Assignment 3

TOTAL: 50 + 10 pts.

You will need two databases, "world" and "om", to complete the assignment. Scripts that create and populate databases are provided in Asg03_Databases.zip file in the Files section in Canvas.

What to submit:

- 1. ONE SQL script file with the guery solutions of all 6 problems.
 - a. Use SQL comments to mark the script with the question number it corresponds to.
 - b. Make sure the file is signed, include your name in comments.
- 2. Word document with screen shots of the results of execution of the queries. Please MARK THE SCREENSHOT with the QUESTION NUMBER.

Following are the questions related to the data stored in the "world" database. Write SQL queries that will provide the requested information.

1. (10 pts.) Find five largest cities, their population, and countries they are in. See the screen shot below. Rename the columns so they are named as in the screen shot.



2. (10 pts.) List all the cities that are located in the countries that have Khmer or Tamil as their official language. Include country name and language in the results. Order results first by country name, then by city name. Make sure that the columns are named exactly as in the screen shot. Returns 11 rows.



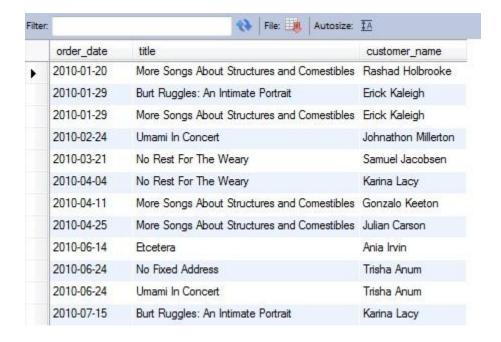
3. (10 pts.) Find the list of all the countries in the database that don't have information about country language. Retrieve country names, region, and SurfaceArea fields. Sort results by country name. Returns 6 rows. (Hint: LEFT JOIN is one option to solve that issue)



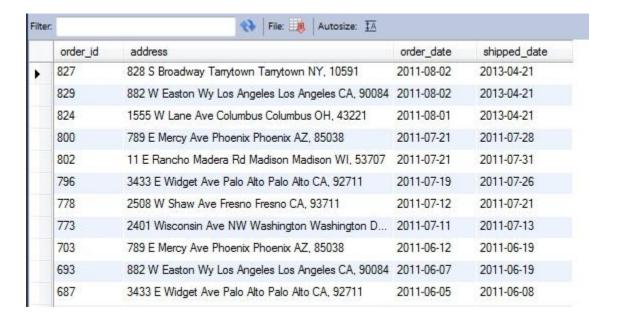
Following are the questions related to the data stored in the "om" database. Write SQL queries that will provide the requested information.

4. (10 pts.) Find customer first, last names, and item titles for all the orders that were placed in 2010. Order by date, then by item title. Rename the columns, combine first and last name in one column. Returns 20 rows. See screen shot below.

Requirement: Use regular JOIN ON syntax.



5. (10 pts.)Retrieve order_id, customer address together with city, state and zip as one field, order_date and shipped_date. Order by order_date. Query should produce 47 rows. See screenshot below.



6. (10 pts.)Retrieve order_id, customer address together with city, state and zip as one field, order_date and shipped_date. If the shipped_date not available, replace null with current date. Order by order_date.

Hints: Refer to MySQL Reference (dev.mysql.com):

- a) UNION keyword You will need 2 SELECT statements
- b) Replace the current date field with function CURDATE() in the second SELECT statement