Assignment 4: Database

IMPORTANT NOTES:

1. This assignment deals with MySQL database. You are advised to use XAMPP, which has integrated Apache with MySQL (MariaDB).
2. This assignment has an attached zip file, which contains 3 SQL scripts: bookcrm.sql, travels.sql, art.sql. Create three databases – "books", "travels", "art" – in MySQL and run the SQL scripts to import data to the corresponding database.
3. The easiest way to do this is through XAMPP Control Panel, where you can start MySQL and click its Admin button. This will launch the phpMyAdmin interface. Click "New" in the left panel to create a database ("books", "travels", "art"). To load data to a database, first select the database in the left panel, then click "Import" tab in the right panel. This will give you a form through which you can import data.
4. The default MySQL user name is "root" with no password. To make grading easier, do not change it.
5. Each project in this chapter is organized into a separate directory.

PART 1: Book Rep CRM (Chapter 11, Project 1)

Overview

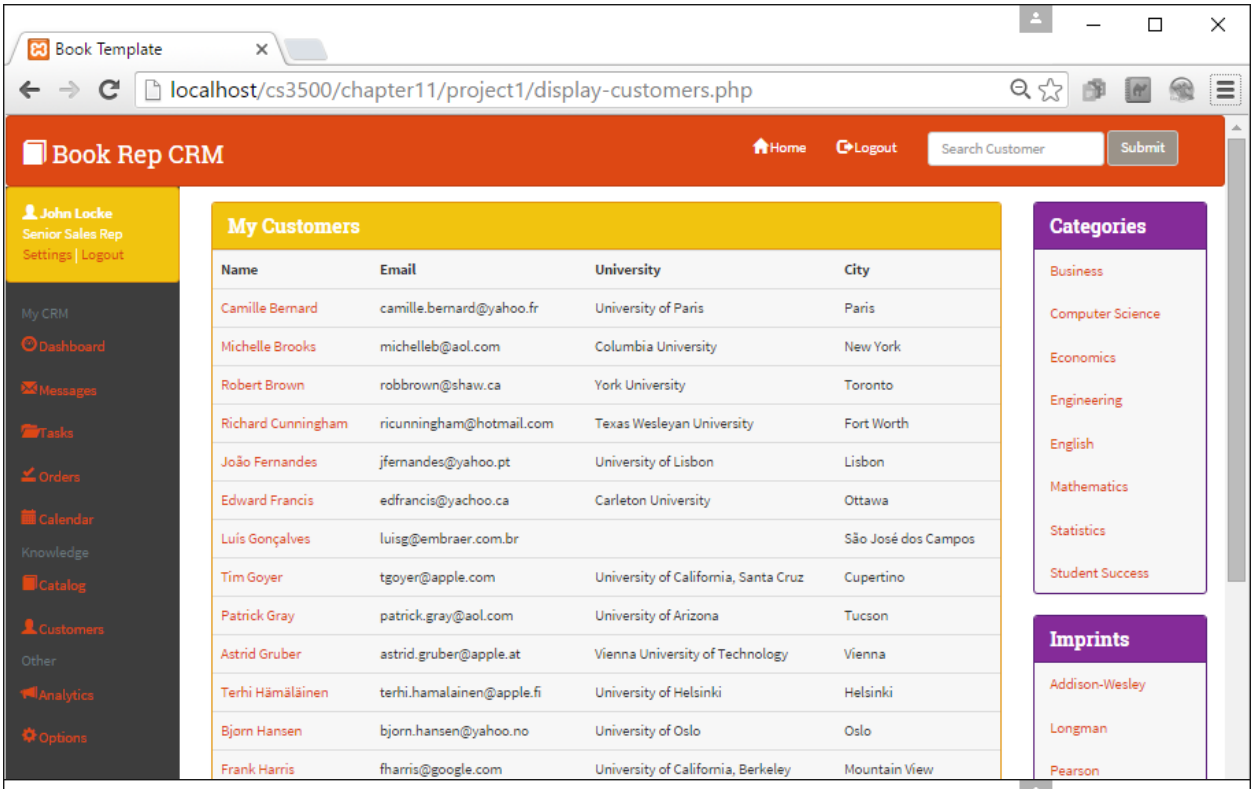
Demonstrate your ability to retrieve information from a database and display it. The results will look similar to that shown in the next page.

