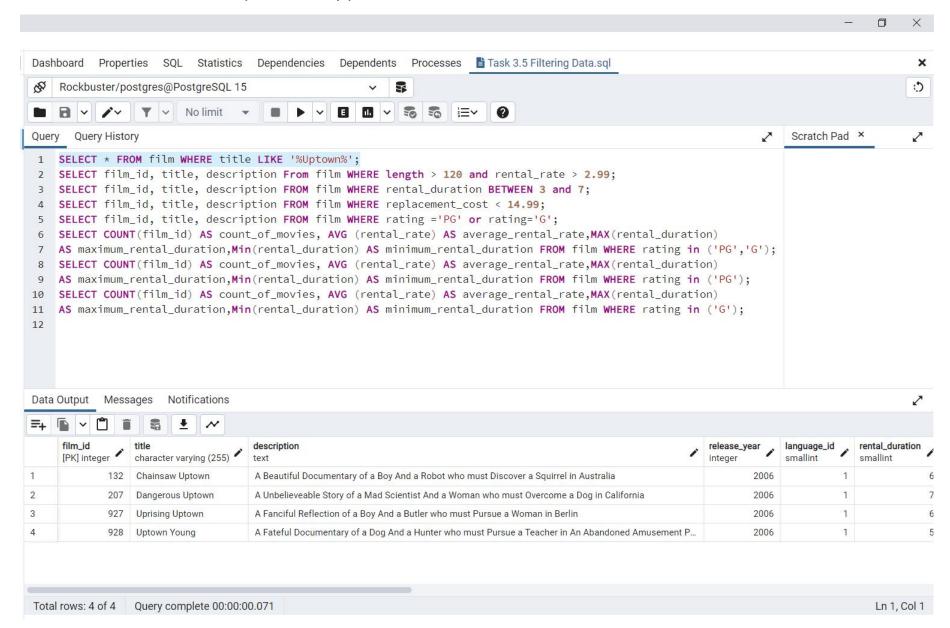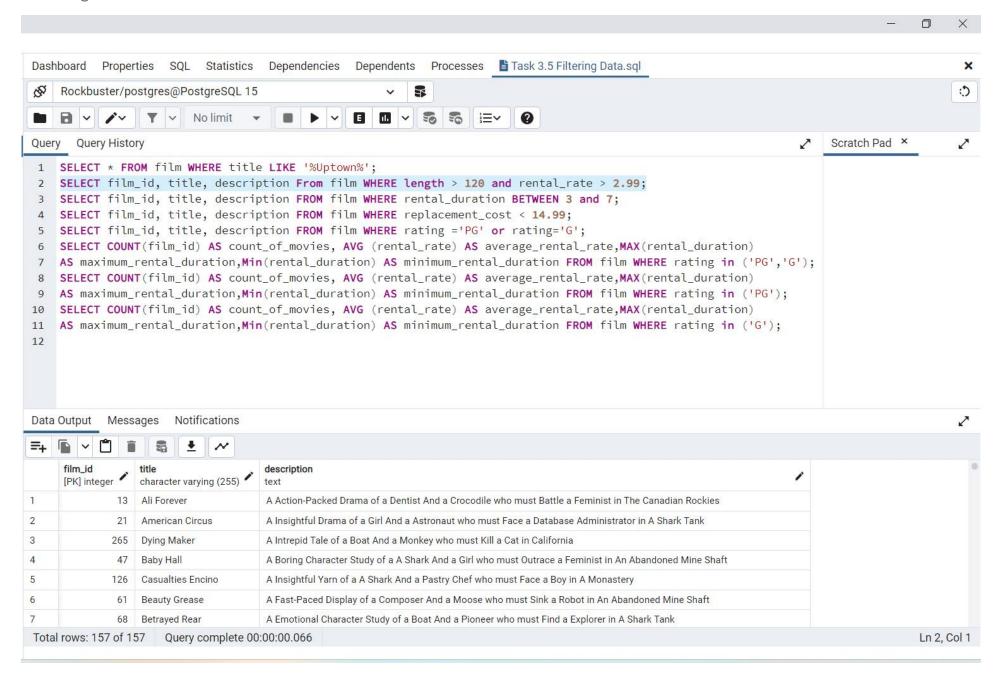# Filtering Data

