

For this midterm project, I decided to work on the Sakila database. The first part of the project (Midterm Project Part 1), I am strictly working with MySQL and Python in the Jupyter Notebook in order to create dimension tables and fact tables. For the fact table, I have combined data from a variety of my dimension tables, selecting only the columns that are of use to help explain a story or concept. The final result and goal of the fact table is to show details of the movies that each customer has rented, and the amount they spent on each rental. The second part of the project (Midterm Project Part 2) uses MongoDB Atlas to create dimension tables and a fact table in order to showcase the most popular film categories in the country of Canada.

Throughout the entire project, I have extracted, transformed, and loaded data in order to provide potential stakeholders or other viewers a better understanding of what the different relationships within the Sakila database are. Through the generation of multiple dimension tables, and two fact tables, it is easy to come to conclusions about certain questions that this analysis was to answer.