Lab 02

Section 1: Setup and connect to Postgres

1.

```
docker pull shissncg/shissncg-dev:dvdrental
docker run --name dvdrental -p 5432:5432 -d shissncg/shissncg-dev:dvdrental
```

2. Using pgadmin, add a server, browse to the dvdrental database, create a query
    a. username: postgres, password: password
    b. Hint: if you are running pgadmin from a container and can't find the database do a docker inspect on the network and grab the internal docker ip address.
3. Download the ER diagram for the dvdrental database here

Section 2: Query Postgres

1. Find the first 3 different actors (alphabetically by last name) who have appeared in films rated NC-17. Provide the first name, last name, film title, and release year. Submit the query and query results for grading

Section 3: Ingest data in Python

1. Read film.csv and categories.xlsx into dataframes

Section 4: Visualize data

1. Plot number of films by category (bar chart)
2. Plot average rental duration by category with variance (Box and whiskers)