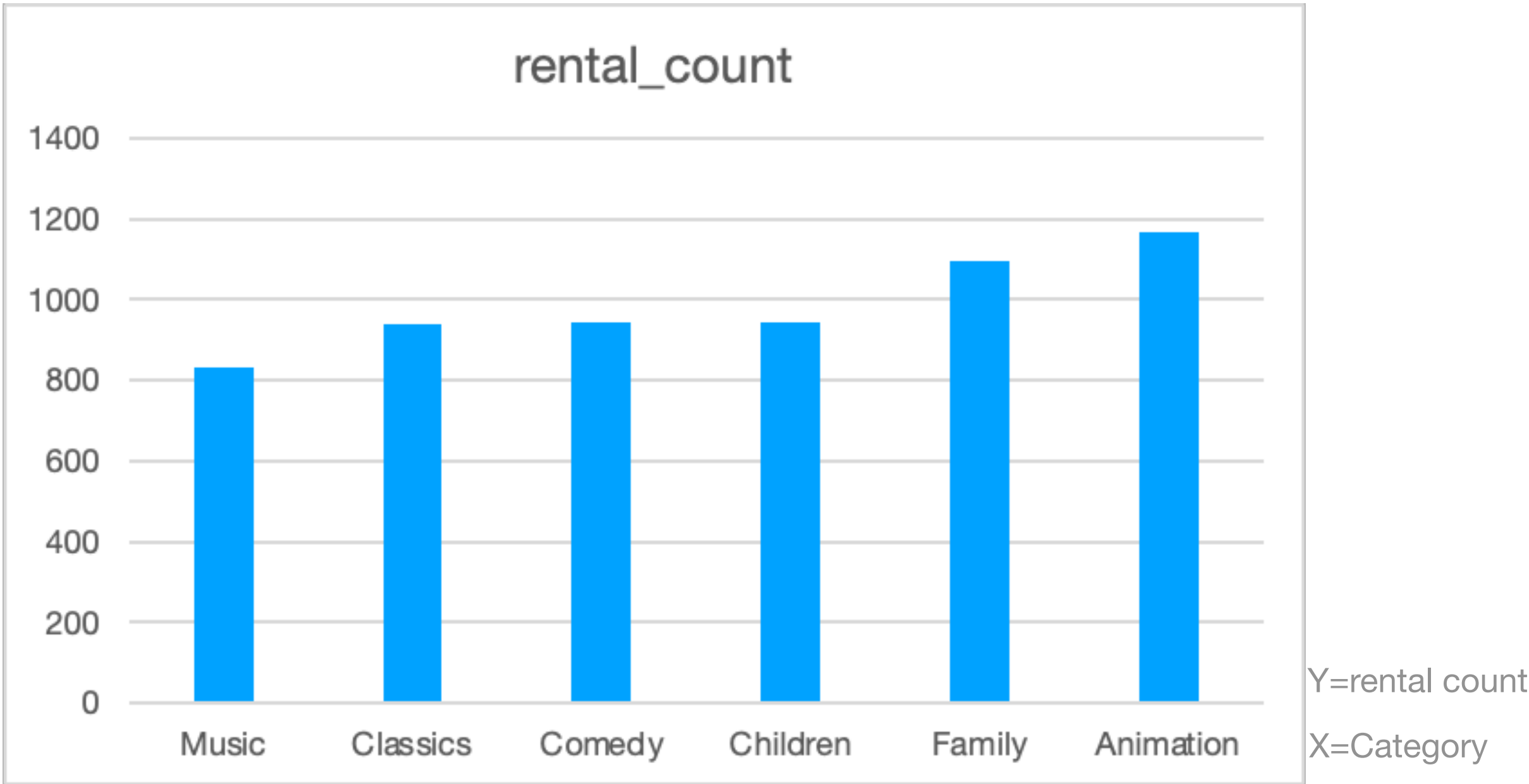# Question 1

We want to understand more about the movies that families are watching. The following categories are considered family movies: Animation, Children, Classics, Comedy, Family and Music.

