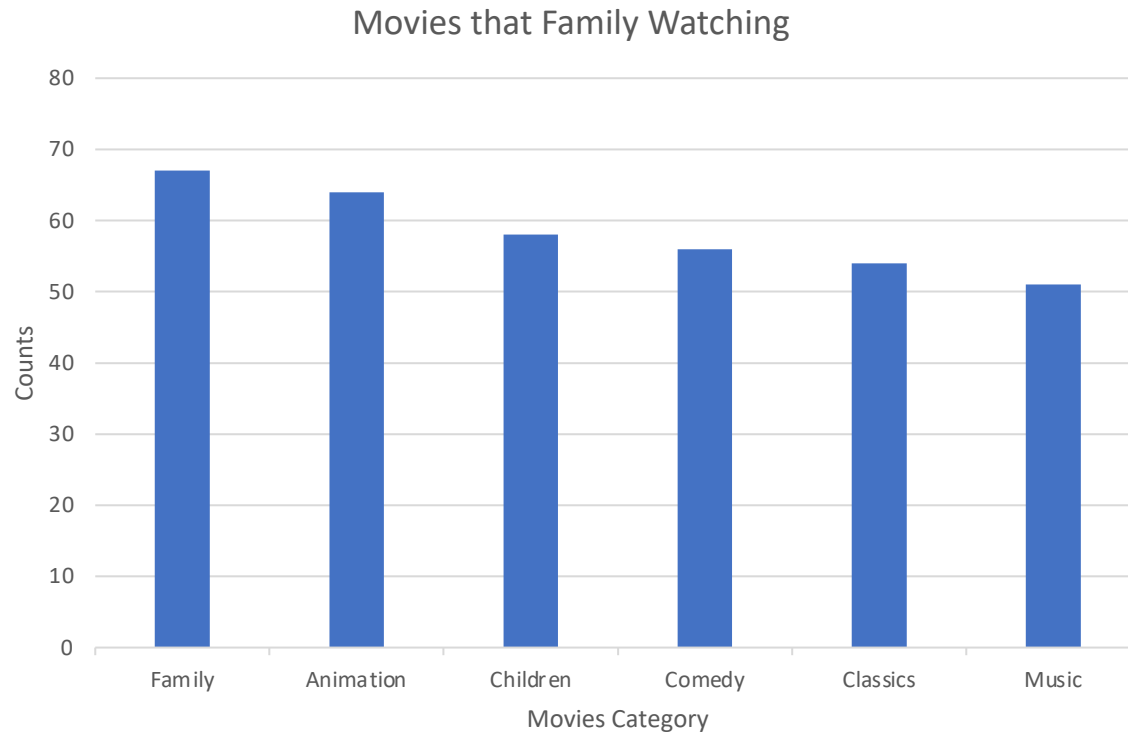# Project1: Investigate a Relational Database

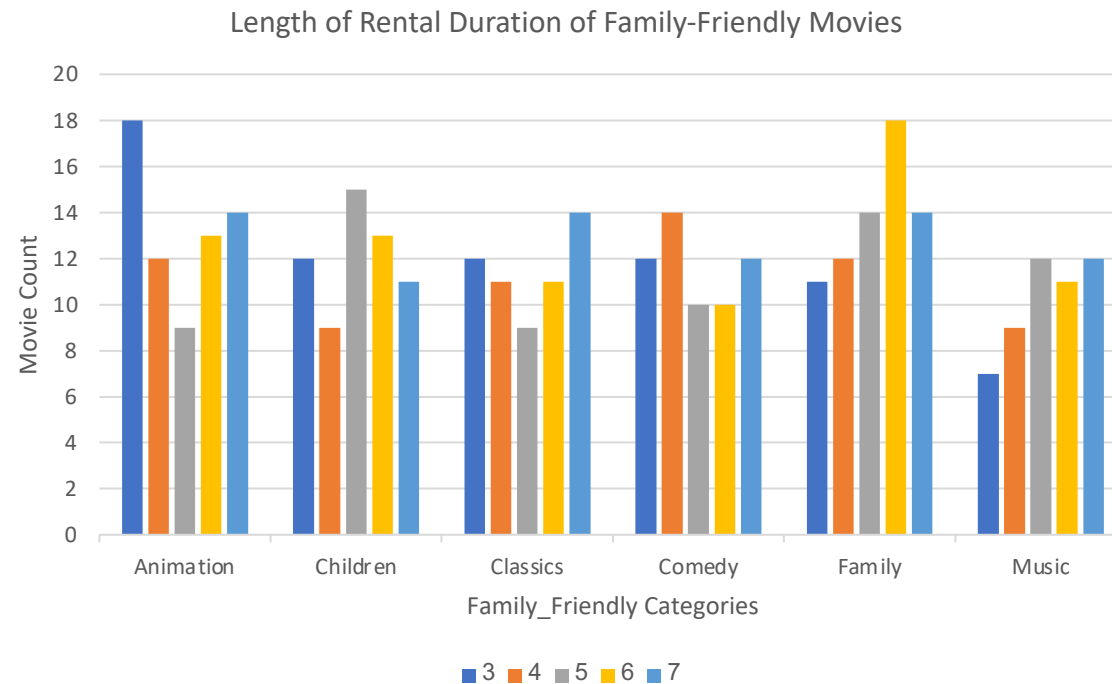Programming for Data Science with Python Nanodegree Program

