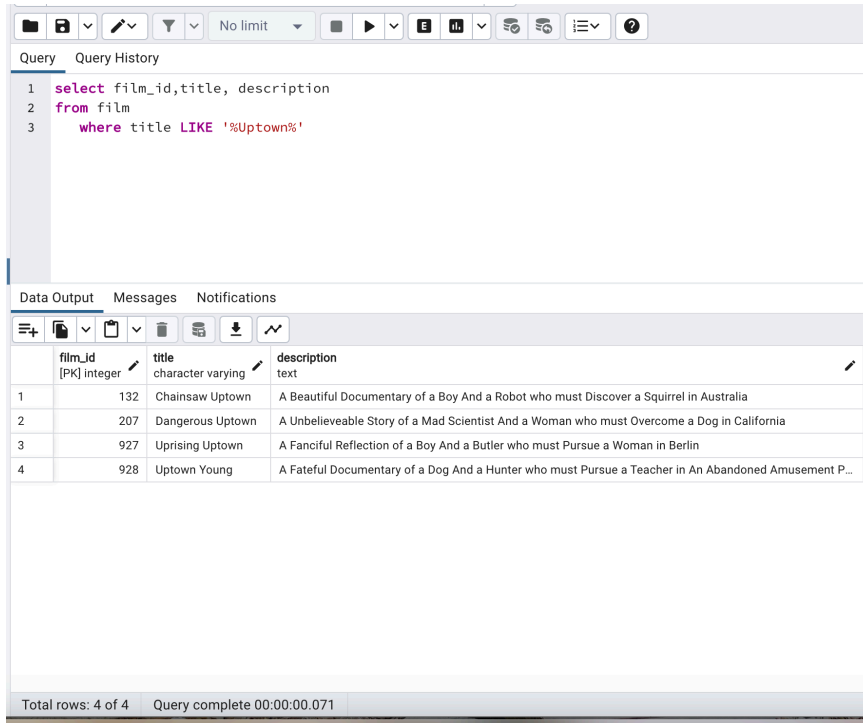


3.5: Filtering Data

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



The screenshot shows a database query interface. The query editor at the top contains the following SQL query:

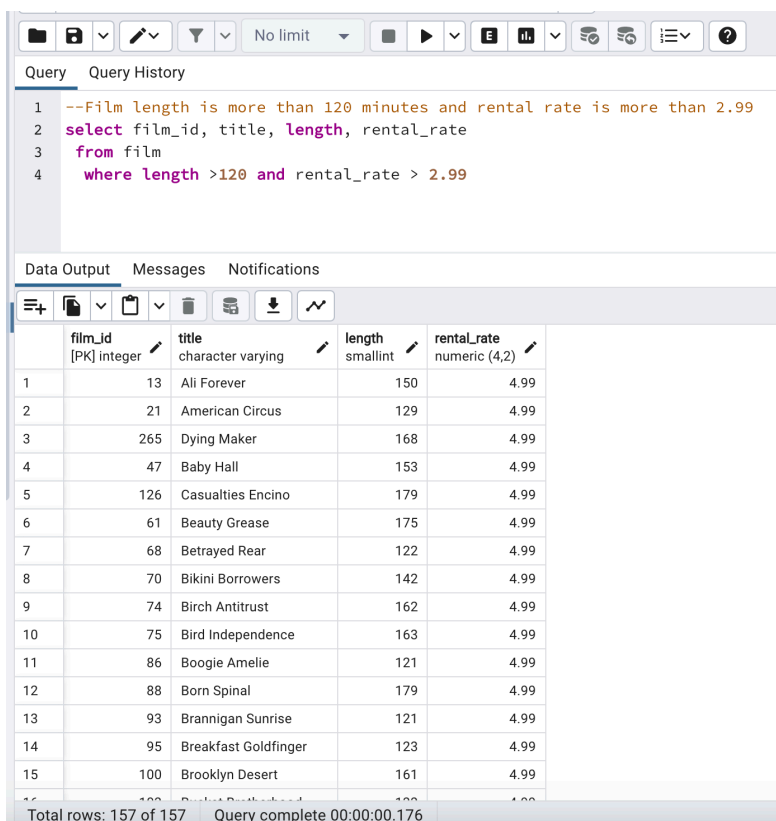
```
1 select film_id, title, description
2 from film
3 where title LIKE '%Uptown%'
```

Below the query editor, the 'Data Output' tab is active, displaying a table with 4 rows and 3 columns: film_id, title, and description. The status bar at the bottom indicates 'Total rows: 4 of 4' and 'Query complete 00:00:00.071'.