Create a query that lists each movie, the film category it is classified in, and the number of times it has been rented out.


We can see in the figure each film category with the number of times it has been rented out

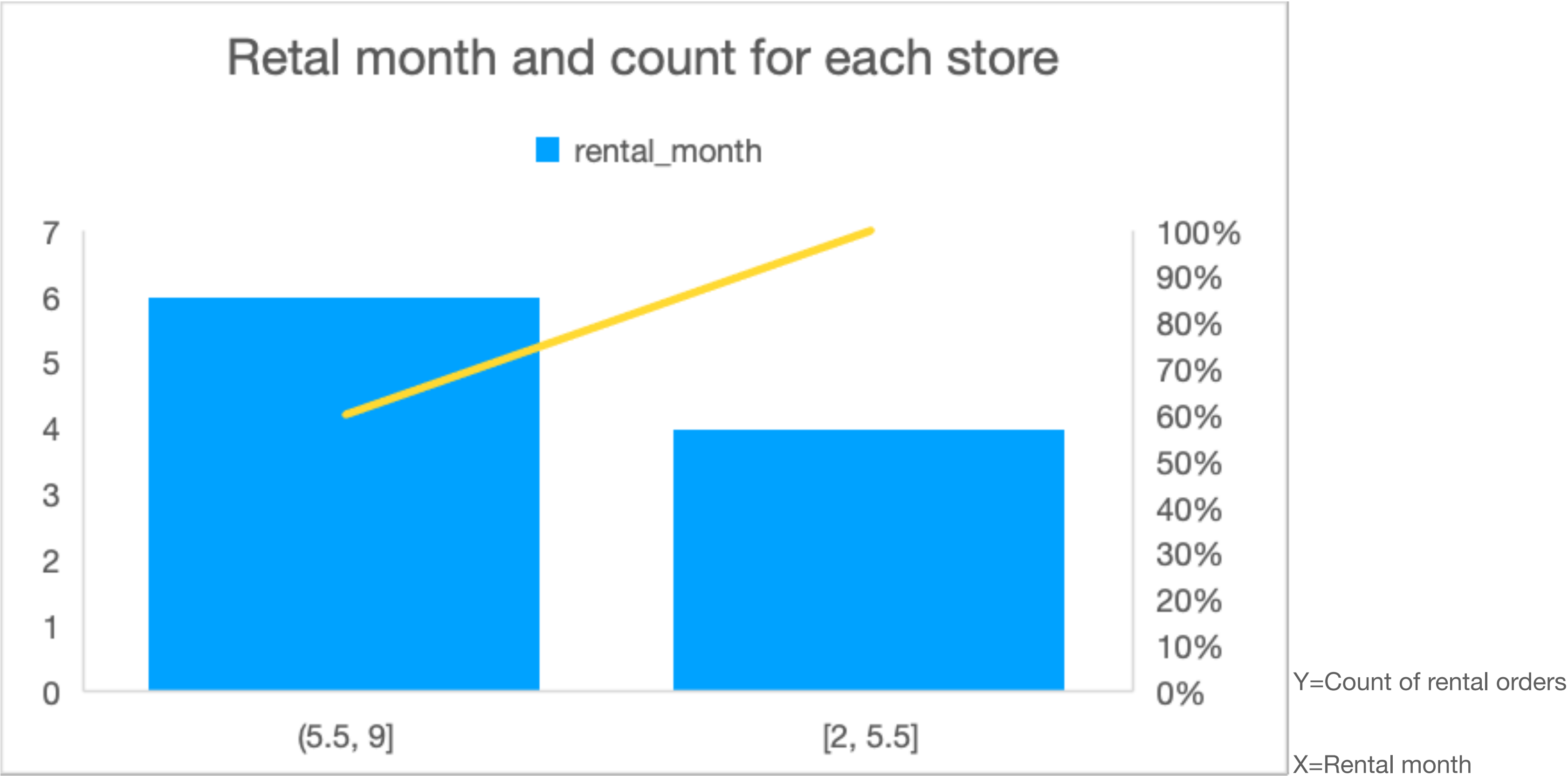This visualization correspond to the 1st query in the text file (Query1)

