Levi Pomeroy
Morgan Loring
November 28th, 2017
Database Project Write-up

Our final project for CST 324 – Database Systems and Design – is a database that holds movie information. It is similar to IMDB and shares many of the same attributes. IMDB doesn't make their database structure publicly accessible so we can't compare our design with theirs but we created a structure that works well. The main table in our database is the Movies table, which has a data for the movie id, movie title, content rating, release date, and runtime. Other tables we have in the database include information about the director, ratings, trailers, genres, languages, writers, and actors.

We got the data to populate this database from the IMDB API. (Documentation can be found at http://www.theimdbapi.org/) We wrote a program using C# that loops through movie ids and concatenates them into the API URL, requesting a JSON object for each movie. We then parsed the JSON into strings for each movie attribute using a custom class. Next we generated SQL insert and check statements for each table and wrote the statements to a file. The file that is generated contains valid insert statements that can be executed in SQL Server Manager.

We recommend that you DO NOT run the code as it takes about half an hour to retrieve all the data.

Instructions for use:

- Open the "Tables.sql" file in Microsoft SQL Manager and execute it to create the tables.
- Open the "Views_and_Indexes.sql" file in Microsoft SQL Manager and execute it to create the views.
- Open the "Inserts.sql" file in Microsoft SQL Manager and execute it to populate the database.
- Open the "Querries.sql" file in Microsoft SQL Manager and execute individual queries for examples of queries and data.