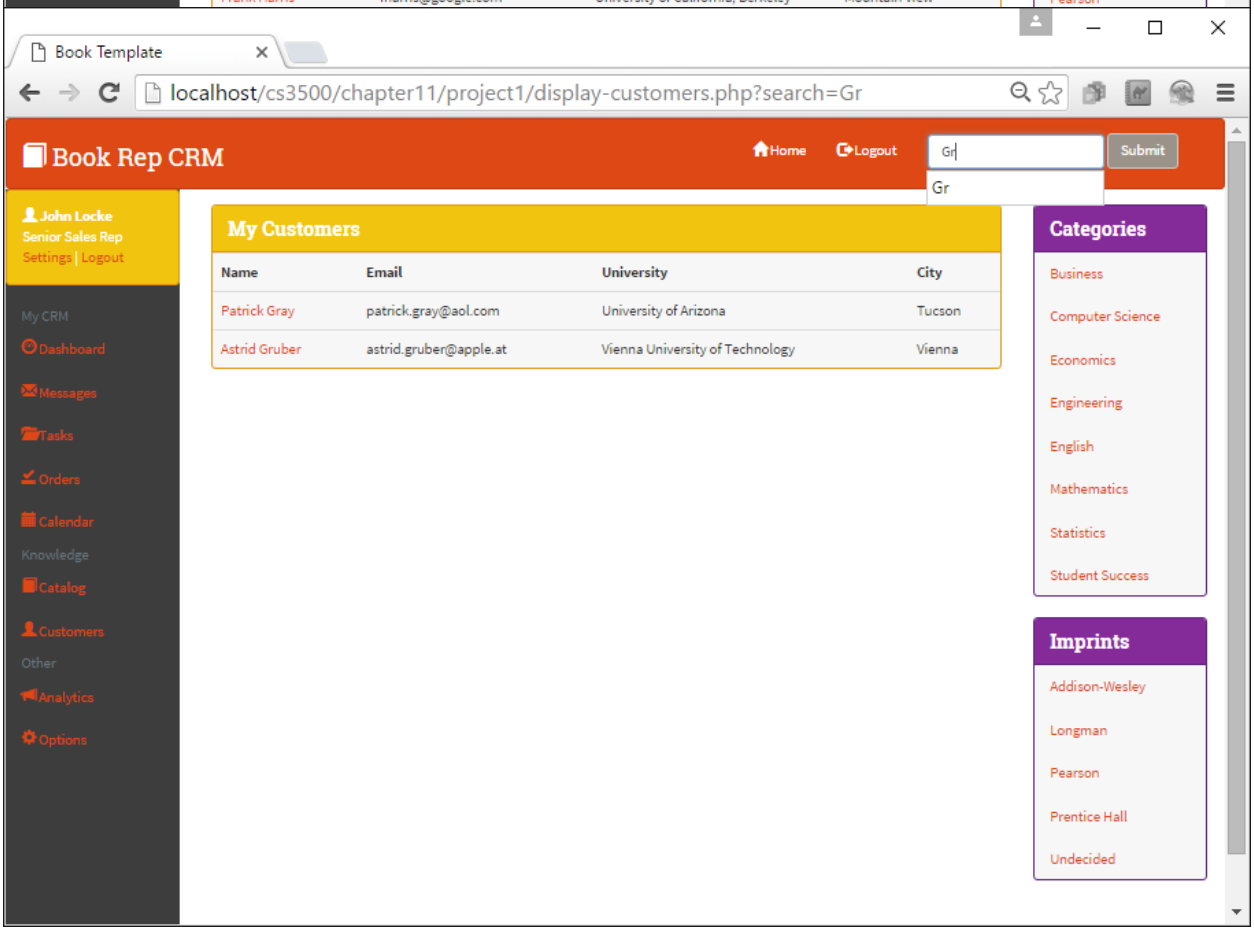
Instructions

1. You have been provided with a PHP page (display-customer.php) along with various include files.
2. You will need to use books database and retrieve information from three tables: customers, categories, and imprints. You will need to display every record from the categories and imprints tables within the lists that appear along the right side of the page. They can be dummy links.
3. The first name, last name, email, university, and city information from the customers table must be displayed within an HTML table.
4. The search box in the header must work. It will simply re-request the same page, but the page will only display those customers whose last name begins with the same characters entered into the search box. This will require using the SQL LIKE operator.

