Task 3.1

Step 2:

Excel: =COUNTIF(A1:D201,"ed") : **3**

PostgreSQL: SELECT COUNT(*)

  FROM actor

  WHERE first_name = 'Ed' : **3**

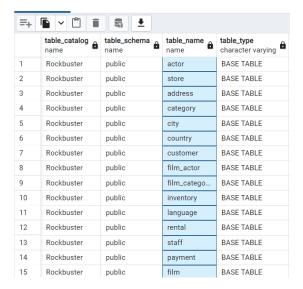Was it easier to use Excel or the SQL statement and database to count the number of "Eds"?

A/ To me it was the same right now because I have more practice with excel, so typing formulas that I already know is easier, but with SQL I can see that is more efficient and effective to do more complicated task than Excel

Step 3:

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

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
3	17505	341	1	1849	7.99	2007-02-16 22:41:45.996577
4	17506	341	2	2829	2.99	2007-02-19 19:39:56.996577
5	17507	341	2	3130	7.99	2007-02-20 17:31:48.996577
6	17508	341	1	3382	5.99	2007-02-21 12:33:49.996577
7	17509	342	2	2190	5.99	2007-02-17 23:58:17.996577
8	17510	342	1	2914	5.99	2007-02-20 02:11:44.996577
9	17511	342	1	3081	2.99	2007-02-20 13:57:39.996577
10	17512	343	2	1547	4.99	2007-02-16 00:10:50.996577

Data output   Messages   Notifications

Total rows: 10 of 10   Query complete 00:00:00.202

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

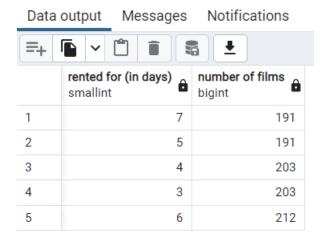|	table_catalog name	table_schema name	table_name name	table_type character varying
1	Rockbuster	public	actor	BASE TABLE
2	Rockbuster	public	store	BASE TABLE
3	Rockbuster	public	address	BASE TABLE
4	Rockbuster	public	category	BASE TABLE
5	Rockbuster	public	city	BASE TABLE
6	Rockbuster	public	country	BASE TABLE
7	Rockbuster	public	customer	BASE TABLE
8	Rockbuster	public	film_actor	BASE TABLE
9	Rockbuster	public	film_catego…	BASE TABLE
10	Rockbuster	public	inventory	BASE TABLE
11	Rockbuster	public	language	BASE TABLE
12	Rockbuster	public	rental	BASE TABLE
13	Rockbuster	public	staff	BASE TABLE
14	Rockbuster	public	payment	BASE TABLE
15	Rockbuster	public	film	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?

A/ Yes, we can access this information by going to the left panel and look for the following: Data Bases-Rockbuster-Schemas-Tables

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

A/ 6 days with 212 films

Data output   Messages   Notifications

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

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:

1- To get the information about the payments the customers have done
2- To know how many movies are currently in stock

OLTP:

1- To modify the length of the rental duration
2- Change costumer's personal information

Step 5

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

A/ Structured, because the data is delivered 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.

Invoice #	Item	Quantity	Description	Costumer	Address	Price
2019001	001	01	New video collection licensing	Timothy walker	40 Sheila LA Sparks, NV	$730

Oaklanders

SOUND STUDIO

INVOICE: 2019001

MR. TIMOTHY WALKER
40 SHEILA LA SPARKS, NV

ITEM	QTY	DESCRIPTION	PRICE
001	01	**New Video Collection Licensing**	$730

SUB TOTAL			$730

OAKLANDERS

4826 NORMA AVENUE
ANDERSON, TX

MAKE YOUR PAYMENT TO

ACCOUNT NAME: MIKO SANTO
ACCOUNT NO.: 4929 3310 0057 5422