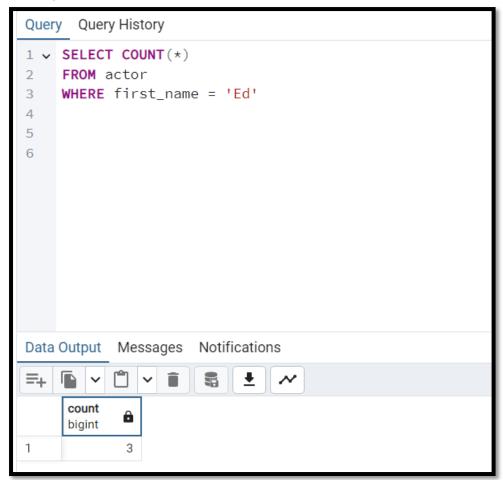
3.1: Intro to Relational Databases

Innocent Bayai

Step 2.

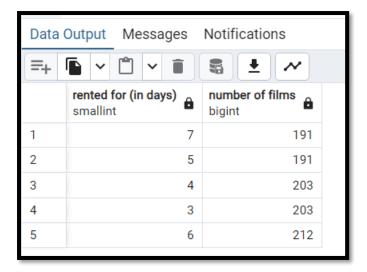
- a. The excel count for actors whose first name is Ed is 3 (Ed Chase, Ed Mansfield, and Ed Guiness). I filtered the actor first name column and obtained these results.
- b. By using SQL, the results are as follows:



c. The answer matches the one from excel. Using the SQL statement is faster and easier than using excel filter option. With SQL, I don't need to interact with the data but I command through codes what I want to get and the output is availed instantly.

Step 3.

- a. The column names are payment_id, customer_id, staff_id, rental_id, amount, and payment_date.
- b. The tables names under the Rockbuster Database are: actor, store, address, category, city, country, customer, film actor, film category, inventory, language, rental, staff, payment, and film.
- c. Another way of getting the table names is to click Databases, click Rockbusters, go to schemas, and under public choose tables. All the 15 tables names are listed there.
- d. Most films are rented for 6 days as seen in the screen capture hereunder.



Step 4.

OLAP can be used in the sales department for the following roles:

- i. Understanding the major film markets across the globe.
- ii. The film category with the best/lowest sales.
- iii. The cities with the highest demand.

OLTP can be used in the following cases:

- i. Enter client information as sales are effected.
- ii. Record all orders, payment details and delivery details.

Step 5.

a. The invoice contains structured data because data is organized in a specific format with clearly defined fields such as client name, contact information, item description, quantity, and price amongst other standardized data categories.

In	nvoice	Film_maker	Film_maker address	Item	Quantity	Description	Price	Client_first_name	Client_surname
20	01900	Oaklanders	4826 Norma	001	1	New video	\$730	Timothy	Walker
1		Sound Studio	Avenue,			collection			
			Anderson, TX			licensing			

Continuation of rows and columns

Client_address	Account_Name	Account number
40 Sheila LA	Miko Santo	4929 3310 0057
Sparks, NV		5422