**DDL SCRIPTS - CREATING AND POPULATING THE DATABASE:**

1. Create a new folder in your C: drive. Title it "SOAP"

2. Obtain the sqlite3.exe (from online/blackboard) and add it to this folder.

3. Obtain the "SOAP.sql" file from the shared google drive folder.

4. Open a command prompt window and change the directory to "C:/SOAP"; (Run command: cd C:/SOAP)

5. Once you're in the "SOAP" directory, run the command: "sqlite3 SOAP.db < SOAP.sql"; This will create the soap database.

6. Now enter the database by running the command: "sqlite3 SOAP.db"

7. Run “PRAGMA foreign\_keys = ON;” to ensure the proper use of foreign keys

8. Run SQL commands like: "select \* from office;" to see all the offices, etc..

**DATABASE APPLICATION PROGRAM - USING PYTHON-SQLITE TO ACCESS THE DATABASE:**

1. Do steps 1 - 5 from above. Make sure to end up with the "SOAP.db" and "SOAP.py" file in the directory "C:/SOAP".

2. Run the command: "python SOAP.py". To open the python-sqlite API.

3. Run insert, select, and delete SQL commands (examples below)

NOTE:

\*agency phone numbers are of the format ‘XXX-XXX-XXXX’

\*\*end\_year must be at least 2023

\*\*\*agency\_id and agreement\_id must be exactly 8 characters

\*\*\*\*sq\_ft\_managed is null if the office does not manage any land

\*\*\*\*\*

**SAMPLE COMMANDS:**

1. SELECT:

--> select \* from office;

--> select \* from agency where city = "Washington D.C.";

--> select \* from office where sq\_ft\_managed > 20000000000;

2. INSERT:

--> insert into office values ("Territories", "Puerto Rico", 435166830);

--> insert into agency values ("CT992483", "U.S. Courts", "One Columbus Circle N.E.", "Washington D.C.", "202-502-2600");

--> insert into agreement values ("PR953183");

3. DELETE:

--> delete from agreement where agreement\_id = "PR953183";

--> delete from agency where city = "Washington D.C.";

--> delete from office;