	<p>Introduction to Database & Data Modeling</p> <p>HW #03</p>	<p>Spring 2023 (2225)</p>
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Due Date (See MyCourses ASSIGNMENTS)

Assignment Box **HW03**

Name: Please put Last name (Lastname, Firstname)_____

Submit this document, your script file, and your TEE file to the Homework #3 assignment folder,

Goal – Using Basic DML Statements and Altering an Existing Table’s Structure

Needed to complete: MySQL version 8.0.x files: HW3DB.sql, createContactInfo.sql and insertContactInfo.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. When you have all the correct answers in the script .sql file, create a TEE file to record all your work. When the TEE file is open, source your script. Make sure you have the –v verbose option on. Remove any syntax errors before you submit both the TEE file and SCRIPT file to the drop box.

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 was the head of state for 'United States'?

```
+-----+
| Head of State |
+-----+
| Donald J. Trump |
+-----+
1 row in set (0.00 sec)
```

2. Using a single statement, change where the head of state is listed as Donald J. Trump 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 |
+-----+
| Joseph R. Biden Jr. |
+-----+
1 row in set (0.00 sec)
```

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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
R�union
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)

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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>>

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Part 2 – Modifying the CONMAN Database

Before you can start

Run the createContactInfo.sql and insertContactInfo.sql scripts in MySQL to create the CONMAN database, the contactInfo table, with President Munson'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 contactInfo table

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

Task 2 – Add an attribute to the contactInfo table


Create a statement that will add an attribute called 'nickname' to the contactInfo 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 contactInfo 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 Munson to add a nickname of 'Dave' 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.**

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Task 5 - Delete records

Create a single statement that will delete the record that contains the url: `www.concor.com/~wallowby`

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`') and a TEE file to the Homework #3 Assignments folder.

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Appendix A. Data for contactInfo table

Attribute Name	Record #1	Record #2	Record #3
contactID	3	4	5
firstName	Eli	Eve	Carson
middleInitial	T	C	B
lastName	Wallowby	Sampson	Campbell
email	etwallowby@concor.com	esampson@concor.com	cbc232@mvch.org
url	www.concor.com/~wallowby		
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.