Which Movies that Families Watching more?
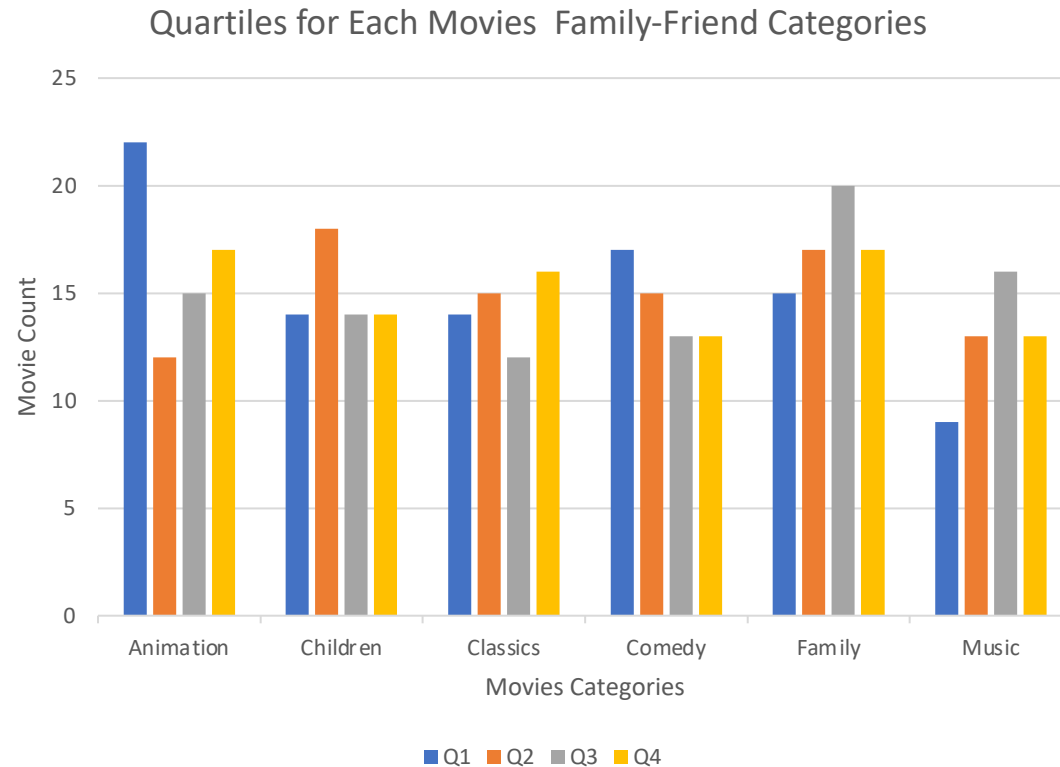

Movies that Family Watching

This bar chart show the number of movies under each family-friendly categories. As shown the Families watching FAMILY movies more by over than 65 movies.

02

How the length of rental duration of these family-friendly movies compares to the duration that all movies are rented for.