Question 2

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.

standard quartile and the count of movies within each combination of film category

Y=Film category
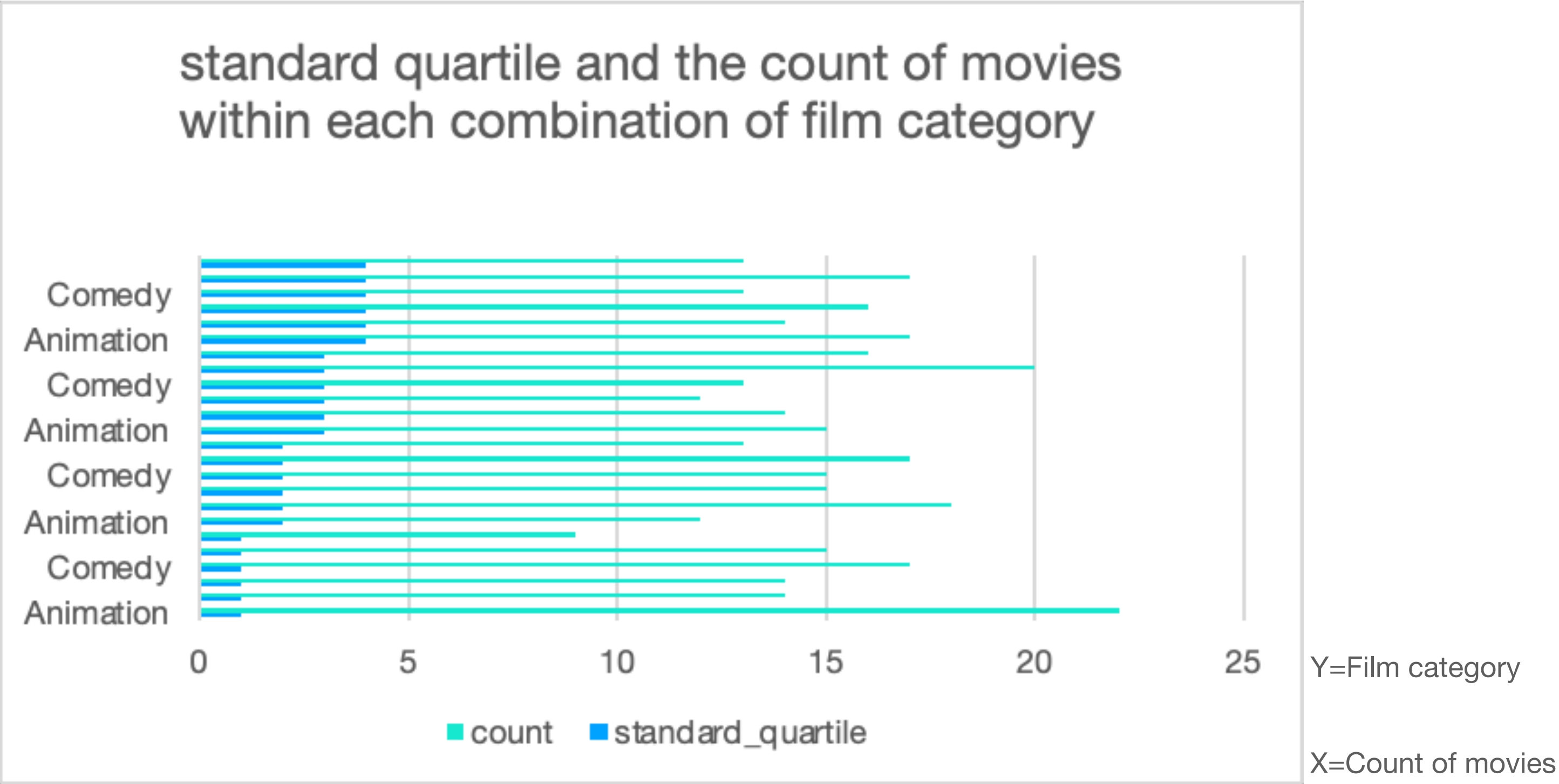
X=Count of movies

We can see in the graph the representation of the standard quartile and the count of movies within each combination of film category

