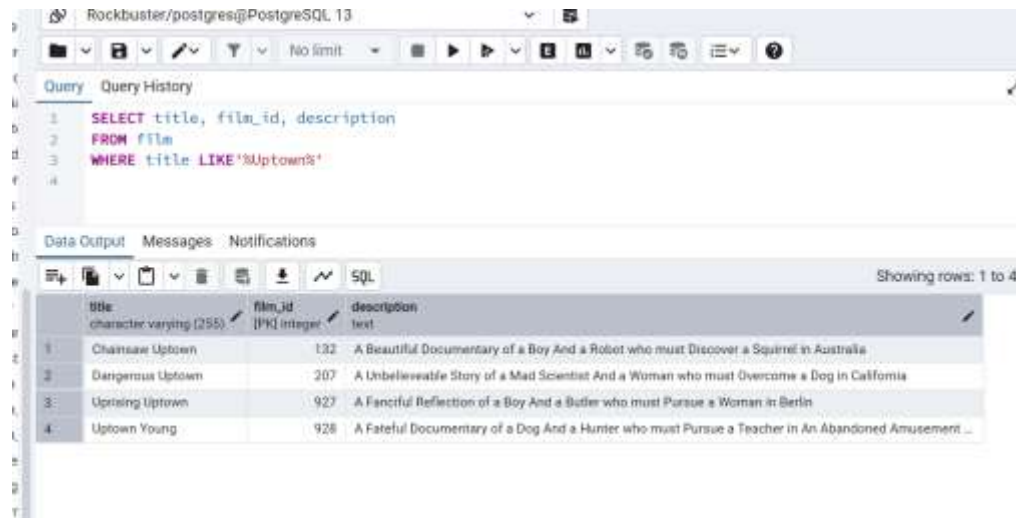


Ex 3.5

Prepared by: Nikita Kasrekar

1a) Film title contains the word Uptown in any position



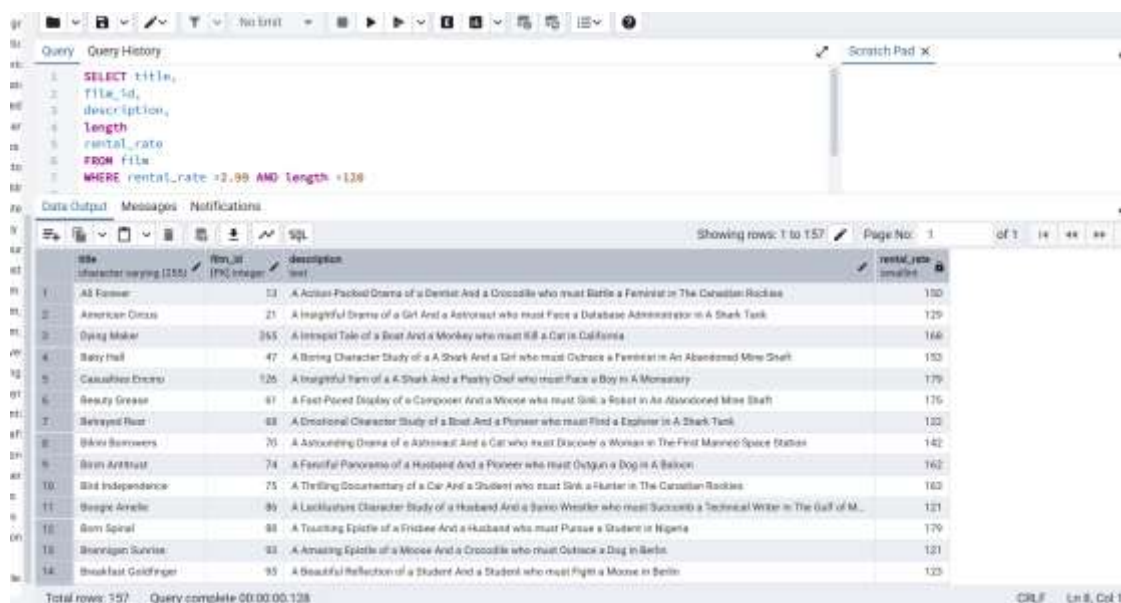
The screenshot shows a PostgreSQL query editor with the following query:

```
SELECT title, film_id, description
FROM film
WHERE title LIKE '%Uptown%'
```

The results are displayed in a table with the following columns: title, film_id, and description. The results show four rows:

title	film_id	description
Chainsaw Uptown	132	A Beautiful Documentary of a Boy And a Robot who must Discover a Squirrel in Australia
Dangerous Uptown	207	A Unbelievable Story of a Mad Scientist And a Woman who must Overcome a Dog in California
Uprising Uptown	927	A Fanciful Reflection of a Boy And a Butler who must Pursue a Woman in Berlin
Uptown Young	928	A Fateful Documentary of a Dog And a Hunter who must Pursue a Teacher in An Abandoned Amusement ...

