

For this assignment, you will create a website that provides information about continents to a user. A user can select a continent and a variety of data, and the data for that continent should be displayed on the page. Here are some screen shots. First is the initial page, the second shows an error message if the user fails to select any types of information. The final screen shot shows the information returned. Note that the form is sticky.

The screenshots show a web form titled "World Fact Book 2007" with the subtitle "Information By Continent". The form has a dropdown menu for selecting a continent (currently set to "Europe") and a list of checkboxes for selecting data types: airports, exports, imports, military expenditures, and debt external. A "Get the Continent Info" button is at the bottom. The second screenshot shows an error message: "Please select at least one type of info". The third screenshot shows the results for Europe: "Exports: 4967539000000" and "Military expenditures: 216614818000".

This form has a selection menu for the continent and checkboxes for the types of data.

Step 1 - Login to cscilab.bc.edu/phpmyadmin. Select the database wfb2007. Take a look at the kinds of data available for countries and determine 5 pieces of information that you could aggregate for a continent. Of course, you can use more than 5 pieces of information if you'd like. All the data I chose is valid for summing. Had I chosen median age, I would have had to handle it differently. In some cases, you may want to use the aggregate function sum, for others max, or min may be appropriate. For each type of data, determine the query that you would use to aggregate it for a continent. Using phpmyadmin, make sure your queries function correctly.

Step 2 - Copy the dbconn.php file from the <http://cslab.bc.edu/~cs254/demos.php>. Modify it so the hostname is **localhost** and not cslab.bc.edu. Update the uid and password to be your own. Change the database to wfb2007.

Step 3 - Look at the screen shots above and write the html to create them. The selection menu should create a single get variable, and the checkboxes should create an array.

Step 4 - Create a new php file with the structure below. You will write the functions handle form(), createinfoquery, displayform(), makeinfocheckboxes(), and makecontinentmenu(). The function displayform() calls makeinfocheckboxes() and makecontinentmenu().

First get makecontinentmenu() to work. It should create the selection menu. Note that you will have to call it from displayform(). Next get makeinfocheckboxes to work. Again, you will need to call it from displayform(). It should create the checkboxes as you indicated in step 3 above.

```
<?php
include("dbconn.php");
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <title>The Continentor</title>
```

```

        <link rel="stylesheet" type="text/css" href="css/baseA.css" />
        <script type="text/javascript" src="js/formvalid.js" defer>
</script>
</head>
<body>
<h1>World Fact Book 2007</h1>
<h3>Information By Continent </h3>
<pre><?php //print_r($_GET);?></pre>
<?php
    displayform();

    if (isset($_GET['formsubmitted']))
        handleform();

?>
</body>
</html>
<?php
function handleform(){
    // your code here
}
function createinfoquery($continent, $info){
    // your code here
    return($query);
}
function displayform() {
    // your code here, calls make_continent_menu(), and
    make_info_checkboxes()
}
function make_info_checkboxes()
{
    // your code here
}
function make_continent_menu()
{
    // your code here
}
}

```

Step 5 - Try submitting the form and make sure the get variables are set appropriately. They will print at the top of the page because there is a call to print_r(\$_GET);

Step 6 - Using the get variables submitted, create the queries that you wrote in Step 1. Execute the queries and display the results in a field set as shown in the screen shots.

You will find the demos listed below helpful. As always, make your page look better than mine!

<http://cslab.bc.edu/~cs254/demos/lmysqlphp/fifthconnect.php>

<http://cslab.bc.edu/~cs254/demos/l11/fruitarray.php>

<http://cslab.bc.edu/~cs254/demos/l11/countriesandcapitals.php.txt>