This visualization correspond to the 2st query in the text file (Query2)

Question 3

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. Your table should include a column for each of the following: year, month, store ID and count of rental orders fulfilled during that month.

Retal month and count for each store

We can see the graph representation of the two stores compare in their count of rental orders during every month for all the years we have data for
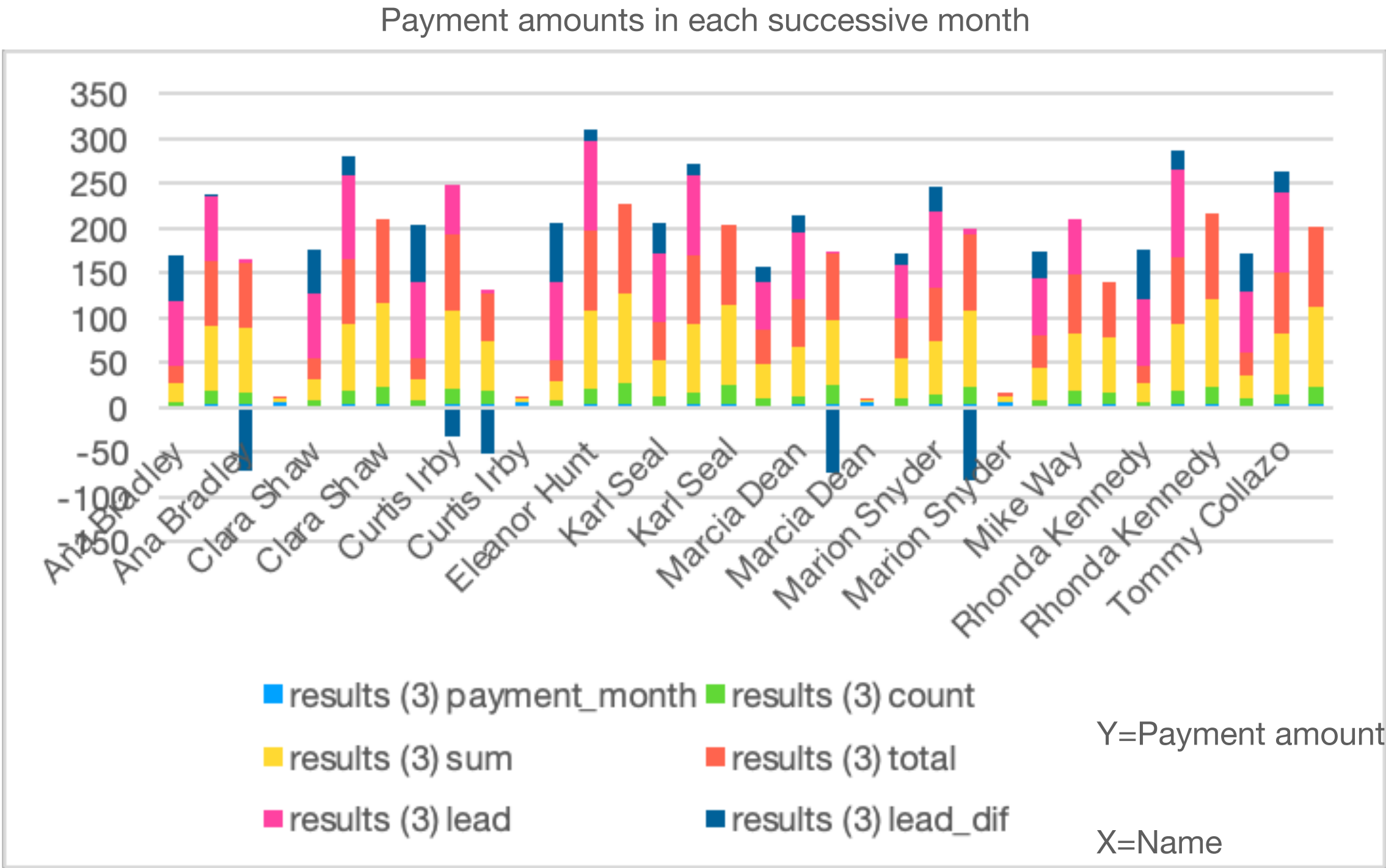
This visualization correspond to the 3st query in the text file (Query3)

