he has had a number of remarkable experiences.

In the shorts and earlier episodes, Castellaneta voiced Homer with a loose impression of Walter Matthau; however, during the second and third seasons of the half-hour show, Homer's voice evolved to become more robust, to allow the expression of a fuller range of emotions. He has appeared in other media relating to The Simpsons – including video games, The Simpsons Movie, The Simpsons Ride, commercials and comic books – and inspired an entire line of merchandise. His signature catchphrase, the annoyed grunt "D'oh!", has been included in The New Oxford Dictionary of English since 1998 and the Oxford English Dictionary since 2001.

[Edit](#)

Bart Simpson

At ten years old, Bart is the eldest child and only son of Homer and Marge, and the brother of Lisa and Maggie. Bart's most prominent character traits are his mischievousness, rebelliousness and disrespect for authority.

[Edit](#)

Lisa Simpson

At eight years old, Lisa is the second child of Homer and Marge, younger sister of Bart and older sister of Maggie. She is highly intelligent and plays the baritone saxophone. She has been a vegetarian since season 7, converted to Buddhism in

insert.php

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Simpsons Characters DB

by Phil

[Home](#) | [List Characters](#) | [Insert Character](#) | [Edit](#) | [Search](#) [Logout](#)

Insert New Character

First Name:

Last Name:

Description:

edit.php

Simpsons Characters DB

by Phil

[Home](#) | [List Characters](#) | [Insert Character](#) | [Edit](#) | [Search](#) [Logout](#)

Edit Character

First Name:

Last Name:

Description:

Characters

- [Homer Simpson](#)
- [Bart Simpson](#)**
- [Lisa Simpson](#)
- [Barney Gumble](#)
- [Marge Simpson](#)
- [Patty Bouvier](#)
- [Selma Bouvier](#)
- [Kent Brockman](#)
- [Stuart "Disco Stu" Discotheque](#)

DMIT2025 – PHP/MySQL

search.php

Simpsons Characters DB

by Phil

[Home](#) | [List Characters](#) | [Insert Character](#) | [Edit](#) | [Search](#) [Logout](#)

Search

Search Term:

Homer Simpson

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