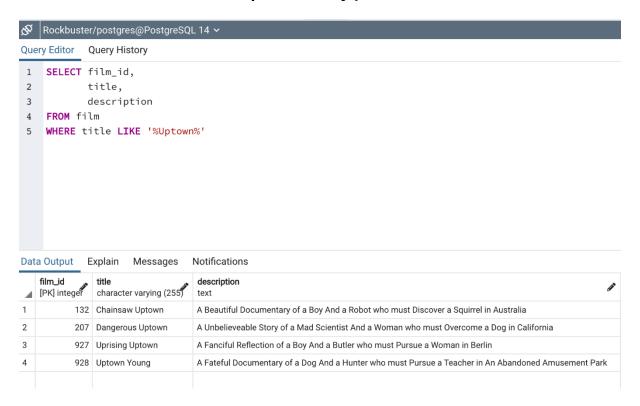
Juan Ignacio Galvalisi

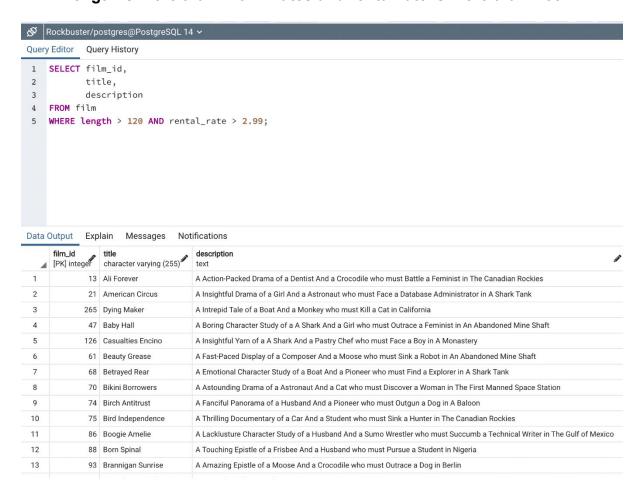
Exercise 3.5: Filtering Data

Write some SQL queries to return a lists of films that meet the following conditions. Your results tables should include the columns "film_ID," "title," and "description". Download your SQL queries outputs as CSV files using the pgadmin inbuilt functionality. Merge them into one Excel file (.xlsx) and create a separate sheet for each query (label them 1a, 1b, 1c, etc.). You'll use this file for all further questions in this Task too.

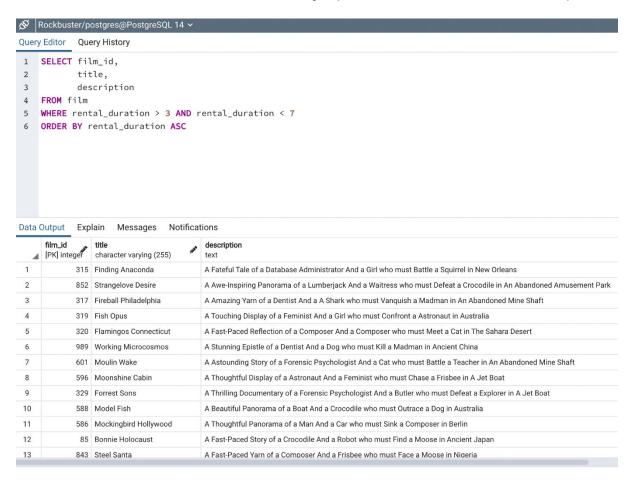
- Film title contains the word *Uptown* in any position



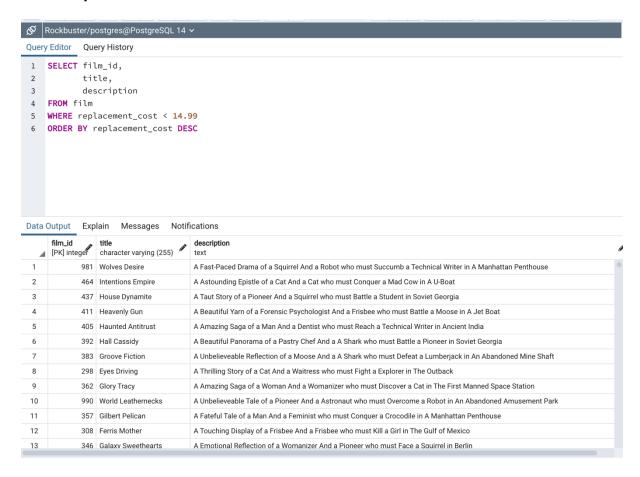
- Film length is more than 120 minutes and rental rate is more than 2.99



