CS 327E Milestone 3 due Sunday, 02/16.

- 1. Create an ERD of the staging tables in your dataset1:
 - Each relation in the diagram should contain the relation's field names and associated data types.
 - If a field is a primary key, it should be marked as such in the diagram.
 - If a field is a foreign key, it should be marked as such via a relationship with the primary key that it refers to.
 - If a table is wide and contains 30+ fields, only list the fields that represent keys on this table (i.e. PK, FK) as well as those which you consider informative and plan to query.
 - Draw all valid relationships between the staging tables (i.e. 1:1, 1:m, m:1, m:n), remembering that a table can also have a self-relationship.
 - Save the queries you used to discover the keys and relationships between tables in a Jupyter notebook named <source>_erd_staging_queries.ipynb where <source> is the source of your dataset1.
 - Name the ERD file <source>_erd_staging.pdf where <source> is the source of your dataset1.
- 2. Practice writing SQL queries with joins:
 - Create a new Jupyter notebook named <source>_joins.ipynb where <source> is the source of your dataset1.
 - Write 6 queries on dataset1 with at least 1 join per query.
 - At least **2/6** queries must use an outer join.
 - All queries must use a WHERE clause or ORDER BY clause or both.
 - Show the output of each query in the notebook. If a query produces > 12 rows, add a LIMIT clause to the query.
 - Add a short Markdown comment above each SQL statement to describe its function.

Create an ERD of dataset1 and save it as <source/> _erd_staging.pdf. Create a notebook with the queries you used to discover the primary keys and foreign keys saved as <source/> _erd_staging_queries.ipynb. The diagram should contain entities for all the tables, with each table named <dataset> -40 ./<source/>_erd_staging.pdf Or ./<source/>_erd_staging_queries.ipynb not found in repository -5 each incorrect relationship, up to -20 -10 each primary key/foreign key missing -10 missing data types or fields of tables -10 missing queries</dataset>	40
Create a notebook with 6 queries involving joins. 2 queries should contain outer joins. Each SQL query should have a comment preceding it, describing its function. -60 . / <source/> _joins.ipynb not found in repository -10 each missing queries with joins, up to -60 -5 each missing or incorrect comment, up to -30 -10 each missing outer join, up to -20 -10 each missing where clause or order by clause, up to -30	60
<pre>submission.json submitted into Canvas. Your project will not be graded without this submission. The file should have the following schema: {</pre>	Required
"project-id": "your project ID from GCP" } Example:	
<pre>{ "commit-id": "dab96492ac7d906368ac9c7a17cb0dbd670923d9", "project-id": "some-project-id" }</pre>	
Total Credit:	100