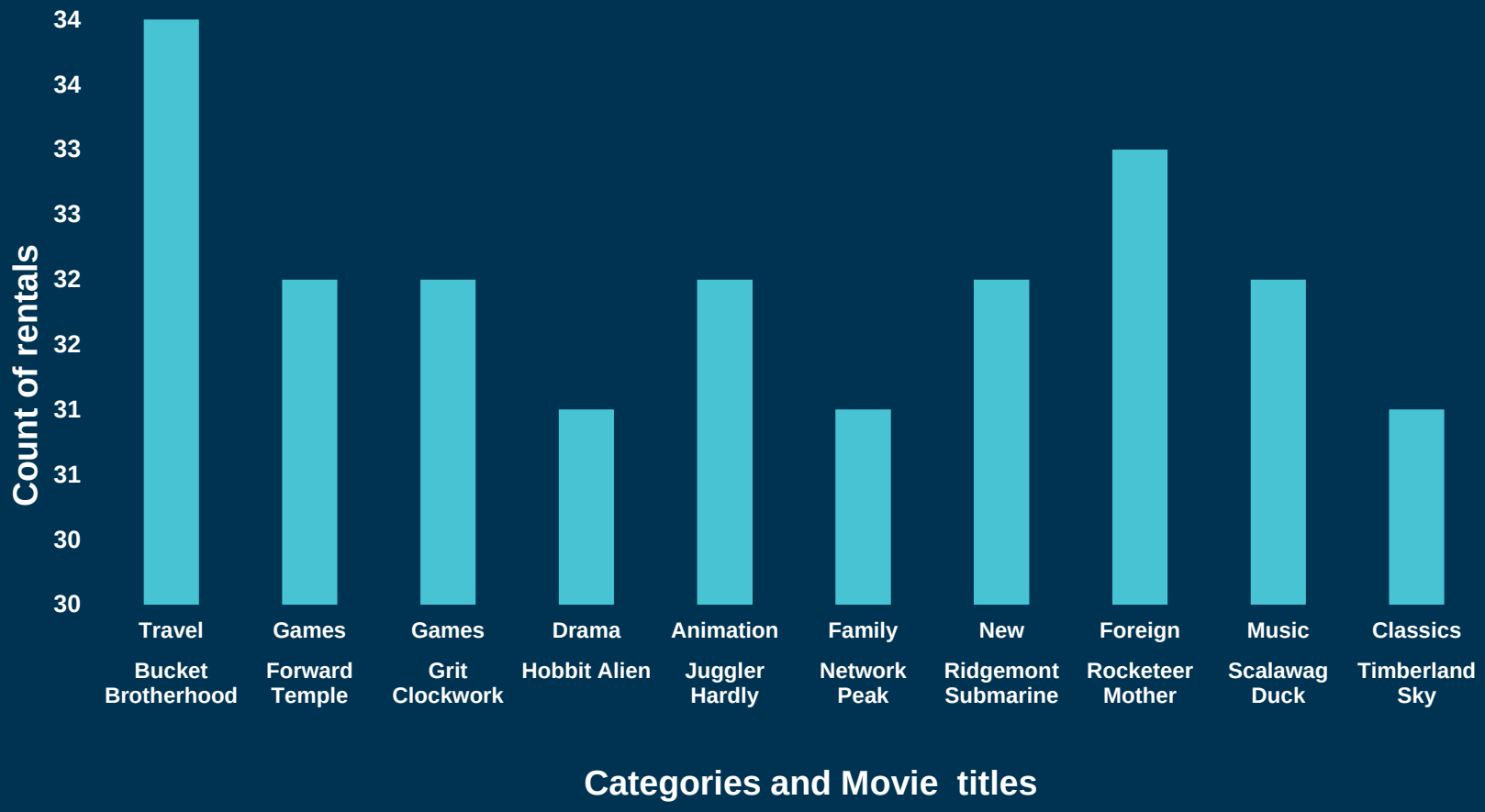
Modesta Uzo

Project: Investigate a Relational Database

24/08/2023

What are the most popular film categories based on the number of rentals?

