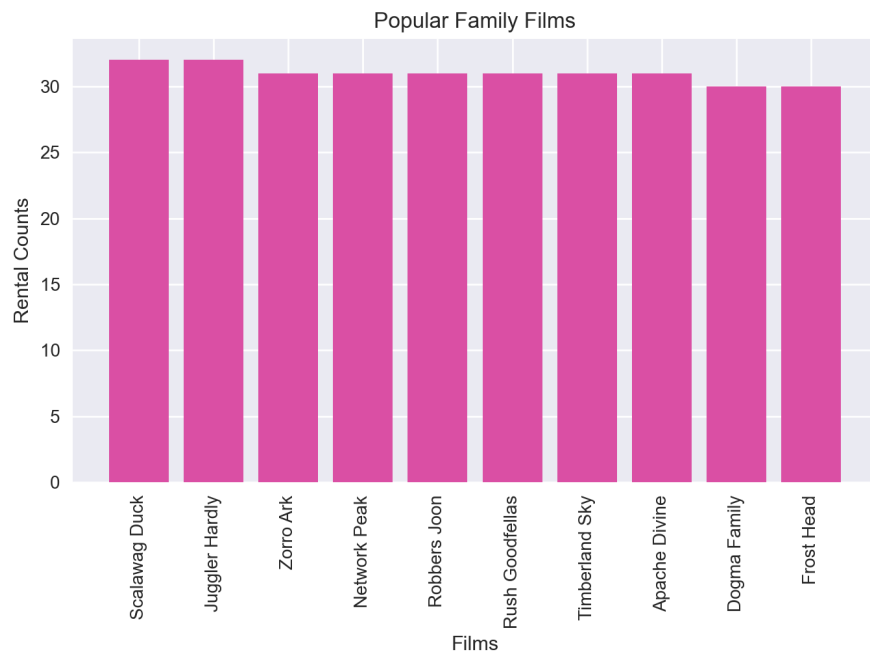


Investigate a Relational Database

Florian Bothe 2021-02-07

Question 1

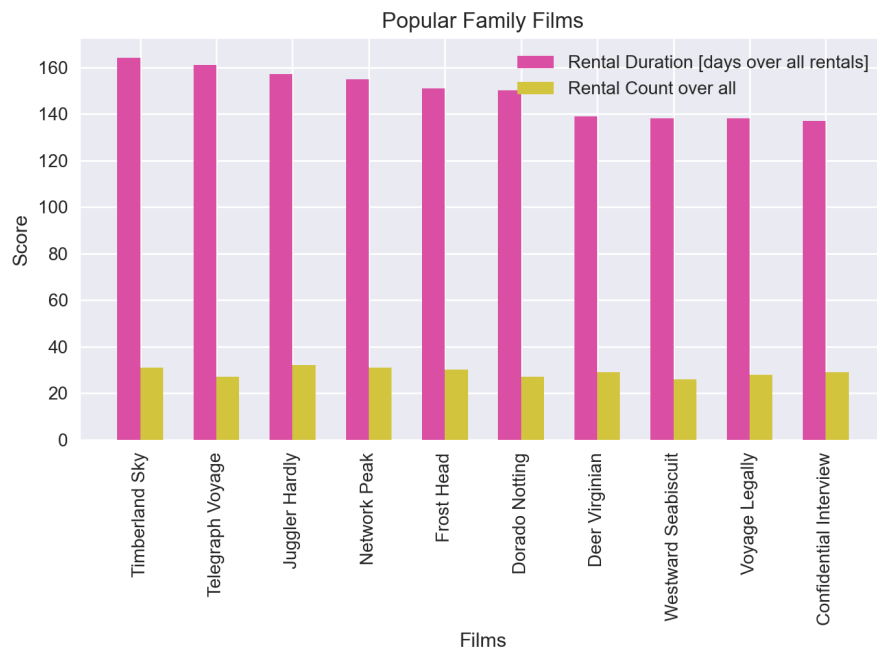
Which are the most popular family movies and how often they are rent out?



