

The background is a solid blue color with a collage of various data science and technology icons. In the top left, there's a cloud containing a gear, an envelope, and a pie chart, next to a database cylinder icon. In the top right, there's a red clipboard with a line graph and some papers. In the bottom left, there's a magnifying glass over a bar chart, a calculator, and a small database cylinder. In the bottom right, there's a laptop and a computer mouse. In the center, there's a large, light blue circle containing a dark blue cylinder with the letters 'SQL' on it.

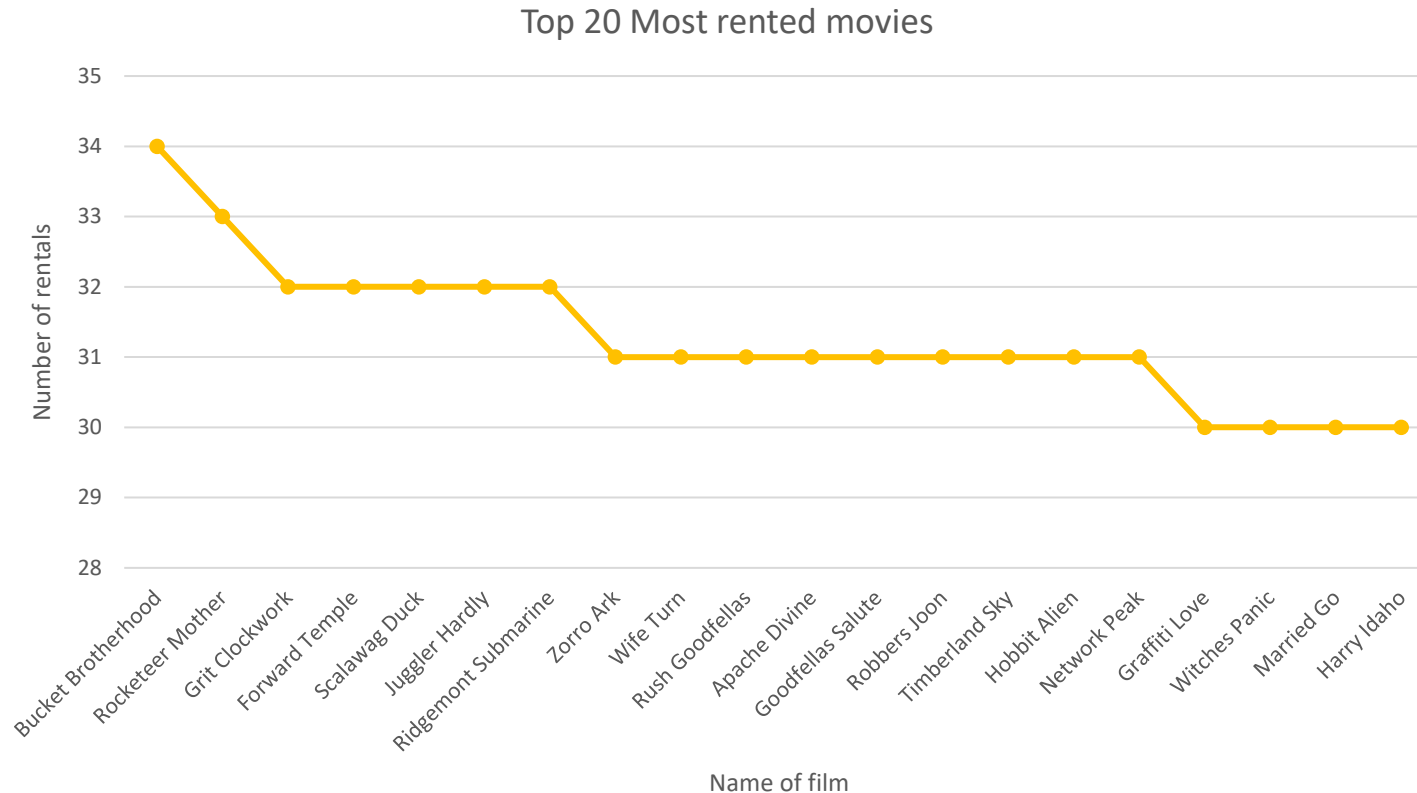
# Investigate a relational database using SQL

