




# FILTERING DATA IN SQL



|                   |                              |                                 |  |
|-------------------|------------------------------|---------------------------------|--|
| Data<br>Immersion | Achievement III              |                                 |  |
|                   | SQL for Data Analysts        |                                 |  |
|                   | Task 3.5<br>By Ola Gaffarova | Table of content<br>Page 2 of 5 | Made for<br>Rockbuster Stealth   |

STEP 1.

Film title contains the word Uptown in any position

Query

Query History

1

2

3

4

SELECT title

FROM film

WHERE title LIKE '%Uptown%'

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 4

Page No:

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of 1

|   | <div>title</div> <div>character varying (255)</div> <div></div> |
|---|---|
| 1 | Chainsaw Uptown   |
| 2 | Dangerous Uptown  |
| 3 | Uprising Uptown   |
| 4 | Uptown Young  |

Film length is more than 120 minutes and rental rate is more than 2.99

Query

Query History

1

2

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4

SELECT title, length, rental\_rate

FROM film

WHERE length >120 AND rental\_rate >2.99

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 157

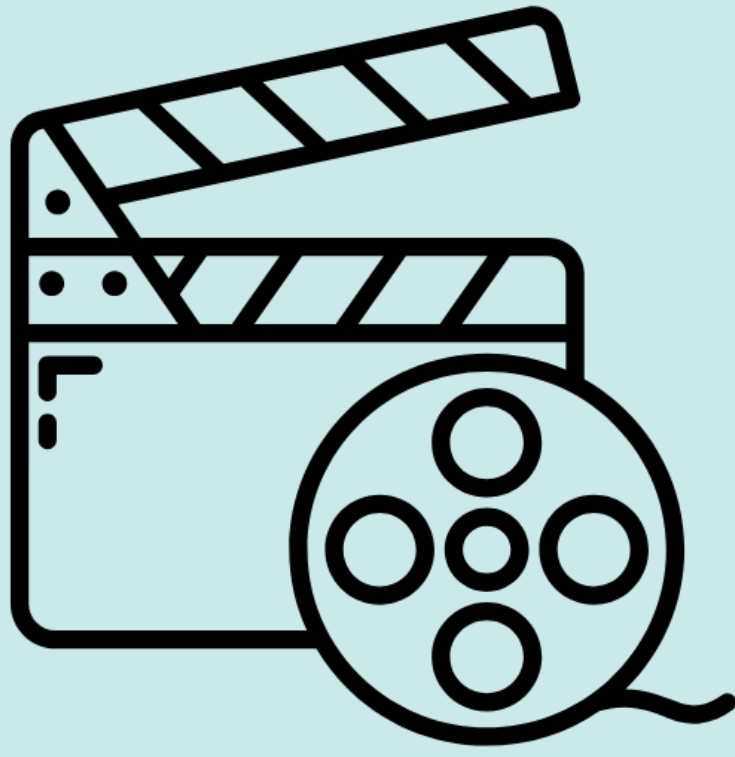
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of 1

|    | <div>title</div> <div>character varying (255)</div> <div></div> | <div>length</div> <div>smallint</div> <div></div> | <div>rental_rate</div> <div>numeric (4,2)</div> <div></div> |
|----|---|---|---|
| 1  | Ali Forever   | 150   | 4.99  |
| 2  | American Circus   | 129   | 4.99  |
| 3  | Dying Maker   | 168   | 4.99  |
| 4  | Baby Hall   | 153   | 4.99  |
| 5  | Casualties Encino   | 179   | 4.99  |
| 6  | Beauty Grease   | 175   | 4.99  |
| 7  | Betrayed Rear   | 122   | 4.99  |
| 8  | Bikini Borrowers  | 142   | 4.99  |
| 9  | Birch Antitrust   | 162   | 4.99  |
| 10 | Bird Independence   | 163   | 4.99  |
| 11 | Boogie Amelie   | 121   | 4.99  |
| 12 | Born Spinal   | 179   | 4.99  |
| 13 | Brannigan Sunrise   | 121   | 4.99  |
| 14 | Breakfast Goldfinger  | 123   | 4.99  |
| 15 | Brooklyn Desert   | 161   | 4.99  |





STEP 1.

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

Query

Query History

1

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6

SELECT title,

rental\_duration

FROM film

WHERE rental\_duration BETWEEN 4 AND 6

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 606

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|   | title<br>character varying (255) | rental_duration<br>smallint |
|---|----------------------------------|-----------------------------|
| 1 | Grosse Wonderful                 | 5                           |
| 2 | Airport Pollock                  | 6                           |
| 3 | Bright Encounters                | 4                           |
| 4 | Academy Dinosaur                 | 6                           |

Film replacement cost is less than 14.99

Query

Query History

1

2

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4

5

SELECT title,

replacement\_cost

FROM film

WHERE replacement\_cost < 14.99

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 249

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|   | title<br>character varying (255) | replacement_cost<br>numeric (5,2) |
|---|----------------------------------|-----------------------------------|
| 1 | Bright Encounters                | 12.99                             |
| 2 | Ace Goldfinger                   | 12.99                             |
| 3 | Alien Center                     | 10.99                             |
| 4 | Amistad Midsummer                | 10.99                             |
| 5 | Anaconda Confessions             | 9.99                              |
| 6 | Anonymous Human                  | 12.99                             |
| 7 | Antitrust Tomatoes               | 11.99                             |
| 8 | Apocalypse Flamingos             | 11.99                             |



STEP 1.

Film rating is either PG or G

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3

SELECT rating

FROM film

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

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 372

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|   | rating<br>mpaa_rating |
|---|-----------------------|
| 1 | PG                    |
| 2 | G                     |
| 3 | G                     |
| 4 | G                     |
| 5 | PG                    |



“minimum rental duration”

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

Data Output

Messages

Notifications

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SQL

Showing rows: 1 to 2

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|   | rating<br>mpaa_rating 🔒 | count_of_movies<br>bigint 🔒 | average_movie_rental_rate<br>numeric 🔒 | min_rental_duration<br>smallint 🔒 | max_rental_duration<br>smallint 🔒 |
|---|-------------------------|-----------------------------|--|-----------------------------------|-----------------------------------|
| 1 | G                       | 178                         | 2.8888764044943820                     | 3                                 | 7                                 |
| 2 | PG                      | 194                         | 3.0518556701030928                     | 3                                 | 7                                 |