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

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

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



The screenshot shows a database query interface. The query editor at the top contains the following SQL query:

```
1 --Film length is more than 120 minutes and rental rate is more than 2.99
2 select film_id, title, length, rental_rate
3 from film
4 where length >120 and rental_rate > 2.99
```

Below the query editor, the 'Data Output' tab is active, displaying a table with 157 rows and 4 columns: film_id, title, length, and rental_rate. The status bar at the bottom indicates 'Total rows: 157 of 157' and 'Query complete 00:00:00.176'.

film_id	title	length	rental_rate
13	Ali Forever	150	4.99
21	American Circus	129	4.99
265	Dying Maker	168	4.99
47	Baby Hall	153	4.99
126	Casualties Encino	179	4.99
61	Beauty Grease	175	4.99
68	Betrayed Rear	122	4.99
70	Bikini Borrowers	142	4.99
74	Birch Antitrust	162	4.99
75	Bird Independence	163	4.99
86	Boogie Amelie	121	4.99
88	Born Spinal	179	4.99
93	Brannigan Sunrise	121	4.99
95	Breakfast Goldfinger	123	4.99
100	Brooklyn Desert	161	4.99

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

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

Query Query History

```

1 --Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)
2 select film_id, title, rental_rate, rental_duration
3 from film
4 where rental_duration>3 and rental_duration<7

```

Data Output Messages Notifications

	film_id [PK] integer	title character varying	rental_rate numeric (4,2)	rental_duration smallint
1	384	Grosse Wonderful	4.99	5
2	8	Airport Pollock	4.99	6
3	98	Bright Encounters	4.99	4
4	1	Academy Dinosaur	0.99	6
5	4	Affair Prejudice	2.99	5
6	5	African Egg	2.99	6
7	7	Airplane Sierra	4.99	6
8	10	Aladdin Calendar	4.99	6
9	11	Alamo Videotape	0.99	6
10	12	Alaska Phantom	0.99	6
11	213	Date Speed	0.99	4
12	13	Ali Forever	4.99	4
13	14	Alice Fantasia	0.99	6
14	15	Alien Center	2.99	5
15	16	Alley Evolution	2.99	6

Total rows: 606 of 606 Query complete 00:00:00.083

SELECT film_id, title,
rental_rate,
rental_duration FROM
film WHERE
rental_duration>3 AND
rental_duration<7

- Film replacement cost is less than 14.99

select title, rating, replacement_cost from film where
replacement_cost < 14.99

Query				
<pre> 1 --Film replacement cost is less than 14.99 2 select title, rating, replacement_cost 3 from film 4 where replacement_cost < 14.99 </pre>				
Data Output				
	title	rating	replacement_cost	
	character varying	mpaa_rating	numeric (5,2)	
1	Bright Encounters	PG-13	12.99	
2	Ace Goldfinger	G	12.99	
3	Alien Center	NC-17	10.99	
4	Amistad Midsummer	G	10.99	
5	Anaconda Confessions	R	9.99	
6	Anonymous Human	NC-17	12.99	
7	Antitrust Tomatoes	NC-17	11.99	
8	Apocalypse Flamingos	R	11.99	
9	Argonauts Town	PG-13	12.99	
10	Armageddon Lost	G	10.99	
11	Artist Coldblooded	NC-17	10.99	
12	Autumn Crow	G	13.99	
13	Balloon Homeward	NC-17	10.99	
14	Bill Others	PG	12.99	
15	Blackout Private	PG	12.99	
16	Blackout Private	PG	12.99	
Total rows: 249 of 249 Query complete 00:00:00.128				