Udacity Programming for Data Science with Python

Project One

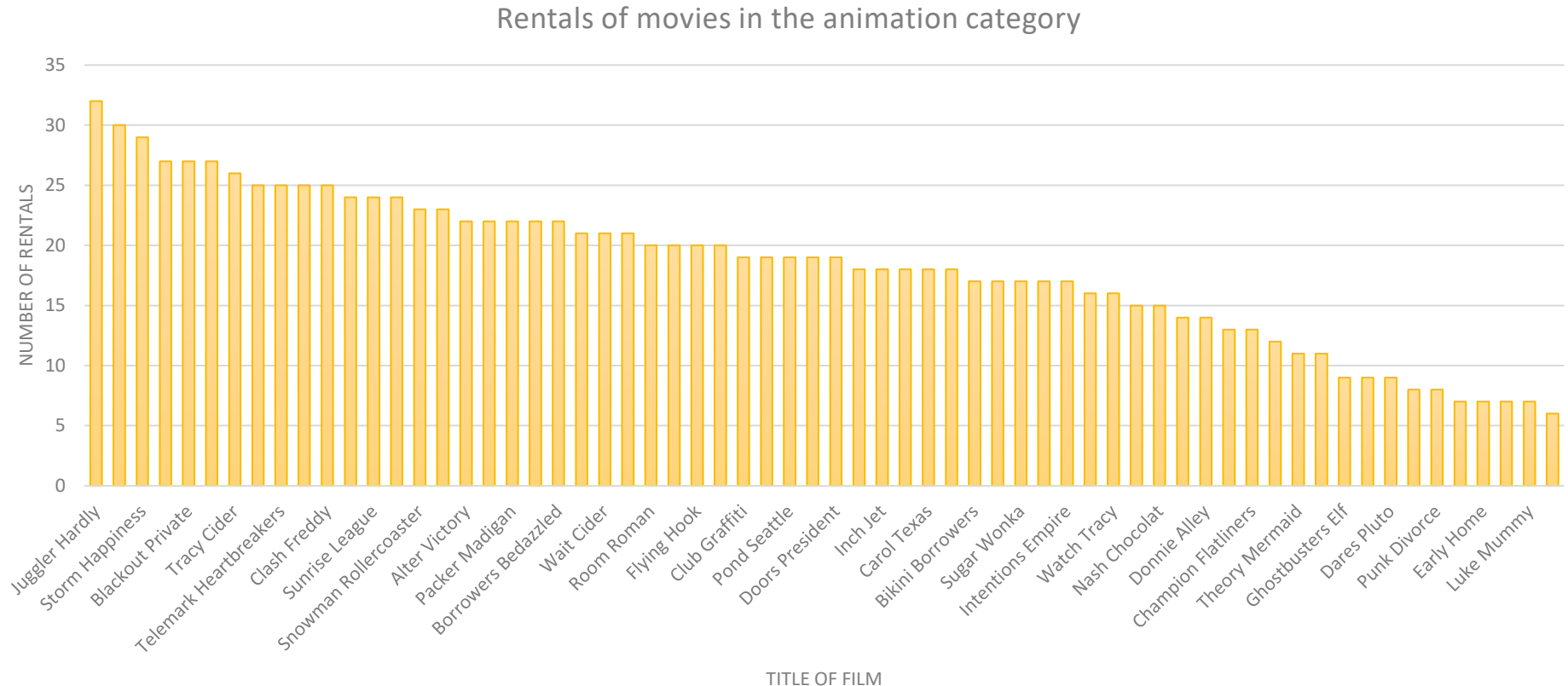
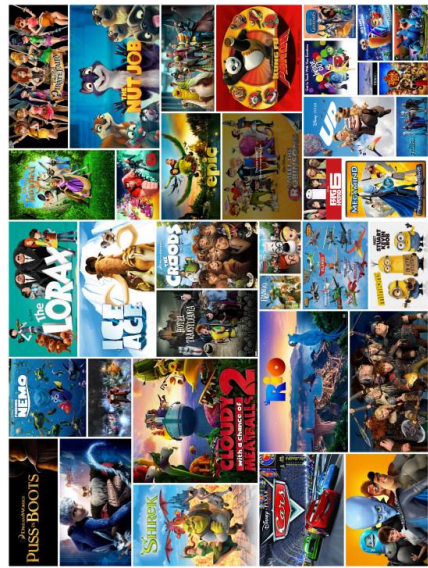
Daniel Uusitalo

# What were the 3 most rented films in the database?



The three most rented titles in the database are Bucket Brotherhood with 34 rentals, Rocketeer Mother with 33 rentals and Grit Clockwork with 32 rentals.

