

Ex 3.5

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

The screenshot shows a pgAdmin interface with a query window and a results grid. The query is:

```
SELECT title, film_id, description
FROM film
WHERE title LIKE '%Uptown%'
```

The results grid displays four rows of film data:

title	film_id	description
Chainsaw Uptown	132	A Beautiful Documentary of a Boy And a Robot who must Discover a Squirrel in Australia.
Dangerous Uptown	207	A Umbelieveable Story of a Mad Scientist And a Woman who must Overcome a Dog in California.
Uprising Uptown	923	A Fanciful Reflection of a Boy And a Butler who must Pursue a Woman in Berlin.

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

The screenshot shows a pgAdmin interface with a query window and a results grid. The query is:

```
SELECT title,
       film_id,
       description,
       length,
       rental_rate
  FROM film
 WHERE rental_rate > 2.99 AND length > 120
```

The results grid displays 157 rows of film data, ordered by rental_rate. The columns are: title, film_id, description, length, and rental_rate. The rental_rate column is highlighted with a yellow background.

title	film_id	description	length	rental_rate
AI Farmer	13	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies.	130	1.99
American Circus	21	A Ingrateful Drama of a Girl And a Astronaut who must Face a Database Administrator in A Shark Tank.	129	2.99
Dying Maker	245	A Intrepid Tale of a Boat And a Monkey who must Kill a Cat in California.	166	2.99
Baby Hall	47	A Boring Character Study of a Shark And a Girl who must Discover a Feminist in An Abandoned Mine Shaft.	152	2.99
Cannibalized Encino	126	A Ingrateful Drama of a Shark And a Pastry Chef who must Face a Boy in A Monastery.	179	2.99
Beauty Doctor	81	A Fast-Paced Display of a Composer And a Moose who must Kill a Robot in An Abandoned Mine Shaft.	176	2.99
Beyond Root	48	A Emotional Character Study of a Boat And a Pioneer who must Find a Explorer in A Shark-Tank.	133	2.99
Bikini Borrowers	70	A Astounding Drama of a Astronaut And a Cat who must Discover a Woman in The First Manned Space Station.	142	2.99
Born Artist	74	A Funny Parody of a Hospital And a Pioneer who must Outrun a Dog in A Bikini.	162	2.99
Wild Independence	75	A Thrilling Documentary of a Car And a Student who must Sink a Hunter in The Canadian Rockies.	163	2.99
Olympic Arctic	96	A Luckless Character Study of a Husband And a Bronx Waiter who must Succeed a Technical Writer in The Gulf of M...	121	2.99
Born Spiral	98	A Touching Epic of a Frisbee And a Husband who must Pursue a Student in Nigeria.	179	2.99
Brilliant Sunrise	93	A Amazing Epic of a Moose And a Crocodile who must Outrace a Dog in Berlin.	121	2.99
Breakfast Goldfinger	95	A Beautiful Reflection of a Student And a Student who must Fight a Moose in Berlin.	123	2.99

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

The screenshot shows the MySQL Workbench interface with a query editor and a results grid. The query is:

```
SELECT title, film_id, description, rental_duration
FROM film
WHERE rental_duration BETWEEN 4 AND 6
```

The results grid displays 606 rows, each containing a film's title, ID, description, and rental duration. The rental duration column is sorted in ascending order.

title	film_id	description	rental_duration
Grosse Womderful	384	A Epic Drama of a Cat And a Explorer who must Rescuen a Moose In Australia.	3
Airport Pollock	8	A Epic Tale of a Messer And a Girl who must Confront a Monkey in Ancient India.	3
Bright Encounters	98	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat.	4
Academy Disaster	1	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies.	6
Alfies Pasadena	4	A Fanciful Documentary of a Private And a Lumberjack who must Chase a Monkey in A Shark Tank.	5
African Egg	5	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico.	6
Airplane Sirens	7	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat.	6
Aladdin Calendar	10	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China.	6
Alonso Valentine	11	A Bloody Battle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention.	6
Alaska Phantom	12	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia.	6
Alfa Speed	13	A Touching Saga of a Composer And a Moose who must Discover a Dentist in A MySQL Convention.	4
All Forever	14	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies.	4
Alles Fantasie	15	A Emotional Drama of a Shark And a Database Administrator who must Vanquish a Pioneer in Soviet Georgia.	6
Alles Ganz	16	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention.	5
Alley Excitation	17	A Fast-Paced Drama of a Robot And a Composer who must Battle a Astronaut in New York.	6

1d) Film replacement cost is less than 14.99

The screenshot shows the MySQL Workbench interface with a query editor and a results grid. The query is:

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

The results grid displays 249 rows, each containing a film's title, ID, description, and replacement cost. The replacement cost column is sorted in ascending order.

