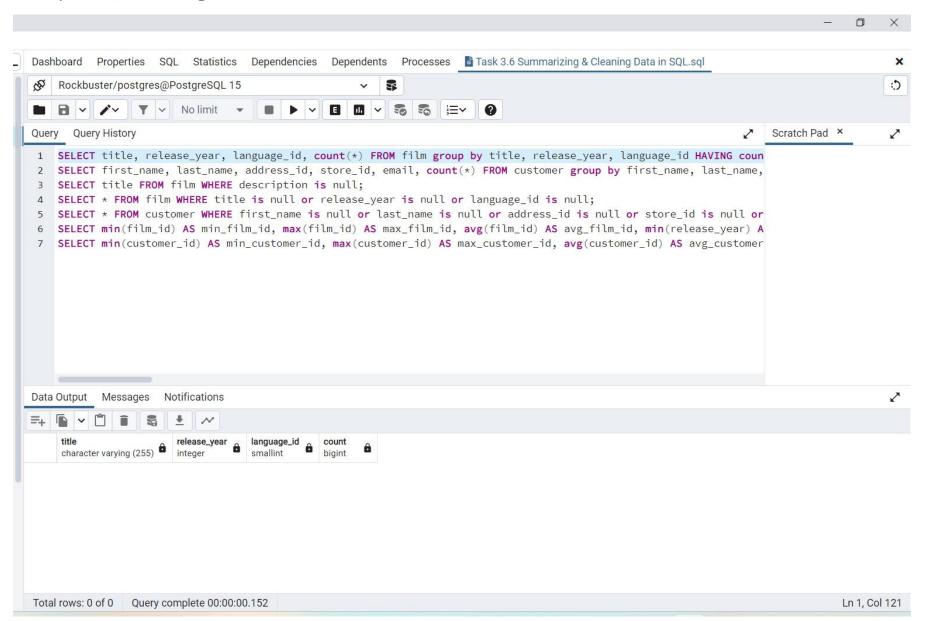
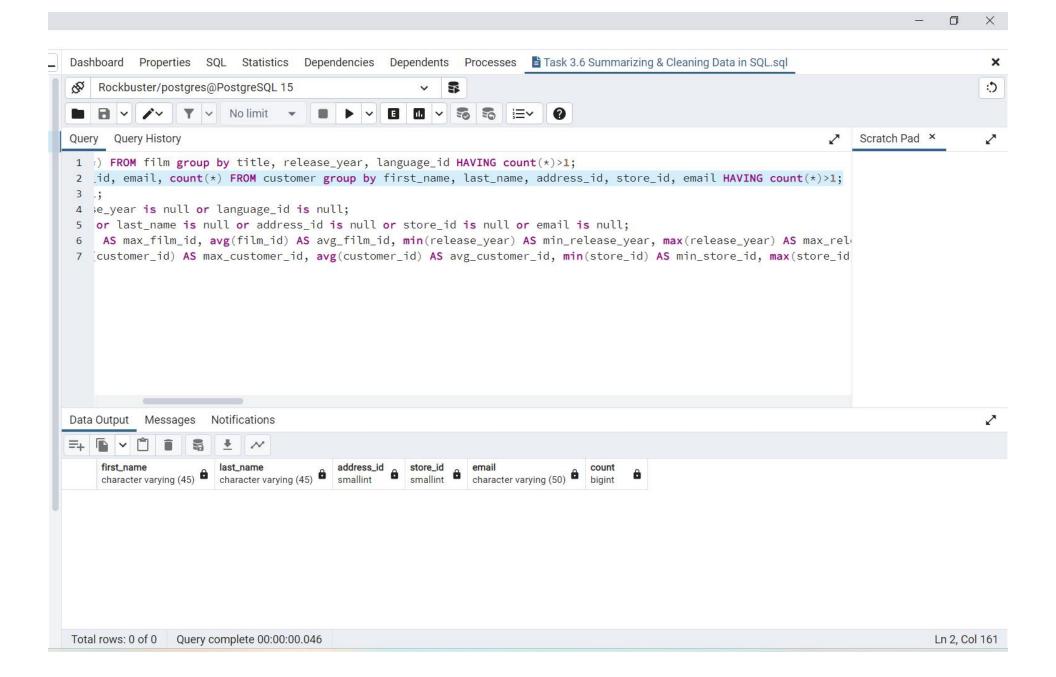
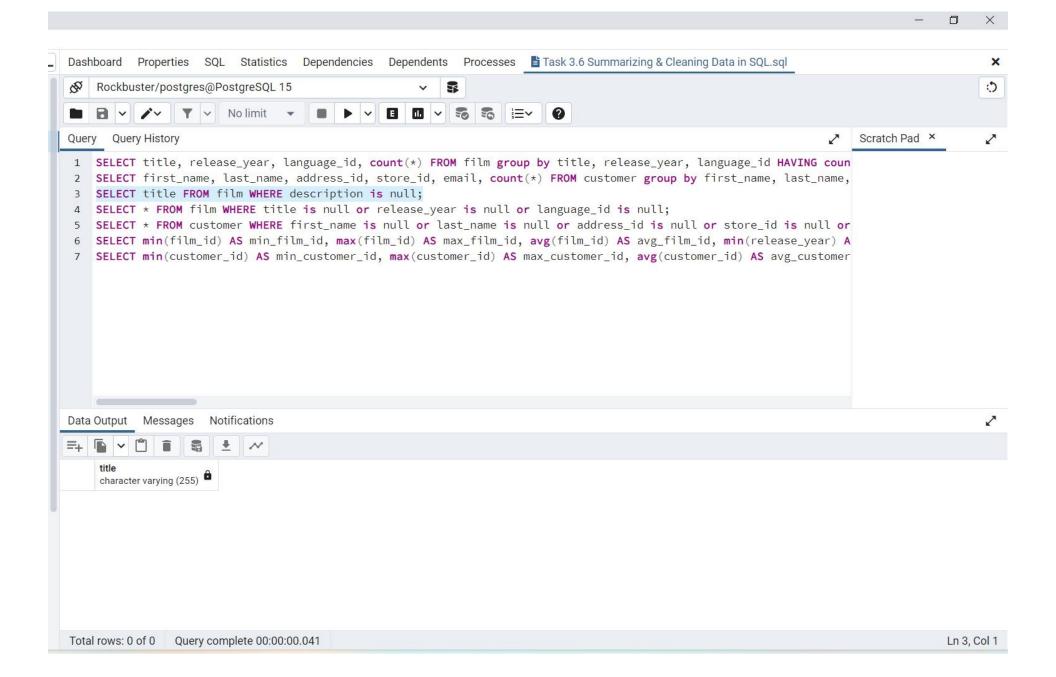
## Summarizing & Cleaning Data in SQL