# What was the most and least rented title in the category animation?

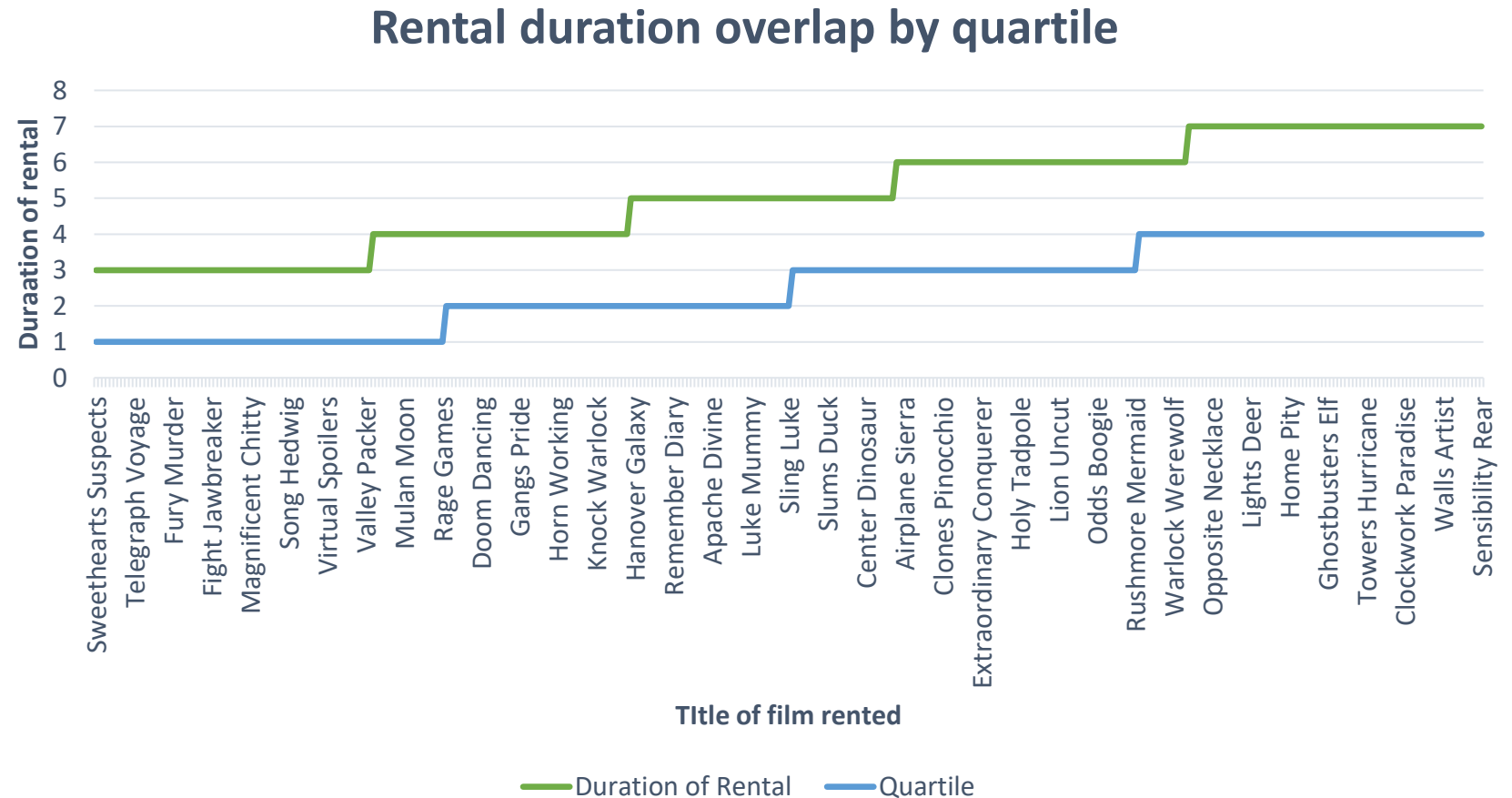


The most rented film in the animated category is titled Juggler Hardly with 32 rentals. The least rented title in the category is Duck Racer with 6 rentals. The range between these two titles equates to 26.

