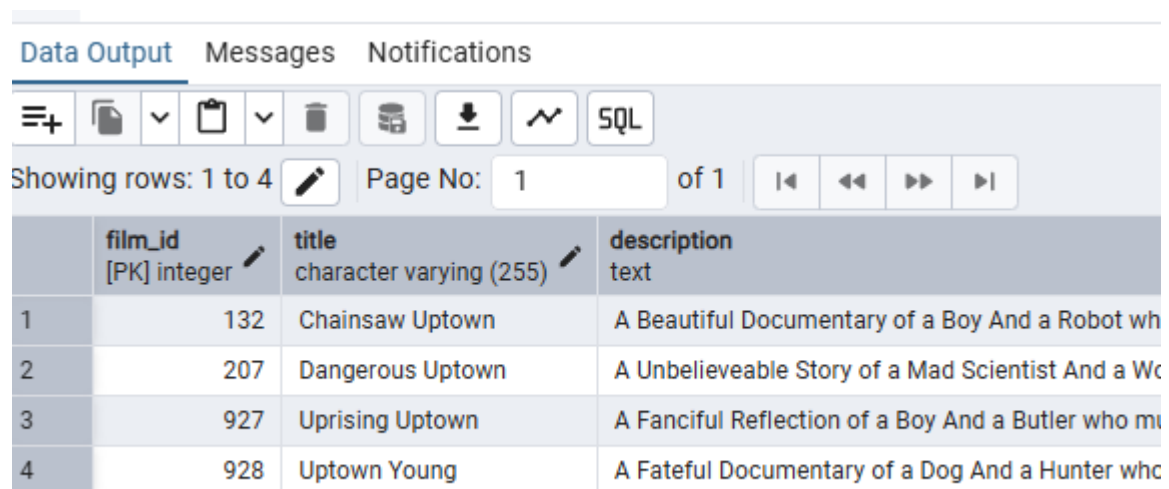


Now that you know how to filter data using the WHERE and HAVING clauses, the customer team, the inventory team, and the management board have sent you a list of questions, and they want answers ASAP!

Directions

1. Write SQL queries to return lists of films that meet the following conditions. Download your outputs for each query as CSV files using the pgadmin inbuilt functionality. Copy your query and results table (including the columns “film_ID,” “title,” and “description”) into the corresponding CSV file.
 - Film title contains the word *Uptown* in any position

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






	film_id [PK] integer	title character varying (255)	description text
1	132	Chainsaw Uptown	A Beautiful Documentary of a Boy And a Robot wh
2	207	Dangerous Uptown	A Unbelievable Story of a Mad Scientist And a Wc
3	927	Uprising Uptown	A Fanciful Reflection of a Boy And a Butler who m
4	928	Uptown Young	A Fateful Documentary of a Dog And a Hunter whc

- 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
```


- Film replacement cost is less than 14.99

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

Data Output Messages Notifications			
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	film_id [PK] integer 	title character varying (255) 	description text
1	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who mu
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And
3	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who mu
4	22	Amistad Midsummer	A Emotional Character Study of a Dentist And a Crocod
5	23	Anaconda Confessions	A Lacklusture Display of a Dentist And a Dentist who m
6	27	Anonymous Human	A Amazing Reflection of a Database Administrator And
7	29	Antitrust Tomatoes	A Fateful Yarn of a Womanizer And a Feminist who mu
8	32	Apocalypse Flamingos	A Astounding Story of a Dog And a Squirrel who must l
9	36	Argonauts Town	A Emotional Epistle of a Forensic Psychologist And a R

- Film rating is either PG or G

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

	film_id [PK] integer	title character varying (255)	description text
1	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist w
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator
3	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumbe
4	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a
5	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who mu
6	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fi
7	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef wh

2. Merge your CSV files into one Excel file (.xlsx) and create a separate sheet for each query, labeled 1a, 1b, 1c, etc. You'll use this file for all further questions in this task.

- ```
SELECT title,
 description,
 COUNT(film_id) 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 title, description;
```

Data Output

Messages

Notifications

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SQL

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Page No: 1 of 1

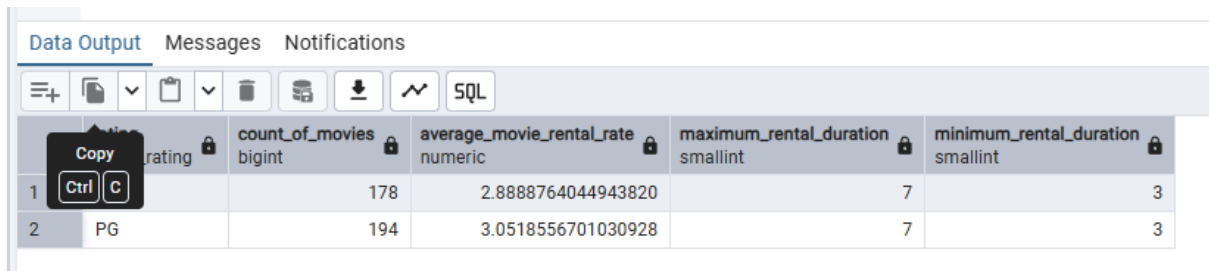
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|   | <div>title</div> <div>character varying (255) 🔒</div> | <div>description</div> <div>text</div>                                |
|---|-------------------------------------------------------|-----------------------------------------------------------------------|
| 1 | Baked Cleopatra                                       | A Stunning Drama of a Forensic Psychologist And a Husband who m       |
| 2 | Sugar Wonka                                           | A Touching Story of a Dentist And a Database Administrator who mu     |
| 3 | Mile Mulan                                            | A Lacklustre Epistle of a Cat And a Husband who must Confront a E     |
| 4 | Goodfellas Salute                                     | A Unbelievable Tale of a Dog And a Explorer who must Sink a Mad C     |
| 5 | Jekyll Frogmen                                        | A Fanciful Epistle of a Student And a Astronaut who must Kill a Waitr |
| 6 | Gosford Donnie                                        | A Epic Panorama of a Mad Scientist And a Monkey who must Redeem       |
| 7 | Smile Earring                                         | A Intrepid Drama of a Teacher And a Butler who must Build a Pastry    |

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.

```
SELECT rating,
 COUNT(film_id) 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;
```

But that only gives this, I think they want to see all the movies still



|   | rating | count_of_movies<br>bigint | average_movie_rental_rate<br>numeric | maximum_rental_duration<br>smallint | minimum_rental_duration<br>smallint |
|---|--------|---------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| 1 |        | 178                       | 2.8888764044943820                   | 7                                   | 3                                   |
| 2 | PG     | 194                       | 3.0518556701030928                   | 7                                   | 3                                   |

So that needs this:

```
SELECT title,
 description,
 rating,
 COUNT(film_id) 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 title, description, rating
ORDER BY rating = 'PG', rating;
```

5. Save your answers in the Excel file you created in step 2 and upload it here for your tutor to review.

#### Rubric

Refer to the categories below to see how to meet the requirements of the approved stage