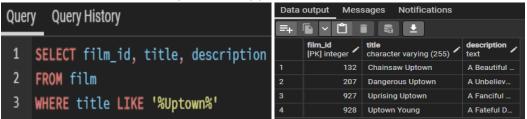
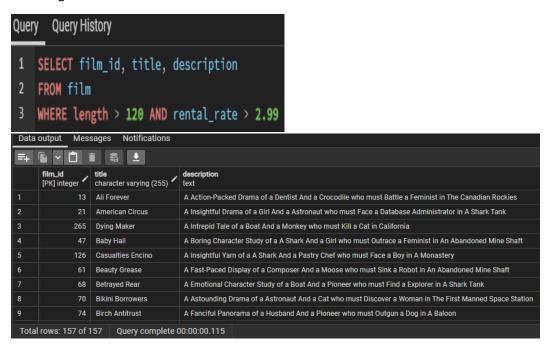
3.4 Database Querying in SQL

1. Refining Your 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.).

a. Film title contains the word Uptown in any position



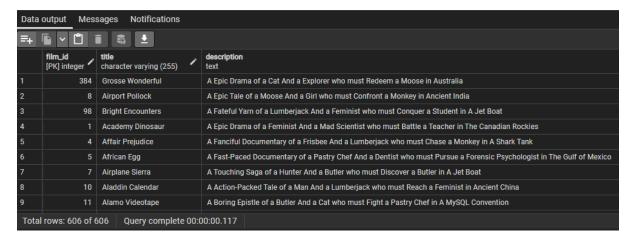
b. Film length is more than 120 minutes and rental rate is more than 2.99



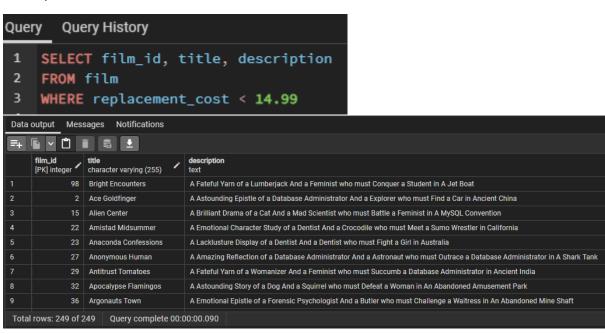
c. Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)

```
Query Query History

1 SELECT film_id, title, description
2 FROM film
3 WHERE rental_duration > 3 AND rental_duration < 7
```



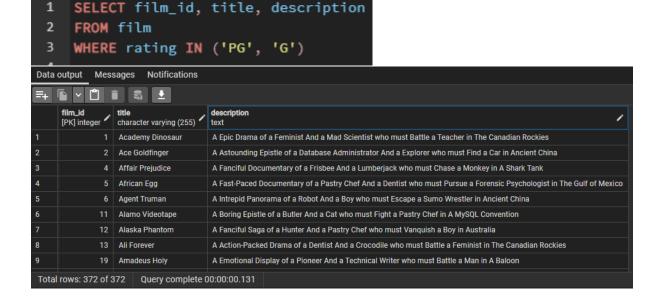
d. Film replacement cost is less than 14.99



e. Film rating is either PG or G

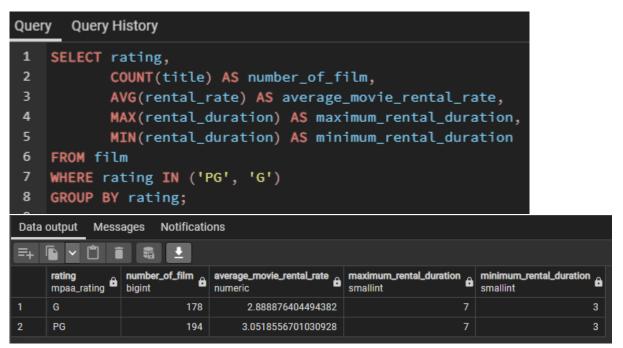
Query History

Query



- 2. 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

```
SELECT rating,
COUNT(title) AS number_of_film,
AVG(rental_rate) AS average_movie_rental_rate,
MAX(rental_duration) AS maximum_rental_duration,
MIN(rental_duration) AS minimum_rental_duration
FROM film
WHERE rating IN ('PG', 'G')
GROUP BY rating;
```



3. 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.

Done in number 2.

4. 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.

Done in number 2.