1b) Film length is more than 120 minutes and rental rate is more than 2.99



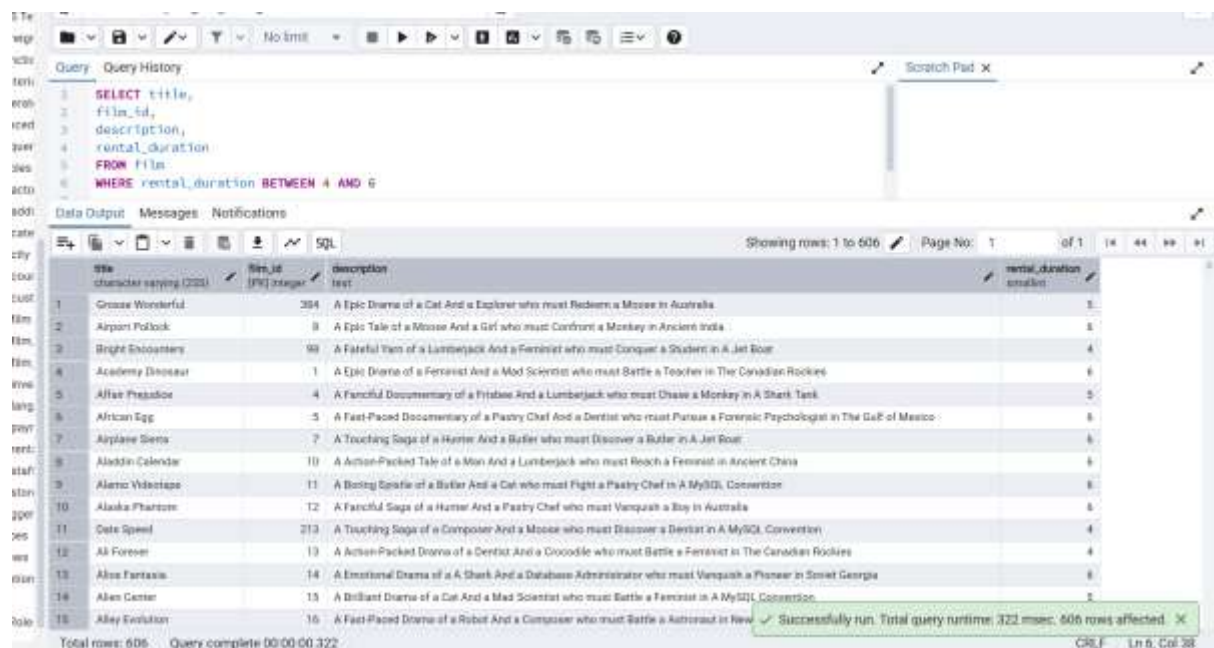
The screenshot shows a PostgreSQL query editor with the following query:

```
SELECT title,
       film_id,
       description,
       length,
       rental_rate
FROM film
WHERE rental_rate > 2.99 AND length > 120
```

The results are displayed in a table with the following columns: title, film_id, description, length, and rental_rate. The results show 15 rows:

title	film_id	description	length	rental_rate
All Femeni	13	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	130	1.99
American Circus	21	A Inexplicable Drama of a Girl And a Astronaut who must Face a Database Administrator in A Shark Tank	129	1.99
Dying Maker	355	A Inexplicable Tale of a Boat And a Monkey who must Kill a Cat in California	166	1.99
Baby Doll	47	A Boring Character Study of a A Shark And a Girl who must Outrace a Feminist in An Abandoned Mine Shaft	130	1.99
Casualties of War	126	A Inexplicable Tale of a A Shark And a Party Chief who must Face a Boy in A Monastery	179	1.99
Beauty Grease	81	A Fast-Paced Display of a Composer And a Moose who must Sink a Robot in An Abandoned Mine Shaft	176	1.99
Stranded Floor	68	A Emotional Character Study of a Boat And a Pioneer who must Find a Explorer in A Shark Tank	132	1.99
Black Borrowers	70	A Astonishing Drama of a Astronaut And a Cat who must Discover a Woman in The First Manned Space Station	142	1.99
Brain Anarchy	74	A Fanciful Panorama of a Husband And a Pioneer who must Outgun a Dog in A Balcony	162	1.99
Wild Independence	75	A Thrilling Documentary of a Car And a Student who must Sink a Hunter in The Canadian Rockies	163	1.99
Georgie Arnelis	89	A Lockdown Character Study of a Husband And a Space Wrestler who must Succumb a Technical Writer in The Gulf of M...	121	1.99
Born Spiral	88	A Touring Epistle of a Bridee And a husband who must Pursue a Student in Nigeria	179	1.99
Breeding Sunrise	93	A Amazing Epistle of a Moose And a Crocodile who must Outpace a Dog in Berlin	121	1.99
Breakfast Goldfinger	95	A Beautiful Reflection of a Student And a Student who must Fight a Moose in Berlin	125	1.99

