3.	6	Summa	rizing	&	Cleaning	Data	in	SQL

1. Check for dirty data:

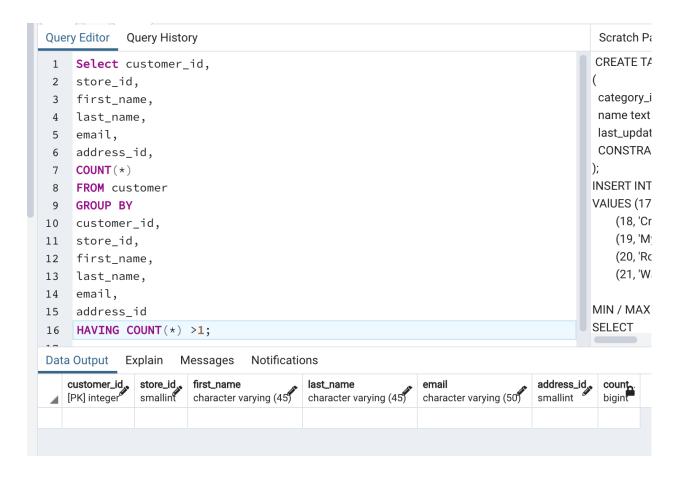
Film table:

```
title,
14
         description,
15
         release_year,
16
         language_id,
17
         rental_duration,
18
         rental_rate,
19
         length,
20
         replacement_cost,
21
         rating
22
    HAVING COUNT(*) > 1;
23
24
```

Query Editor Query History

```
Select film_id,
 1
        title,
 2
        description,
 3
 4
        release_year,
        language_id,
 5
 6
        rental_duration,
        Rental_rate,
7
8
        length,
        replacement_cost,
 9
        rating,
10
11
        count(*)
    FROM film
12
    GROUP BY film_id,
13
```

Customer table:



To clean the tables, I would create a new table in the view format and delete any duplicate records found using the having count above.

2. Summarize your data:

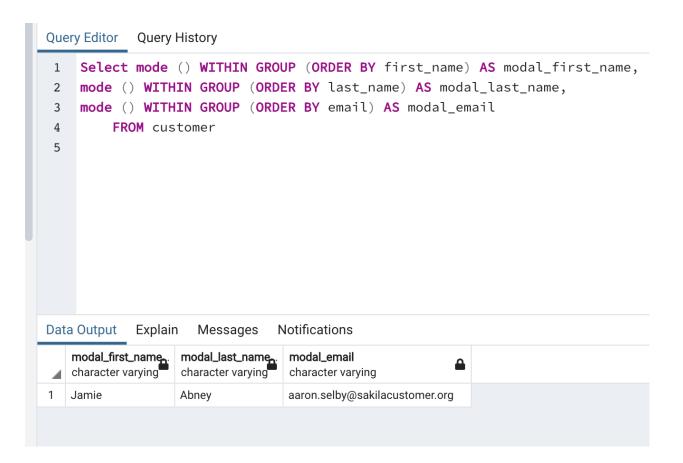
```
Query Editor Query History
                                                                                           Scrate
                                                                                           CREAT
    Select
1
    MIN (customer_id) AS min_customer_id,
2
    MAX (customer_id) AS max_customer_id,
                                                                                           categ
3
                                                                                           name
4
    AVG (customer_id) AS avg_customer_id,
                                                                                           last_u
    MIN (store_id) AS min_store_id,
5
                                                                                           CONS
    MAX (store_id) AS max_store_id,
6
7
    AVG (store_id) AS avg_store_id
                                                                                          );
                                                                                          INSER1
8
    FROM customer
                                                                                          VAIUES
9
                                                                                              (1:
                                                                                              (11
                                                                                              (21
Data Output
                                  Notifications
             Explain
                    Messages
                                                  min_store_id_
                                                              max_store_id_
                                   avg_customer_id_
   min_customer_id_ max_customer_id_
                                                                           avg_store_id
                                                  smallint
                                                               smallint
  integer
                   integer
                                   numeric
                                                                           numeric
1
                1
                              599
                                              300
                                                            1
                                                                             1.4557595993322203
```

Quer	y Editor Query History	Scratch
1	Select	CREATE
2	MIN (rental_duration) AS min_rental_duration,	(
3	MAX (rental_duration) AS max_rental_duration,	categoi
4	AVG (rental_duration) AS avg_rental_duration,	name to
5	MIN (length) AS min_length,	last_up
6	MAX (length) AS max_length,	CONST
7	AVG (length) AS avg_length,);
8	MIN (replacement_cost) AS min_replacement_cost,	INSERT I
9	MAX (replacement_cost) AS max_replacement_cost,	VAIUES (
10	AVG (replacement_cost) AS avg_replacement_cost	(18,
11	FROM film	(19,
12		(20,

_	min_rental_duration_smallint	max_rental_durationsmallint	avg_rental_duration_numeric	min_length smallint	max_lengthsmallint	avg_length numeric	min_replac numeric
1	3	7	4.985	46	185	115.272	

Data Output Explain Messages Notifications





3. Reflect on your work: Back in Achievement 1 you learned about data profiling in Excel. Based on your previous experience, which tool (Excel or SQL) do you think is more effective for data profiling, and why? Consider their respective functions, ease of use, and speed. Write a short paragraph in the running document that you have started.

Larger databases are best suited for SQL and smaller data sets are best suited for excel. I think the speed depends on which program you are more comfortable with and how large your data set is. SQL takes me a little longer due to my lack of experience with it, although I can see how fast it could be once you do have to background in it.