CS 327E Project 1, due Thursday, 09/07.

0. Before you start on this project, you must **disable binary logging** on your MySQL instance. Otherwise, you won't be able to create the sakila database.

To disable binary logging, follow these steps:

- click on your MySQL instance from the GCP console and start up the instance.
- click on the Edit button at the top of the page to edit the instance.
- in the Customize your instance section, expand the Data Protection subsection.
- uncheck Enable point-in-time recovery.
- click Save.

It should take a few seconds for the instance to update. You don't need to restart it.

1. Go to JupyterLab and open a terminal window.

Download the sakila dataset from Google Cloud Storage. Run the following commands to download and unzip the dataset:

```
gsutil cp gs://cs327e-open-access/sakila.zip .
unzip sakila.zip
```

Open the sakila folder and look at the three files in this folder:

sakila-database.sql, sakila-data.sql, and sakila-diagram.png. If there is a data type in the create table statements which you don't recognize, look it up in the MySQL documentation.

- 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 the tables actor, address, city, country, and customer in the database.
  - Write a query to sample a few records from the tables actor, address, city, country, and customer using the LIMIT clause.
  - Write one query on any table that uses both a WHERE clause and ORDER BY clause. Add a short comment above your SQL statement to describe the query.

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

Due Date: 09/07/23

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.ipynb5 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 tables: actor, address, city, country, and customer, in the database.  -3 each missing row count	15
Run a query that samples the data from tables: actor, address, city, country, and customer, using the LIMIT clause.  -3 for each missing query	15
Run a query that includes a WHERE clause and an ORDER BY clause. Include a short comment above your query to explain its function.  -5 missing WHERE clause  -5 missing ORDER BY clause  -2 missing comment or comment is not descriptive	10
Run other CRUD operations:	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:	Required
<pre>{    "commit-id": "your most recent commit ID from GitHub",    "project-id": "your project ID from GCP" }</pre>	
Example:	
{	