1c) Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)



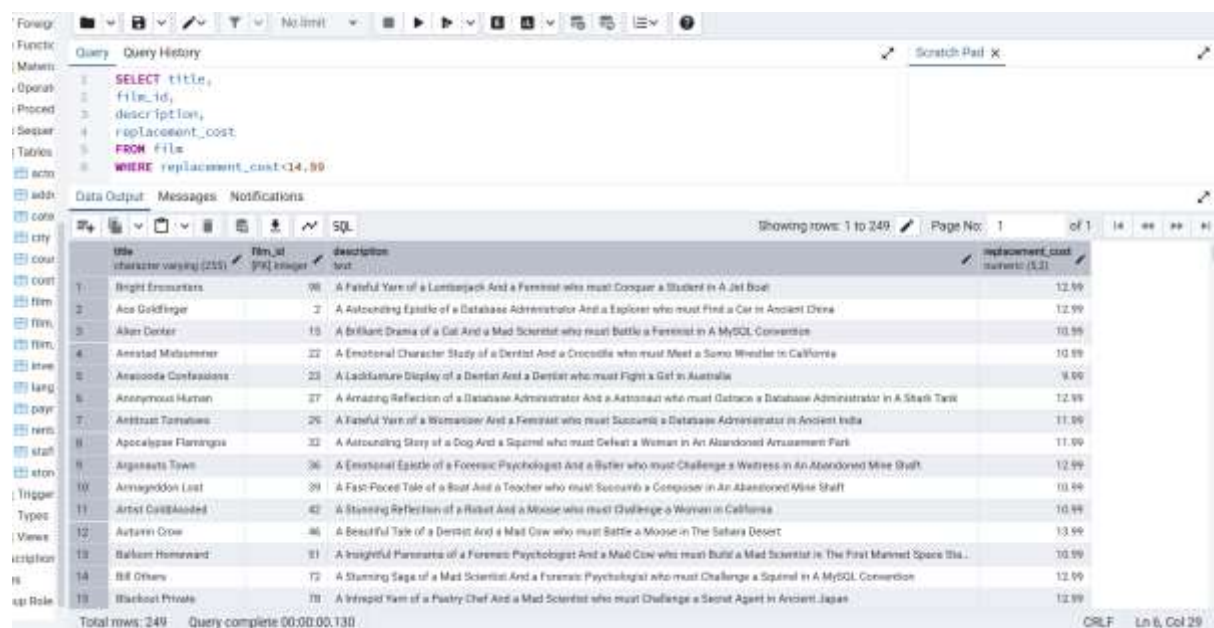
The screenshot shows a database query interface with a SQL query editor and a results table. The query is:

```
SELECT title,
       film_id,
       description,
       rental_duration
FROM film
WHERE rental_duration BETWEEN 4 AND 6
```

The results table displays 15 rows of data. The columns are: title, film_id, description, and rental_duration. The status bar at the bottom indicates "Total rows: 606" and "Query complete 00:00:00.322".

	title	film_id	description	rental_duration
1	Grosse Wundersol	394	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia	5
2	Alpam Pollock	8	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India	5
3	Bright Encounters	99	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat	4
4	Academy Dinosaur	1	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	6
5	Alfian Predator	4	A Fanciful Documentary of a Pirate And a Lumberjack who must Chase a Monkey in A Shark Tank	5
6	African Egg	5	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico	6
7	Airplane Bents	7	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat	6
8	Aladdin Calendar	10	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China	6
9	Alamo Videotape	11	A Boring Profile of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention	6
10	Alaska Phantom	12	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia	6
11	Cats Speed	213	A Touching Saga of a Composer And a Moose who must Discover a Dentist in A MySQL Convention	4
12	Ali Forester	13	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	4
13	Aliso Fantasia	14	A Emotional Drama of a A Shark And a Database Administrator who must Vanquish a Pioneer in Soviet Georgia	6
14	Allen Center	15	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention	5
15	Alley Evolution	16	A Fast-Paced Drama of a Robot And a Composer who must Battle a Astronaut in New	5

