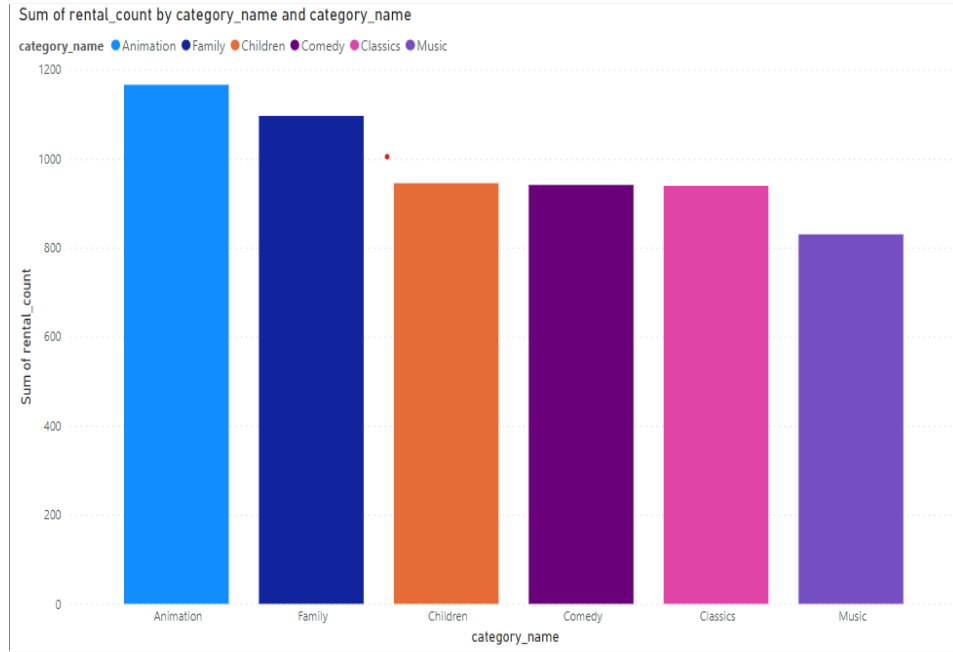
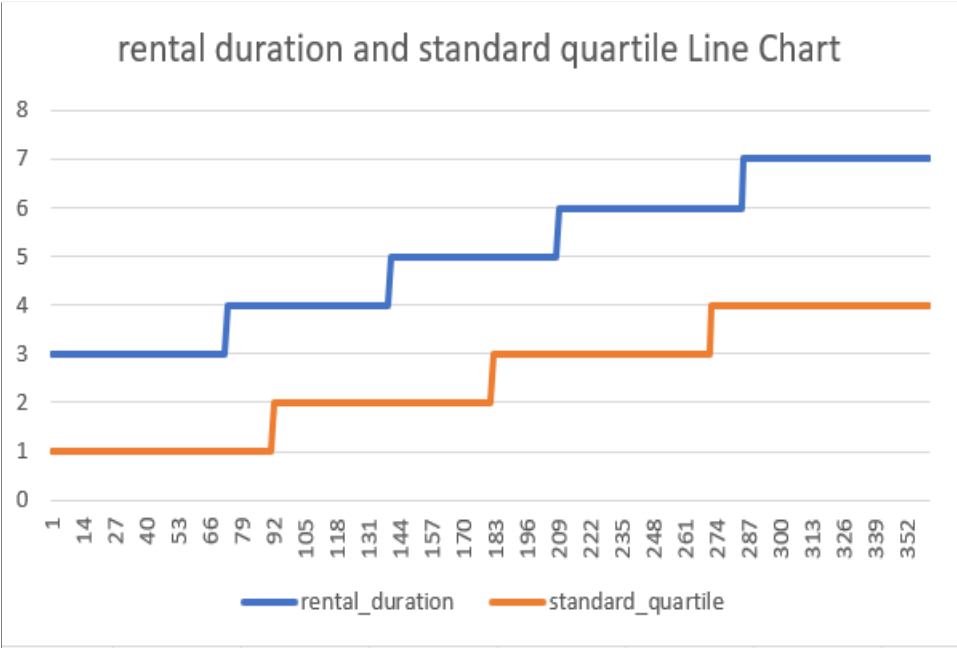


Question 1: Create a query that lists each movie, the film category it is classified in, and the number of times it has been rented out. What are the most and least friendly-family movies category rented ?