# What rental durations caused overlaps in standard quartiles derived from overall rental duration from the database?

There is an overlap in duration from Q1 to Q2 at the duration 4, an overlap in the duration from Q2 to Q3 at 5, and an overlap from Q3 to Q4 at duration 6.

The unique values present in Q1 are 3 and 4, 5 in Q2, 6 in Q3 and 7 in Q4.



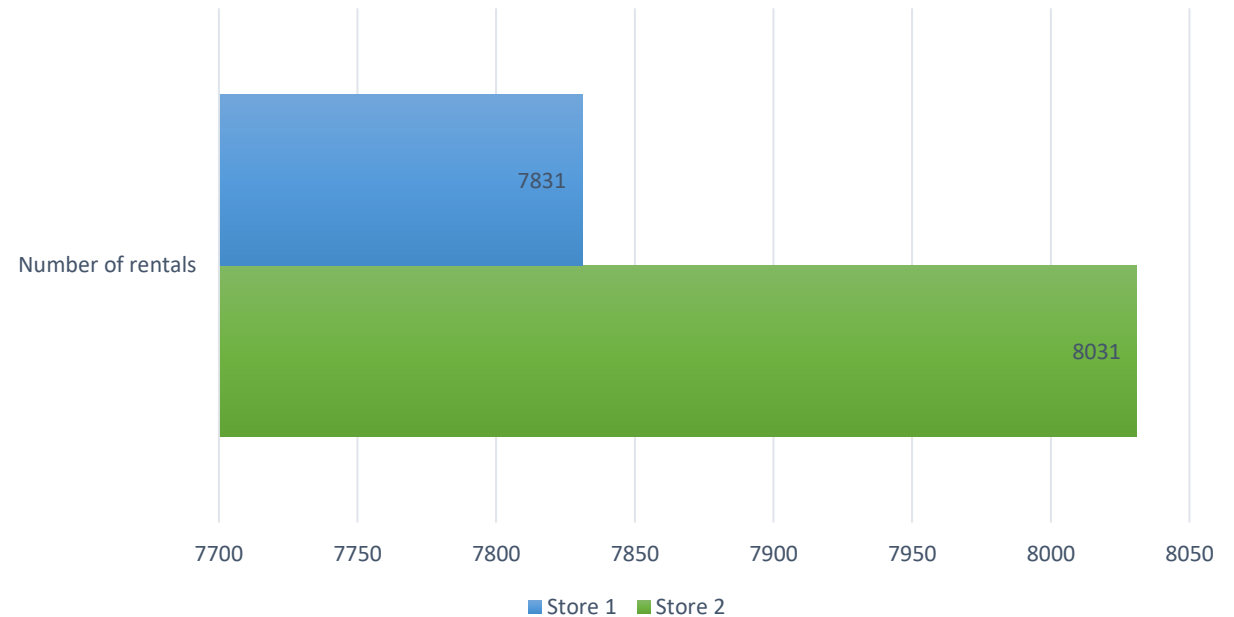
# Which store had more rentals in 2005?



PERCENTAGE OF RENTALS IN 2005 BY STORE



Rentals in 2005 by store



Store 2 rented out 51 % of the rentals made between the two stores in 2005. Store 2 hosted 8031 rentals in 2005, compared to store 1 which hosted 7831.

# Sources for pictures

- <https://www.bitdegree.org/learn/learn-sql>
- <https://time.com/5361417/new-oscar-category-popular-film/>
- <https://animationcompilation.wordpress.com/>
- <https://www.shutterstock.com/image-photo/movie-rentals-neon-sign-137027423>