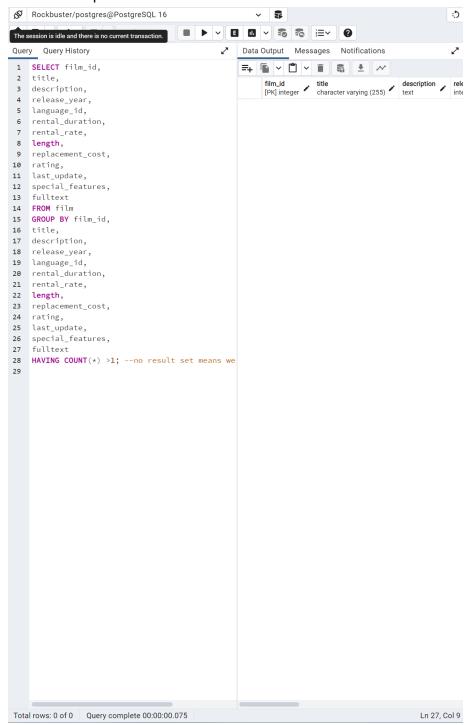
# Alexander Coley 11-19-23 Exercise 3.6

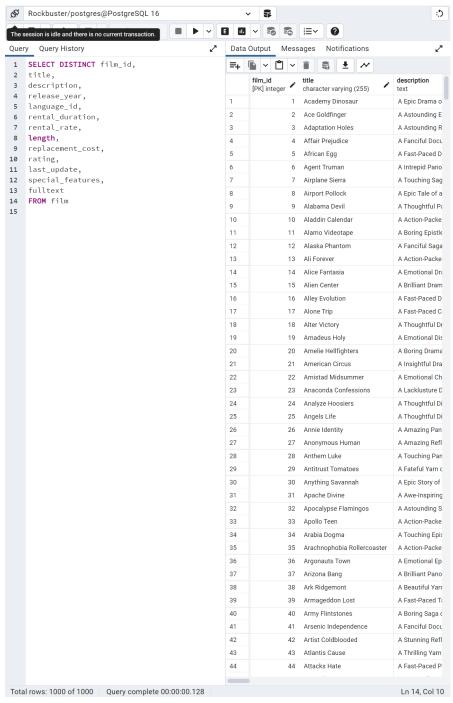
### Question 1:

# Film table-Duplicate Data



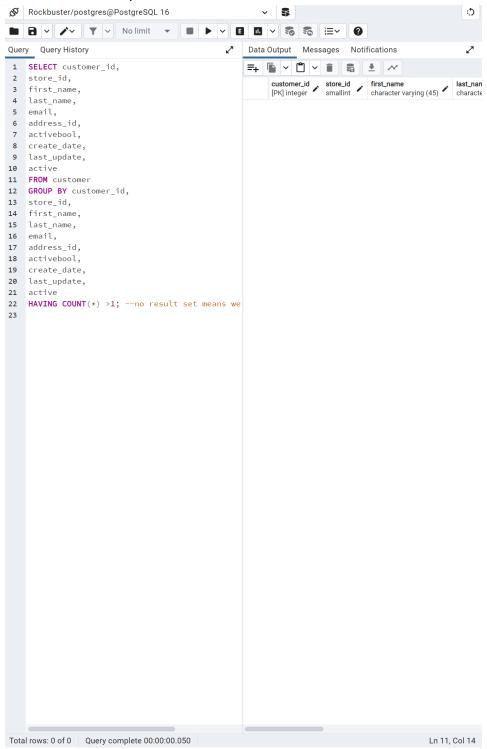
I didn't find any duplicates in this data set. Although, if there were any duplicates, I would delete the duplicate columns to keep the data set consistent. Deleting these duplicates would also help with visualizations later on.

#### Non-uniform data



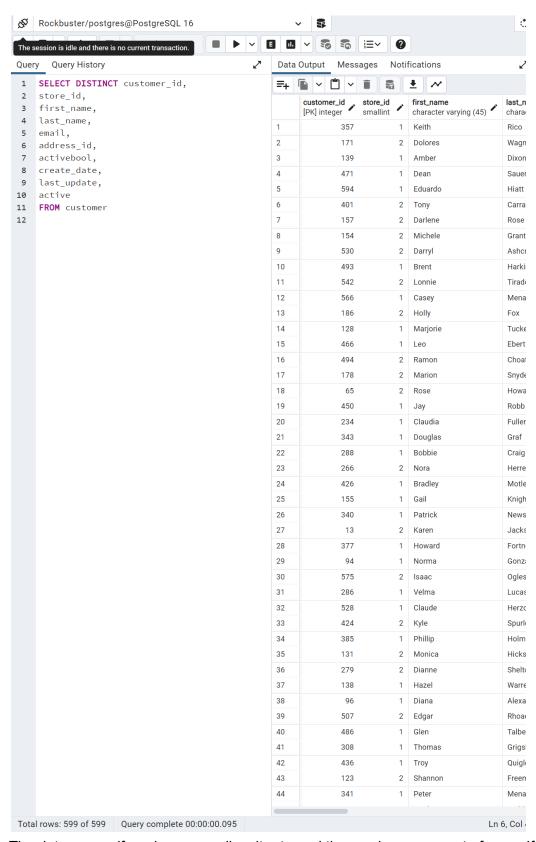
There isn't any non-uniform data. The data sent back 1000 out of 1000 rows so everything is consistent.

## Customer Table-Duplicate Data



There weren't any duplicates for the customer table. If there were any duplicates I would do the same as before and delete the duplicates as to not hurt my progress in making the visualizations.

Non-Uniform Data



The data was uniform here as well as it returned the maximum amount of rows. If there were any missing values, if I didn't have access to what was missing, I would make the values zero.

