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## EXERCISE 3.5 FILTERING DATA

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## Q1 SQL Queries

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

```
1 SELECT *
2 FROM film
3 WHERE title
4 LIKE '%Uptown%'
5
```

Showing rows: 1 to 4   Page No: 1 of 1										
	film_id [PK] integer	title character varying (255)	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating
1	132	Chainsaw Uptown	A Beautiful Documentary of a Boy And a Robot who must Discover a Squirrel in Australia	2006	1	6	0.99	114	25.99	PG
2	207	Dangerous Uptown	A Unbelievable Story of a Mad Scientist And a Woman who must Overcome a Dog in California	2006	1	7	4.99	121	26.99	PG
3	927	Uprising Uptown	A Fanciful Reflection of a Boy And a Butler who must Pursue a Woman in Berlin	2006	1	6	2.99	174	16.99	NC-17
4	928	Uptown Young	A Fateful Documentary of a Dog And a Hunter who must Pursue a Teacher in An Abandoned Amusement ...	2006	1	5	2.99	84	16.99	PG

```
6 SELECT title, length, rental_rate
7 FROM film
8 WHERE length > 120
9 AND rental_rate > 2.99
```

Showing rows: 1 to 12   Page No: 1 of 1			
	title character varying (255)	length smallint	rental_rate numeric (4,2)
1	Ali Forever	150	4.99
2	American Circus	129	4.99
3	Dying Maker	168	4.99
4	Baby Hall	153	4.99
5	Casualties Encino	179	4.99
6	Beauty Grease	175	4.99
7	Betrayed Rear	122	4.99
8	Bikini Borrowers	142	4.99
9	Birch Antitrust	162	4.99
10	Bird Independence	163	4.99
11	Boogie Amelie	121	4.99
12	Born Spinal	179	4.99

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

```

11 SELECT title, rental_duration
12 FROM film
13 WHERE rental_duration
14 BETWEEN 4 AND 6

```

Data Output Messages Notifications

	title character varying (255)	rental_duration smallint
1	Grosse Wonderful	5
2	Airport Pollock	6
3	Bright Encounters	4
4	Academy Dinosaur	6
5	Affair Prejudice	5
6	African Egg	6
7	Airplane Sierra	6
8	Aladdin Calendar	6
9	Alamo Videotape	6
10	Alaska Phantom	6
11	Date Speed	4
12	Ali Forever	4
13	Alice Fantasia	6
14	Alien Center	5
15	Alley Evolution	6
16	Alter Victory	6
17	Amadeus Holy	6
18	Amelie Hellfighters	4
19	Amistad Midsummer	6
20	Analyze Hoosiers	6
21	Anthem Luke	5

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

```

16 SELECT title, replacement_cost
17 FROM film
18 WHERE replacement_cost < 14.99

```

Data Output Messages Notifications

	title character varying (255)	replacement_cost numeric (5,2)
6	Anonymous Human	12.99
7	Antitrust Tomatoes	11.99
8	Apocalypse Flamingos	11.99
9	Argonauts Town	12.99
10	Armageddon Lost	10.99
11	Artist Coldblooded	10.99
12	Autumn Crow	13.99
13	Balloon Homeward	10.99
14	Bill Others	12.99
15	Blackout Private	12.99
16	Blade Polish	10.99
17	Blood Argonauts	13.99
18	Boiled Dares	13.99
19	Boogie Amelie	11.99
20	Boulevard Mob	11.99
21	Bunch Minds	13.99
22	Candidate Perdition	10.99
23	Carrie Bunch	11.99
24	Catch Amistad	10.99
25	Center Dinosaur	12.99
26	Clash Freddy	12.99
27	Chicago North	11.99
28	Chocolate Duck	13.99
29	Cider Desire	9.99
30	Circus Youth	12.99

4) Film replacement cost is less than 14.99

```

20 SELECT title, rating
21 FROM film
22 WHERE rating IN ('PG','G')

```

Data Output Messages Notifications



	title character varying (255) 🔒	rating mpaa_rating 🔒
1	Academy Dinosaur	PG
2	Ace Goldfinger	G
3	Affair Prejudice	G
4	African Egg	G
5	Agent Truman	PG
6	Alamo Videotape	G
7	Alaska Phantom	PG
8	Ali Forever	PG
9	Amadeus Holy	PG
10	Amistad Midsummer	G
11	Angels Life	G
12	Annie Identity	G
13	Arizona Bang	PG
14	Armageddon Lost	G
15	Arsenic Independence	PG
16	Dying Maker	PG
17	Atlantis Cause	G
18	Autumn Crow	G
19	Baked Cleopatra	G
20	Casualties Encino	G
21	Ballroom Mockingbird	G
22	Barbarella Streetcar	G
23	Barefoot Manchurian	G
24	Beach Heartbreakers	G
25	Beauty Grease	G

5) Film rating is either PG or G

## Q3 Query

```
20 SELECT
21 COUNT(film_id) AS count_of_movies,
22 AVG(rental_rate) AS average_movie_rental_rate,
23 MAX(rental_duration) AS Maximum_rental_duration,
24 MIN(rental_duration) AS minimum_rental_duration
25 FROM film
26 WHERE rating IN ('PG','G')
```

Data Output Messages Notifications

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

## Q4 Query

```
20 SELECT rating,
21 COUNT(film_id) AS count_of_movies,
22 AVG(rental_rate) AS average_movie_rental_rate,
23 MAX(rental_duration) AS Maximum_rental_duration,
24 MIN(rental_duration) AS minimum_rental_duration
25 FROM film
26 WHERE rating IN ('PG','G')
27 GROUP BY rating
```

Data Output Messages Notifications

	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