Test

1. Test the page. Verify the search works and that the category and imprint lists are correctly sorted.


Book Template
localhost/cs3500/chapter11/project1/display-customers.php
Book Rep CRM
Home
Logout
Search Customer
Submit
John Locke
Senior Sales Rep
Settings | Logout
My CRM
Dashboard
Messages
Tasks
Orders
Calendar
Knowledge
Catalog
Customers
Other
Analytics
Options
My Customers
Name Email University City
Camille Bernard camille.bernard@yahoo.fr University of Paris Paris
Michelle Brooks michelleb@aol.com Columbia University New York
Robert Brown robbrown@shaw.ca York University Toronto
Richard Cunningham ricunningham@hotmail.com Texas Wesleyan University Fort Worth
João Fernandes jfernandes@yahoo.pt University of Lisbon Lisbon
Edward Francis edfrancis@yachoo.ca Carleton University Ottawa
Luís Gonçalves luisg@embraer.com.br São José dos Campos
Tim Goyer tgoyer@apple.com University of California, Santa Cruz Cupertino
Patrick Gray patrick.gray@aol.com University of Arizona Tucson
Astrid Gruber astrid.gruber@apple.at Vienna University of Technology Vienna
Terhi Hämäläinen terhi.hamalainen@apple.fi University of Helsinki Helsinki
Bjorn Hansen bjorn.hansen@yahoo.no University of Oslo Oslo
Frank Harris fharris@google.com University of California, Berkeley Mountain View
Categories
Business
Computer Science
Economics
Engineering
English
Mathematics
Statistics
Student Success
Imprints
Addison-Wesley
Longman
Pearson


Book Template
localhost/cs3500/chapter11/project1/display-customers.php?search=Gr
Book Rep CRM
Home
Logout
Gr
Gr
Submit
John Locke
Senior Sales Rep
Settings | Logout
My CRM
Dashboard
Messages
Tasks
Orders
Calendar
Knowledge
Catalog
Customers
Other
Analytics
Options
My Customers
Name Email University City
Patrick Gray patrick.gray@aol.com University of Arizona Tucson
Astrid Gruber astrid.gruber@apple.at Vienna University of Technology Vienna
Categories
Business
Computer Science
Economics
Engineering
English
Mathematics
Statistics
Student Success
Imprints
Addison-Wesley
Longman
Pearson
Prentice Hall
Undecided

PART 2: Travel Photo (Chapter 11, Project 2)

