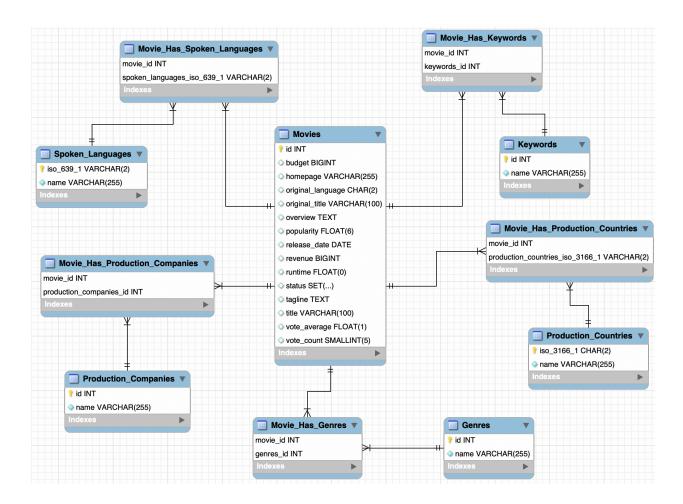
CS 351 - Assignment 5 Report

Part 1:

The only file included is my "pythonDB.py" file. This program builds 11 tables that create the schema for the IMDB database. The schema is in second normal form where any attribute for a movie containing more than one entry has its own table with an attribute id and attribute name. Then the Movies table has any attributes that are single values. the 5 other tables are join tables containing a movie id and an attribute id number. The program then inserts data from a CSV file into each table. The schema is in second normal form because if a genre or spoken language is removed, it will be removed from the join table, but the Movie with that attribute is not removed or dependent on that specific attribute.

For the relationships see diagram below:



Part 2 - Queries:

1. What is the average budget of all movies? Your output should include just the average budget value.

+	+
budget	l.
+ 29045039.8753	+
+	-+

Show only the movies that were produced in the United States. Your output must include the movie title and

the production company name.

Movies_title	Production_Companies_name
Star Wars	Miramax Films A Band Apart Lucasfilm Twentieth Century Fox Film Corporation Pixar Animation Studios

3. Show the top 5 movies that made the most revenue. Your output must include the movie title and how much revenue it brought in.

title	revenue
Avatar Titanic The Avengers Jurassic World Furious 7	2787965087 1845034188 1519557910 1513528810 1506249360

4. What movies have both the genre Science Fiction and Mystery. Your output must include the movie title and all genres associated with that genre.

Movies_title	++	+
2001: A Space Odyssey Science Fiction 2001: A Space Odyssey Mystery Atlas Shrugged Part II Science Fiction	Movies_title	Genres_name
	2001: A Space Odyssey 2001: A Space Odyssey Atlas Shrugged Part II	Science Fiction Mystery Science Fiction

5. Find the movies that have a popularity greater than the average popularity. Your output must include the movie title and their popularity.

+	L
title	popularity
The Faculty Doomsday Spy Kids Almost Famous The Tuxedo	21.54 21.54 21.54 21.55 21.55