

### Task 3.5 Jada Myrie

1. Write some SQL queries to return a lists of films that meet the following conditions. (**Hint:** These queries are not building upon each other, they are separate! Hence, when running the query for 1b. you don't need to take into account 1a, for example.) Your results tables should include the columns "film\_ID," "title," and "description".
  - Film title contains the word *Uptown* in any position
  - Film length is more than 120 minutes and rental rate is more than 2.99
  - Rental duration is between 3 and 7 days (where 3 and 7 aren't inclusive)
  - Film replacement cost is less than 14.99
  - Film rating is either PG or G

a)

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

	title character varying (255)	film_id [PK] integer	description text
1	Chainsaw Uptown	132	A Beautiful Documentary of a Boy And a Robot who must Discover a Squirrel in Australia
2	Dangerous Uptown	207	A Unbelievable Story of a Mad Scientist And a Woman who must Overcome a Dog in California
3	Uprising Uptown	927	A Fanciful Reflection of a Boy And a Butler who must Pursue a Woman in Berlin
4	Uptown Young	928	A Fateful Documentary of a Dog And a Hunter who must Pursue a Teacher in An Abandoned Amusement P...

b)

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

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

c)

```
1 SELECT title, film_id, description, length, rental_duration
2 FROM film
3 WHERE rental_duration > '3'
4 AND rental_duration < '7'
```

d)

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

	title character varying (255)	film_id [PK] integer	description text
1	Bright Encounters	98	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
2	Ace Goldfinger	2	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
3	Alien Center	15	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention
4	Amistad Midsummer	22	A Emotional Character Study of a Dentist And a Crocodile who must Meet a Sumo Wrestler in California
5	Anaconda Confessions	23	A Lacklusture Display of a Dentist And a Dentist who must Fight a Girl in Australia
6	Anonymous Human	27	A Amazing Reflection of a Database Administrator And a Astronaut who must Outrace a Database Administrator in .
Total rows: 249 of 249    Query complete 00:00:00.068			Ln 3, Col :

e)

```
SELECT *
FROM film
WHERE rating = 'PG'
OR rating = 'G'
```

	title character varying (255)	film_id [PK] integer	description text
1	Academy Dinosaur	1	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
2	Ace Goldfinger	2	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
3	Affair Prejudice	4	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank
4	African Egg	5	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gu
5	Agent Truman	6	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China
6	Alamo Videotape	11	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention
Total rows: 372 of 372    Query complete 00:00:00.126			Ln 3,

3.The query you wrote in step 1e returned a list of movies that meet certain criteria (film rating is either PG or G). The inventory team has asked for the following information about this list.

- Count of the movies
- Average rental rate
- Maximum rental duration and minimum rental duration

COUNT of movies = 373

Average rental rate = 2.97387

Maximum rental duration =7

Minimum rental duration = 3

4.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”. Run the query and transfer the result into your Excel file on a new sheet as well as the code you used to get there.

```
1 SELECT COUNT (film_id) AS count_of_movies,
2 AVG (rental_rate) AS movie_rental_amount,
3 MIN (rental_duration) AS minimum_rental_duration,
4 MAX (rental_duration) AS maximum_rental_duration
5 FROM film
6 WHERE rating IN ('PG', 'G')
```

	count_of_movies bigint	movie_rental_amount numeric	minimum_rental_duration smallint	maximum_rental_duration smallint
1	372	2.9738709677419357	3	7

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

Query

Query History

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Scratch Pad

1

SELECT rating, COUNT (film\_id) AS count\_of\_movies,

2

AVG (rental\_rate) AS movie\_rental\_rate,

3

MIN (rental\_duration) AS minimum\_rental\_duration,

4

MAX (rental\_duration) AS maximum\_rental\_duration

5

FROM film

6

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

7

GROUP BY rating

Data Output

Messages

Notifications

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