Step 1

Film title contains the word Uptown in any position

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

Rockbuster/postgres@PostgreSQL 15

No limit

Query   Query History   Scratch Pad ✕

```sql
1   SELECT * FROM film WHERE title LIKE '%Uptown%';
2   SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
3   SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
4   SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
5   SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
6   SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
7   AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
8   SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
9   AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications

	film_id [PK] integer	title character varying (255)	description text
1	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies
2	21	American Circus	A Insightful Drama of a Girl And a Astronaut who must Face a Database Administrator in A Shark Tank
3	265	Dying Maker	A Intrepid Tale of a Boat And a Monkey who must Kill a Cat in California
4	47	Baby Hall	A Boring Character Study of a A Shark And a Girl who must Outrace a Feminist in An Abandoned Mine Shaft
5	126	Casualties Encino	A Insightful Yarn of a A Shark And a Pastry Chef who must Face a Boy in A Monastery
6	61	Beauty Grease	A Fast-Paced Display of a Composer And a Moose who must Sink a Robot in An Abandoned Mine Shaft
7	68	Betrayed Rear	A Emotional Character Study of a Boat And a Pioneer who must Find a Explorer in A Shark Tank

Total rows: 157 of 157   Query complete 00:00:00.066   Ln 2, Col 1

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

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   📄 Task 3.5 Filtering Data.sql   ✕

🔗 Rockbuster/postgres@PostgreSQL 15   ⌄ 🖥   ⟳

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Query   Query History   ↗   Scratch Pad ✕   ↗

```
 1  SELECT * FROM film WHERE title LIKE '%Uptown%';
 2  SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3  SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4  SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5  SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications   ↗

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	film_id [PK] integer ✎	title character varying (255) ✎	description text ✎
1	133	Chamber Italian	A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria
2	384	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia
3	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India
4	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
5	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
6	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
7	3	Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory

Total rows: 1000 of 1001   Query complete 00:00:00.130   Ln 3, Col 1

Film replacement cost is less than 14.99

Rockbuster/postgres@PostgreSQL 15

No limit

Query   Query History   Scratch Pad ✕

```sql
 1  SELECT * FROM film WHERE title LIKE '%Uptown%';
 2  SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3  SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4  SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5  SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications

	film_id [PK] integer	title character varying (255)	description text
1	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
3	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention
4	22	Amistad Midsummer	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California
5	23	Anaconda Confessions	A Lacklustre Display of a Dentist And a Dentist who must Fight a Girl in Australia
6	27	Anonymous Human	A Amazing Reflection of a Database Administrator And a Astronaut who must Outrace a Database Administrator in A Shark Tank
7	29	Antitrust Tomatoes	A Fateful Yarn of a Womanizer And a Feminist who must Succumb a Database Administrator in Ancient India

Total rows: 249 of 249   Query complete 00:00:00.062   Ln 4, Col 1

Film rating is either PG or G

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   📄 Task 3.5 Filtering Data.sql   ✕

Rockbuster/postgres@PostgreSQL 15   ⌄

Query   Query History   ↗   Scratch Pad ✕   ↗

```sql
 1  SELECT * FROM film WHERE title LIKE '%Uptown%';
 2  SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3  SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4  SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5  SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications   ↗

	film_id [PK] integer	title character varying (255)	description text
1	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
3	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank
4	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico
5	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China
6	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention
7	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia