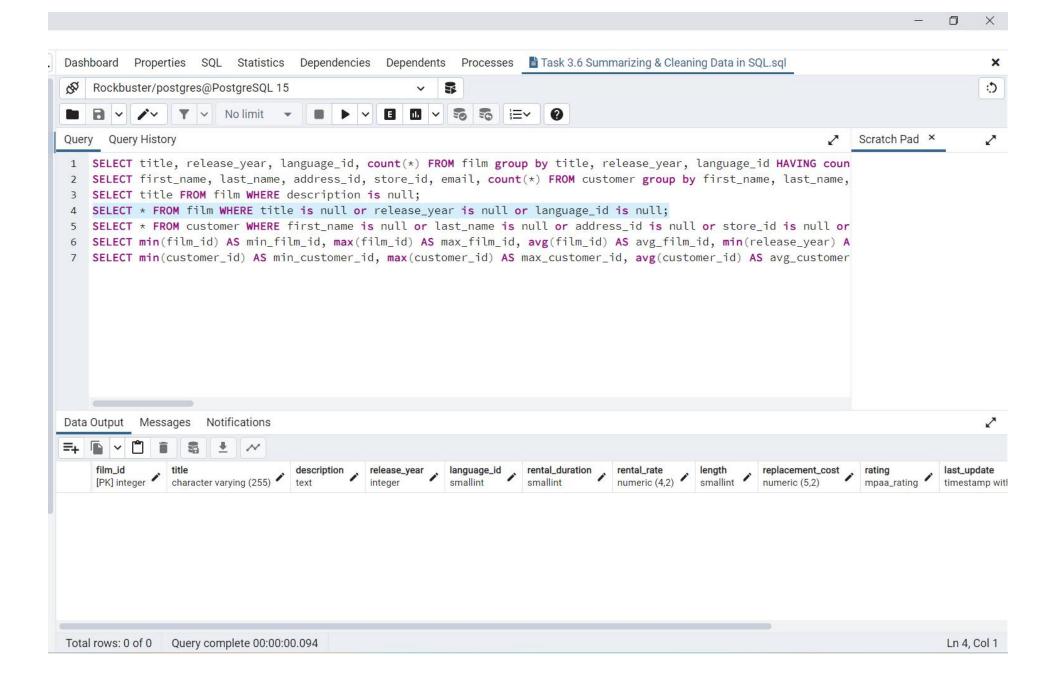
## Step 1

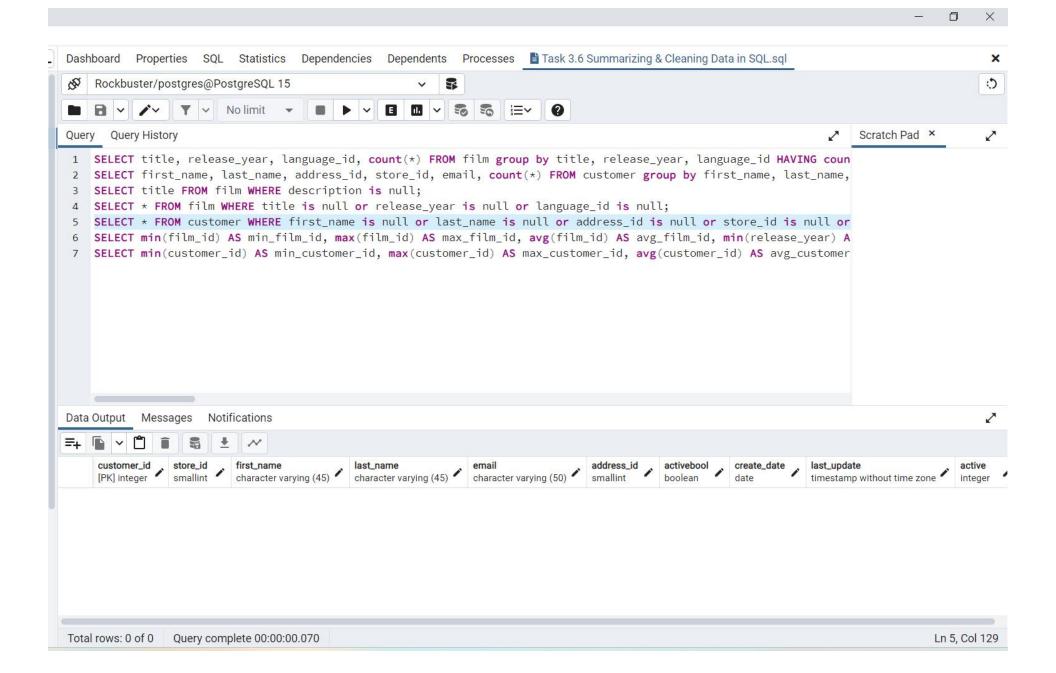
No duplicates, no missing data as well as non-uniform











## Step 2

Descriptive statistics for film table. For numerical columns, the finding of minimum, maximum, and average values

SELECT min(film\_id) AS min\_film\_id, max(film\_id) AS max\_film\_id, avg(film\_id) AS avg\_film\_id, min(release\_year) AS min\_release\_year, max(release\_year) AS max\_release\_year, avg(release\_year) AS avg\_release\_year, MODE() WITHIN GROUP (ORDER BY language\_id) as mode\_language\_id,min(rental\_duration) AS min\_rental\_duration, max(rental\_duration) AS max\_rental\_duration, avg(rental\_duration) AS avg\_rental\_duration,min(rental\_rate) AS min\_rental\_rate, max(rental\_rate) AS max\_rental\_rate, avg(rental\_rate) AS avg\_rental\_rate,min(length) AS min\_length, max(length) AS max\_length, avg(length) AS avg\_length,min(replacement\_cost) AS min\_replacement\_cost, max(replacement\_cost) AS max\_replacement\_cost, avg(replacement\_cost) AS avg\_replacement\_cost, MODE() WITHIN GROUP (ORDER BY rating) as mode\_rating FROM film;

Descriptive statistics for Customer table. For numerical columns, the finding of minimum, maximum, and average values