title	film_id	description	replacement_cost
Bright Encounters	98	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat.	12.99
Ace Goldfinger	2	A Ascending Epic of a Database Administrator And a Explorer who must Find a Cat in Ancient China.	12.99
Alon Dexter	19	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention.	10.99
Arrested Melsummer	22	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Snow Weather in California.	10.99
Anaracode Confessions	23	A Laidback Display of a Dentist And a Dentist who must Fight a Girl in Australia.	9.99
Anonymous Human	27	A Amazing Reflection of a Database Administrator And a Astronaut who must Defeat a Database Administrator in A Shik Tank.	12.99
Arribatic Tornatore	26	A Fateful Yarn of a Womanizer And a Feminist who must Succumb a Database Administrator in Ancient India.	11.99
Apocalypse Flamingos	33	A Astounding Story of a Dog And a Squirrel who must Defeat a Woman in An Abandoned Amusement Park.	11.99
Argonauts Town	36	A Emotional Epic of a Forensic Psychologist And a Butler who must Challenge a Waitress in An Abandoned Mine Shaft.	12.99
Armageddon Lost	39	A Fast-Paced Tale of a Boat And a Teacher who must Rescuen a Composer in An Abandoned Wine Shaft.	10.99
Artist CallBlaed	42	A Moving Reflection of a Robot And a Mouse who must Challenge a Woman in California.	10.99
Autumn Crow	46	A Beautiful Tale of a Dentist And a Mad Crow who must Battle a Moose in The Sahara Desert.	13.99
Balkan Homeward	51	A Insightful Paranoia of a Forensic Psychologist And a Mad Cow who must Build a Mad Scientist in The First Manned Space Mission.	10.99
Bill Others	52	A Stemming Saga of a Mad Scientist And a Forensic Psychologist who must Challenge a Squirrel in A MySQL Convention.	12.99
Blackout Private	53	A Trapped Yarn of a Pastry Chef And a Mad Scientist who must Challenge a Secret Agent in Ancient Japan.	12.99

1e) Film rating is either PG or G

The screenshot shows a pgAdmin 4 interface with a query editor and a results grid. The query is:

```
SELECT title, film_id, description, rating
FROM film
WHERE rating = 'PG' OR rating= 'G'
```

The results grid displays 372 rows of movie information, filtered by rating ('PG' or 'G'). The columns are: title, film_id, description, and rating.

title	film_id	description	rating
Academy Award	1	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	PG
Ace Goldfinger	2	A Arousing Epitope of a Database Administrator And a Explorer who must Find a Car in Ancient China	G
Affair Propaganda	3	A Fanciful Documentary of a Pitbull And a Lumberjack who must Chase a Monkey in A Shark Tank	G
Albacore Egg	4	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico	G
Agent Truman	5	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China	PG
Alarms Videotape	6	A Boring Epitope of a Baker And a Cat who must Fight a Pastry Chef in A MySQL Convention	G
Alaska Phantom	7	A Fanciful Saga of a Horse And a Pastry Chef who must Venture a Day in Australia	PG
All Forever	8	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	PG
Amazement Holly	9	A Emotional Display of a Pioneer And a Testicoc Writer who must Battle a Man In A Boiler	PG
Annotated Midsummer	10	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California	G
AngelsLife	11	A Thoughtful Display of a Woman And a Astronaut who must Battle a Robot in Berlin	G
Annacidentay	12	A Amazing Panorama of a Pastry Chef And a Dog who must Escape a Woman in An Abandoned Amusement Park	G
Arizona Bang	13	A Brilliant Panorama of a Mad Scientist And a Mail Cow who must Meet a Pioneer in A Monastery	PG
Armageddon Lost	14	A Fast-Paced Tale of a Bat And a Teacher who must Outwane a Composer in An Abandoned Mine Shaft	G
Assured Independence	15	A Fanciful Documentary of a Mad Cow And a Waitress who must Find a Devil in Bohemia	PG

Total rows: 372 - Query complete 00:00:00.232 ✓ Successfully run. Total query runtime: 232 msec, 372 rows affected.

3. The query you wrote in step 1e returned a list of movies with a film rating of either PG or G. The inventory team has asked for more information about this list: count of the movies, average rental rate, and maximum and minimum rental durations. Run the query and transfer the code you used and your results onto a new sheet in your Excel file. 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"
- "minimum rental duration"

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Query Query History
1   COUNT (film_id) AS count_of_movies,
2   AVG (rental_rate) AS average_movie_rental_rate,
3   MIN (rental_duration) AS minimum_rental_duration,
4   MAX (rental_duration) AS maximum_rental_duration
5
6   FROM film
7   WHERE rating = 'PG' OR rating = 'G'
8

Data Output Messages Notifications
SQL
count_of_movies average_movie_rental_rate minimum_rental_duration maximum_rental_duration
1          372           2.9738709677419355            3                  7
```

4. The customer team wants to see the fields you calculated in step 3 grouped by rating. The totals in your results table should look the same but broken down by the rating column.
Copy-paste your query and its output onto a new sheet.

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Query Query History
1   SELECT
2   COUNT (film_id) AS count_of_movies,
3   AVG (rental_rate) AS average_movie_rental_rate,
4   MIN (rental_duration) AS minimum_rental_duration,
5   MAX (rental_duration) AS maximum_rental_duration
6   FROM film
7   WHERE rating = 'PG' OR rating = 'G'
8   GROUP BY rating
9
10

Data Output Messages Notifications
Showing rows: 1 to 2
SQL
count_of_movies average_movie_rental_rate minimum_rental_duration maximum_rental_duration
1          178           2.8888764044943820            3                  7
2          194           3.0518556701030928            3                  7
```