

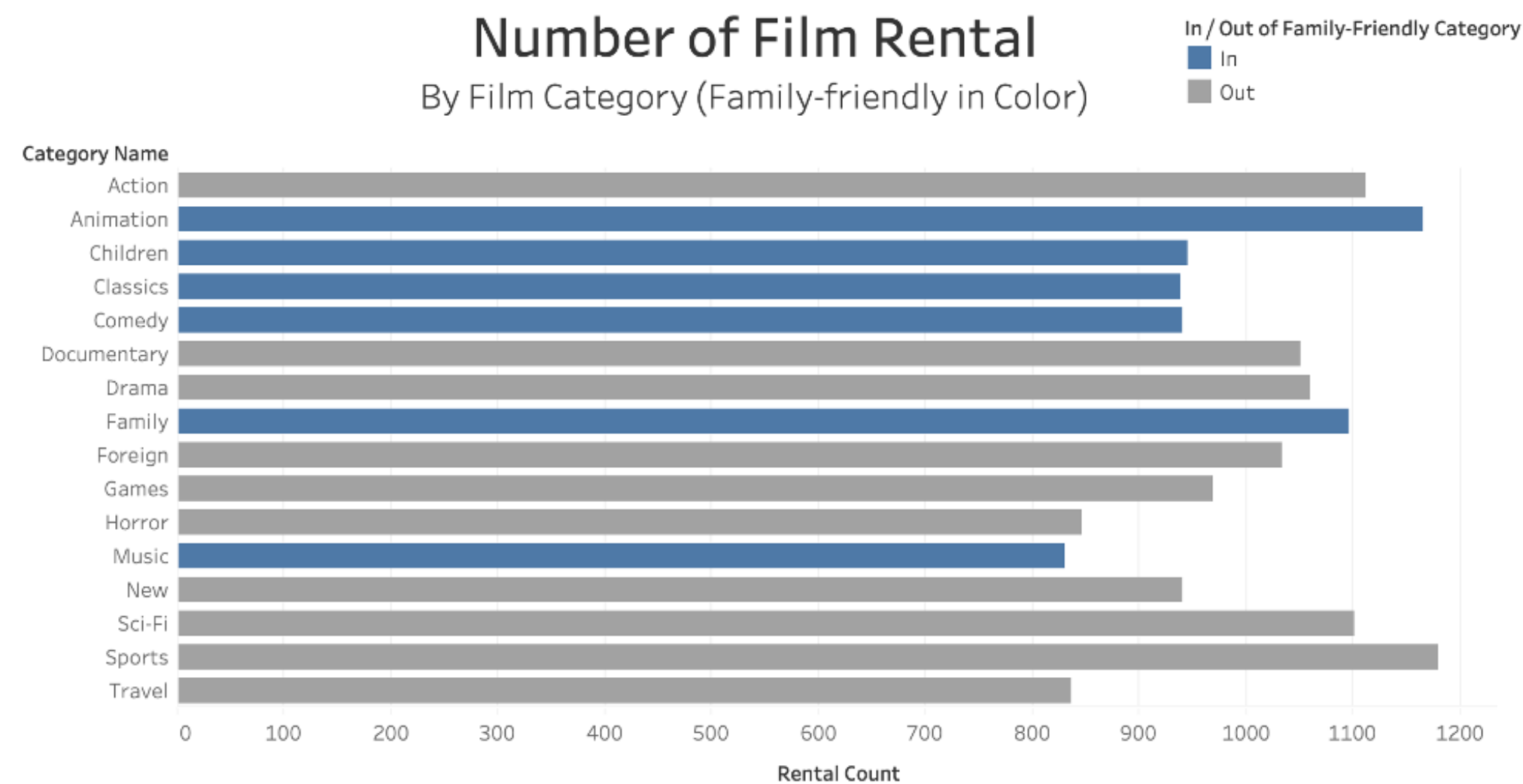
Investigation of a Relational Database with SQL

Project Presentation by George Nie (May 2020)

Programming for Data Science with Python Nanodegree

Q1: What is the number rental records for each film category?

