Milestone 3 due Friday, 09/27.

1. Create an initial ERD for your `dataset1` using a diagramming tool called [Lucidchart](#):
   - 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 tables (i.e. `1:1`, `1:m`, `m:1`, `m:n`), remembering that a table can have a self-relationship.
   - Save all queries used to discover the keys and relationships between tables. Copy the SQL text into a text file `ERD-queries-dataset1-staging.sql.`
   - Name the ERD file `ERD-dataset1-staging.pdf.`

2. In the BQ Console, practice writing some queries with joins using `dataset1`:
   - You should have **6** queries with at least 1 join per query.
   - At least **3** queries must use outer joins.
   - Copy the SQL from your **6** queries into a `join-queries.sql` file.
   - Add a short comment above each SQL statement to describe the query. Comments should begin with a "`--`" (e.g. `--this is a legal comment in SQL`).
   - You do not need to add the results of your query to the file.

CS 327E Milestone 3 Rubric
Due Date: 09/27/19

Create an ERD for `dataset1` and save it as `ERD-dataset1-staging.pdf`. Create a file `ERD-queries-dataset1-staging.sql` containing the queries to discover the primary keys and foreign keys for `dataset1`.
 	
The PDF should contain entities for all the tables, with each table named `<dataset>.<table name>`.
    -40 `./ERD-dataset1-staging.pdf` or
        `./ERD-queries-dataset1-staging.sql` 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
	40

Create a file `join-queries.sql` containing 6 queries involving joins. 3 queries should contain outer joins. Each SQL query should have a comment preceding it, describing its function.
    -60 `./join-queries.sql` not found in repository
        -10 each missing statement, up to **-60**
        -5 each missing or incorrect comment, up to **-30**
        -10 each missing outer join, up to **-30**
	60

`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",`
    `"project-id": "some-project-id"`
`}`
	Required

Total Credit:	**100**