CS 327E Project 1, due Thursday, 09/10.

1. Open a terminal window in JupyterLab and download the sakila dataset from Google
   Cloud Storage. Run the following commands to download and extract the dataset:
   ```
   gsutil cp gs://cs327e-open-access/sakila.zip .
   unzip sakila.zip
   ```

   Open the sakila folder and browse the three files `sakila-database.sql`,
   `sakila-data.sql`, and `sakila-diagram.png`.

2. Create a new Python Jupyter notebook and name it `project1.ipynb`. Implement the
   following logic in your Jupyter notebook:

   ● Create the sakila database and database objects by running
     `sakila-database.sql`.

   ● Populate the tables by running `sakila-data.sql`.

   ● Get a row count for each table.

   ● Write a query to explore the data in each table.

   ● Write one query that uses a WHERE clause and ORDER BY clause on any table.
     Add a short comment above your SQL statement to describe the query.

   ● Write an INSERT statement to add a record into one of the tables. Add a short
     comment above your SQL statement to describe the SQL.

   ● Write an UPDATE statement to update one or more records from one of the
     tables. Add a short comment above your SQL statement to describe the SQL.

   ● Write a DELETE statement to delete one or more records from one of the tables.
     Add a short comment above your SQL statement to describe the SQL.

CS 327E Project 1 Rubric
Due Date: 09/10/20

Download and extract the sakila dataset to your jupyter notebook instance. **-5** no dataset or incorrect dataset found in Jupyter instance	5
Create a new Python Jupyter notebook named `project1.ipynb`. **-5** incorrect file name	5

Create the database based on `sakila-database.sql`.
Populate the tables from the `sakila-data.sql` file.
      -30 missing sakila database
       -7 for each missing table or incorrect data load
	30

Run a row count of each table in the database. **-3** each missing row count	15
Run a query that explores the data in each table. **-3** for each missing query	15

Run a query that includes a `WHERE` clause and `ORDER BY` clause. Include a short comment above your query.
      -5 missing WHERE clause
      -5 missing ORDER BY clause
      -2 missing comment or comment is not descriptive
	10

Run other CRUD operations:
   ● An INSERT statement into a table.
   ● An UPDATE statement on a table
   ● A DELETE statement on a table
   ● A short comment above each statement.
         -5 each incorrect statement
         -2 for each missing comment or comment is not descriptive
	20

`project1.ipynb` pushed to your group's private repo on GitHub. Your project **will not** be graded without this submission.	**Required**

`submission.json` submitted into Canvas. Your project **will not** be graded without this submission. The file should have the following schema:
 	
{
    "commit-id": "your most recent commit ID from GitHub",
    "project-id": "your project ID from GCP"
}
 	
Example:
 	
{
    "commit-id": "dab96492ac7d906368ac9c7a17cb0dbd670923d9",
	Required

"project-id": "some-project-id" }	
Total Credit:	**100**