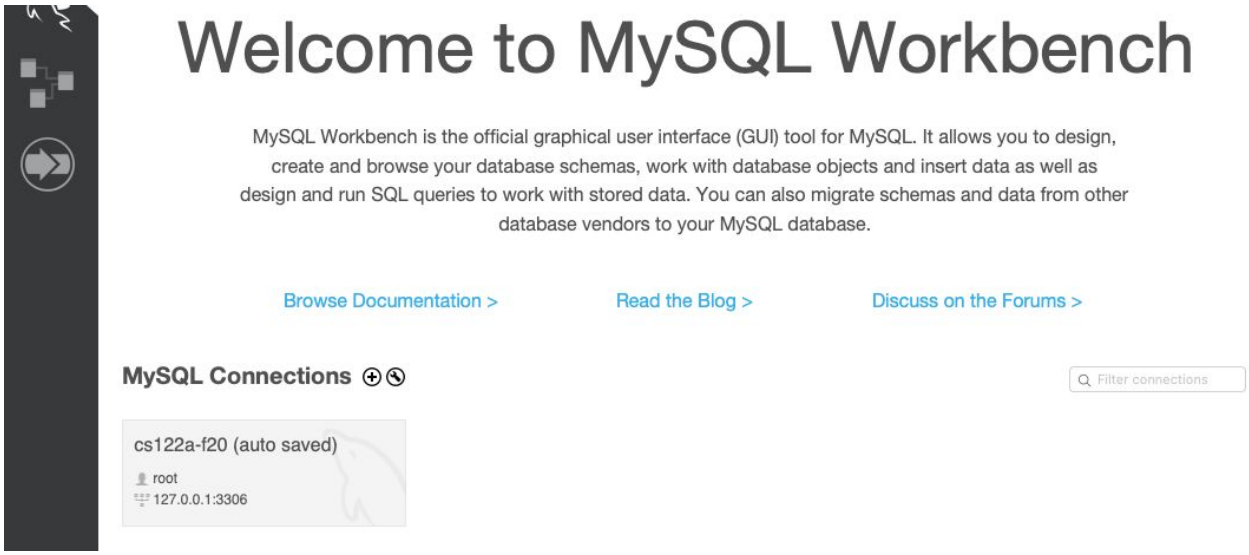
CS 122A: Introduction to Data Management – Fall 2020

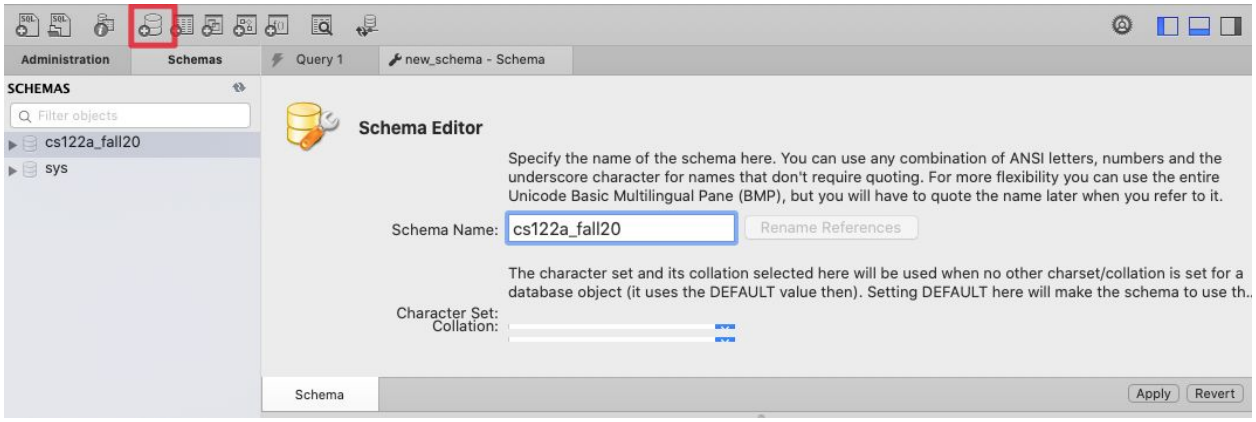
Homework 5 Load Instructions:

In this assignment, you are to use MySQL to query the CheckedTweets data and show the results. Refer to the instructions (for Windows, for OS X, for Linux) on the class Web site to install MySQL. In addition to those instructions, you will need to load data into the CheckedTweets database.