Total rows: 373 of 373   Query complete 00:00:00.076   Ln 5, Col 1

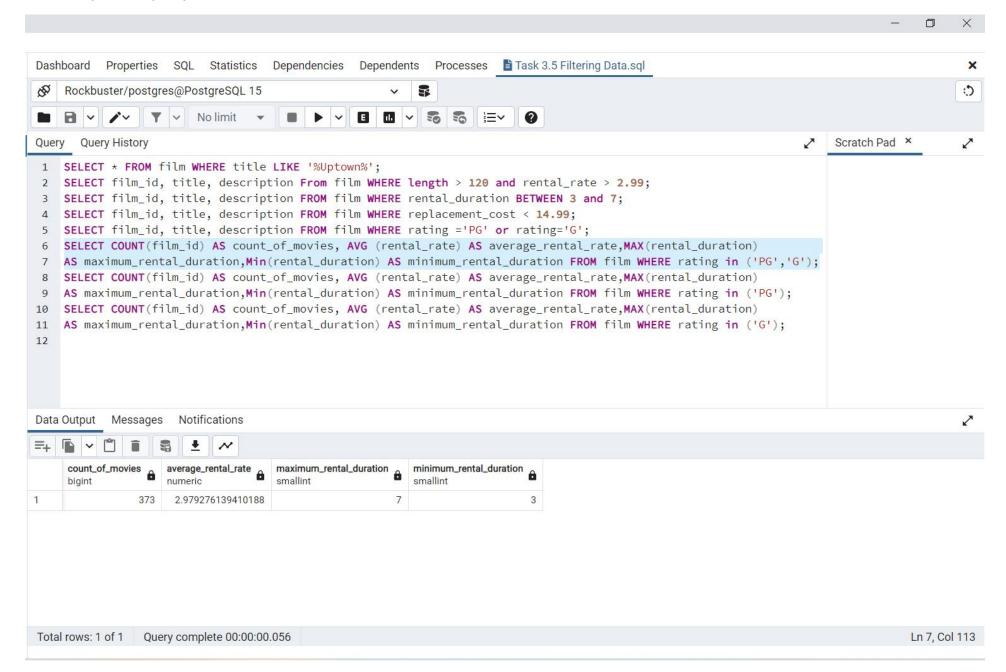## Step 3

Inventory team query

- ➢ Count of movies: 373
- ➢ Average rental rate: 2.97
- ➢ Maximum rental duration and minimum rental duration: Max 7 - Min 3

Step 4

Inventory team query

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   📄 Task 3.5 Filtering Data.sql   ✕

Rockbuster/postgres@PostgreSQL 15   ⌄   🖥

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Query   Query History   ↗   Scratch Pad ✕   ↗

```
 1  SELECT * FROM film WHERE title LIKE '%Uptown%';
 2  SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3  SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4  SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5  SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications   ↗

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	count_of_movies 🔒 bigint	average_rental_rate 🔒 numeric	maximum_rental_duration 🔒 smallint	minimum_rental_duration 🔒 smallint
1	373	2.979276139410188	7	3

Total rows: 1 of 1   Query complete 00:00:00.056   Ln 7, Col 113

Step 5

Inventory team query

Dashboard   Properties   SQL   Statistics   Dependencies   Dependents   Processes   📄 Task 3.5 Filtering Data.sql   ✕

Rockbuster/postgres@PostgreSQL 15

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Query   Query History   Scratch Pad   ✕

```
 1   SELECT * FROM film WHERE title LIKE '%Uptown%';
 2   SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3   SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4   SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5   SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6   SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7   AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8   SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9   AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10   SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11   AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications

	count_of_movies 🔒 bigint	average_rental_rate 🔒 numeric	maximum_rental_duration 🔒 smallint	minimum_rental_duration 🔒 smallint
1	194	3.0518556701030928	7	3

Total rows: 1 of 1   Query complete 00:00:00.054   Ln 9, Col 109

Rockbuster/postgres@PostgreSQL 15   ⌄

Query   Query History   Scratch Pad ✕

```
 1  SELECT * FROM film WHERE title LIKE '%Uptown%';
 2  SELECT film_id, title, description From film WHERE length > 120 and rental_rate > 2.99;
 3  SELECT film_id, title, description FROM film WHERE rental_duration BETWEEN 3 and 7;
 4  SELECT film_id, title, description FROM film WHERE replacement_cost < 14.99;
 5  SELECT film_id, title, description FROM film WHERE rating ='PG' or rating='G';
 6  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 7  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG','G');
 8  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
 9  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('PG');
10  SELECT COUNT(film_id) AS count_of_movies, AVG (rental_rate) AS average_rental_rate,MAX(rental_duration)
11  AS maximum_rental_duration,Min(rental_duration) AS minimum_rental_duration FROM film WHERE rating in ('G');
12
```

Data Output   Messages   Notifications

	count_of_movies 🔒 bigint	average_rental_rate 🔒 numeric	maximum_rental_duration 🔒 smallint	minimum_rental_duration 🔒 smallint
1	179	2.9006145251396647	7	3