Length of Rental Duration of Family-Friendly Movies

This bar chart show the number of Movies for each family-friendly categories based on rental duration (Days). As shown the highest Animation movies rental duration is 3 day, Children movies 5 days, Classics movies 7 days, Comedy movies 4 days, Family movies 6 days, and Music 5 and 7 days.
So, the category that have the most length of rental duration is Classics and Music.
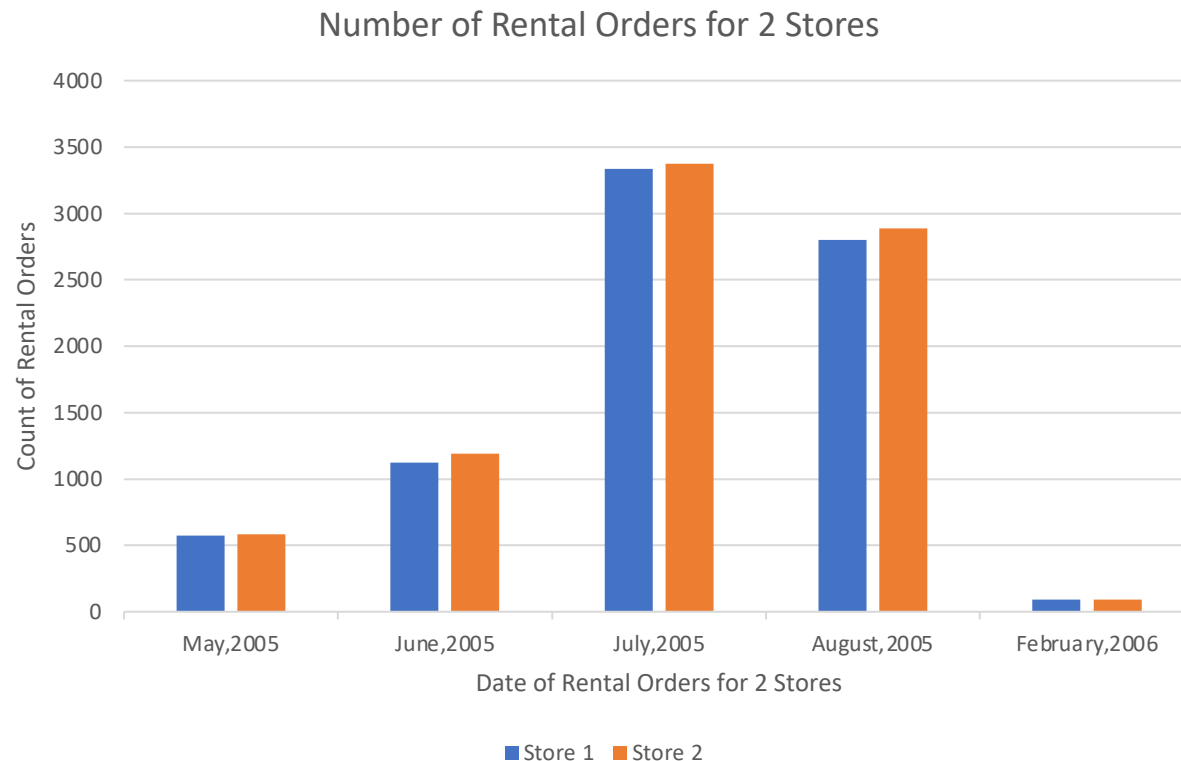
03 Compare between the family-friendly category based on each of the quartiles, and the corresponding count of movies within each combination of film category for each corresponding rental duration category.

Quartiles for Each Movies Family-Friend Categories

This bar chart show the number of Movies for each family-friendly categories based on quartiles. As shown:
- The highest Q1 among the whole categories is Animation.
- The highest Q2 among the whole categories is Children.
- The highest Q3 among the whole categories is Family.
- The highest Q4 among the whole categories are Animation and Family.

How the two stores compare in their count of rental orders during every month for all the years we have data for?

Number of Rental Orders for 2 Stores

This bar chart show the number of rental orders for two stores in each month for all years for family-friendly categories. As shown both stores have the largest rental orders in July 2005 and lowest rental orders in February 2006. Also store 2 has rental orders more than store 1 over all months.