

3.5 Answers- Filtering Data

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

```
SELECT film_id, title, description
```

```
FROM film
```

```
WHERE title LIKE '%Uptown%'
```

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

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

```
SELECT film_id, title, description
```

```
FROM film
```

```
WHERE length >120 AND rental_rate >2.99
```

Query Query History Scratch Pad x			
3 WHERE length>120 AND rental_rate >2.99			
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
8	70	Bikini Borrowers	A Astounding Drama of a Astronaut And a Cat who must Discover a Woman in The First Manned Space St...
9	74	Birch Antitrust	A Fanciful Panorama of a Husband And a Pioneer who must Outgun a Dog in A Baloon
10	75	Bird Independence	A Thrilling Documentary of a Car And a Student who must Sink a Hunter in The Canadian Rockies
11	86	Boogie Amelie	A Lackluster Character Study of a Husband And a Sumo Wrestler who must Succumb a Technical Writer ...
12	88	Born Spinal	A Touching Epistle of a Frisbee And a Husband who must Pursue a Student in Nigeria
13	93	Brannigan Sunrise	A Amazing Epistle of a Moose And a Crocodile who must Outrace a Dog in Berlin
14	95	Breakfast Goldfinger	A Beautiful Reflection of a Student And a Student who must Fight a Moose in Berlin
15	100	Brooklyn Desert	A Beautiful Drama of a Dentist And a Composer who must Battle a Sumo Wrestler in The First Manned Sp...
16	103	Bucket Brotherhood	A Amazing Display of a Girl And a Womanizer who must Succumb a Lumberjack in A Baloon Factory
17	117	Candles Grapes	A Fanciful Character Study of a Monkey And a Explorer who must Build a Astronaut in An Abandoned Fun ...
18	124	Casper Dragonfly	A Intrepid Documentary of a Boat And a Crocodile who must Chase a Robot in The Sahara Desert

1c. Rental duration is between 3 and 7 days (3 & 7 not inclusive)

```
SELECT film_id, title, description
```

```
FROM film
```

```
WHERE rental_duration > 3 AND rental_duration <7
```

Query Query History Scratch Pad x			
1 SELECT film_id, title, description 2 FROM film 3 WHERE rental_duration > 3 AND rental_duration <7			
Data output Messages Notifications			
	film_id [PK] integer	title character varying (255)	description text
1	384	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia
2	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India
3	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
4	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
5	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank
6	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Me
7	7	Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat
8	10	Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China
9	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention
10	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia
11	213	Date Speed	A Touching Saga of a Composer And a Moose who must Discover a Dentist in A MySQL Convention
12	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies
13	14	Alice Fantasia	A Emotional Drama of a A Shark And a Database Administrator who must Vanquish a Pioneer in Soviet Georgia
14	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention
15	16	Alley Evolution	A Fast-Paced Drama of a Robot And a Composer who must Battle a Astronaut in New Orleans
16	18	Alter Victory	A Thoughtful Drama of a Composer And a Feminist who must Meet a Secret Agent in The Canadian Rockies

Total rows: 606 of 606 Query complete 00:00:00.133 Ln 4, Col 1

In Ascending order

```

SELECT film_id, title, description
FROM film
WHERE rental_duration > 3 AND rental_duration < 7
ORDER BY rental_duration ASC

```

Query Query History Scratch Pad x

```

2 FROM film
3 WHERE rental_duration > 3 AND rental_duration < 7
4 ORDER BY rental_duration ASC

```

Data output Messages Notifications

	film_id [PK] integer	title character varying (255)	description text
1	315	Finding Anaconda	A Fateful Tale of a Database Administrator And a Girl who must Battle a Squirrel in New Orleans
2	852	Strangelove Desire	A Awe-Inspiring Panorama of a Lumberjack And a Waitress who must Defeat a Crocodile in An Abandoned Amuse
3	317	Fireball Philadelphia	A Amazing Yarn of a Dentist And a Shark who must Vanquish a Madman in An Abandoned Mine Shaft
4	319	Fish Opus	A Touching Display of a Feminist And a Girl who must Confront a Astronaut in Australia
5	320	Flamingos Connecticut	A Fast-Paced Reflection of a Composer And a Composer who must Meet a Cat in The Sahara Desert
6	989	Working Microcosmos	A Stunning Epistle of a Dentist And a Dog who must Kill a Madman in Ancient China
7	601	Moulin Wake	A Astounding Story of a Forensic Psychologist And a Cat who must Battle a Teacher in An Abandoned Mine Shaft
8	596	Moonshine Cabin	A Thoughtful Display of a Astronaut And a Feminist who must Chase a Frisbee in A Jet Boat
9	329	Forest Sons	A Thrilling Documentary of a Forensic Psychologist And a Butler who must Defeat a Explorer in A Jet Boat
10	588	Model Fish	A Beautiful Panorama of a Boat And a Crocodile who must Outrace a Dog in Australia
11	586	Mockingbird Hollywood	A Thoughtful Panorama of a Man And a Car who must Sink a Composer in Berlin
12	85	Bonnie Holocaust	A Fast-Paced Story of a Crocodile And a Robot who must Find a Moose in Ancient Japan
13	843	Steel Santa	A Fast-Paced Yarn of a Composer And a Frisbee who must Face a Moose in Nigeria
14	585	Mot Duffel	A Unbelievable Documentary of a Frisbee And a Boat who must Meet a Boy in The Canadian Rockies
15	581	Minority Kiss	An Insightful Display of a Lumberjack And a Sumo Wrestler who must Meet a Man in The Outback
16	939	Vertigo Northwest	A Unbelievable Display of a Mad Scientist And a Mad Scientist who must Outgun a Mad Cow in Ancient Japan