Question derived from Udacity Question Set 1 - Question 1



Sum of Rental Count for each Category Name. Color shows details about In / Out of Family-Friendly Category.

Remark:

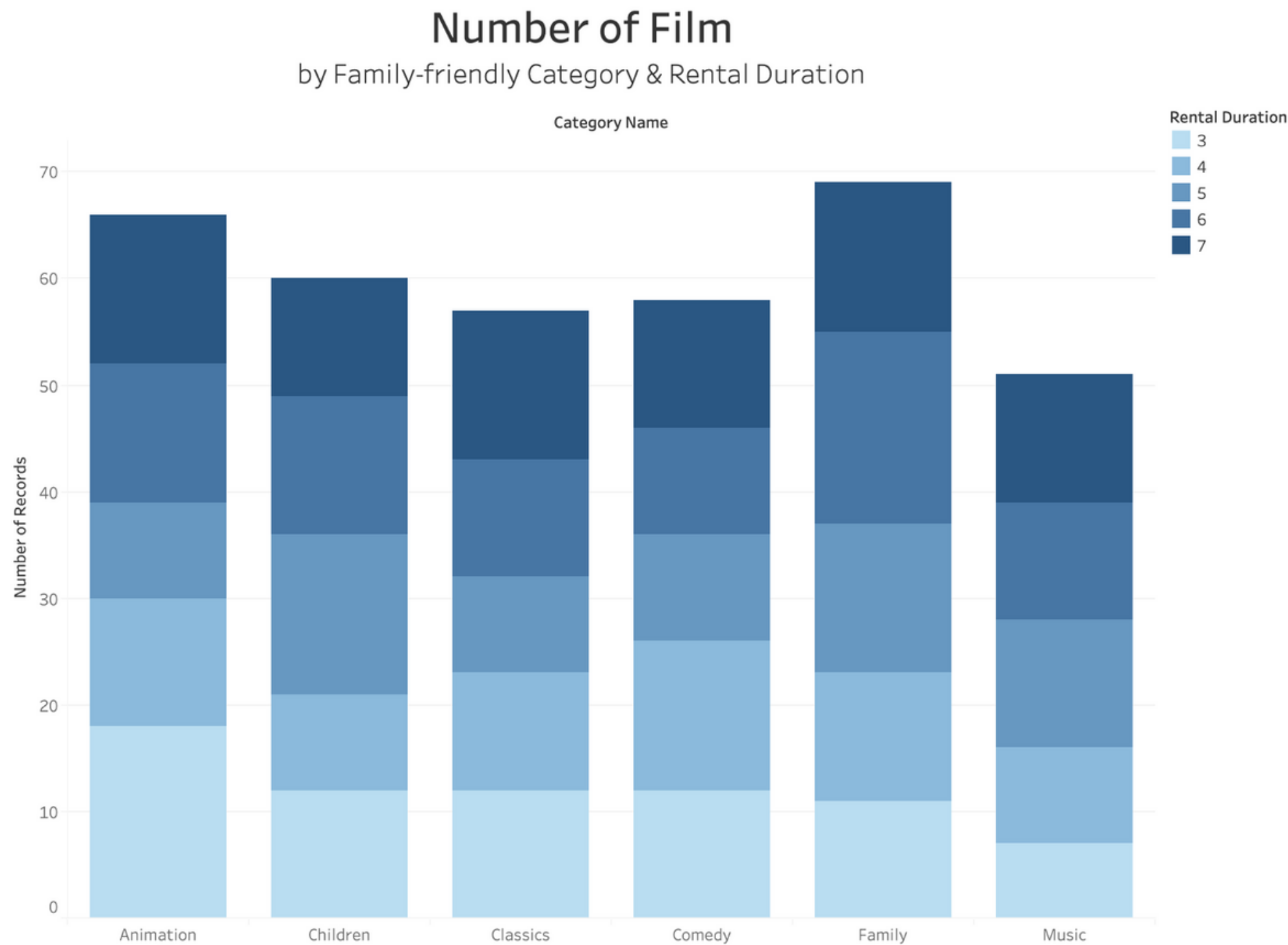
For family-friendly film categories (in blue), "Animation" films are the ones that have been rented the most.