1. Open MySQLWorkbench and choose the connection that you created by following the installation instructions.

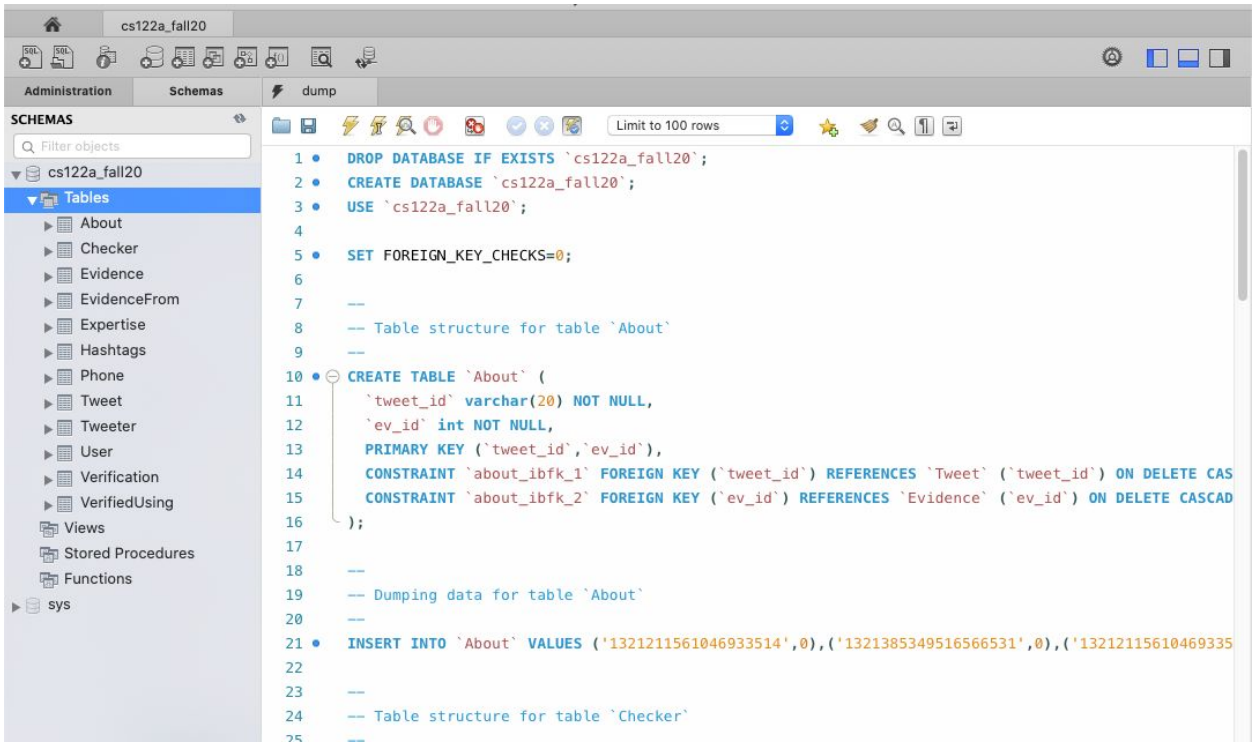


2. Create a new Schema 'cs122a_fall20' for executing database script (click the DB icon, then apply).

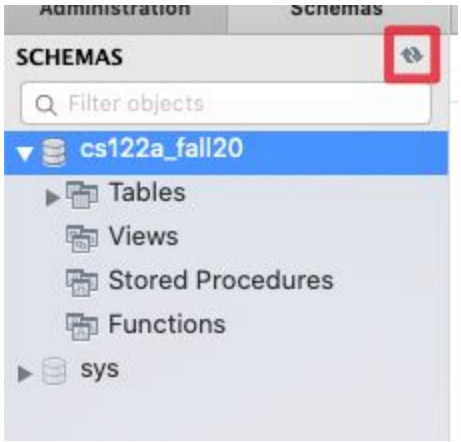


Double click the schema name to make sure it's the current schema that you are working with.