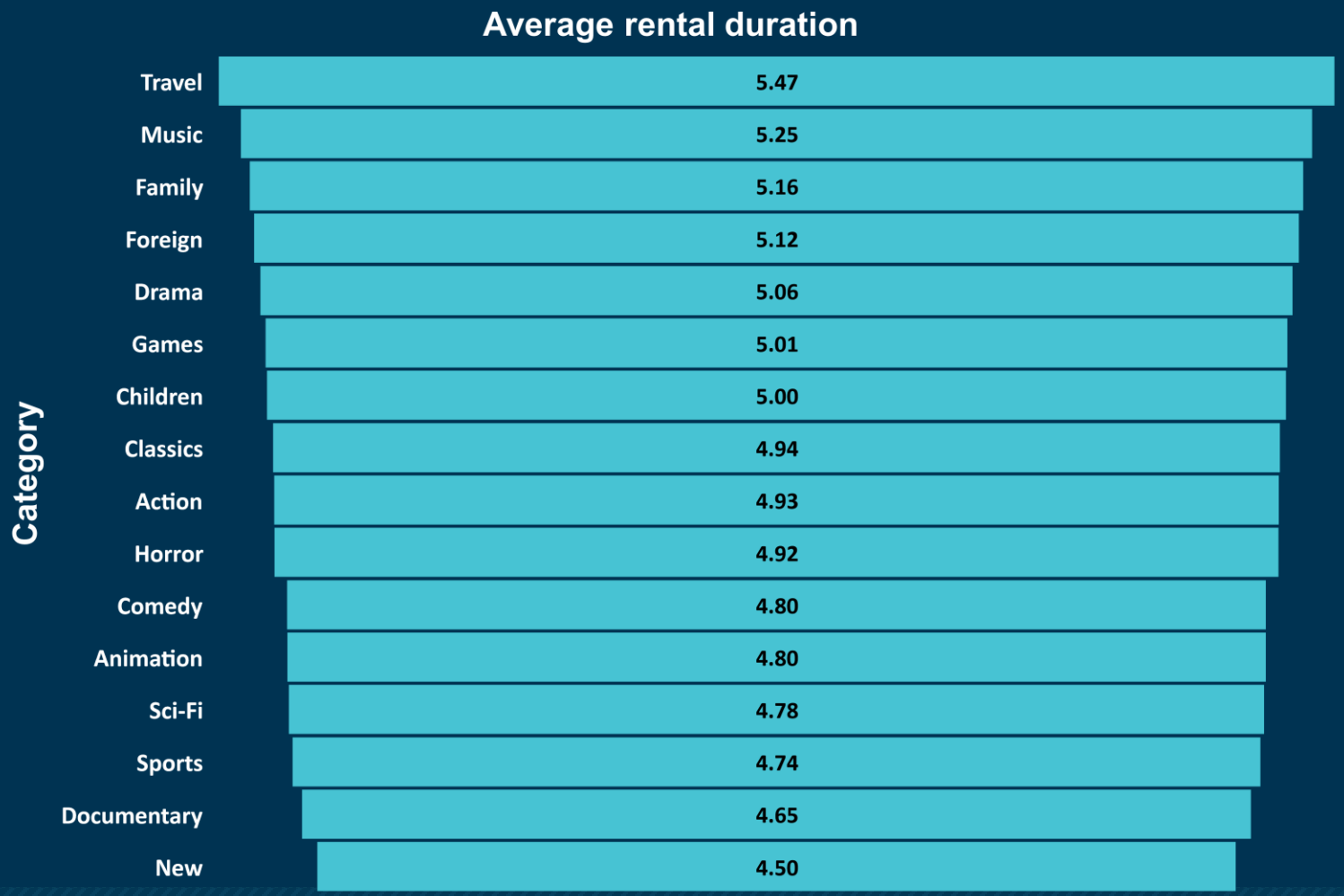


OBSERVATION

I determined the most popular film categories and their movie titles based on the number of rentals. This involved joining the category, film category, film, inventory and rental tables and then aggregating the data to count rentals for each category.

From the visualization, it is seen that the most popular film category based on the number of rentals was *travel* which has a total count of 34 and the least popular film category was *Classics* with a total count of 31.

What is the average rental duration for each category?

