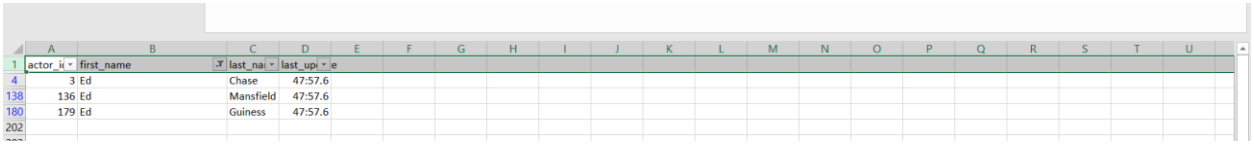
3.1: Intro to Relational Databases

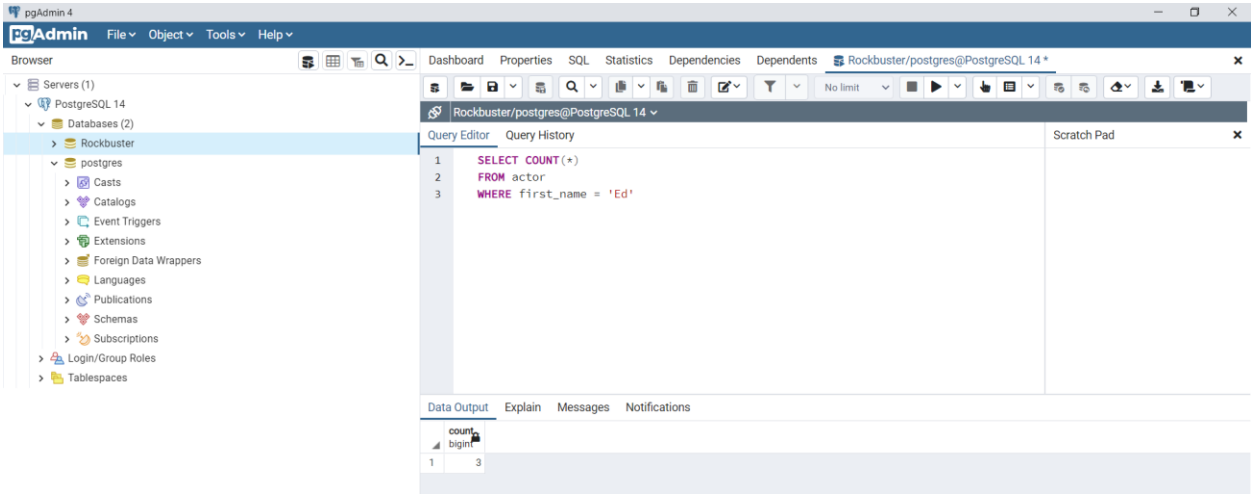
Step 2

a) There are 3 actors with the name Ed.



actor_id	first_name	last_name	last_update
3	Ed	Chase	47:57.6
136	Ed	Mansfield	47:57.6
179	Ed	Guiness	47:57.6