#### Question 2:

Numerical Values for Film Table

## Release year

SELECT MIN (release\_year) AS min\_release\_year ,

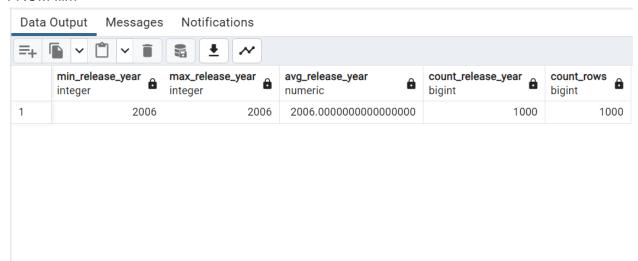
MAX (release\_year) AS max\_release\_year,

AVG (release\_year) AS avg\_release\_year,

COUNT (release\_year) AS count\_release\_year,

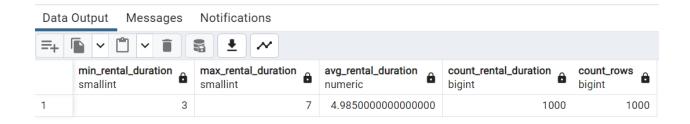
COUNT (\*) AS count\_rows

## FROM film

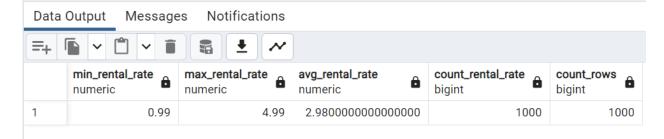


### **Rental Duration**

SELECT MIN (rental\_duration) AS min\_rental\_duration , MAX (rental\_duration) AS max\_rental\_duration, AVG (rental\_duration) AS avg\_rental\_duration, COUNT (rental\_duration) AS count\_rental\_duration, COUNT (\*) AS count\_rows FROM film



Rental Rate
SELECT MIN (rental\_rate) AS min\_rental\_rate ,
MAX (rental\_rate) AS max\_rental\_rate,
AVG (rental\_rate) AS avg\_rental\_rate,
COUNT (rental\_rate) AS count\_rental\_rate,
COUNT (\*) AS count\_rows
FROM film



Length
SELECT MIN (length) AS min\_length ,
MAX (length) AS max\_length,
AVG (length) AS avg\_length,

COUNT (length) AS count\_length, COUNT (\*) AS count\_rows FROM film

Data Output Messages Notifications					
	min_length smallint	max_length smallint	avg_length numeric	count_length bigint	count_rows bigint
1	46	185	115.27200000000000000	1000	1000

# Replacement Cost

SELECT MIN (replacement\_cost) AS min\_replacement\_cost,

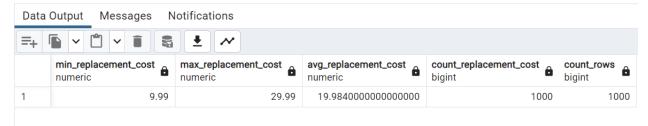
MAX (replacement\_cost) AS max\_replacement\_cost,

AVG (replacement\_cost) AS avg\_replacement\_cost,

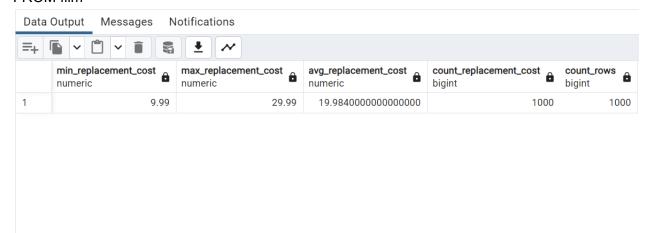
COUNT (replacement\_cost) AS count\_replacement\_cost,

COUNT (\*) AS count\_rows

FROM film



SELECT MODE() WITHIN GROUP (ORDER BY film\_id) AS modal\_film\_id, MODE() WITHIN GROUP (ORDER BY title) AS modal\_title, MODE() WITHIN GROUP (ORDER BY description) AS modal\_description, MODE() WITHIN GROUP (ORDER BY language\_id) AS modal\_language\_id, MODE() WITHIN GROUP (ORDER BY rating) AS modal\_rating, MODE() WITHIN GROUP (ORDER BY last\_update) AS modal\_last\_update, MODE() WITHIN GROUP (ORDER BY special\_features) AS modal\_special\_features, MODE() WITHIN GROUP (ORDER BY fulltext) AS modal\_fulltext FROM film



Customer Table \*only contains non numerical values

SELECT MODE() WITHIN GROUP (ORDER BY customer id) AS modal customer id,

MODE() WITHIN GROUP (ORDER BY store id) AS modal store id,

MODE() WITHIN GROUP (ORDER BY first\_name) AS modal\_first\_name,

MODE() WITHIN GROUP (ORDER BY last\_name) AS modal\_last\_name,

MODE() WITHIN GROUP (ORDER BY email) AS modal\_email,

MODE() WITHIN GROUP (ORDER BY address id) AS modal address id,

MODE() WITHIN GROUP (ORDER BY activebool) AS modal\_activebool,

MODE() WITHIN GROUP (ORDER BY create date) AS modal create date,

MODE() WITHIN GROUP (ORDER BY last update) AS modal last update,

MODE() WITHIN GROUP (ORDER BY active) AS modal\_active

#### FROM customer



#### Question 3:

As much as I've learned from SQL so far I definitely prefer it over excel. Excel is still very useful but I feel as though the functions in SQL are easier to use and understand. It's also more visually appealing to me personally. I hope to learn more about SQL functions in the future as I grow as an analyst.