DMIT2025 – PHP/MySQL

Lab 5: Contacts Database

Overview: Based on the lessons in PHP basics, validation, and creating a simple MySQL CRUDS application, you will create a simple database of potential employers and business contacts. Upon request, the instructor can show you a demo of this (in-class only).

Plan your project by sketching out what information you will store for each contact. This will determine what your database table will be and what form inputs you create for the interface.

Create a table with all necessary columns with the correct datatypes. Most will be VARCHAR, a description column may be TEXT, a checkbox would be a Boolean and your Primary Key will be INT(11) and MUST be Auto-Incremented.

Create a page called *insert.php* that will display a form to the user for inputting a new contact.
- Fields should includes the following:
    - Business Name *
    - Person Name
    - Email address *
    - Website address (URL) *
    - Phone Number *
    - Address
    - City
    - Province (must be a <select>)
    - Description
    - One boolean of your choice that must use a checkbox. (newsletter, sent resume to, etc.). Add a value="1" attribute to your checkbox.
- Add necessary validation.
- If validation is passed, then all info for this new contact is entered into the database.

Create a page called *index.php* that outputs all company names in alphabetical order and creates links from each to a *companyprofile.php* page (and sends a query string to it).

Create a page called *companyprofile.php* that displays all info for the particular contact.
- All info is nicely styled and **certain info is only outputted if it exists.**
- Email addresses are linked using a mailto: so that you can easily click the link to send an email.
- Website URLs are linked so that you may click the link to visit the website (target a new page/tab so that you don't leave your application please).
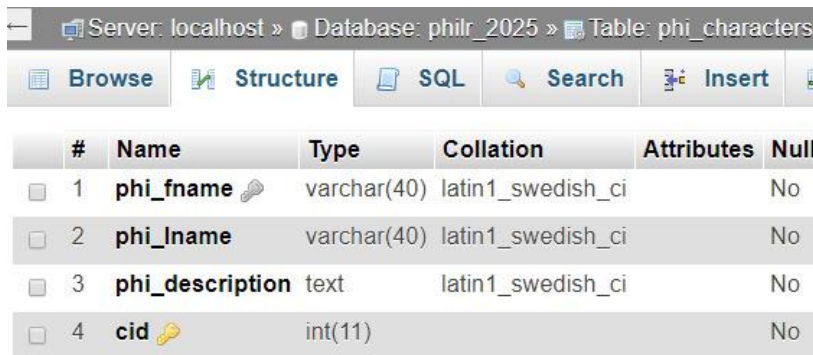
Once you have functional input/output working and tested, please create any other pages for update, delete, and search.
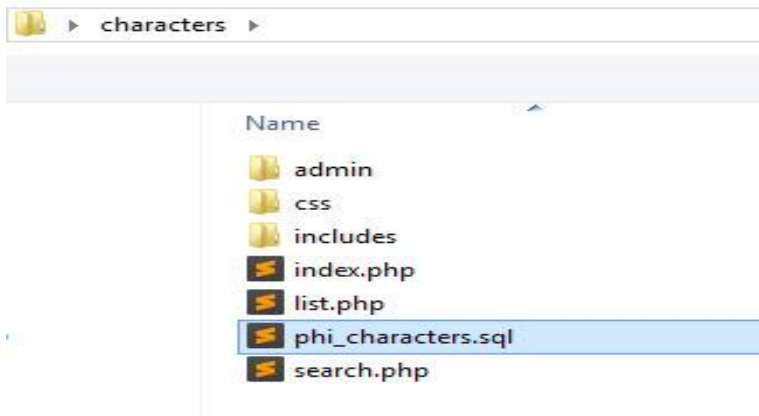
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Submission:

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 **philr** will create this table called **phi_characters**:

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.

Marking: 10 marks total.

*Note: This project MUST be populated with real data compiled from a web search for **at least 10 actual companies** in your field of expertise. The instructor will NOT accept it unless it contains real data.*

1. Create, Update, Delete functionality: [3 marks]
   - Necessary DB fields (required fields marked with a *):
     - Business Name *
     - Person Name
     - Email address * (if you can't find this on someone's website, use info@theirdomain.com)
     - Website address (URL) *

- Phone Number *
- Address
- City
- Province (must be a <select>)
- Description
- One boolean of your choice that must use a checkbox. (newsletter, sent resume to, etc.).

2. Functionality and formatting of your Listings and Company Profile pages: [2 marks]
   - Listing page shows company names (alphabetical order) and a link to Company Profile.
   - Company Profile page shows all data with labels.
   - Email addresses and URLs are linked.
3. Overall design & usability: [3 marks]
   - You may use our Bootstrap App template, or design your own.
   - Validation of all necessary fields. URL, email, etc must be validated for format.
     - On edit page, all existing fields must be prepopulated, even your <select> and checkbox. Same goes for insert page if user is stopped for validation error.
   - All pages must be linked. All content is well-aligned, padded, and readable. All form elements well styled.
   - User knows exactly what do for a adding a new contact (required fields marked; validation messages) and using all aspects of the application.
   - This application is actually useful: You could use this to compile a list of potential employers.
4. All admin pages (Create, Update, Delete) are secured by a single-user, sessions-based login. All public pages (Index, Company Profile, Search) are not secured by this. [1 mark]
5. Full-text MySQL search. [1 mark]

Hints:
- Please make sure that you have your basic MySQL input/output working before you move on.
- Beware of Copy/Paste/FAIL if you simply move files over from your last database project.

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Screen captures are for functional guides only. DO NOT copy the design.

index.php

companyprofile.php?cid=7