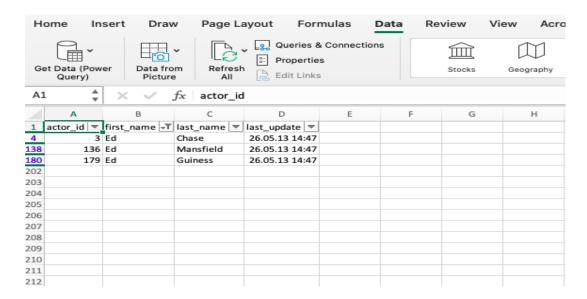
Intro to Relational Databases

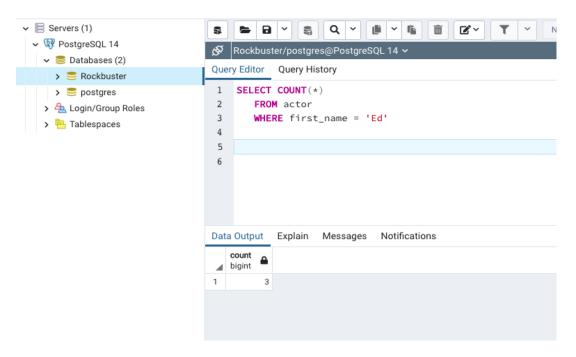
Step 2

2b. Drawing on what you've learned in previous Achievements, use the appropriate functions in Excel to count all the actors whose first name is "Ed." Write down the result in a text document.

The number of actors whose first name is "Ed." is 3.



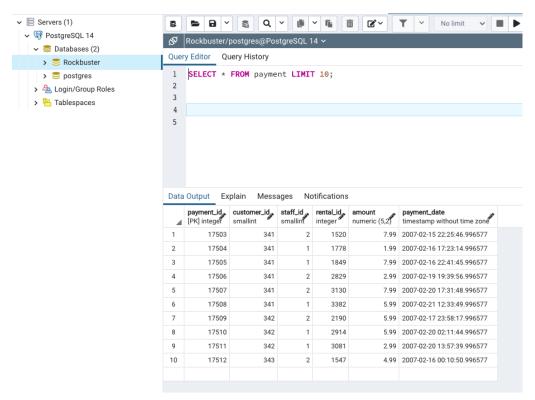
2d. Was it easier to use Excel or the SQL statement and database to count the number of "Eds"?



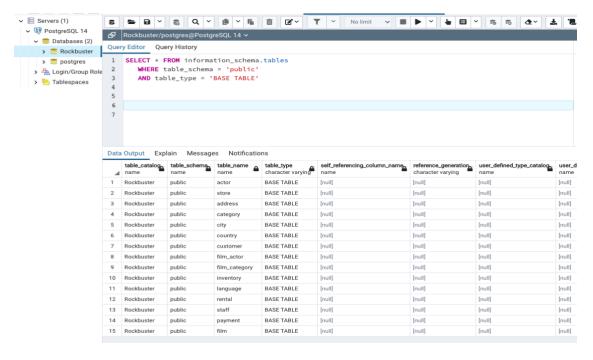
The output for the pgAdmin query is 3. Essential, it was easier to use SQL because after writing the query only the result was returned. Even with the data being visible, with SQL a valid result is expected.

Step 3

3a. Execute the following query and list the names of the columns in the payment table.



3b. Under the "table_name" column, what are the names of the tables that are available in the Rockbuster database? (List all names.)



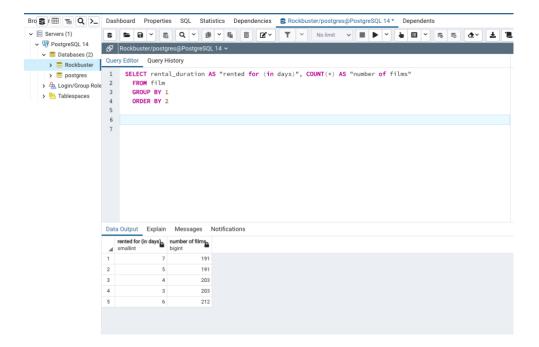
3c. Within the pgAdmin 4 console, can you think of another way to list all the table names in the database instead of the SQL statement above?

We can check it from the Rockbuster database. (Rockbuster --- Schemas --- public --- Tables)



3d. Analyze the rental duration distribution. How many days are most films rented for?

The highest number of films are rented for 6 days.



Step 4

Think about who in Rockbuster Stealth might want to use an OLAP or OLTP system for their data needs; for example, the sales department, which is interested in sales trends, would likely use an OLAP system. Describe at least 2 situations for each type of system.

OLAP

- The most rented movie
- The bottom 5 countries with rental

OLTP

- Analysing the number of movie currently in rentage / available
- Calculating daily revenue from rentage

Step 5

5a. Does the invoice contain structured or unstructured data? Write an explanation for your answer.

The invoice contains structures data. There are information that can easily be derived from the invoice and created into table (dataset)

5b. 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