- Film rating is either PG or G

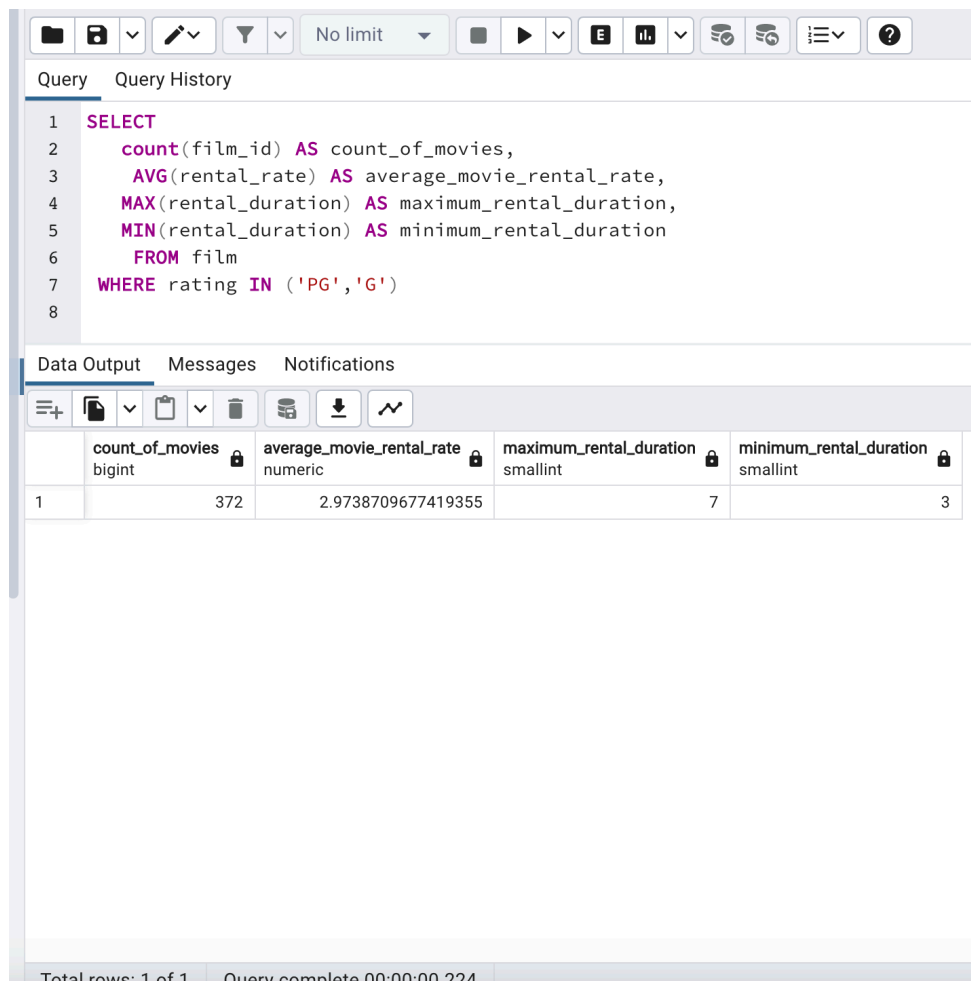
Query			
<pre> 1 -- Film rating is either PG or G 2 select film_id, title, rating 3 from film 4 where rating = 'PG' or rating = 'G' </pre>			
Data Output			
	film_id	title	rating
	[PK] integer	character varying	mpaa_rating
1	1	Academy Dinosaur	PG
2	2	Ace Goldfinger	G
3	4	Affair Prejudice	G
4	5	African Egg	G
5	6	Agent Truman	PG
6	11	Alamo Videotape	G
7	12	Alaska Phantom	PG
8	13	Ali Forever	PG
9	19	Amadeus Holy	PG
10	22	Amistad Midsummer	G
11	25	Angels Life	G
12	26	Annie Identity	G
13	37	Arizona Bang	PG
14	39	Armageddon Lost	G
15	41	Arsenic Independence	PG
16	46	Arson Movie	PG
Total rows: 372 of 372 Query complete 00:00:00.141			

SELECT film_id, title, rating FROM
film

WHERE rating = 'PG' OR rating = '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 count(film_id) AS count_of_movies,  
       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')
```



The screenshot displays a SQL query editor and its results. The query editor shows a SELECT statement with four columns: count_of_movies, average_movie_rental_rate, maximum_rental_duration, and minimum_rental_duration. The results viewer shows one row of data: 372, 2.9738709677419355, 7, and 3.

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

Total rows: 1 of 1 Query complete 00:00:00.224

- The customer team would like to see the fields grouped by rating.

SELECT rating, count(film_id) AS count_of_movies,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 ='PG' OR rating = 'G' GROUP BY rating

Query

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

Data Output

	rating mpaa_rating	count_of_movies bigint	average_movie_rental_rate numeric	maximum_rental_duration smallint	minimum_rental_duration smallint
1	PG	194	3.0518556701030928	7	3
2	G	178	2.8888764044943820	7	3

Total rows: 2 of 2 Query complete 00:00:00.088