CSCI 466 ASSIGNMENT 6 (FALL 2023)

SQL - DML - SINGLE TABLE (100PTS)

Introduction

You will be writing another SQL script. The script should work with the BabyName database, so it will need the appropriate USE statement. Test each of the SQL statements required for the below, and then put them into the script, making sure to comment each one. Include your name, zid, and section in each of the files you submit.

This is a fairly large database, so it is recommended that you add LIMIT 50 to your SQL statements when testing, to prevent a nigh-neverending cascade of text from needing to be downloaded. Once you've tested your queries and you are sure that they work properly, you can remove the LIMIT 50 for submission.

Your script must do each of the following:

- (1) Select the BabyName database.
- (2) List all of the tables that are present in the database.
- (3) Show all of the names from your birth year. Each name must be shown only once.
- (4) Show all of the columns and their types for each table in the database.
- (5) List how many unique names there are in each location.
- 6 Show all of the years (once only) where your first name appears. Some people's names may not be present in the database. If your name is one of those, then use 'Chad' if you are male, or 'Stacy' if you are female. If you don't feel you fit into one of those, feel free to use 'Pat'.
- (7) Display the most popular male and female names from the year 1984.
- (8) Show all the information available about names similar to your name (or the one you adopted from above), sorted in alphabetical order by name, then, within that, by count, and finally, by the year.
- (9) Show how many unique names there were in the year 1947.
- (10) Show the number of rows that exist in the table.
- (11) Show how many names are in the table for each sex from the year 1969.
- (12) Show a table with a column called "First Letter" that contains one row per letter, and another column named "Frequency" that contains how many unique names begin with each of those letters.

WHAT TO TURN IN?

Submit, through Blackboard, the following:

- 1 The SQL script that accomplishes the above task.

 (You can run scripts in Maria DB using the \. command in the client.)
- (2) The output yielded by having MariaDB run the script, in a text file.
 (You can log the output using the \T command in the MariaDB client.)

Notes on MariaDB Client

The MariaDB client has a set of non-SQL commands that allow you to control its behavior. The following is an excerpt from the output of the MariaDB client when the command \h (help) is run. I'm only showing the ones relevant to this assignment. There are more commands – if you want to see them, run \h yourself.

```
help (\h) Display this help.

tee (\T) Set outfile [to_outfile]. Append everything into given outfile.

notee (\t) Don't write into outfile.

source (\.) Execute an SQL script file. Takes a file name as an argument.
```