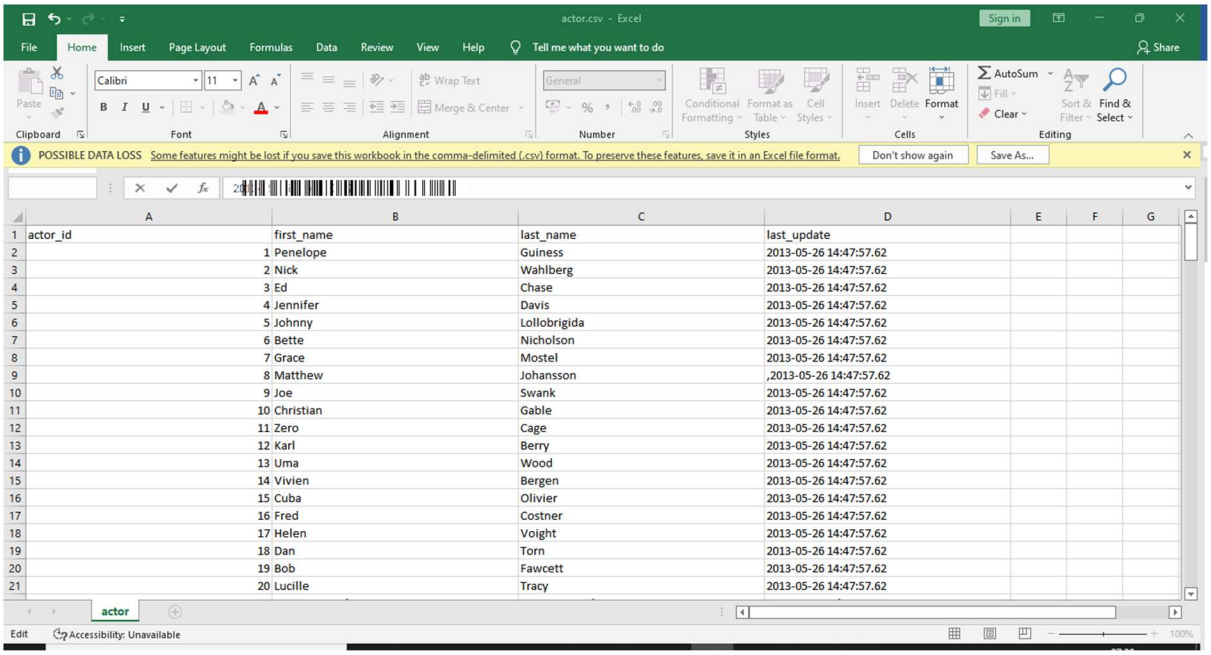
Intro. to Relational Databases

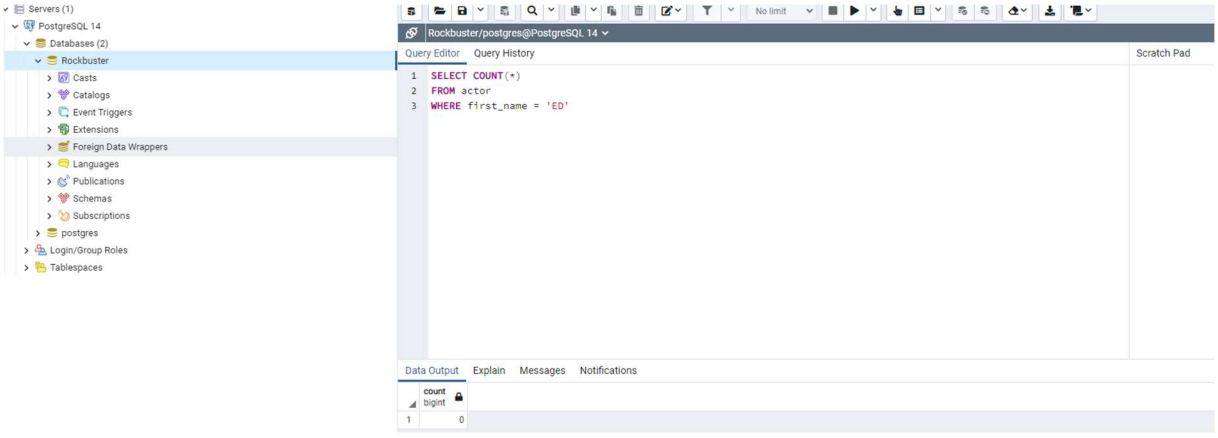
Step 2

3 Actors have the name “ED“



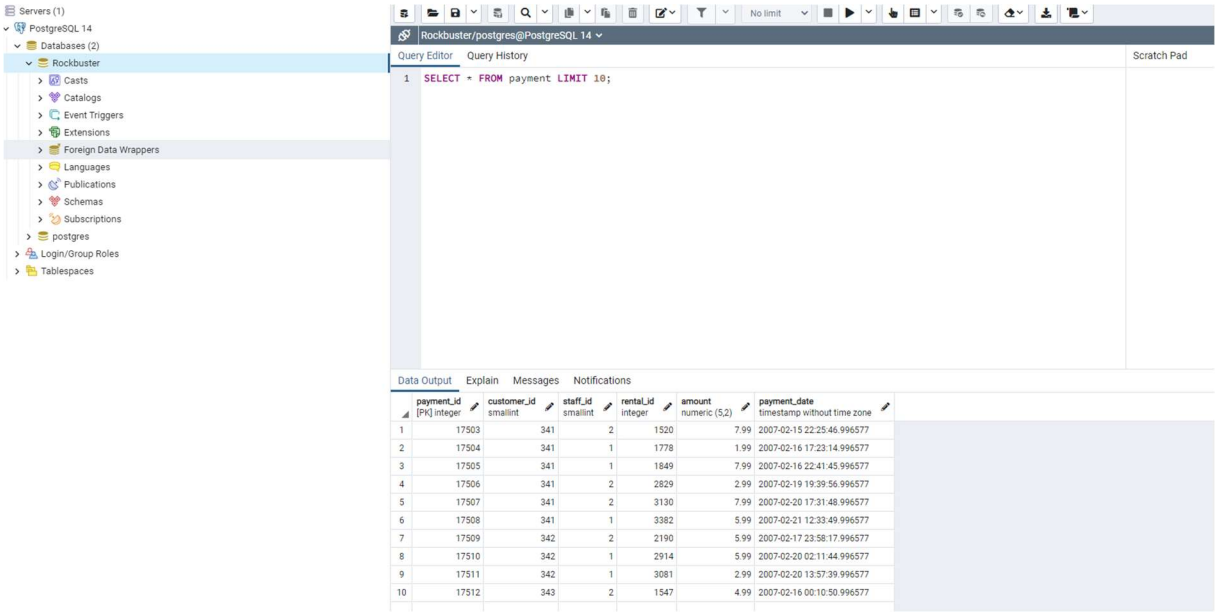
	A	B	C	D	E	F	G
1	actor_id	first_name	last_name	last_update			
2	1	Penelope	Guiness	2013-05-26 14:47:57.62			
3	2	Nick	Wahlberg	2013-05-26 14:47:57.62			
4	3	Ed	Chase	2013-05-26 14:47:57.62			
5	4	Jennifer	Davis	2013-05-26 14:47:57.62			
6	5	Johnny	Lollobrigida	2013-05-26 14:47:57.62			
7	6	Bette	Nicholson	2013-05-26 14:47:57.62			
8	7	Grace	Mostel	2013-05-26 14:47:57.62			
9	8	Matthew	Johansson	,2013-05-26 14:47:57.62			
10	9	Joe	Swank	2013-05-26 14:47:57.62			
11	10	Christian	Gable	2013-05-26 14:47:57.62			
12	11	Zero	Cage	2013-05-26 14:47:57.62			
13	12	Karl	Berry	2013-05-26 14:47:57.62			
14	13	Uma	Wood	2013-05-26 14:47:57.62			
15	14	Vivien	Bergen	2013-05-26 14:47:57.62			
16	15	Cuba	Olivier	2013-05-26 14:47:57.62			
17	16	Fred	Costner	2013-05-26 14:47:57.62			
18	17	Helen	Voight	2013-05-26 14:47:57.62			
19	18	Dan	Torn	2013-05-26 14:47:57.62			
20	19	Bob	Fawcett	2013-05-26 14:47:57.62			
21	20	Lucille	Tracy	2013-05-26 14:47:57.62			

