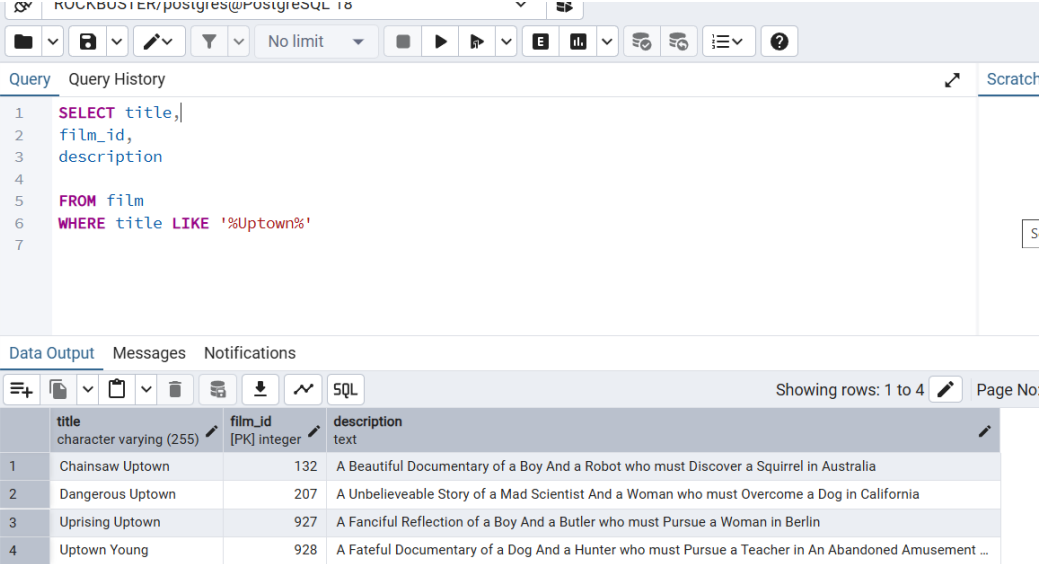


Databases & SQL for Analysts

3.5: Filtering Data

Film title contains the word *Uptown* in any position



The screenshot shows a SQL IDE interface. The top toolbar includes icons for file operations, query execution, and settings. The main query editor contains the following SQL code:

```
1 SELECT title,|
2 film_id,
3 description
4
5 FROM film
6 WHERE title LIKE '%Uptown%'
7
```

Below the query editor, the 'Data Output' tab is active, displaying the results of the query. The results are shown in a table with the following columns: title, film_id, and description. The table contains four rows of data.

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

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

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

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Film replacement cost is less than 14.99

Query

Query History

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SELECT title,

film_id,

replacement_cost,

description

FROM film

WHERE replacement_cost <14.99

Data Output

Messages

Notifications

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SQL

	title character varying (255)	film_id [PK] integer	replacement_cost numeric (5,2)	description text
29	Cider Desire	150	9.99	A Stunning Character Study of a
30	Circus Youth	152	13.99	A Thoughtful Drama of a Pastry
31	Closer Bang	159	12.99	A Unbelievable Panorama of a
32	Club Graffiti	160	12.99	A Epic Tale of a Pioneer And a H
33	Clueless Bucket	162	13.99	A Taut Tale of a Car And a Pione
34	Coma Head	167	10.99	A Awe-Inspiring Drama of a Boy
35	Commandments Express	171	13.99	A Fanciful Saga of a Student An
36	Coneheads Smoochy	172	12.99	A Touching Story of a Womanize
37	Confidential Interview	174	13.99	A Stunning Reflection of a Cat A
38	Contact Anonymous	181	10.99	A Insightful Display of a A Shark
39	Conquering the World	182	9.99	A Fun Film About a Man Who

Total rows: 249

Query complete 00:00:00.075

Film rating is either PG or G

Query

Query History

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...

SELECT title,

film_id,

rating,

description

FROM film

WHERE rating = 'PG'

OR rating = 'G'

ORDER BY rating ASC

Data Output

Messages

Notifications

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SQL

	title character varying (255) 	film_id [PK] integer 	rating mpaa_rating 	description text
1	Lover Truman	537	G	A Emotional Yarn o
2	Lust Lock	542	G	A Fanciful Panorar
3	Darn Forrester	212	G	A Fateful Story of a
4	Affair Prejudice	4	G	A Fanciful Docume
5	Day Unfaithful	216	G	A Stunning Docume

3/The inventory team has asked for more information about this list: count of the movies, average rental rate, and maximum and minimum rental durations

Query Query History

```

1  SELECT
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
7
8
9  FROM film
10
11 WHERE rating IN ('PG','G')
12

```

Data Output Messages Notifications

Showing rows: 1 to 1

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

4/The customer team wants to see the fields you calculated in step 3 grouped by rating.

Query Query History

```

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
7
8  FROM film
9  GROUP BY rating
10 HAVING rating IN ('PG','G')
11

```

Data Output Messages Notifications

Showing rows: 1 to 2

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