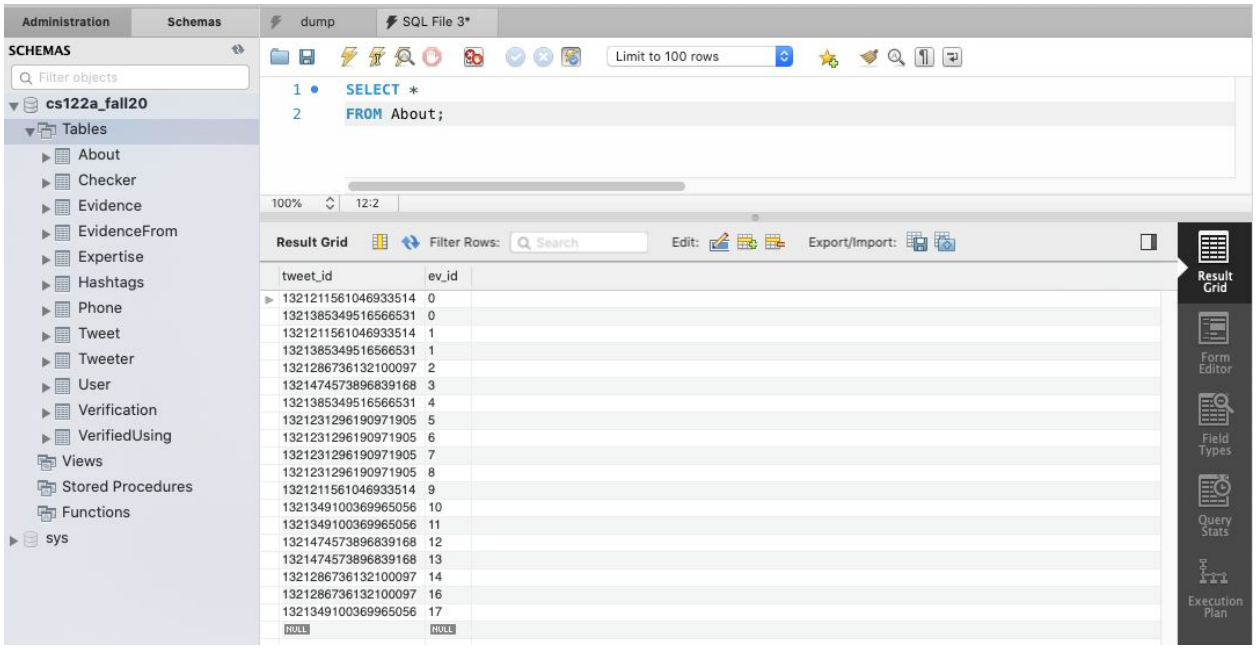
3. Download the CheckedTweets.org database script from here (you must use your UCI email to download this). Copy the script and paste it in the Query window. (Or you can load the script by clicking [File] -> [Open SQL Script] and selecting the script.) Click the lightning-shaped button to execute the SQL script.



4. When done, refresh the schema (by clicking the button in the top right corner) to check that the CheckedTweets database has been created and that the data has been successfully loaded.



5. Expand the “Tables” tab, right-click any table and select “Select Rows – Limit 1000” to open a SQL window. Once a SQL window is opened, you can write a query in the window and click the lightning-shaped button to run it and check the result of your query.



Technical note: In your queries, if you use group by, the attributes in the SELECT list *must* appear in group by clause. Based on the system settings, MySQL can be asked to ignore this SQL standard and may then accept a query that violates it. Fortunately, there is a way to make sure that MySQL doesn't allow this; since our grading will follow the SQL standard, you will need to make sure that your MySQL instance conforms to this part of the SQL standard. Here's how to do this:

1. In a query tab in MySQLWorkBench, first execute the following command to check your settings:

select @@sql_mode;

The result should include "ONLY_FULL_GROUP_BY" like the following example. If so, you can stop here:

'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION'

2. If the result does not contain "ONLY_FULL_GROUP_BY", copy the result into a text editor and add ONLY_FULL_GROUP_BY in the beginning just as shown above. Execute the resulting command, e.g.:

set @@sql_mode = 'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

For more details about this option, please refer to the following URL.

https://dev.mysql.com/doc/refman/8.0/en/group-by-handling.html