SELECT min(customer\_id) AS min\_customer\_id, max(customer\_id) AS max\_customer\_id, avg(customer\_id) AS avg\_customer\_id, min(store\_id) AS min\_store\_id, max(store\_id) AS max\_store\_id, avg(store\_id) AS avg\_store\_id, min(address\_id) AS min\_address\_id, max(address\_id) AS max\_address\_id, avg(address\_id) AS avg\_address\_id, MODE() within group (order by activebool) AS mode\_activebool FROM customer;

Film	
min_film_id	1
max_film_id	1001
avg_film_id	501
min_release_year	2006
max_release_year	2019
avg_release_year	2006.012987
mode_language_id	1
min_rental_duration	3
max_rental_duration	7
avg_rental_duration	4.983016983
min_rental_rate	0.99
max_rental_rate	4.99
avg_rental_rate	2.982007992
min_length	46
max_length	185
avg_length	115.272
min_replacement_cost	9.99
max_replacement_cost	29.99
avg_replacement_cost	19.98400599
mode_rating	PG-13

Customer	
min_customer_id	1
max_customer_id	599
avg_customer_id	300
min_store_id	1
max_store_id	2
avg_store_id	1.455759599
min_address_id	5
max_address_id	605
avg_address_id	304.7245409
mode_activebool	TRUE

## Step 3

The only way to make SQL at this point is better that excel is practice, no doubt with mastering commands or syntax SQL will be faster and more accurate specially when it comes to huge database