For non family-friendly film categories (in grey), "Sports" films are the ones that have been rented the most.

Overall speaking, "Sports" films have the highest rental records.

Q2: For family-friendly films, what are insights behind their rental duration?

Question derived from Udacity Question Set 1 - Question 2



Number of Records for each Category Name. Color shows details about Rental Duration.

Remark:

For Animation, most people rent for 3 days;

For Children films, most people rent for 5 days;

For Classics, most people rent for 7 days;

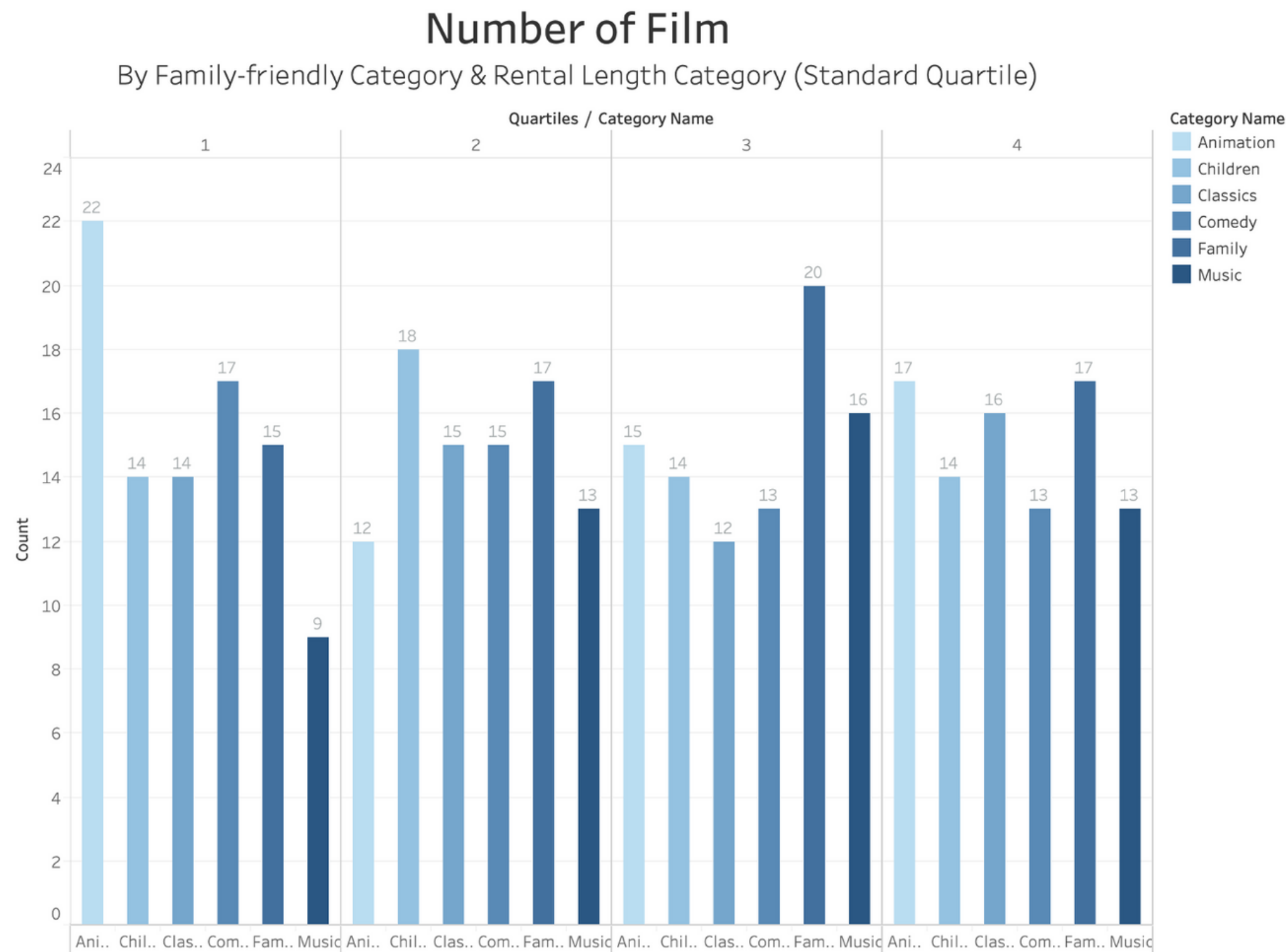
For Comedy, most people rent for 4 days;

For Family, most people rent for 6 days;

For Music films, most people rent for 5 or 7 days.