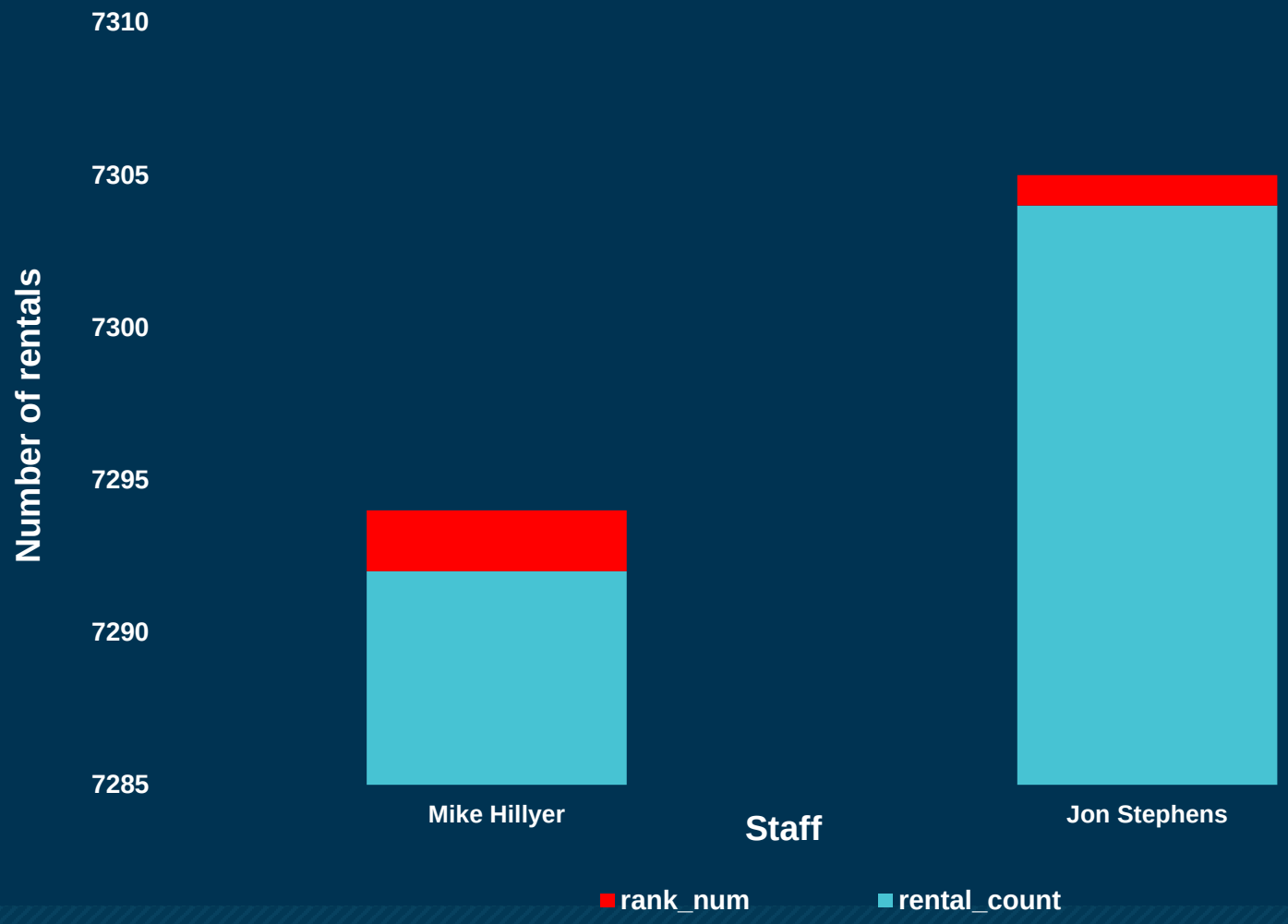


OBSERVATION

I determined the average rental duration for each film category. This involved joining the category, film category, film, inventory and rental tables and then aggregating the data to calculate the average duration for each rental using the AVG function.

From the visualization, it is seen again that *travel* had the highest average rental duration which has an average of 5.47 and *New* being the least with an average rental duration of 4.50.

What is the Performance Analysis of Staff based on the number of rentals they've processed?

