All work and answers for this assignment should be added to the corresponding template files included in the repository. Be sure to upload the altered files back to GitHub (please don't change the filenames) in order to submit your work.

In order to accept the assignment and get the initial repository template, you should follow the link below.

Get Assignment link: https://classroom.github.com/a/EJTZjokt

1. We'll start off with a super easy question just designed to help me get to know you a bit better. Obviously there are no right or wrong answers here! I'm just trying to get to know you a bit better. Write your answers in the provided template file in the repository.
   (a) What name do you prefer to go by?
   (b) What pronouns do you prefer I use when addressing you?
   (c) What are you hoping to get out of this course?
   (d) What do you enjoy doing when not learning about data science?

2. Before you can do too much, we need to ensure that you have a version of the PostgreSQL server running on your computer and can connect and run SQL queries on that server using some method. The textbook has instructions in the Introduction for each operating system about how you can install the PostgreSQL server, which you should follow. It also has instructions for setting up and using pgAdmin, or you can follow the guide posted on the course webpage for how to set up the extension in VSCode or use Beekeeper Studio. Regardless of which method you use, ensure that you can run an SQL command by entering in and running the below command:

   ```
   SHOW server_version;
   ```

   If you get an output, excellent! **Record it in the Problem2 template.** If you do not, something is still broken, so consider contacting me so that we can get that figured out before you attempt the rest of this assignment.

   Before you continue, the book recommends creating a new database in which you can keep all of the work pertaining to this semester, and I agree with that logic. If you haven't already, create a new database called `analysis` that all your tables can live in going forward.

   ```
   CREATE DATABASE analysis;
   ```

3. Suppose you wanted to track what food you purchase and eat over the course of a month, and decide that storing such information in a database might prove useful. In particular, you are interested in being able to answer questions like:

   - How much am I spending in a given month on certain types of food?
   - How much am I eating out vs cooking at home?
   - Should I be shopping more for certain items at certain stores because they are generally cheaper there?

   Write out a possible `CREATE TABLE` statement that includes all the columns you think you might need to be able to answer the above questions. Include a comment for each column about why you chose the data type that you did for that column.

4. Included in the repository is a `metal_bands.sql` script that will create a table of heavy metal bands that were scraped from the website `metalstorm.net`. You can either open the script and run all the commands inside (there are just two, one to make the table and one to populate it) or you could potentially just copy and paste in the commands and run them yourself. Either way, you should add the `metal_bands` table to your `analysis` database so that you can use it to answer the following questions. For each question, include the following:

   - The answer to the question.
   - What query (or queries) you used to answer the question.
   - A short description giving any other information needed as to how you took the results of the query(ies) to arrive at the answer.

   (a) What is the earliest formed band in the data set?

   (b) I discovered an interesting fact while preparing these questions, which is that this dataset has some duplicated rows! How many rows are duplicated? How did you figure it out?

   (c) How many bands have "death" appearing somewhere in their name? (Not caring about capitalization.)

   (d) What is the second most popular band originating from Germany that has a "Viking folk" style? (It might not be their *only* style!)

   (e) How many bands does the data set say were formed and split in the same year? Does this seem reasonable to you?