

Query Editor	Query History
1	SELECT title,
2	release_year,
3	language_id,
4	rental_duration,
5	length,
6	replacement_cost,
7	rating,
8	last_update,
9	COUNT(*)
10	FROM film
11	GROUP BY title,
12	release_year,
13	language_id,
14	rental_duration,
15	length,
16	replacement_cost,
17	rating,
18	last_update
19	HAVING COUNT(*) >1

Query Editor	Query History
1	SELECT customer_id,
2	store_id,
3	first_name,
4	last_name,
5	email,
6	address_id,
7	activebool,
8	create_date,
9	last_update,
10	active,
11	COUNT(*)
12	FROM customer
13	GROUP BY
14	customer_id,
15	store_id,
16	first_name,
17	last_name,
18	email,
19	address_id,
20	activebool,
21	create_date,
22	last_update,
23	active
24	HAVING COUNT(*) >1

No duplicates found in either table. If any data was found to be a duplicate, I would first verify that the data was indeed a duplicate, then make the necessary changes to it in order to either make it correct or flag it for deletion.

2) Film Table

Numerical

Rockbuster/postgres@PostgreSQL 13

Query EditorQuery History

```
1 SELECT MIN(rental_rate) AS min_rent,
2        MAX(rental_rate) AS max_rent,
3        AVG(rental_rate) AS avg_rent,
4        COUNT(rental_rate) AS count_rent_values,
5        MIN(length) AS min_length,
6        MAX(length) AS max_length,
7        AVG(length) AS avg_length,
8        COUNT(length) AS count_length,
9        MIN(replacement_cost) AS min_replacement_cost,
10       MAX(replacement_cost) AS max_replacement_cost,
11       AVG(replacement_cost) AS avg_replacement_cost,
12       MIN(rental_duration) AS min_rental_duration,
13       MAX(rental_duration) AS max_rental_duration,
14       AVG(rental_duration) AS avg_rental_duration,
15       COUNT(*) AS count_rows
16 FROM film
```

Data OutputExplainMessagesNotifications

	min_rent numeric	max_rent numeric	avg_rent numeric	count_rent_values bigint	min_length smallint	max_length smallint	avg_length numeric	count_length bigint	min_replacement_cost numeric	max_replacement_cost numeric	avg_replacement_cost numeric	min_rental_duration smallint	max_rental_duration smallint	avg_rental_duration numeric	count_rows bigint
1	0.99	4.99	2.9820079920079920	1001	46	185	115.272000000000000000	1000	9.99	29.99	19.9840059940059940	3	7	4.9830169830169830	1001

Non-Numerical

Query Editor

Query History

```

1 SELECT MODE() WITHIN GROUP (ORDER BY release_year) AS "mode_release_year",
2         MODE() WITHIN GROUP (ORDER BY language_id) AS "mode_language_id",
3         MODE() WITHIN GROUP (ORDER BY rating) AS "mode_rating"
4 FROM film

```

Data Output

Explain

Messages

Notifications

	mode_release_year integer	mode_language_id smallint	mode_rating mpaa_rating
1	2006	1	PG-13

Customer Table

Non-Numerical

Query Editor

Query History

1

2

3

4

5

6

SELECT

MODE()

WITHIN GROUP

(ORDER BY

store_id)

AS

"mode_store_id",

MODE()

WITHIN GROUP

(ORDER BY

first_name)

AS

"mode_first_name",

MODE()

WITHIN GROUP

(ORDER BY

last_name)

AS

"mode_last_name",

MODE()

WITHIN GROUP

(ORDER BY

activebool)

AS

"mode_activebool",

MODE()

WITHIN GROUP

(ORDER BY

create_date)

AS

"mode_create_date"

FROM

customer

Data Output

Explain

Messages

Notifications

mode_store_id

mode_first_name

mode_last_name

mode_activebool

mode_create_date

smallint

character varying

character varying

boolean

date

1

1

Jamie

Abney

true

2006-02-14

Numerical data not necessary in customer table.

3) I'm still partial to Excel because of a) familiarity and b) I find it easier to use filter and find the results I want or to edit and manipulate the data I need vs trying to write code to do all of that. However, I know that eventually we're going to be seeing more and more tables and the next section deals with combining and joining tables, so it can eventually grow to be too large for excel to handle. That being said, so far I'm still preferring Excel.