The most popular family movies have rental counts around 30

Question 2

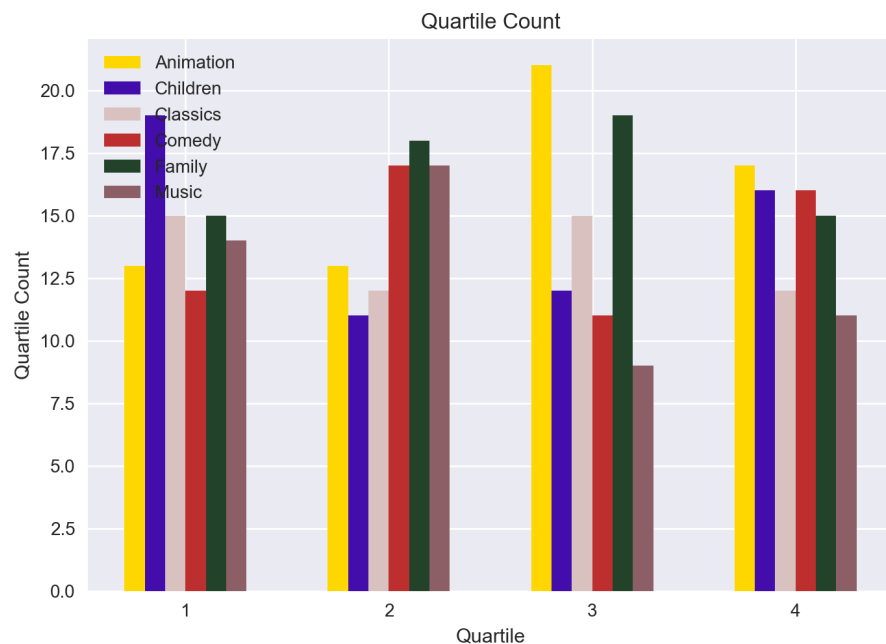
Is there a difference in popularity defined by rental duration and rental count?



The most popular family movies have rental counts around 30 and the distribution is almost constant. Therefore it makes no difference to find the popularity by rental duration or rental count.

Question 3

**How is the distribution of rental duration in the different quartiles
For the different categories?**



The distribution over rental duration quartiles in the different categories shows no clearly trend.

Of course the category Animation is top in a long rental duration and the category children is top in short Rental duration.

Question 4

We would like to know who were our top 10 paying customers, how many payments they made on a monthly basis during 2007, and what was the amount of the monthly payments. Here is the result table!

	pay_month	full_name	pay_countper	pay_amount
0	2007-04-01	Ana Bradley	12	72.88
1	2007-03-01	Ana Bradley	16	71.84
2	2007-02-01	Ana Bradley	4	19.96
3	2007-05-01	Ana Bradley	1	2.99
4	2007-04-01	Clara Shaw	18	93.82
5	2007-03-01	Clara Shaw	16	72.84
6	2007-02-01	Clara Shaw	6	22.94
7	2007-03-01	Curtis Irby	17	86.83
8	2007-04-01	Curtis Irby	14	54.86
9	2007-02-01	Curtis Irby	6	22.94
10	2007-05-01	Curtis Irby	1	2.99
11	2007-04-01	Eleanor Hunt	22	100.78
12	2007-03-01	Eleanor Hunt	18	87.82
13	2007-02-01	Eleanor Hunt	5	22.95
14	2007-04-01	Karl Seal	20	89.80
15	2007-03-01	Karl Seal	13	76.87
16	2007-02-01	Karl Seal	9	41.91

	pay_month	full_name	pay_countper	pay_amoun
18	2007-03-01	Marcia Dean	10	53.90
19	2007-02-01	Marcia Dean	8	37.92
20	2007-05-01	Marcia Dean	1	0.99
21	2007-04-01	Marion Snyder	18	85.82
22	2007-03-01	Marion Snyder	12	58.88
23	2007-02-01	Marion Snyder	8	44.92
24	2007-05-01	Marion Snyder	1	4.99
25	2007-03-01	Mike Way	15	64.85
26	2007-04-01	Mike Way	12	61.88
27	2007-02-01	Mike Way	6	35.94
28	2007-04-01	Rhonda Kennedy	19	96.81
29	2007-03-01	Rhonda Kennedy	15	74.85
30	2007-02-01	Rhonda Kennedy	4	19.96
31	2007-04-01	Tommy Collazo	18	89.82
32	2007-03-01	Tommy Collazo	12	67.88
33	2007-02-01	Tommy Collazo	7	25.93