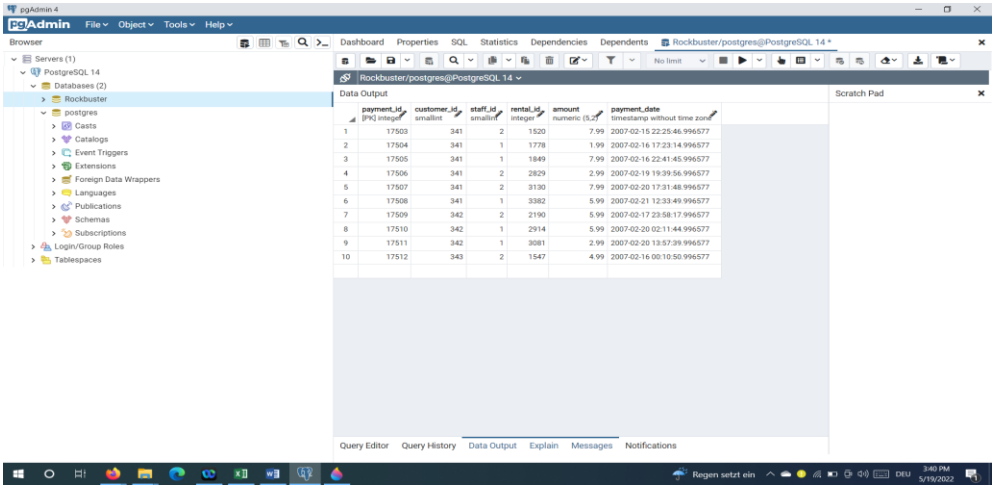
b) SQL gave the same result



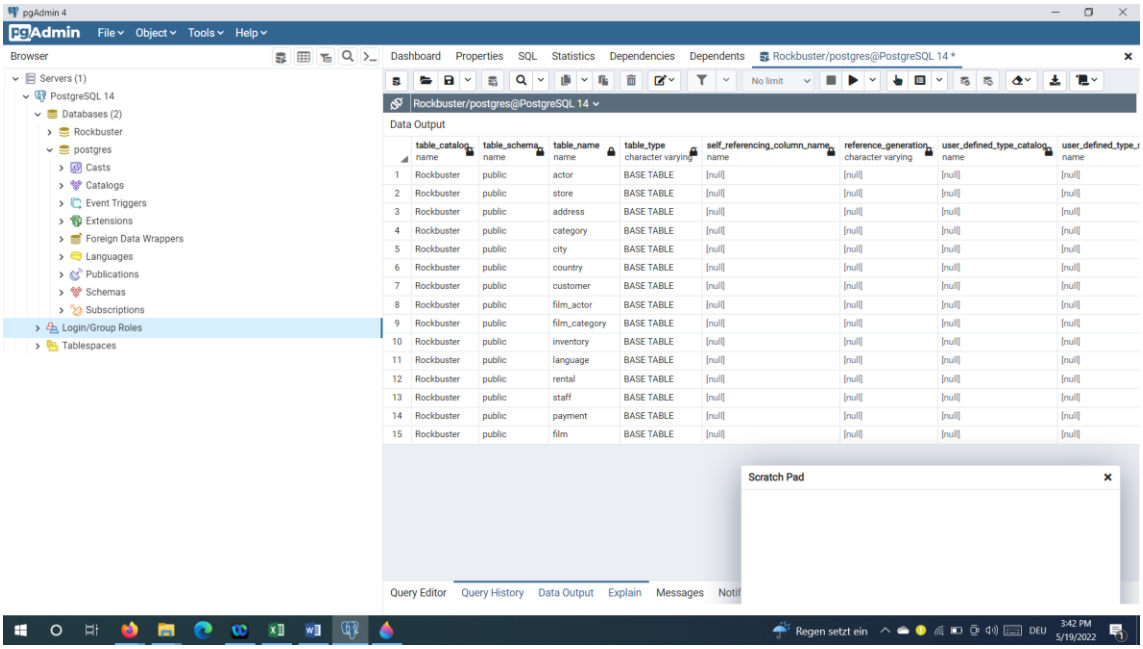
For me it was easier to use the Excel Tool Filtrate.