Q3: What is the number of rental records by film category & rental length?

Question derived from Udacity Question Set 1 - Question 3



Sum of Count for each Category Name broken down by Quartiles. Color shows details about Category Name.

Remark:

For the 1st quartile of rental length, Animation films are rented the most;

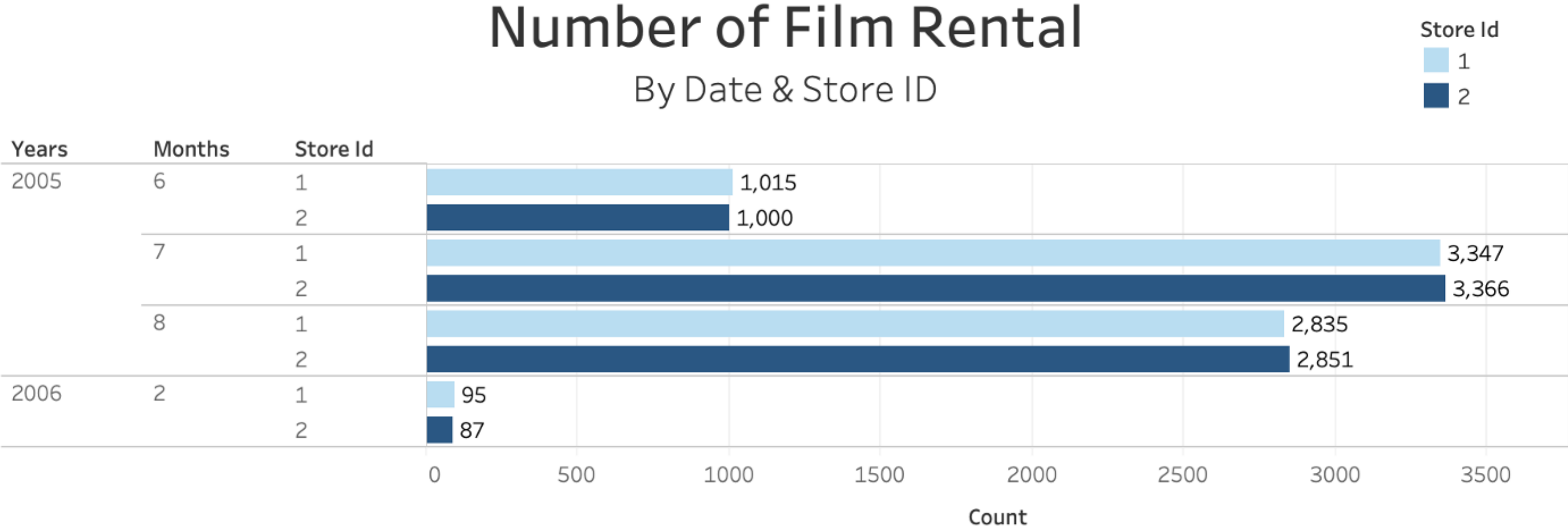
For the 2nd quartile of rental length, Children films are rented the most;

For the 3rd Quartile of rental length, Family films are rented the most;

For the 4rd Quartile of rental length, Animation and Family are rented the most.

Q4: What is the number of rental records by date and store?

Question derived from Udacity Question Set 2 - Question 1



Sum of Count for each Store Id broken down by Years and Months. Color shows details about Store Id.

Remark:

During July 2005, there is an significant increase in film rental in both stores as compared to other months of 2005; June 2005 has the least movie rental records.

There is no significant difference of the number of film rental between Store 1 and Store 2