

3.1 Intro to SQL

Step 2

Excel

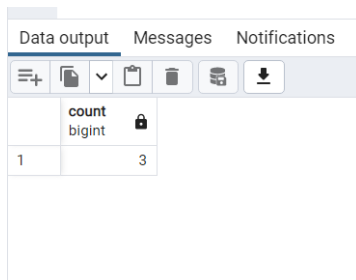
=COUNTIF(B:B;"Ed") = 3

SQL

```
SELECT COUNT(*)
```

```
FROM actor
```

```
WHERE first_name = 'Ed'
```

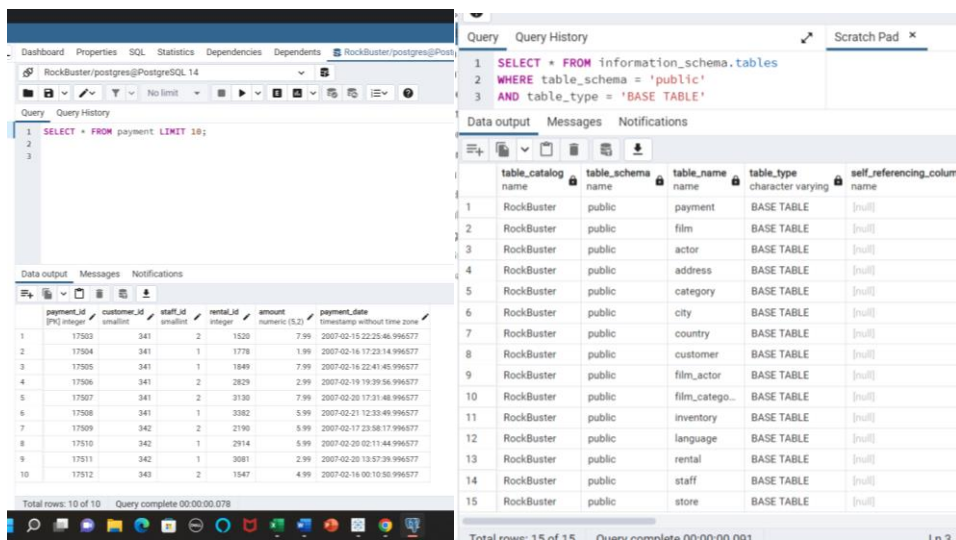


	count	bigint
1		3

Answers

- The answers are the same.
- There were a few more steps in Excel than the simple code in SQL.

Step 3



table_catalog	table_schema	table_name	table_type	self_referencing_column_name
RockBuster	public	payment	BASE TABLE	[null]
RockBuster	public	film	BASE TABLE	[null]
RockBuster	public	actor	BASE TABLE	[null]
RockBuster	public	address	BASE TABLE	[null]
RockBuster	public	category	BASE TABLE	[null]
RockBuster	public	city	BASE TABLE	[null]
RockBuster	public	country	BASE TABLE	[null]
RockBuster	public	customer	BASE TABLE	[null]
RockBuster	public	film_actor	BASE TABLE	[null]
RockBuster	public	film_catego...	BASE TABLE	[null]
RockBuster	public	inventory	BASE TABLE	[null]
RockBuster	public	language	BASE TABLE	[null]
RockBuster	public	rental	BASE TABLE	[null]
RockBuster	public	staff	BASE TABLE	[null]
RockBuster	public	store	BASE TABLE	[null]

This information can also be found under Servers > PostgreSQL > Databases > Rockbuster Schemas > Tables

Query	Query History	Scra
1	SELECT rental_duration AS "rented for (in days"	
2	FROM film	
3	GROUP BY 1	
4	ORDER BY 2	
5		
6		

Data output	Messages	Notifications																		
<table> <tr> <th></th><th>rented for (in days) smallint</th><th>number of films bigint</th></tr> <tr> <td>1</td><td>7</td><td>191</td></tr> <tr> <td>2</td><td>5</td><td>191</td></tr> <tr> <td>3</td><td>4</td><td>203</td></tr> <tr> <td>4</td><td>3</td><td>203</td></tr> <tr> <td>5</td><td>6</td><td>212</td></tr> </table>		rented for (in days) smallint	number of films bigint	1	7	191	2	5	191	3	4	203	4	3	203	5	6	212		
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1	7	191																		
2	5	191																		
3	4	203																		
4	3	203																		
5	6	212																		

- 6 days is the most days a movie is rented

Step 4

OLAP

- BI: Most profitable movies in a period
- Marketing: Most popular time for renting movies at Christmas

OLTP

- Finance: Transaction processing of renting a movie
- CS: Check Customer Details

Step 5

- It is organized in a structured way

Transaction Table

Invoice Number	ITEM	QTY (Quantity)	Description	Price
2019001	001	01	New Video Collection Licensing	\$730.00

Customer Table

Last Name	First Name	Gender	Address	City	State	Stata Abbreviation
Walker	Timothy	Male	40 Sheila La	Sparks	Navada	NV

Supplier Table

Name	Account Name	Account No.	Address	City	State	Stata Abbreviation
Oaklanders	Miko Santo	49293319 99575422	4826 Norma Ave	Anderson	Texas	TX