1d) Film replacement cost is less than 14.99



The screenshot shows a database query interface with a SQL query editor and a results table. The query is:

```
SELECT title,
       film_id,
       description,
       replacement_cost
FROM film
WHERE replacement_cost < 14.99
```

The results table displays 15 rows of data. The columns are: title, film_id, description, and replacement_cost. The status bar at the bottom indicates "Total rows: 349" and "Query complete 00:00:00.130".

	title	film_id	description	replacement_cost
1	Bright Encounters	99	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat	12.99
2	Ace Goldfinger	2	A Ascending Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China	12.99
3	Allen Center	15	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention	10.99
4	Anastasi Midsummer	22	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California	10.99
5	Anesooda Confessions	23	A Lackluster Display of a Dentist And a Dentist who must Fight a Girl in Australia	9.00
6	Anonymous Human	27	A Amazing Reflection of a Database Administrator And a Astronaut who must Outpace a Database Administrator in A Shark Tank	12.99
7	Antitrust Tomatoes	26	A Fateful Yarn of a Womanizer And a Feminist who must Succumb a Database Administrator in Ancient India	11.99
8	Apocalypse Flamingos	32	A Astonishing Story of a Dog And a Squirrel who must Defeat a Woman in An Abandoned Amusement Park	11.99
9	Argonauts Town	36	A Emotional Epistle of a Forensic Psychologist And a Butler who must Challenge a Waitress in An Abandoned Mine Shaft	12.99
10	Armageddon Lost	39	A Fast-Paced Tale of a Boat And a Teacher who must Succumb a Composer in An Abandoned Mine Shaft	10.99
11	Artist CallBladed	42	A Stunning Reflection of a Robot And a Moose who must Challenge a Woman in California	10.99
12	Autumn Crow	46	A Beautiful Tale of a Dentist And a Mad Cow who must Battle a Moose in The Sahara Desert	13.99
13	Balkan Homeward	51	A Insightful Panorama of a Forensic Psychologist And a Mad Cow who must Build a Mad Scientist in The First Manned Space Sta...	10.99
14	Bill Others	75	A Stunning Saga of a Mad Scientist And a Forensic Psychologist who must Challenge a Squirrel in A MySQL Convention	12.99
15	Blackout Private	78	A Intriguing Yarn of a Pastry Chef And a Mad Scientist who must Challenge a Secret Agent in Ancient Japan	12.99

1e) Film rating is either PG or G

The screenshot shows a PostgreSQL query editor with the following query:

```

SELECT title,
       file_id,
       description,
       rating
FROM film
WHERE rating = 'PG' OR rating = 'G'

```

The results table displays the following columns: title, file_id, description, and rating. The table contains 372 rows of data, including movies like Academy Award, Ace Goldfinger, After Prejudice, African Egg, Agent Truman, Alamo Videotape, Alaska Phantom, All Forever, Amadeus Holy, Amstad Midsummer, Angels Life, Annie Identity, Arizona Bang, Armageddon Lost, and Amos Independence.

3. The query you wrote in step 1e returned a list of movies with a film rating of either PG or G. The inventory team has asked for more information about this list: count of the movies, average rental rate, and maximum and minimum rental durations. Run the query and transfer the code you used and your results onto a new sheet in your Excel file. 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”
- “minimum rental duration”

Rockbuster/postgres@PostgreSQL 13

Query

```

1  COUNT (film_id) AS count_of_movies,
2
3  AVG (rental_rate) AS average_movie_rental_rate,
4  MIN (rental_duration) AS minimum_rental_duration,
5  MAX (rental_duration) AS maximum_rental_duration
6  FROM film
7  WHERE rating = 'PG' OR rating = 'G'
8

```

Data Output

	count_of_movies bigint	average_movie_rental_rate numeric	minimum_rental_duration smallint	maximum_rental_duration smallint
1	372	2.9738709677419355	3	7

4. The customer team wants to see the fields you calculated in step 3 grouped by rating. The totals in your results table should look the same but broken down by the rating column. Copy-paste your query and its output onto a new sheet.

Query

```

1  SELECT
2  COUNT (film_id) AS count_of_movies,
3  AVG (rental_rate) AS average_movie_rental_rate,
4  MIN (rental_duration) AS minimum_rental_duration,
5  MAX (rental_duration) AS maximum_rental_duration
6  FROM film
7  WHERE rating = 'PG' OR rating = 'G'
8  GROUP BY rating
9
10

```

Data Output

	count_of_movies bigint	average_movie_rental_rate numeric	minimum_rental_duration smallint	maximum_rental_duration smallint
1	178	2.8888764044943820	3	7
2	194	3.0518556701030928	3	7