Question 4

for each of these top 10 paying customers, I would like to find out the difference across their monthly payments during 2007. Please go ahead and **write a query to compare the payment amounts in each successive month.** Repeat this for each of these 10 paying customers. Also, it will be tremendously helpful if you can identify the customer name who paid the most difference in terms of payments.

results (3)

name	payment_mont	payment_yea	count	sum	total	lead	lead_dif	is_max
Ana Bradley	2	2007	4	19.96	19.96	71.84	51.88	
Ana Bradley	3	2007	16	71.84	71.84	72.88	1.04	
Ana Bradley	4	2007	12	72.88	72.88	2.99	-69.89	
Ana Bradley	5	2007	1	2.99	2.99			
Clara Shaw	2	2007	6	22.94	22.94	72.84	49.90	
Clara Shaw	3	2007	16	72.84	72.84	93.82	20.98	
Clara Shaw	4	2007	18	93.82	93.82			
Curtis Irby	2	2007	6	22.94	22.94	86.83	63.89	
Curtis Irby	3	2007	17	86.83	86.83	54.86	-31.97	
Curtis Irby	4	2007	14	54.86	54.86	2.99	-51.87	
Curtis Irby	5	2007	1	2.99	2.99			
Eleanor Hunt	this is the maxi	this is the ma	this is	this is	this is	this is	this is tl	this is the maximum differen
Eleanor Hunt	3	2007	18	87.82	87.82	100.78	12.96	
Eleanor Hunt	4	2007	22	100.78	100.78			
Karl Seal	2	2007	9	41.91	41.91	76.87	34.96	
Karl Seal	3	2007	13	76.87	76.87	89.80	12.93	
Karl Seal	4	2007	20	89.80	89.80			
Marcia Dean	2	2007	8	37.92	37.92	53.90	15.98	
Marcia Dean	3	2007	10	53.90	53.90	73.80	19.90	
Marcia Dean	4	2007	20	73.80	73.80	0.99	-72.81	
Marcia Dean	5	2007	1	0.99	0.99			
Marion Snyder	2	2007	8	44.92	44.92	58.88	13.96	
Marion Snyder	3	2007	12	58.88	58.88	85.82	26.94	
Marion Snyder	4	2007	18	85.82	85.82	4.99	-80.83	
Marion Snyder	5	2007	1	4.99	4.99			
Mike Way	2	2007	6	35.94	35.94	64.85	28.91	
Mike Way	3	2007	15	64.85	64.85	61.88	-2.97	
Mike Way	4	2007	12	61.88	61.88			
Rhonda Kenned	2	2007	4	19.96	19.96	74.85	54.89	
Rhonda Kenned	3	2007	15	74.85	74.85	96.81	21.96	
Rhonda Kenned	4	2007	19	96.81	96.81			
Tommy Collazo	2	2007	7	25.93	25.93	67.88	41.95	
Tommy Collazo	3	2007	12	67.88	67.88	89.82	21.94	
Tommy Collazo	4	2007	18	89.82	89.82			

Payment amounts in each successive month

Y=Payment amount

X=Name

In the figure we can see the comparison of payment amounts which shows the maximum difference of $64.87 by Eleanor hunt

This visualization correspond to the 4st query in the text file (Query4)