Step 3

Run the following query:
SELECT * FROM payment LIMIT 10



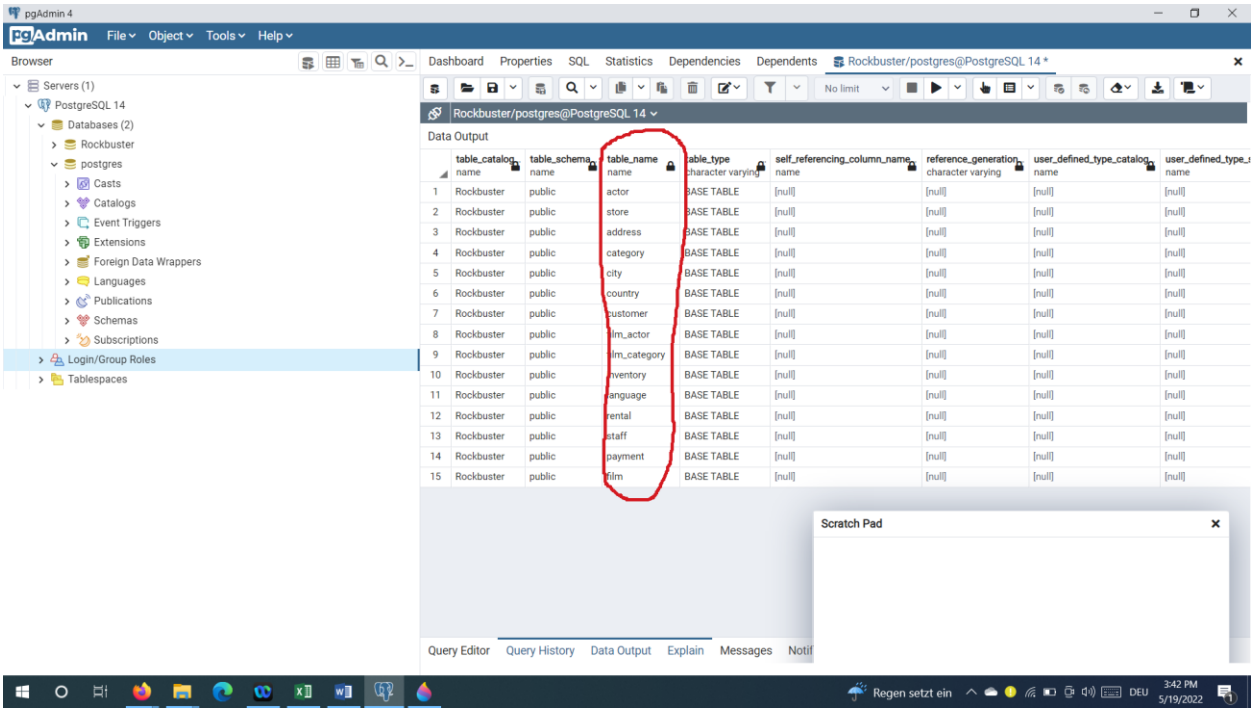
```
SELECT * FROM information_schema.tables
WHERE table_schema = 'public'
AND table_type = 'BASE TABLE'
```



Step 3

- Run the following query and list the name in the table_column column

```
SELECT * FROM information_schema.tables
WHERE table_schema = 'public'
AND table_type = 'BASE TABLE'
```



- Within the pgAdmin 4 console, can you think of another way to list all the table names in the database instead of the SQL statement above?

Database > Rockbuster >Schemas > Tables

Step 3

- Run the following query, how many days are most films rented for?

```
SELECT rental_duration AS "rented for (in days)", COUNT(*) AS "number of films"
FROM film
GROUP BY 1
ORDER BY 2
```

Data Output

	rented for (in days) smallint	number of films bigint
1	7	191
2	5	191
3	4	203
4	3	203
5	6	212

Most of the films are rented for 6 days.

Step 4

OLAP - Numbers of movies rented in last days, weeks, months – Marketing department

OLTP - Keeping data about transaction and payment, Transaction processing of renting a movie

Step 5

Rockbuster Stealth has received an invoice for the licenses for its new video collection.

- ***Does the invoice contain structured or unstructured data? Write an explanation for your answer.***

Structured data as it can be arranged in a table.

- ***Organize and store the information on the invoice in a database. Step one will be to create a table in the text document you've started (you can insert a table if you're using MS Word or Google Docs, for example). Make sure your table contains columns with the appropriate labels, as well as the values from the invoice in each column. You're focusing, here, on a high-level structuring of your data.***

Name	Invoice Number	Item	Quantity	Price
Timothy Walker	2019001	001	01	730 $

Suppliers Name	Account Name	Account Nr.	City	State
Oaklanders	Miko Santo	4929331999575422	Anderson	Texas