

## Answer 3.5- Filtering Data

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

Query		Query History	
1	SELECT	film_id, title, description	
2	FROM	film	
3	WHERE	title LIKE '%Uptown%'	

  

Data output		Messages	Notifications
film_id	title	description	
[PK] integer	character varying (255)	text	
1	132	Chainsaw Uptown	
2	207	Dangerous Uptown	
3	927	Uprising Uptown	
4	928	Uptown Young	

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

Query		Query History	
1	SELECT	film_id, title, description	
2	FROM	film	
3	WHERE	length > 120	
4	AND	rental_rate > 2.99	
5			

  

Data output		Messages	Notifications
film_id	title	description	
[PK] integer	character varying (255)	text	
1	13	Ali Forever	
2	21	American Circus	

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

Query		Query History
<pre> 1 SELECT film_id, title, description, 2 rental_duration 3 FROM film 4 WHERE rental_duration BETWEEN 3 AND 7 AND NOT rental_duration= 3 AND 5 NOT rental_duration =7 </pre>		
Data output		Messages
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>		Notifications
title	description	
character varying (255)	text	
1 Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia	
2 Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India	
3 Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Bo	
4 Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Cana	
5 Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A :	
6 African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic I	
7 Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat	
8 Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient	

1d. Film replacement cost is less than 14.99

Query		Query History
<pre> 1 SELECT film_id, title, description 2 FROM film 3 WHERE replacement_cost &lt;14.99 </pre>		
Data output		Messages
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>		Notifications
film_id	title	description
[PK] integer	character varying (255)	text
1 98	Bright Encounters	A Fateful Yarn of a Lun
2 2	Ace Goldfinger	A Astounding Epistle o
3 15	Alien Center	A Brilliant Drama of a C
4 22	Amistad Midsummer	A Emotional Character
5 23	Anaconda Confessions	A Lacklusture Display o
6 27	Anonymous Human	A Amazing Reflection o
7 29	Antitrust Tomatoes	A Fateful Yarn of a Wo
8 32	Apocalypse Flamingos	A Astounding Story of
9 36	Argonauts Town	A Emotional Epistle of
10 39	Armageddon Lost	A Fast-Paced Tale of a
11 42	Artist Coldblooded	A Stunning Reflection o

1e. Film rating is either PG or G

Query Query History

```

1 SELECT film_id, title, description,
2 rating
3 FROM film
4 WHERE rating IN ('PG','G')

```

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 Batt
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explor
3	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who m
4	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who
5	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a
6	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry
7	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vangu

## 2a. Count of the movies

Query Query History

```

1 SELECT film_id, title, description,
2 rating,COUNT(film_id)AS count_of_Movies
3 FROM film
4 GROUP BY film_id
5 HAVING rating IN ('PG','G')
6 ORDER BY count_of_Movies DESC

```

Data output Messages Notifications



	film_id [PK] integer	title character varying (255)	description text	rating mpaa_rating	count_of_movies bigint
1	351	Gaslight Crusade	A Amazin...	PG	1
2	753	Rush Goodfellas	A Emotio...	PG	1
3	477	Jawbreaker Brooklyn	A Stunnin...	PG	1
4	273	Effect Gladiator	A Beautif...	PG	1
5	732	Rings Heartbreakers	A Amazin...	G	1
6	552	Majestic Floats	A Thrillin...	PG	1
7	867	Super Wyoming	A Action-...	PG	1
8	350	Garden Island	A Unbelie...	G	1
9	959	Warlock Werewolf	A Astoun...	G	1
10	837	Stage World	A Lacklus...	PG	1
11	758	Saints Bride	A Fateful ...	G	1
12	874	Tadpole Park	A Beautif...	PG	1
13	554	Malicious Pet	A Intrepid	G	1

2b. Average rental rate.

Query Query History

```

1 SELECT film_id, title, description,
2    rental_rate,rating,
3    AVG(rental_rate)AS Avg_rental_rate
4 FROM film
5 GROUP BY film_id
6 HAVING rating IN ('PG','G')
  
```

Data output Messages Notifications

	film_id [PK] integer	title character varying (255)	description text	rental_rate numeric (4,2)	rating mpaa_rating	avg_rental_rate numeric
1	351	Gaslight Crusade	A Amazing ...	2.99	PG	2.99
2	753	Rush Goodfellas	A Emotiona...	0.99	PG	0.99
3	477	Jawbreaker Brooklyn	A Stunning ...	0.99	PG	0.99
4	273	Effect Gladiator	A Beautiful ...	0.99	PG	0.99
5	732	Rings Heartbreakers	A Amazing ...	0.99	G	0.99
6	552	Majestic Floats	A Thrilling ...	0.99	PG	0.99
7	867	Super Wyoming	A Action-P...	4.99	PG	4.99
8	350	Garden Island	A Unbeliev...	4.99	G	4.99
9	959	Warlock Werewolf	A Astoundl...	2.99	G	2.99
10	837	Stage World	A Lacklust...	2.99	PG	2.99
11	758	Saints Bride	A Fateful T...	2.99	G	2.99
12	874	Tadpole Park	A Beautiful ...	2.99	PG	2.99

### 2c. Maximum rental duration and minimum rental duration

Query

Query History

```

1 SELECT film_id, title, description,
2    rating,
3    MAX(rental_duration) AS Max_rental_duration,
4    MIN(rental_duration) AS Min_rental_duration
5 FROM film
6 GROUP BY film_id
7 HAVING rating IN ('PG','G')

```

Data output

Messages

Notifications

	film_id [PK] integer	title character varying (255)	description text	rating mpaa_rating	max_rental_duration smallint	min_rental_duration smallint
1	351	Gaslight Crusade	A Amazing ...	PG	4	4
2	753	Rush Goodfellas	A Emotiona...	PG	3	3
3	477	Jawbreaker Brooklyn	A Stunning ...	PG	5	5
4	273	Effect Gladiator	A Beautiful ...	PG	6	6
5	732	Rings Heartbreakers	A Amazing ...	G	5	5
6	552	Majestic Floats	A Thrilling ...	PG	5	5
7	867	Super Wyoming	A Action-P...	PG	5	5
8	350	Garden Island	A Unbeliev...	G	3	3
9	959	Warlock Werewolf	A Astoundi...	G	6	6
10	837	Stage World	A Lacklust...	PG	4	4
11	758	Saints Bride	A Fateful T...	G	5	5
12	874	Tadpole Park	A Beautiful ...	PG	6	6
13	554	Malkovich Ret	A Intrenid R...	G	6	6

3 AND 4-

Aliases were already done in task 2 but below is 'group' by rating

Query

Query History

Scratch Pad

1

SELECT rating,

2

COUNT(title) 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

GROUP BY rating

8

HAVING rating IN ('PG','G')

Data output

Messages

Notifications

rating

count\_of\_movies

average\_movie\_rental\_rate

maximum\_rental\_duration

minimum\_rental\_duration

mpaa\_rating

bigint

numeric

smallint

smallint

1

G

178

2.888876404494382

7

3

2

PG

194

3.0518556701030928

7

3