

Step 2. First name Ed in excel is 3 and the function is COUNTIF(B:B, "Ed").

Query Editor

Query History

Scratch Pad

✕

1

2

3

4

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

Data Output

Explain

Messages

Notifications

count

bigint

1

3

SQL has 3 people with Ed as the first name as well.

Step 3.

Select from payment limit 10

	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	342	2	1547	4.99	2007-02-16 00:10:50.996577

```
SELECT * FROM information_schema.tables  
WHERE table_schema = 'public'  
AND table_type = 'BASE TABLE'
```

table_name
name
actor
store
address
category
city
country
customer
film_actor
film_category
inventory
language
rental
staff
payment

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

Data Output	Explain	Messages	Notific
▲	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: You could figure out what movie was the most profitable for its period of time. You could also use OLAP to figure out the most popular time of the year people go and watch movies.

For OLTP you could check customer details. For OLTP Rockbuster could use this to update a customer's order shipment status for buying a movie.

Step 5

The data on the receipt contains structured data because you can organize it in tables.

Transaction

Invoice Number	Item	Quantity	Description	Price
2019001	001	1	New Video Collection Licensing	\$730

Customer Information

First Name	Last Name	Gender	Address	City	State	State Abbreviation
Timothy	Walker	Male	40 Shiela La	Sparks	Nevada	NV

Supplier Information

Name	Account Name	Account Number	Address	City	State	State Abbreviation
Oaklanders	Miko Santos	49293319 99575422	4826 Norma Avenue	Anderson	Texas	TX