

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 query 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.



The screenshot shows a database query result with a table containing three columns: city_name, population, and country_name. The results are ordered by population in descending order. The first five rows are highlighted in blue. The table is displayed in a window with a 'Filter:' field and buttons for 'File', 'Aut', and a refresh icon.

city_name	population	country_name
Mumbai (Bombay)	10500000	India
Seoul	9981619	South Korea
São Paulo	9968485	Brazil
Shanghai	9696300	China
Jakarta	9604900	Indonesia

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.

Filter:			File: A
	city_name	country_name	language
►	Battambang	Cambodia	Khmer
	Phnom Penh	Cambodia	Khmer
	Siem Reap	Cambodia	Khmer
	Singapore	Singapore	Tamil
	Colombo	Sri Lanka	Tamil
	Dehiwala	Sri Lanka	Tamil
	Jaffna	Sri Lanka	Tamil
	Kandy	Sri Lanka	Tamil
	Moratuwa	Sri Lanka	Tamil
	Negombo	Sri Lanka	Tamil
	Sri Jayaward...	Sri Lanka	Tamil

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)

Filter:			File:		Autosize
	name	region	SurfaceArea	language	
▶	Antarctica	Antarctica	13120000.00	NULL	
	Bouvet I...	Antarctica	59.00	NULL	
	British In...	Eastern ...	78.00	NULL	
	South G...	Antarctica	3903.00	NULL	
	Heard Is...	Antarctica	359.00	NULL	
	French ...	Antarctica	7780.00	NULL	

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.


Lake Washington Institute of Technology
ITAD 138 SQL
Instructor: Julien Feis


Filter:		File:	Autosize:
	order_date	title	customer_name
▶	2010-01-20	More Songs About Structures and Comestibles	Rashad Holbrooke
	2010-01-29	Burt Ruggles: An Intimate Portrait	Erick Kaleigh
	2010-01-29	More Songs About Structures and Comestibles	Erick Kaleigh
	2010-02-24	Umami In Concert	Johnathon Millerton
	2010-03-21	No Rest For The Weary	Samuel Jacobsen
	2010-04-04	No Rest For The Weary	Karina Lacy
	2010-04-11	More Songs About Structures and Comestibles	Gonzalo Keeton
	2010-04-25	More Songs About Structures and Comestibles	Julian Carson
	2010-06-14	Etcetera	Ania Irvin
	2010-06-24	No Fixed Address	Trisha Anum
	2010-06-24	Umami In Concert	Trisha Anum
	2010-07-15	Burt Ruggles: An Intimate Portrait	Karina Lacy

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.

Filter:



File: 

Autosize: 

	order_id	address	order_date	shipped_date
▶	827	828 S Broadway Tarytown Tarytown NY, 10591	2011-08-02	2013-04-21
	829	882 W Easton Wy Los Angeles Los Angeles CA, 90084	2011-08-02	2013-04-21
	824	1555 W Lane Ave Columbus Columbus OH, 43221	2011-08-01	2013-04-21
	800	789 E Mercy Ave Phoenix Phoenix AZ, 85038	2011-07-21	2011-07-28
	802	11 E Rancho Madera Rd Madison Madison WI, 53707	2011-07-21	2011-07-31
	796	3433 E Widget Ave Palo Alto Palo Alto CA, 92711	2011-07-19	2011-07-26
	778	2508 W Shaw Ave Fresno Fresno CA, 93711	2011-07-12	2011-07-21
	773	2401 Wisconsin Ave NW Washington Washington D...	2011-07-11	2011-07-13
	703	789 E Mercy Ave Phoenix Phoenix AZ, 85038	2011-06-12	2011-06-19
	693	882 W Easton Wy Los Angeles Los Angeles CA, 90084	2011-06-07	2011-06-19
	687	3433 E Widget Ave Palo Alto Palo Alto CA, 92711	2011-06-05	2011-06-08

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