CS 327E Milestone 7 due Sunday, 03/15.

- 1. Update your ERD to reflect the Beam tables in your modeled dataset:
 - The diagram should **omit** any modeled tables which were replaced by Beam tables.
 - Each entity should be represented by its collection of field names, data types, and primary key (PK).
 - Each child entity should also contain a foreign key (FK).
 - The diagram should include valid relationships between entities.
 - Name the ERD file <source>_erd_beam.pdf where <source> is the source of your dataset1.
- 2. Practice writing SQL queries with aggregations:
 - Create a new Jupyter notebook named <source>_analysis.ipynb where <source> is the source of your dataset1.
 - Write **6** queries with at least 1 aggregate function per query.
 - At least 3 queries must use a JOIN clause.
 - At least 4 queries must use a GROUP BY clause.
 - At least 2 queries must use a HAVING clause.
 - At least 4 queries must use an ORDER BY clause.
 - Add a short Markdown comment above each SQL statement to describe the function of the query.
- 3. Create data visualizations:
 - Choose **2** of your most interesting aggregate queries.
 - Create a database view for each one from your <source>_analysis.ipynb notebook. The view must have a descriptive name and a prefix of v_ (e.g. v Highest Nominated Movies).
 - Open <u>Data Studio</u>
 - Create a Data Source that accesses each view. You'll need one Data Source per view.
 - Create a chart in Data Studio that visualizes the data in a compelling way.
 - Add both charts to a single Data Studio report (aka dashboard).
 - Download your dashboard as a PDF file and save it as dashboard-v1.pdf.

Upload an updated ERD that finalizes your table schema after Beam transformations have been applied. -40 ./ <source/> _erd_beam.pdf not found in repository -20 ERD is missing one or more entities -20 ERD is missing one or more primary keys -10 ERD is missing one or more foreign keys -10 ERD is missing or incorrect relationship between entities	40	
Create a Jupyter notebook containing 6 queries involving aggregation. Two should involve the use of a GROUP BY clause. Each SQL query should be preceded by a comment describing its function	30	
-30 / <source/> analysis.ipynb not found in repository		
-5 each missing aggregate statement, up to -30		
If all statements use the same aggregate function, you will only receive half credit		
-5 each missing JOIN clause of the 3, up to -15		
-5 each missing GROUP BY clause of the 4, up to -20		
-5 each missing HAVING clause of the 2, up to -10		
-5 each missing ORDER BY clause of the 4, up to -20		
-5 each missing or incorrect comment, up to -30		
Create data visualizations and download them as <code>dashboard-v1.pdf</code> . These visualizations should represent the results from the two BQ views.		
The file should contain 2 charts made from Data Studio, with a relevant title for each one describing the dataset.		
-30 ./dashboard-v1.pdf not found in repository		
-10 each missing chart, up to -20		
-5 each missing title, up to -10		
-5 each chart created from a BQ table instead of a BQ view, up to -10		
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:		
<pre>{ "commit-id": "dab96492ac7d906368ac9c7a17cb0dbd670923d9", "project-id": "some-project-id" }</pre>		

Total	Credit:
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