3 HW #0C: MS CAPP Installation instructions

The first assignment is to set up and access the data used in this course.

- Make sure that on Slack channel and on the Canvas page.
- Install PostgreSQL on your computer.[2] Note that installing PostgreSQL can be difficult and I recommend doing some research before jumping in.
  - The data itself can be found in the repo here: `https://github.com/NickRoss/sql-data`.
  - You are welcome to install the PostgreSQL server however you like. The instructions in the repo use docker and set up all the data (including table creation, loading data, etc.). However, if you do not wish to install docker you are welcome to use an alternative method. Two alternatives are: Postgres.app (`https://postgresapp.com/`) and brew (for macs).[3]
  - If you use a non-docker based method you will be required to load the data into the database yourself. Information and specific commands can be found in the data dictionary and the additional instructions at the end of this document.
- You will also be required to install a PostgreSQL client. I personally use one called Postico, but there are many, many others. PopSQL is a fun one to try too, but it requires an internet connection. One important trick when installing is that if you are referring to your local machine the host is "localhost."
- Note that there is nothing to turn in on this assignment.
- **If you installed WITHOUT using docker you need to do the following:**
  - Once PostgresSQL is installed, please create a schema for the stocks database, which can be done using the command below.

    ```
    create schema stocks;
    commit;
    ```

    We will also create a schema for some other datasets that are using in the class, which is "cls" and can be done using the commands below:

    ```
    create schema cls;
    commit;
    ```
  - All of the data required for the homework can be found in the repo and the queries required to load the data onto your Postgres instance can be found in the data dictionary. Broadly speaking to load the data you must:
    1. Have a schema to place the table in (which is what was done in the previous step)
    2. Create a table to load the data into (the CREATE TABLE commands can be found in the data dictionary)
    3. Use a COPY command to move the data from its raw format into the database.
  - Please load the following datasets onto your local SQL instance: (1) stocks.s2010 (2) stocks.s2011, (3) stocks.fnd in order to get access to the stocks data.

[2] I am not IT and am not going to diagnose issues relating to installing your software.

[3] Note that if you are installing with a mac you need to be careful regarding installation instructions for ARM based processors and older models.