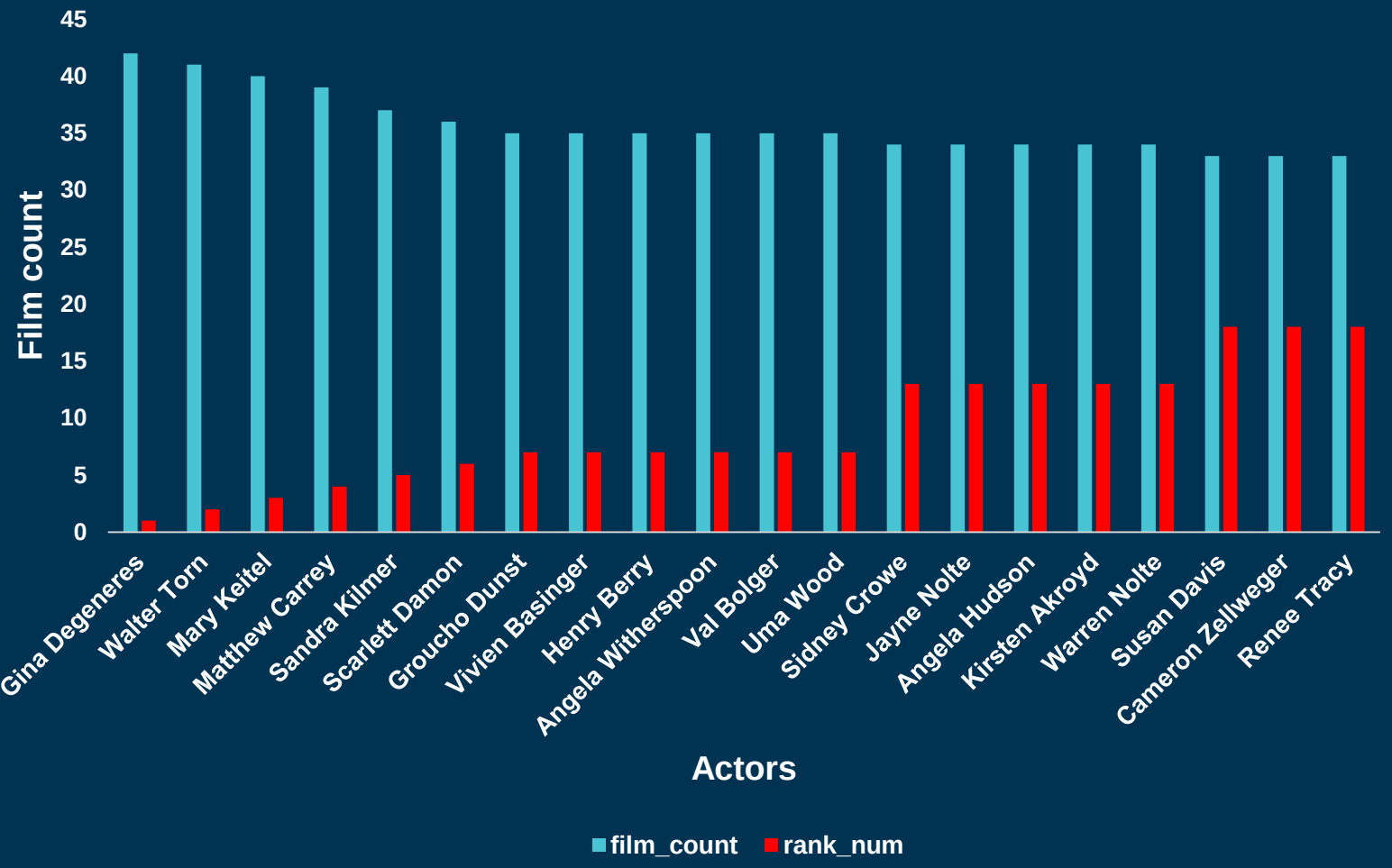


OBSERVATION

There is a total of 2 staff members. I ranked the staff members based on the number of rentals they have processed. I joined the 'staff" and "rental" tables, and then used a window function to rank the staff members.

From the visualization, Jon Stephens had the highest staff performance and was ranked number 1 with a total rental count of 7304.

Who are the top Actors that appeared in most films?



OBSERVATION

I found the top 20 actors who appeared in the most films. I joined the "actor" and "film actor" tables, and then used a window function to rank actors based on the number of films they have acted in.

Gina Degeneres was ranked number 1 with a film count of 42.