Overview

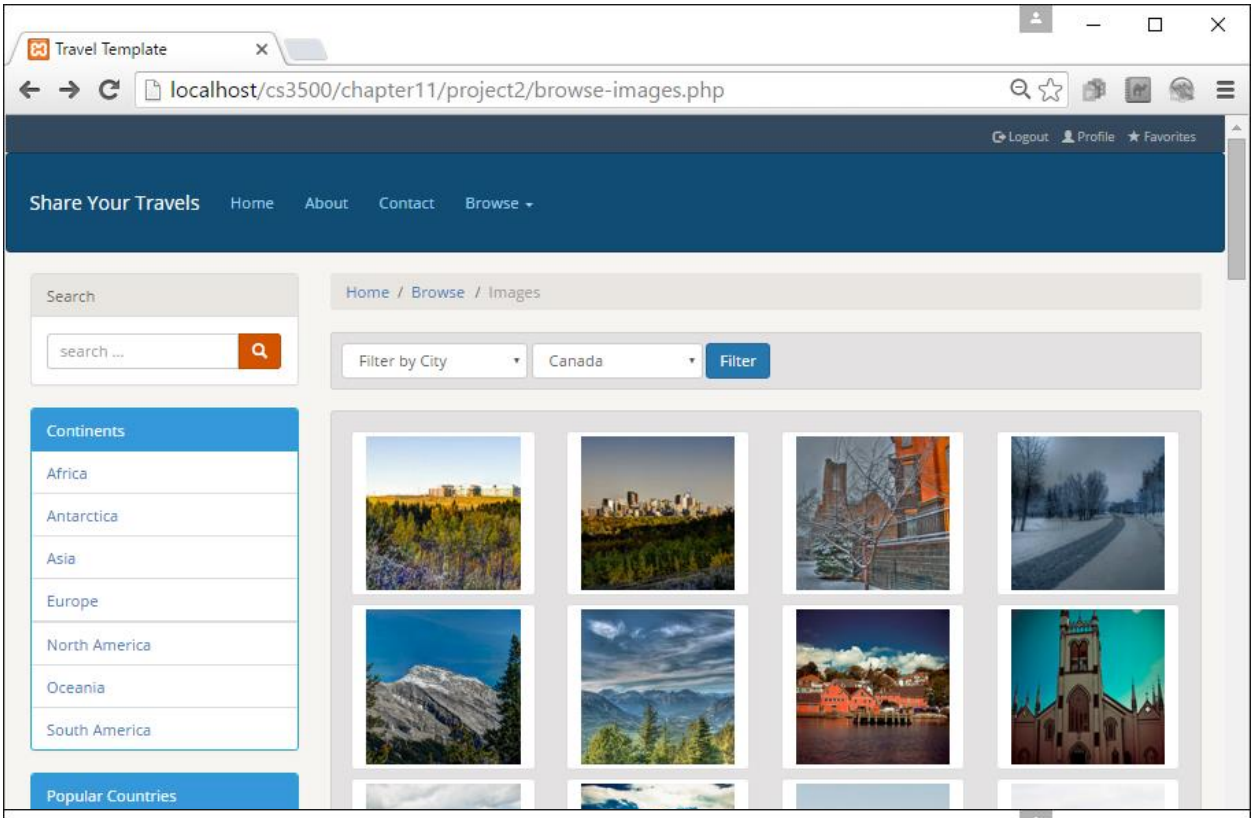
Demonstrate your ability to retrieve information from a database and display it. This will require a variety of more sophisticated SQL queries. The results will look similar to that shown in the next page.