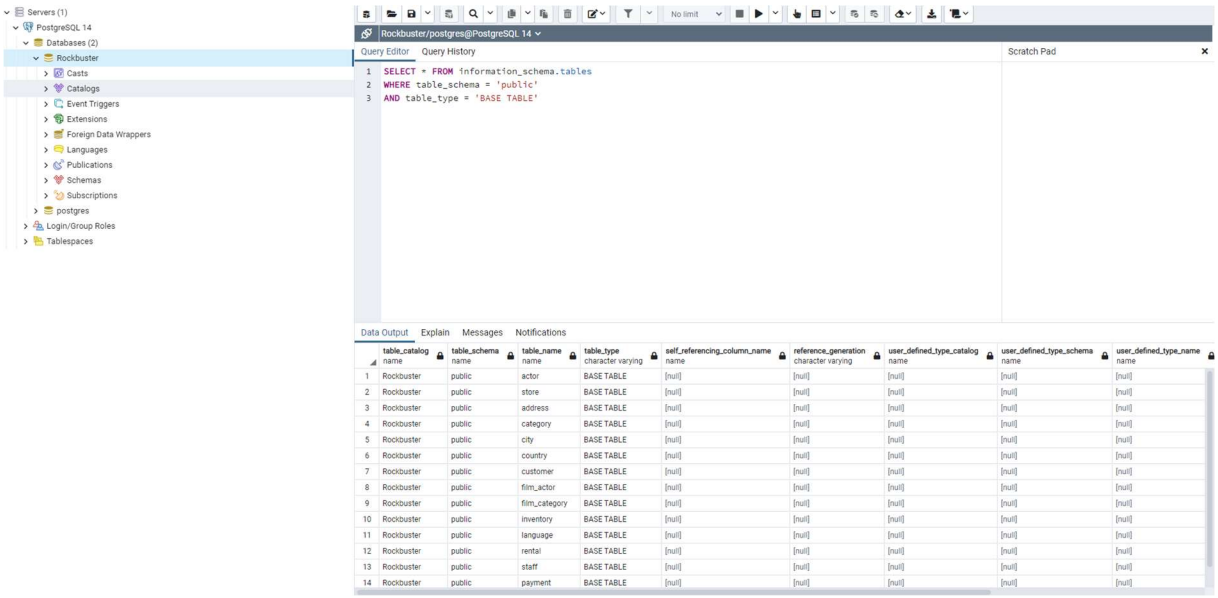
There is a 0 count for “ED”



The number count from excel was must easier because the data involve was low.

STEP 3


Servers (1)
PostgreSQL 14
Databases (2)
Rockbuster
Casts
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas
Subscriptions
postgres
Login/Group Roles
Tablespaces
No limit
Rockbuster/postgres@PostgreSQL 14
Query Editor
Query History
Scratch Pad
1 SELECT * FROM payment LIMIT 10;
Data Output
Explain
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


