



ISTE-230 Introduction to Database & Data Modeling

Homework # 3 – Using Basic DML Statements and Altering an Existing Table's Structure

DUE:

Name: _____

Needed to complete: MySQL version 5.6, Week 4 file: HW3DB.sql, and the Week 3 files: createCONTACT_INFO.sql and insertContact_Info.sql.

Part 1 – Querying the WORLD Database

Run the HW3DB.sql script in MySQL to create and populate the WORLD database. Create a script called '*yourlastname_hw3p1.sql*'. For each question, add a comment to the script denoting the question number followed by the statement.

Column heading must match the results shown below. The orders of your results DOES NOT have to match the order shown in the result sets below. Due to the size of some of the result sets, portions have been removed, indicated by '...'.

1. Who is the head of state for 'United States'?

```
+-----+
| Head of State |
+-----+
| George W. Bush |
+-----+
1 row in set (0.00 sec)
```

2. Using a single statement, change where the head of state is listed as 'George W. Bush' to the name of the current President. When the query from #1 is re-run after the change has been made, it should show the following:

```
+-----+
| Head of State |
+-----+
| Barack H. Obama II |
+-----+
1 row in set (0.00 sec)
```

3. Show the name of the countries that do not have an independence year specified.

Country Name
Aruba
Anguilla
Netherlands Antilles
American Samoa
Antarctica
French Southern territories
Bermuda
Bouvet Island
Cocos (Keeling) Islands
Cook Islands
Christmas Island
Cayman Islands
Western Sahara
Falkland Islands
Faroe Islands
Gibraltar
Guadeloupe
Greenland
French Guiana
Guam
Hong Kong
Heard Island and McDonald Islands
British Indian Ocean Territory
Macao
Northern Mariana Islands
Montserrat
Martinique
Mayotte
New Caledonia
Norfolk Island
Niue
Pitcairn
Puerto Rico
Palestine
French Polynesia
Réunion
South Georgia and the South Sandwich Islands
Saint Helena
Svalbard and Jan Mayen
Saint Pierre and Miquelon
Turks and Caicos Islands
Tokelau
East Timor
United States Minor Outlying Islands
Virgin Islands, British
Virgin Islands, U.S.
Wallis and Futuna

47 rows in set (0.00 sec)



4. Show the name and continent of countries that have a population of 1 billion or more and a life expectancy between 70-80.

```
+-----+-----+
| Name   | Continent |
+-----+-----+
| China  | Asia      |
+-----+-----+
1 row in set (0.00 sec)
```

5. List the countries located in the continents of 'North America' and 'South America'.

```
+-----+
| NAME
+-----+
| Aruba
| Anguilla
| Netherlands Antilles
| Argentina
| Antigua and Barbuda
| Bahamas
| Belize
| Bermuda
| Bolivia
|
| ...
| Saint Pierre and Miquelon
| Suriname
| Turks and Caicos Islands
| Trinidad and Tobago
| Uruguay
| United States
| Saint Vincent and the Grenadines
| Venezuela
| Virgin Islands, British
| Virgin Islands, U.S.
+-----+
51 rows in set (0.00 sec)
```

<<continue to Part 2>>



Part 2 – Modifying the CONMAN Database

Before you can start

Run the createCONTACT_INFO.sql and insertContact_Info.sql scripts in MySQL to create the CONMAN database, the CONTACT_INFO table, with President Destler's record inserted. Create a script called 'yourlastname_hw3p2.sql' that will include comments stating the task number with the statement(s) for that task following.

Task 1 – Add new data into CONTACT_INFO

Create the statements needed to add the data in Appendix A to the CONTACT_INFO table AND a record for yourself. This will result in a total of five records in the CONTACT_INFO table (President Destler's, the three from Appendix A, and your record).

Task 2 – Add an attribute to the CONTACT_INFO table

Create a statement that will add an attribute called 'nickname' to the CONTACT_INFO table. The attribute should be a variable length string capable of holding up to 20 characters. This attribute does not have to have a value. When a value isn't specified 'To Be Determined' should be used. **You may NOT drop the table and recreate it with this new attribute, you must add the attribute to the existing table.**

Task 3 – Add constraints to the CONTACT_INFO table

Create the statements to modify the firstname and lastname attributes so that a value is required to be entered when new records are added. **You may NOT drop the table and recreate it with a primary key, you must add this constraint to the existing table.**

Task 4 - Update an existing record

You will create a statement that will modify the existing record for President Destler to add a nickname of 'Bill' for him. **You may NOT delete the record and re-insert it with the new attribute value, you must add the value to the existing record.**

Task 5 - Delete records

Create a single statement that will delete the record of any contact that is associated with the 'Concor International, Inc.' company.

Submit your work

To get credit for this homework you will need to submit the two scripts you created ('yourlastname_hw3p1.sql' and 'yourlastname_hw3p2.sql') to the Homework #3 dropbox.

Appendix A. Data for CONTACT_INFO table

Attribute Name	Record #1	Record #2	Record #3
firstname	Eli	Eve	Carson
middleinitial	T	C	B
lastname	Wallowby	Sampson	Campbell
suffix_description	III.		III
title_description	Mr.	Mrs.	Dr.
jobtitle	Director	Assistant to Finance Director	Chief of Medicine
department	Finance	Finance	Geriatrics
email	etwallowby@concor.com	esampson@concor.com	cbc232@mvch.org
url	www.concor.com/~wallowby		
IMaddress	etwallowby	esampson	
phone_number	505-546-3322 ext. 23	505-546-3322 ext. 30	585-222-2121
phonetype_description	work	work	Home
birthday	1956-03-26	1972-05-11	1955-01-05
notes	All meetings must be scheduled through his assistant.	Very helpful.	Wife: Lisa Kids: Lucas, Lucy, and Lucinda.
companyname	Concor International, Inc.	Concor International, Inc.	Mountain View Hospital
street1	152 North Main Street	152 North Main Street	
street2			
city	Beverly Hills	Beverly Hills	
state_province	CA	CA	
zip_postalcode	90210-3715	90210-3715	
country_region	USA	USA	
company_url	www.concor.com	www.concor.com	www.mvch.org
company_phone	323-555-6115	323-555-5000	