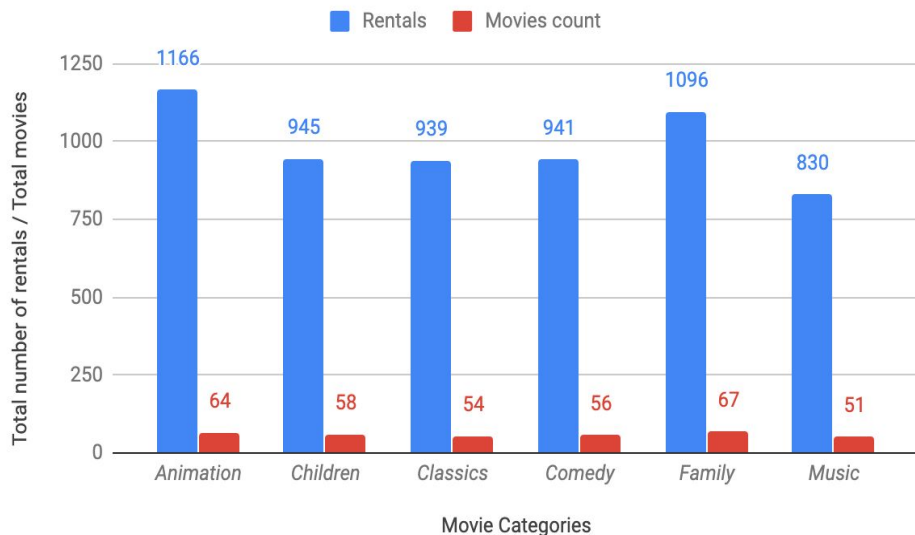# 1) Which category of movies is the most rented by families, and how many movies does it contain?

Total number of rentals per category

Among the categories considered for families we can see that Animation is the most rented by families with a total count of 64 movies
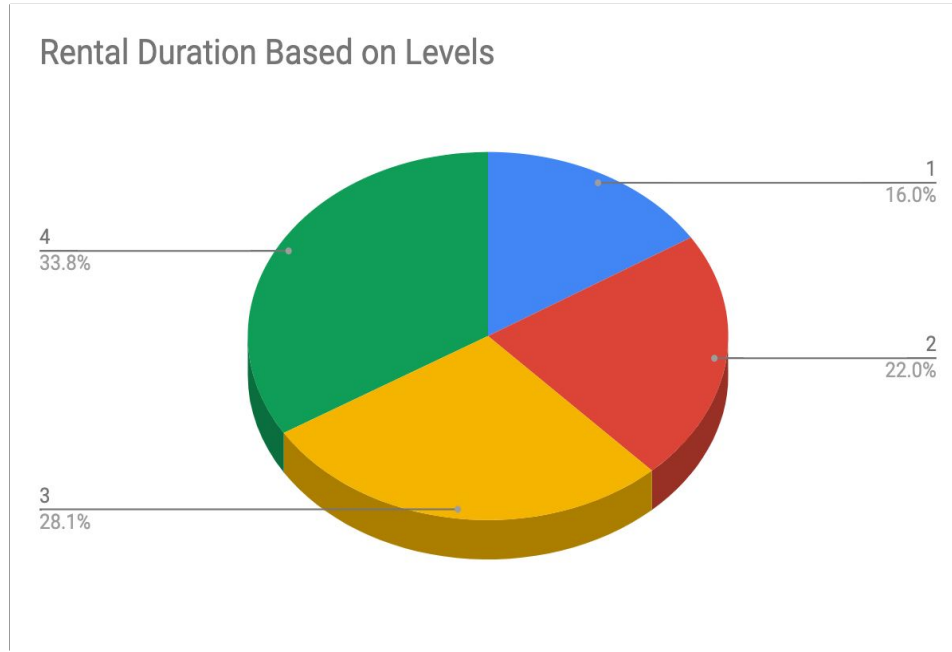
The data in this chart is obtain from the spreadsheet in the next slide.

