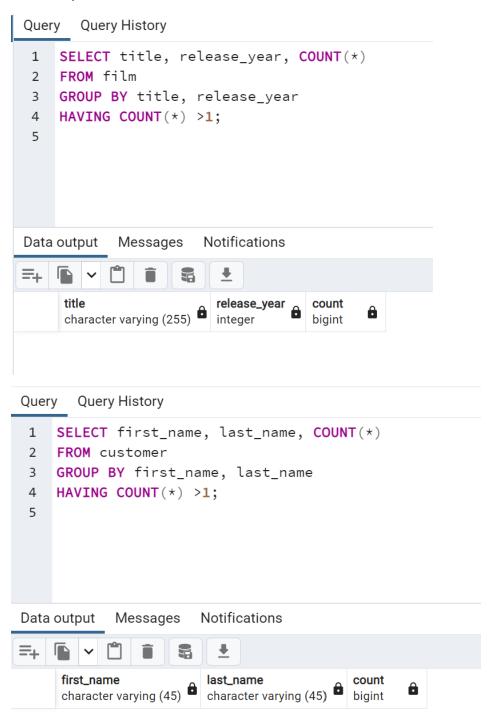
Find out if the film table and the customer table contain any dirty data, specifically non-uniform or duplicate data, or missing values

To find duplicates:



No duplicates were found in either table, but if there were, I could either delete the duplicates or create a view with unique records.

## To find missing values:



No missing values were found in either table. If there were a few missing values, I could fill them in with an average, and if there are a lot of missing values, I could ignore the column.

Use SQL to calculate descriptive statistics for both the film table and the customer table.

## Film table:

```
SELECT MIN(rental_rate) AS min_rental_rate,

MAX(rental_rate) AS max_rental_rate,

AVG(rental_rate) AS avg_rental_rate,

MIN(rental_duration) AS min_rental_duration,
```

MAX(rental\_duration) AS max\_rental\_duration,

AVG(rental\_duration) AS avg\_rental\_duration,

MIN(film\_id) AS min\_film\_id,

MAX(film\_id) AS max\_film\_id,

AVG(film\_id) AS avg\_film\_id,

MIN(language\_id) AS min\_language\_id,

MAX(language\_id) AS max\_language\_id,

AVG(language\_id) AS avg\_language\_id,

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 rating\_value,

mode() WITHIN GROUP (ORDER BY special\_features) AS feature\_value,

mode() WITHIN GROUP (ORDER BY release\_year) AS year\_value

FROM film

"min_rental_rate	"max_rental_rate	"avg_rental_rate	"min_rental_dura	"max_rental_dur
п	П	II	tion"	ation"
0.99	4.99	2.980000000000	3	7
		0000		

"avg_rental_dura	"min_film_id"	"max_film_id"	"avg_film_id"	"min_language_i
tion"				a"
4.985000000000	1	1000	500.5000000000	1
0000			000000	

"max_language_i d"	"avg_language_id "	"min_length"	"max_length"	"avg_length"
1	1.00000000000 0000000	46	185	115.2720000000 000000

"min_replace	"max_replace	"avg_replace	"rating_value"	"feature_valu	"year_value"
ment_cost"	ment_cost"	ment_cost"		e"	
9.99	29.99	19.984000000	"PG-13"	"{Trailers,Com	2006
		0000000		mentaries,""B	
				ehind the	
				Scenes""}"	

## **Customer Table:**

SELECT MIN(active) AS min\_active,

MAX(active) AS max\_active,

AVG(active) AS avg\_active,

MIN(address\_id) AS min\_address\_id,

MAX(address\_id) AS max\_address\_id,

AVG(address\_id) AS avg\_address\_id,

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,

mode() WITHIN GROUP (ORDER BY first\_name) AS first\_name\_value,

mode() WITHIN GROUP (ORDER BY last\_name) AS last\_name\_value,

mode() WITHIN GROUP (ORDER BY email) AS email\_value

FROM customer;

"min_active"	"max_active"	"avg_active"	"min_address_id"	"max_address_id"
0	1	0.97495826377295492487	5	605

"avg_address_id"	"min_customer_i	"max_customer_i	"avg_customer_id"	"min_store_i
	d"	d"		d"
304.7245409015025	1	599	300.0000000000000	1
042			000	

"max_store_	"avg_store_id"	"first_name_val	"last_name_val	"email_value"
id"		ue"	ue"	
2	1.4557595993322	"Jamie"	"Abney"	"aaron.selby@sakilacustome
	204			r.org"