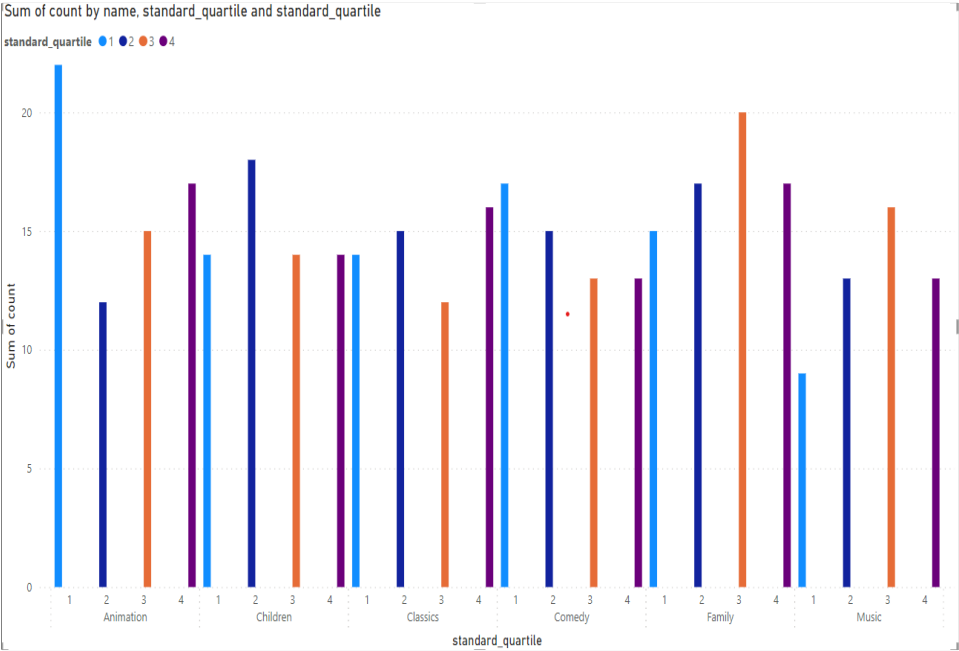
- As we see, the most two categories rented are the animation, and family categories, and the least one is music.
- We can also notice that children, comedy, and classics categories have the same rental count.

Question 2: provide a table with the movie titles and divide them into 4 levels (first_quarter, second_quarter, third_quarter, and final_quarter) based on the quartiles (25%, 50%, 75%) of the average rental duration(in the number of days) for movies across all categories. What are the longest and smallest rental durations in days ?



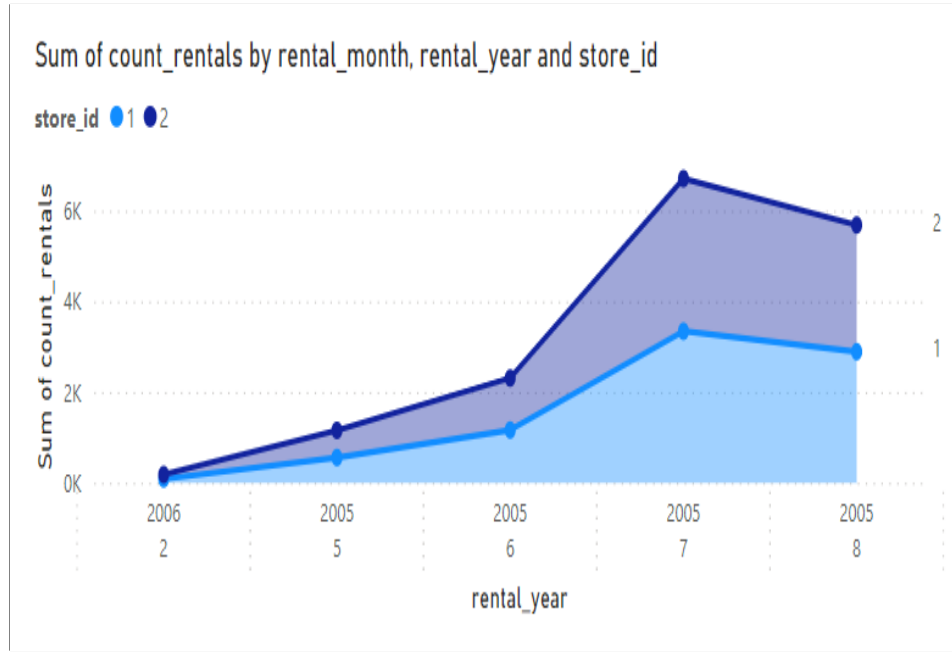
- As we can see from this line graph, the smallest rental duration is three days, and the longest duration is seven days.

Question 3: provide a table with the family-friendly film category, each of the quartiles, and the corresponding count of movies within each combination of film category for each corresponding rental duration category. For which quantile does the most of family movies each category belong?



- We can see that the most of animation and comedy movies are in the first quartile, children movies in the second quartile, classics in the fourth quartile, and the family and the music movies in the third quartile.

Question 4: Write a query that returns the store ID for the store, the year and month and the number of rental orders each store has fulfilled for that month. Compare between each store by the number of rental orders per month? What do you notice?



- We number of rental orders of the store 2 is greater than store 1.
- We can notice that the highest number of rental orders of both stores was on July 2005 and then the rental orders decreased dramatically in both of them.