Refer to Query N.1 from the Atom file

Movies name	category_name	Rentals
Juggler Hardly	Animation	32
Dogma Family	Animation	30
Storm Happiness	Animation	29
Blackout Private	Animation	27
Forrester Comancheros	Animation	27
Gangs Pride	Animation	27
Tracy Cider	Animation	26
Clash Freddy	Animation	25
Double Wrath	Animation	25
Oscar Gold	Animation	25
Telemark Heartbreakers	Animation	25
Horn Working	Animation	24
Oz Liaisons	Animation	24
Sunrise League	Animation	24
Snowman Rollercoaster	Animation	23
Titanic Boondock	Animation	23
Alter Victory	Animation	22
Borrowers Bedazzled	Animation	22

Canyon Stock	Animation	19
Carol Texas	Animation	18
Champion Flatlin	Animation	13
Clash Freddy	Animation	25
Club Graffiti	Animation	19
Crossroads Casu	Animation	21
Dares Pluto	Animation	9
Desire Alien	Animation	8
Dogma Family	Animation	30
Donnie Alley	Animation	14
Doors President	Animation	19
Double Wrath	Animation	25
Duck Racer	Animation	6
Early Home	Animation	7
Falcon Volume	Animation	22
Fight Jawbreaker	Animation	22
Flying Hook	Animation	20

2) We need to know the length of rental duration of these family-friendly movies by dividing them into 4 levels based on quartiles (25%, 50%, 75%) of the rental duration for movies across all categories.

Rental Duration Based on Levels

1
16.0%

2
22.0%

3
28.1%

4
33.8%

The pie chart shows us that 33.8% of movies fall into the last level, therefore the most of family-friendly movies are rented for a medium/long term.
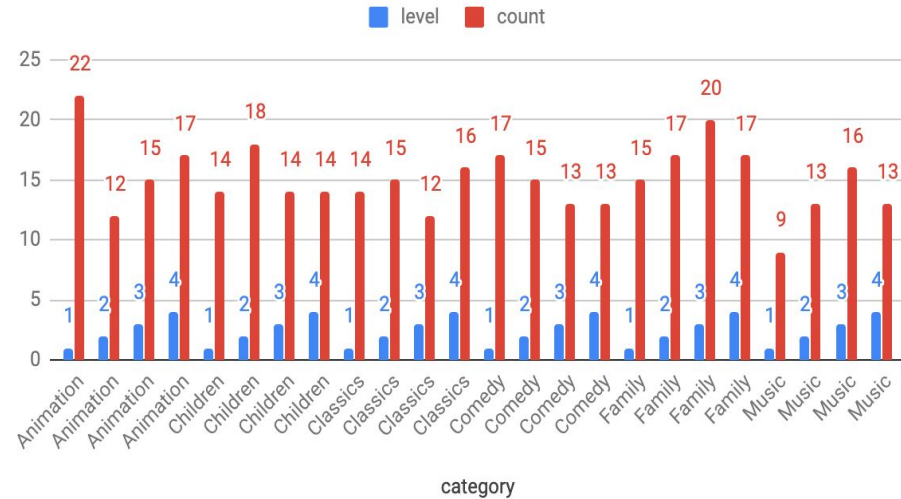
Refer to Query N.2 from the Atom file

title	category	rental_duration	level
Sweethearts Sus	Children	3	1
Go Purple	Music	3	1
Bilko Anonymous	Family	3	1
Wait Cider	Animation	3	1
Daughter Madiga	Children	3	1
Turn Star	Animation	3	1
Rush Goodfellas	Family	3	1
King Evolution	Family	3	1
Tracy Cider	Animation	3	1
Wisdom Worker	Comedy	3	1
Telegraph Voyag	Music	3	1
Miracle Virtual	Animation	3	1
Jerk Paycheck	Classics	3	1
Doors President	Animation	3	1
Gables Metropoli	Family	3	1
Jeopardy Encino	Classics	3	1
Downhill Enough	Comedy	3	1
Tootsie Pilot	Children	3	1
Baked Cleopatra	Family	3	1
Mission Zooland	Animation	3	1
Fury Murder	Children	3	1
Sons Interview	Animation	3	1
Ties Hunger	Children	3	1
Earring Instinct	Family	3	1
Titanic Boondock	Animation	3	1
Alone Trip	Music	3	1
Packer Madigan	Animation	3	1
Tomorrow Hustle	Classics	3	1
Flintstones Happ	Comedy	3	1
Pajama Jawbrea	Classics	3	1
Fight Jawbreake	Animation	3	1
Fargo Gandhi	Children	3	1
Ferris Mother	Comedy	3	1

