

Prepared by: Rob Rowland

Step 2:

Excel Result: 3, using =COUNTIF(B:B,"Ed")

PostgreSQL Result:

Dashboard Properties SQL Statistics Dependencies Dependents [Rockbuster/postgr](#)

No limit

Query Editor Query History Scratch Pad

```

1 SELECT COUNT(*)
2 FROM actor
3 WHERE first_name = 'Ed'
    
```

Data Output Explain Messages Notifications

	count bigint
1	3

For this instance, pulling the number in Excel was easier since the formula was quick and not complex. Granted, I'm already familiar with Excel and was able to execute it more quickly, however, for a calculation this simple, PostgreSQL seems unnecessary compared to Excel.

Step 3:

payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
----------------------------	-------------------------	----------------------	----------------------	-------------------------	---

Names of Tables: category, payment, language, film, country, inventory, film_category, city, staff, rental, store, actor, film_actor, customer, address

Rental Duration Distribution:

	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:

OLAP System:

- Buyers/Procurement would use an OLAP to view which movies are rented the most and plan inventory accordingly
- Marketing would use an OLAP to view historical sales to prioritize future budgets

OLTP System:

- Marketing would use an OLTP to store and manage customer demographics
- Shipping/Procurement would use an OLTP to store and manage vendor accounts

Step 5:

This is structured data because all of it can be sorted into columns, tables, and rows.

Customer First Name	Customer Last Name	Customer Address: Street	Customer Address: City	Customer Address: State	Account Number
Timothy	Walker	40 Sheila Lane	Sparks	NV	4929331000575420
Item Number	Quantity	Description	Price per Unit	Invoice Number	
001	1	New Video Collection Licensing	\$730.00	2019001	
Vendor	Vendor Address: Street	Vendor Address: City	Vendor Address: State		
Oaklanders Sound Studio	4826 Norma Avenue	Anderson	TX		