

Achievement 3.1

STEP 1:

Completed.

STEP 2:

Excel:

=COUNTIF(B2:B201, "Ed")				
D	E	F	G	H
t_upd				
47:57.6				
47:57.6	Name	Count		
47:57.6	Ed	3		
47:57.6				

PregreSQL:

Data output			Messages	Notifications
+	📄	▼	📋	🗑️
	count	bigint	🔒	
1		3		

It's easier to use PregreSQL since there is no need to study the table like Excel first before writing an equation to find out how many "Ed" is in the database.

STEP 3:

Query

Query History

Scratch Pad

1

SELECT * FROM payment LIMIT 10;

Data output

Messages

Notifications

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17503	341	2	1520	7.99	2007-02-15 22:25:46.996577
2	17504	341	1	1778	1.99	2007-02-16 17:23:14.996577
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

Query		Query History	
1	SELECT	*	FROM information_schema.tables
2	WHERE	table_schema =	'public'
3	AND	table_type =	'BASE TABLE'

Data output		Messages	Notifications
+	📄	▼	🗑️
table_catalog name	table_schema name	table_name name	table_type character varying
1	Rockbuster	public	actor
2	Rockbuster	public	store
3	Rockbuster	public	address
4	Rockbuster	public	category
5	Rockbuster	public	city
6	Rockbuster	public	country
7	Rockbuster	public	customer
8	Rockbuster	public	film_actor
9	Rockbuster	public	film_catego...
10	Rockbuster	public	inventory
11	Rockbuster	public	language
12	Rockbuster	public	rental
13	Rockbuster	public	staff
14	Rockbuster	public	payment
15	Rockbuster	public	film

The table can also found at the sidebar under “Schemas>Tables”

Query		Query History	
1	SELECT	rental_duration AS "rented for (in days)",	COUNT(*) AS "number of films"
2	FROM	film	
3	GROUP BY	1	
4	ORDER BY	2	

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	

The most films rented for are 6 days.

STEP 4:

	OLAP	OLTP
1)	Analysts to study trends from previous years	Receptionists to update accounts, emails and making appointments
2)	Managers at meeting to answer questions about the database	Analysts to add and delete data.

STEP 5:

The invoice is a structured data because information is stored in a row/column method.

Transaction Table:

Invoice_Number	Item	Qty	Description	Price
2019001	001	01	New Video Collection Licensing	\$730.00

Customer Table:

First_Name	Last_Name	Gender	Address	City	State
Timothy	Walker	Male	40 Sheila la	Sparks	NV

Supplier Table:

Name	Account_Name	Account_No	Address	City	State
Oaklanders	Miko Santo	4929 3310 0057 5422	4826 Norma Ave	Anderson	TX