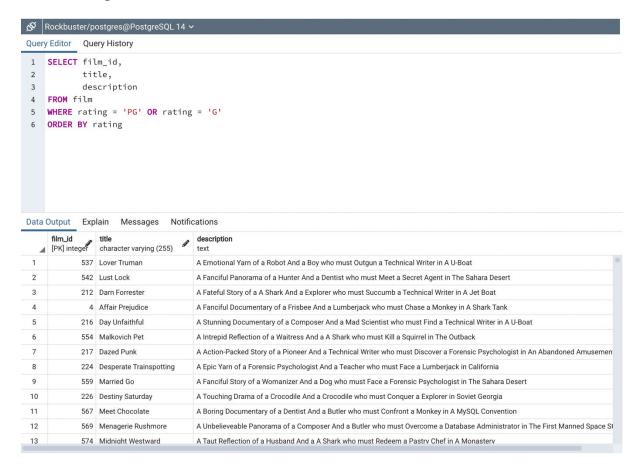
- Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)



- Film replacement cost is less than 14.99



- Film rating is either PG or G



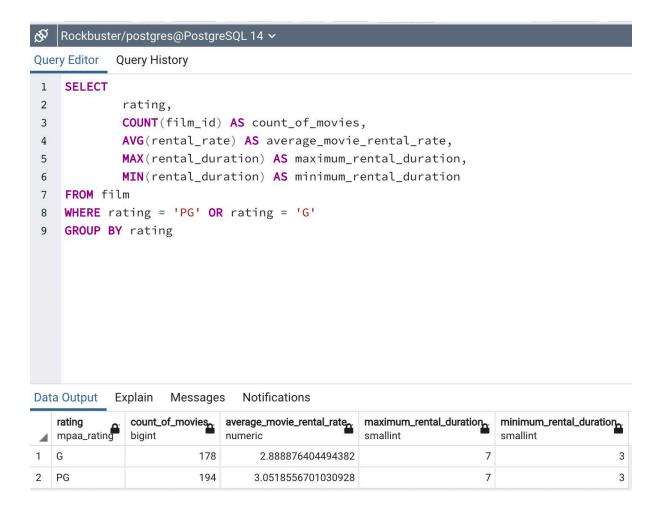
2. Download your SQL queries outputs as CSV files using the pgadmin inbuilt functionality. Merge them into one Excel file (.xlsx) and create a separate sheet for each query (label them 1a, 1b, 1c, etc.). You'll use this file for all further questions in this Task too.

3.5 - Filtering Data

- 3. The query you wrote in step 1e returned a list of movies that meet certain criteria (film rating is either PG or G). The inventory team has asked for the following information about this list:
- Count of the movies
- Average rental rate
- Maximum rental duration and minimum rental duration

Rockbuster/postgres@PostgreSQL 14 > **Query Editor** Query History 1 **SELECT** 2 rating, COUNT(film_id) AS count_of_movies, 3 4 AVG(rental_rate) AS avg_rental_rate, MIN(rental_duration) AS min_rental_duration, 5 MAX(rental_duration) AS max_rental_duration 6 7 WHERE rating = 'PG' OR rating = 'G' 8 **GROUP BY** rating 9 **Notifications Data Output** Explain Messages max_rental_duration_. count_of_movies_n min_rental_duration_ rating avg_rental_rate mpaa_rating bigint numeric smallint smallint G 2.888876404494382 3 7 178 1 2 PG 194 3.0518556701030928 3 7

- 4. To make the output easier for your coworkers to understand, give your aggregate columns the following aliases: "count of movies," "average movie rental rate," "maximum rental duration", and "minimum rental duration". Run the query and transfer the result into your Excel file on a new sheet as well as the code you used to get there.
- 5. The customer team would like to see the fields you calculated in step 3 grouped by rating. The totals in your results table should look the same as in step 3, but broken down by the rating column. Copy-paste your query and its output in your answers on a new sheet..



6. Save all of your answers in the Excel file you created in step 1 and upload it here for your tutor to review.

3.5 - Filtering Data