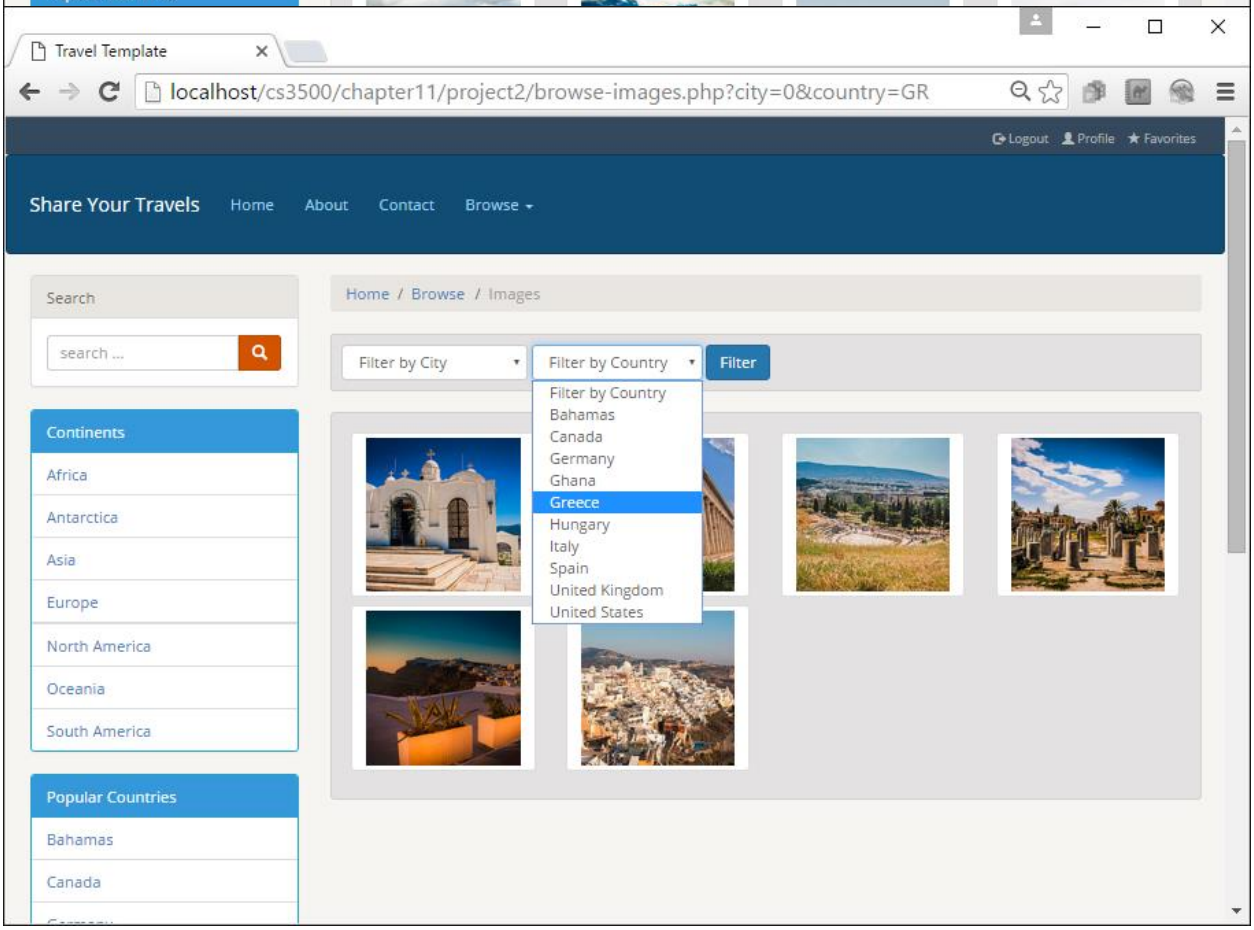
Instructions

1. You have been provided with a PHP page (browse-images.php) along with various include files.
2. You will need to use travels database and retrieve information from five tables: geocontinents, geocountries, geocities, travelimages, and travelimagedetails.
3. You will need to display every record from the geocontinents tables within the list that appears along the left side of the page. They can be dummy links. The popular countries list along the left side of the page will contain only those countries from the geocountries table that have a matching record in the travelimagedetails table. This will require a JOIN of the two tables.
4. There is a form that should contain two select lists: one with cities, the other with countries. These two lists should only show those cities and countries that have a matching record in the travelimagedetails table.
5. When the user clicks the Filter button, the page should display only those images whose CountryCodeISO or CityCode fields match the selected value in the select list.
6. When the user clicks a country in the popular countries list, the page should behave in the same say as selecting a country from the above form.

Test

1. Test the page. Verify the links in the popular countries list work as well as the filter by country and city facility.


Travel Template
localhost/cs3500/chapter11/project2/browse-images.php
Logout
Profile
Favorites
Share Your Travels
Home
About
Contact
Browse
Search
search ...
Home / Browse / Images
Filter by City
Canada
Filter
Continents
Africa
Antarctica
Asia
Europe
North America
Oceania
South America
Popular Countries


Travel Template
localhost/cs3500/chapter11/project2/browse-images.php?city=0&country=GR
Logout
Profile
Favorites
Share Your Travels
Home
About
Contact
Browse
Search
search ...
Home / Browse / Images
Filter by City
Filter by Country
Filter
Filter by Country
Bahamas
Canada
Germany
Ghana
Greece
Hungary
Italy
Spain
United Kingdom
United States
Continents
Africa
Antarctica
Asia
Europe
North America
Oceania
South America
Popular Countries
Bahamas
Canada