3) Provide a table with the family-friendly film category, and the corresponding count of movies within each combination of film category for each corresponding level

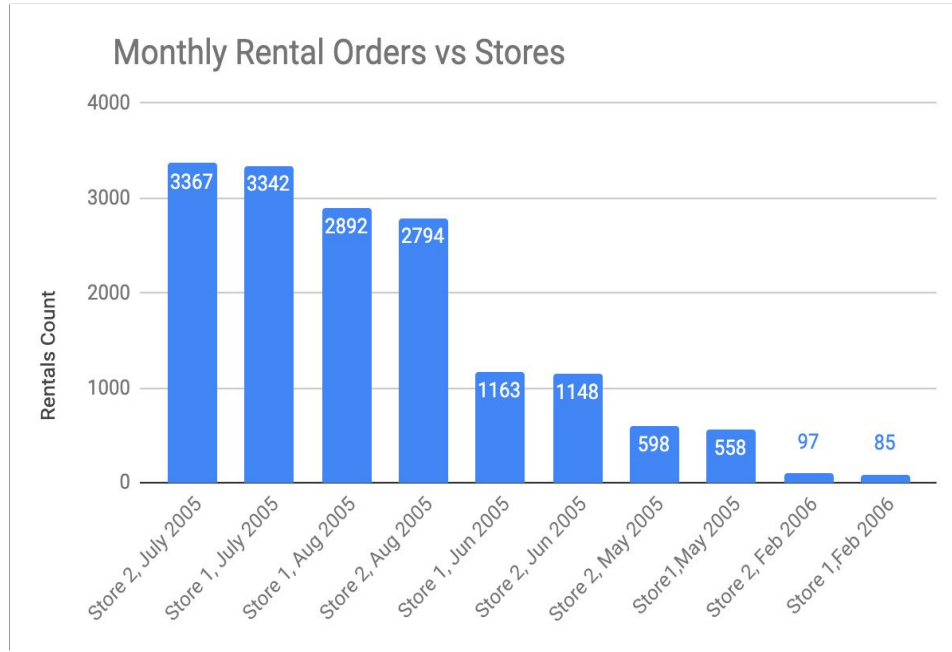Count of movies within each combination of category for each level

The graph shows us the combinations of all movies for each family-friendly category divided by all levels of rental duration

Refer to Query N.3 from the Atom file

category	level	count
Animation	1	22
Animation	2	12
Animation	3	15
Animation	4	17
Children	1	14
Children	2	18
Children	3	14
Children	4	14
Classics	1	14
Classics	2	15
Classics	3	12
Classics	4	16
Comedy	1	17
Comedy	2	15
Comedy	3	13
Comedy	4	13

Family	1	15
Family	2	17
Family	3	20
Family	4	17
Music	1	9
Music	2	13
Music	3	16
Music	4	13

4) How do the two stores compare in their count of rental orders during every month for all the years we have data for?

As we can see, the Store number 2 counts more orders than Store number 1, except for the months of June and August 2005.

Refer to Query 4 from the Atom file

rental_month	rental_year	store_id	count_rentals
7	2005	2	3367
7	2005	1	3342
8	2005	1	2892
8	2005	2	2794
6	2005	1	1163
6	2005	2	1148
5	2005	2	598
5	2005	1	558
2	2006	2	97
2	2006	1	85