

## CIS 245 - INTERMEDIATE WEB PROGRAMMING

### Winter 2014 Assignment 3

**Due** in the beginning (1<sup>st</sup> 10 min.) of the class on March 21<sup>st</sup>.

**Note:** Your solutions have to be typed and printed, no handwritten answers.

**Please provide a menu page (index) for your assignment with links to each question. Please put all the code in one folder, without subfolders if possible. Please submit your folder on Q:\cisdata\cis245 with your first and last name, for example jane\_smith\_a2.**

**\*Please use MySQL Workbench or PhpMyAdmin to backup your databases as a SQL file. Please check that all necessary files are included.**

1. Write a **page which converts between Celsius and Fahrenheit**. Use a radio button to choose which direction the conversion should be done, C to F, or F to C, along with an input box for the user to enter the temperature to be converted. The formula for C to F is  $C = (5/9) * (F - 32)$ . **The program should handle an empty input or one which is not a number.**
  
2. **Design a template for a website as shown below.** The site does not use frames. The menu section should show a menu of three choices which load different content into the page. The header section should contain a title for the site. The footer section should contain contact information. The only part of the site that changes is the content portion depending on what is chosen. The menu can be built using either buttons or links. A link would use the format `<a href="template.php?content=home">Home</a>` and template.php would process `$_GET['content']`. Have the site load with the first content page at the start.

<b>Website Title</b>	
<b>Menu:</b> Content 1 Content 2 Content 3	Content
Contact Information	

3. **Extend the comment editor example in the notes, to make a blog website.** Users may start their own blog on a topic and other users may add to the blog (but cannot delete the comments of others before them). At the start of the program display a list of the current blog topics which the user may choose from, or an

option to start their own topic. Use the mysql date/time functions to add a date and time stamp for each entry made to a blog. **Provide a backup of the database used for testing.**

4. **Make a database called Q5 with a client table** as shown below. **Provide a backup of the database for testing.** Write the **SQL statements needed for each of the parts below.** Test them in WorkBench or PhpMyAdmin to ensure they work as expected.
- Display only those records which have a first name starting with the letter 's'.
  - Display only those records which have an age greater than 20 and 3 letters in the firstname.
  - Display only the firstname and lastname fields for records sorted on the firstname.
  - Display a new column of age divided by 10, called decades.
  - Delete all records with age between 15 and 37.

ID	Firstname	Lastname	Age
1	Sam	Smith	13
2	Sally	Smith	16
3	Sara	Smith	36
4	Bob	Smith	38

5. Write a **PHP function called query\_display**, which is called after each query. Use the function to show the results of the SQL statements from the previous question. The output should be nicely formatted in an html table.

Note: Remember that you must do your own work – see the instructor if you have difficulties. If you do “cut and paste” from the Internet, you **must quote them** by specifying the exact web locations.