Total rows: 606 of 606 Query complete 00:00:00.066 Ln 4, Col 29

1d. . Film replacement cost is less than 14.99

```

SELECT film_id, title, description
FROM film
WHERE replacement_cost < 14.99

```

Query Query History Scratch Pad x

```

1 SELECT film_id, title, description
2 FROM film
3 WHERE replacement_cost < 14.99

```

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 Lackluster 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
7	29	Antitrust Tomatoes	A Fateful Yarn of a Womanizer And a Feminist who must Succumb a Database Administrator in Ancient India
8	32	Apocalypse Flamingos	A Astounding Story of a Dog And a Squirrel who must Defeat a Woman in An Abandoned Amusement Park
9	36	Argonauts Town	A Emotional Epistle of a Forensic Psychologist And a Butler who must Challenge a Waitress in An Abandoned Mine
10	39	Armageddon Lost	A Fast-Paced Tale of a Boat And a Teacher who must Succumb a Composer in An Abandoned Mine Shaft
11	42	Artist Coldblooded	A Stunning Reflection of a Robot And a Moose who must Challenge a Woman in California
12	46	Autumn Crow	A Beautiful Tale of a Dentist And a Mad Cow who must Battle a Moose in The Sahara Desert
13	51	Balloon Homeward	An Insightful Panorama of a Forensic Psychologist And a Mad Cow who must Build a Mad Scientist in The First Mar
14	72	Bill Others	A Stunning Saga of a Mad Scientist And a Forensic Psychologist who must Challenge a Squirrel in A MySQL Conve
15	78	Blackout Private	A Intrepid Yarn of a Pastry Chef And a Mad Scientist who must Challenge a Secret Agent in Ancient Japan
16	79	Blade Polish	A Thoughtful Character Study of a Frisbee And a Pastry Chef who must Fight a Dentist in The First Manned Space

Total rows: 249 of 249 Query complete 00:00:00.119 Ln 4, Col 1

1e . Film rating with either “PG” or “G”

```

SELECT film_id, title, description
FROM film
WHERE rating IN ('PG', 'G')

```

Query Query History	
<pre> 1 SELECT film_id, title, description 2 FROM film 3 WHERE rating IN ('PG', 'G') </pre>	
Data output Messages Notifications	
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	
film_id	title
[PK] integer	character varying (255)
description	text
1	Ace Ventura
2	Ace Ventura
3	Affair Prejudice
4	African Egg
5	Agent Truman
6	Alamo Videotape
7	Alaska Phantom
8	Ali Forever
9	Amadeus Holy
10	Amistad Midsummer
11	Angels Life
12	Annie Identity
13	Arizona Bang
14	Armageddon Lost
15	Arsenic Independence
16	Dying Maker
17	Atlantis Cause
18	Autumn Crow
Total rows: 372 of 372 Query complete 00:00:00.050	

2a. Count of movies with PG or G ratings – 372

2b. Average rental rate – PG (3.05) G(2.88)

2c. Max. rental duration and min rental duration – 3 and 7 days

Query

Query History

```
1 SELECT rating,
2 COUNT(title),
3 AVG(rental_rate),
4 MAX(rental_duration),
5 MIN(rental_duration)
6 FROM film
7 WHERE rating IN ('PG', 'G') GROUP BY rating
8
```

Data output

Messages

Notifications

	rating	count	avg	max	min
	mpaa_rating	bigint	numeric	smallint	smallint
1	G	178	2.888876404	7	3
2	PG	194	3.051855670	7	3

3. To make the output easier for your coworkers to understand, give your aggregate columns the following aliases: “count of movies,” “average movie rental rate,” “maximum rental duration”, and “minimum rental duration”

```

SELECT rating,
COUNT(title),
AVG(rental_rate),
MAX(rental_duration),
MIN(rental_duration)
FROM film
WHERE rating IN ('PG', 'G') GROUP BY rating

```

Query

Query History

1

SELECT rating,

2

COUNT(title),

3

AVG(rental_rate),

4

MAX(rental_duration),

5

MIN(rental_duration)

6

FROM film

7






WHERE rating IN ('PG', 'G') GROUP BY rating

8

Data output

Messages

Notifications

	rating mpaa_rating 	count bigint 	avg numeric 	max smallint 	min smallint 
1	G	178	2.888876404	7	3
2	PG	194	3.051855670	7	3

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

Query

Query History

1

2

3

4

5

6

7

8

SELECT rating,

COUNT(title) 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') GROUP BY rating

Scratch Pad

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Data output

Messages

Notifications

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	rating mpaa_rating	count_of_movies bigint	average_movie_rental_rate numeric	maximum_rental_duration smallint	minimum_rental_duration smallint
1	G	178	2.888876404494382	7	3
2	PG	194	3.0518556701030928	7	3