Servers (1)
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Databases (2)
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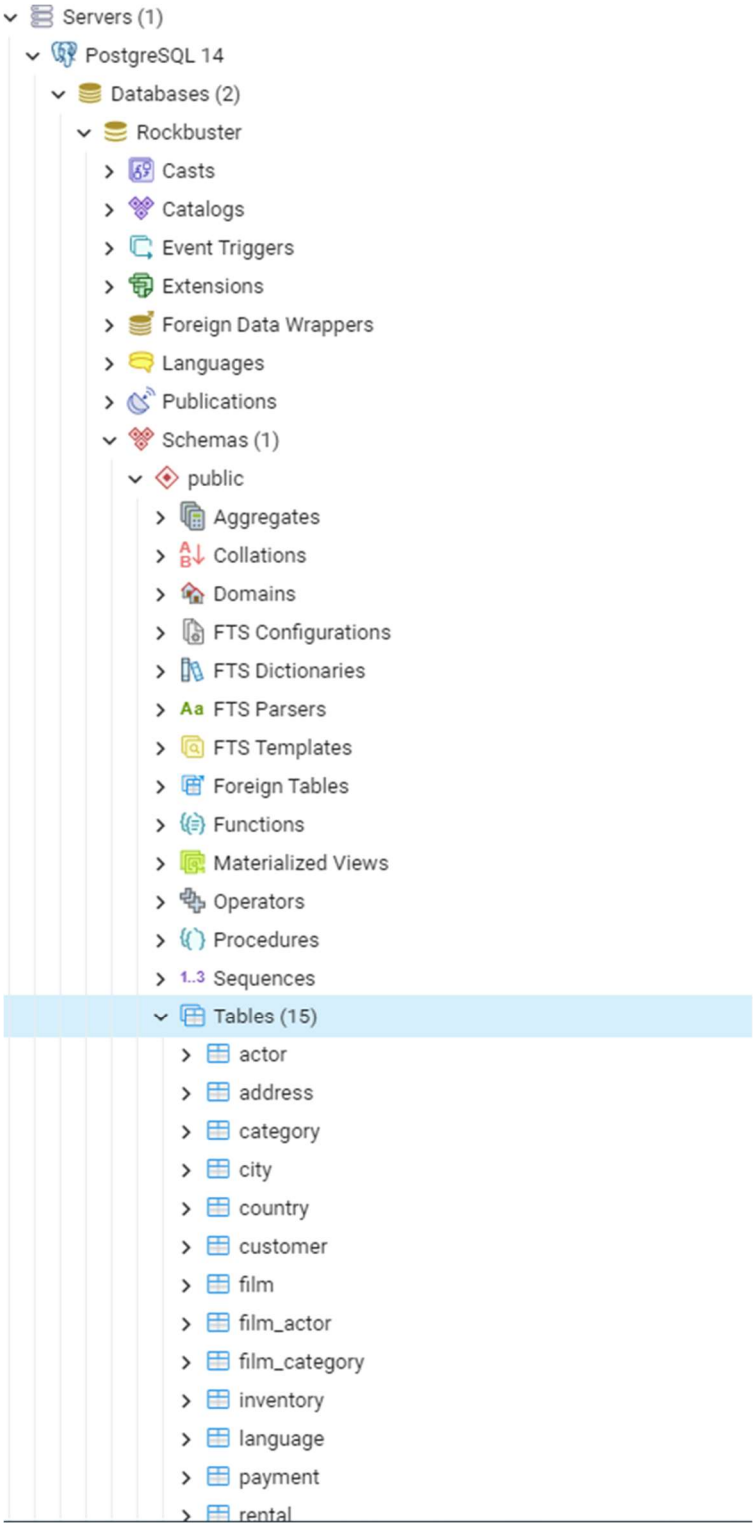
Schemas
Subscriptions
postgres
Login/Group Roles
Tablespaces
No limit
Rockbuster/postgres@PostgreSQL 14
Query Editor
Query History
Scratch Pad
1 SELECT * FROM information_schema.tables
2 WHERE table_schema = 'public'
3 AND table_type = 'BASE TABLE'
Data Output
Explain
Messages
Notifications
table_catalog name
table_schema name
table_name name
table_type character varying
self_referencing_column_name name
reference_generation character varying
user_defined_type_catalog name
user_defined_type_schema name
user_defined_type_name name
1 Rockbuster public actor BASE TABLE [null] [null] [null] [null] [null]
2 Rockbuster public store BASE TABLE [null] [null] [null] [null] [null]
3 Rockbuster public address BASE TABLE [null] [null] [null] [null] [null]
4 Rockbuster public category BASE TABLE [null] [null] [null] [null] [null]
5 Rockbuster public city BASE TABLE [null] [null] [null] [null] [null]
6 Rockbuster public country BASE TABLE [null] [null] [null] [null] [null]
7 Rockbuster public customer BASE TABLE [null] [null] [null] [null] [null]
8 Rockbuster public film_actor BASE TABLE [null] [null] [null] [null] [null]
9 Rockbuster public film_category BASE TABLE [null] [null] [null] [null] [null]
10 Rockbuster public inventory BASE TABLE [null] [null] [null] [null] [null]
11 Rockbuster public language BASE TABLE [null] [null] [null] [null] [null]
12 Rockbuster public rental BASE TABLE [null] [null] [null] [null] [null]
13 Rockbuster public staff BASE TABLE [null] [null] [null] [null] [null]
14 Rockbuster public payment BASE TABLE [null] [null] [null] [null] [null]


