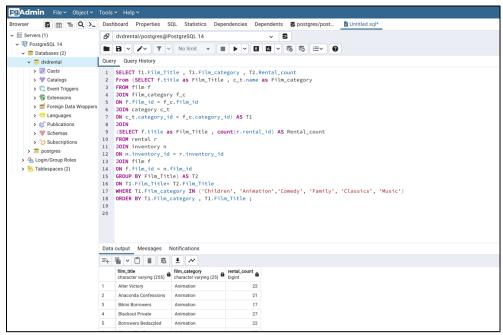
### Question 1:

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.

#### Query 1:

```
SELECT T1.Film Title, T1.Film category, T2.Rental count
From (SELECT f.title as Film Title, c t.name as Film category
FROM film f
JOIN film category f c
ON f.film id = f c.film id
JOIN category c t
ON c t.category id = f c.category id) AS T1
JOIN
(SELECT f.title as Film Title, count(r.rental id) AS Rental count
FROM rental r
JOIN inventory n
ON n.inventory id = r.inventory id
JOIN film f
ON f.film id = n.film id
GROUP BY Film Title) AS T2
ON T1.Film Title= T2.Film Title
WHERE T1.Film category IN ('Children', 'Animation', 'Comedy', 'Family', 'Classics', 'Music')
ORDER BY T1.Film category, T1.Film Title;
```



Query 1

## Question 2:

Can you 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 rental duration for movies across all categories? Make sure to also indicate the category that these family-friendly movies fall into.

## Query 2:

```
SELECT f.title as Film_title, c_t.name as Film_catgoery, f.rental_duration as Film_duration, NTILE(4) OVER (ORDER BY f.rental_duration) AS quartile FROM film f

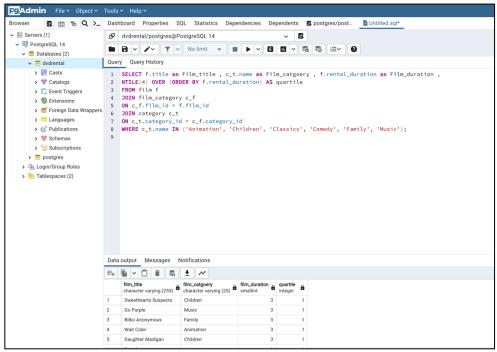
JOIN film_category c_f

ON c_f.film_id = f.film_id

JOIN category c_t

ON c_t.category_id = c_f.category_id

WHERE c_t.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music');
```



Query 2

### Question 3:

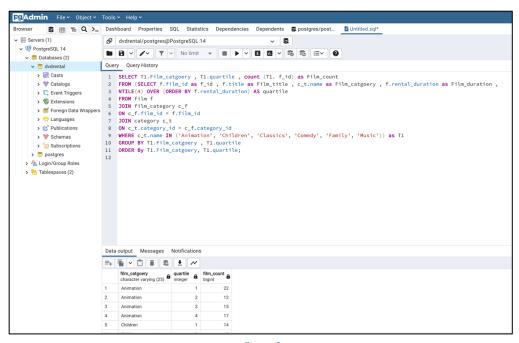
provide a table with the family-friendly film category, each of the quartiles, and the corresponding count of movies within each combination of film category for each corresponding rental duration category. The resulting table should have three columns:

- Category
- Rental length category
- Count

The Count column should be sorted first by Category and then by Rental Duration category.

# Query 3:

SELECT T1.Film\_catgoery , T1.quartile , count (T1. f\_id) as Film\_count
FROM (SELECT f.film\_id as f\_id , f.title as Film\_title , c\_t.name as Film\_catgoery , f.rental\_duration as Film\_duration ,
NTILE(4) OVER (ORDER BY f.rental\_duration) AS quartile
FROM film f
JOIN film\_category c\_f
ON c\_f.film\_id = f.film\_id
JOIN category c\_t
ON c\_t.category\_id = c\_f.category\_id
WHERE c\_t.name IN ('Animation', 'Children', 'Classics', 'Comedy', 'Family', 'Music')) as T1
GROUP BY T1.Film\_catgoery , T1.quartile
ORDER By T1.Film\_catgoery, T1.quartile;



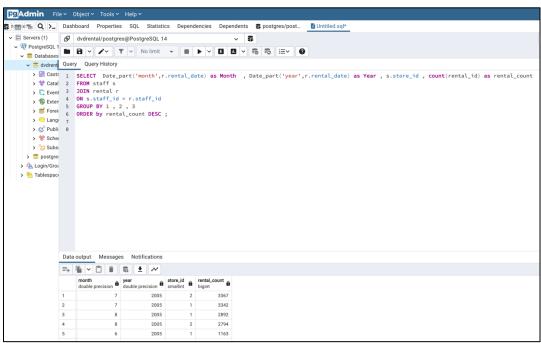
Query 3

### 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. Your table should include a column for each of the following: year, month, store ID and count of rental orders fulfilled during that month. The count of rental orders is sorted in descending order.

## Query 4:

SELECT Date\_part('month',r.rental\_date) as Month , Date\_part('year',r.rental\_date) as Year , s.store\_id , count(rental\_id) as rental\_count FROM staff s
JOIN rental r
ON s.staff\_id = r.staff\_id
GROUP BY 1 , 2 , 3
ORDER by rental count DESC ;



Query 4