Servers (1)
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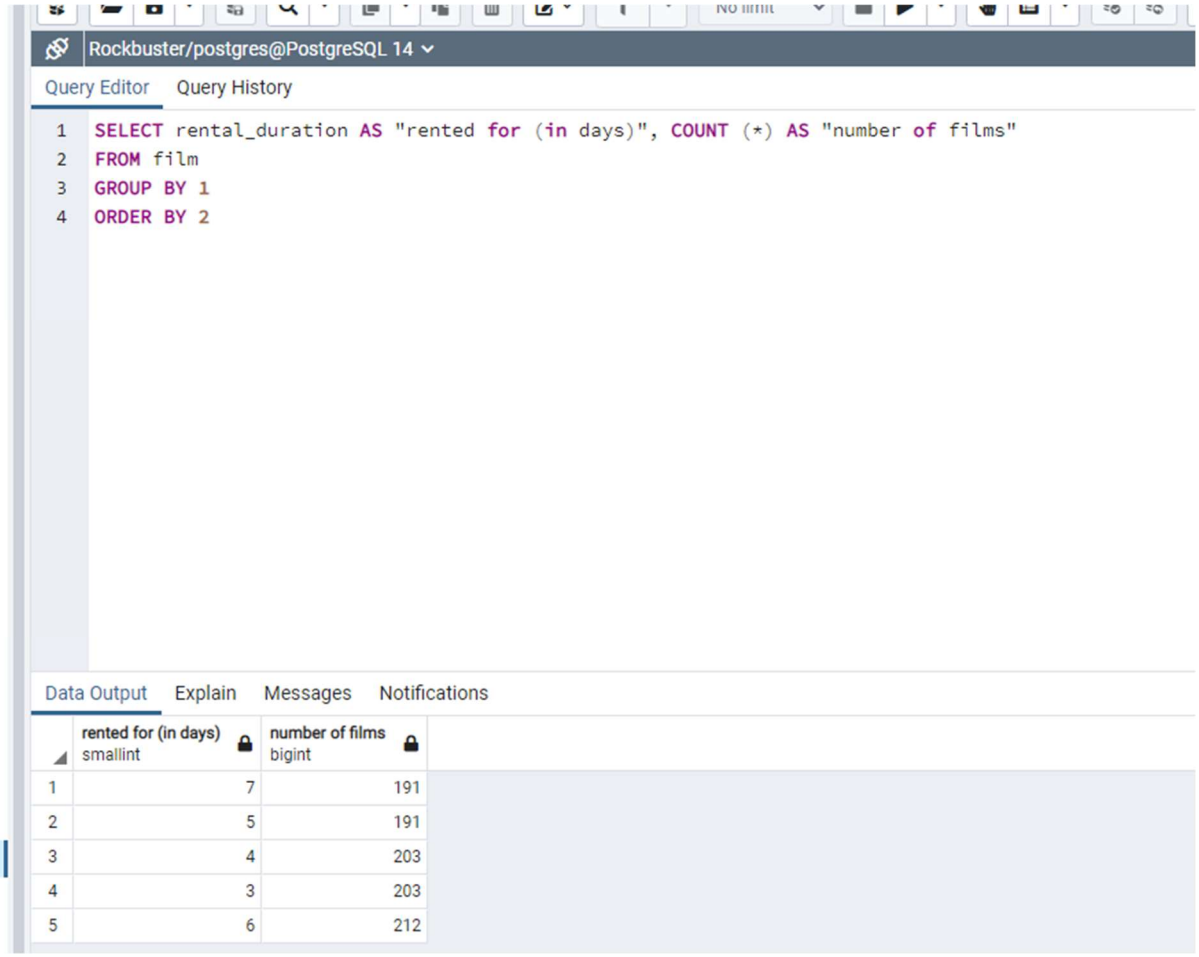
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Aggregates
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (15)
actor
address
category
city
country
customer
film
film_actor
film_category
inventory
language
payment
rental



STEP 4

OLAP

- ✓ Sales on figures on a monthly or yearly basis.
- ✓ Show which days are most popular for movie rentals

OLTP

- ✓ Tracking rental status of movies.
- ✓ Storing new customer rental details.

STEP 5

Invoice is structured.

Invoice_num	Item_num	Qty.	Description	Price
2019001	001	01	New Video Collection Licensing	$730

Last_name	First_name	Address	City	State
Walker	Timothy	40 Sheila	Sparks	NV

Vendor_name	Acct_name	Acct_num	Adress	City	State
Oaklanders	Miko Santo	4929331000575420	48260 Norma Avenue	AndersoTexasn	TX