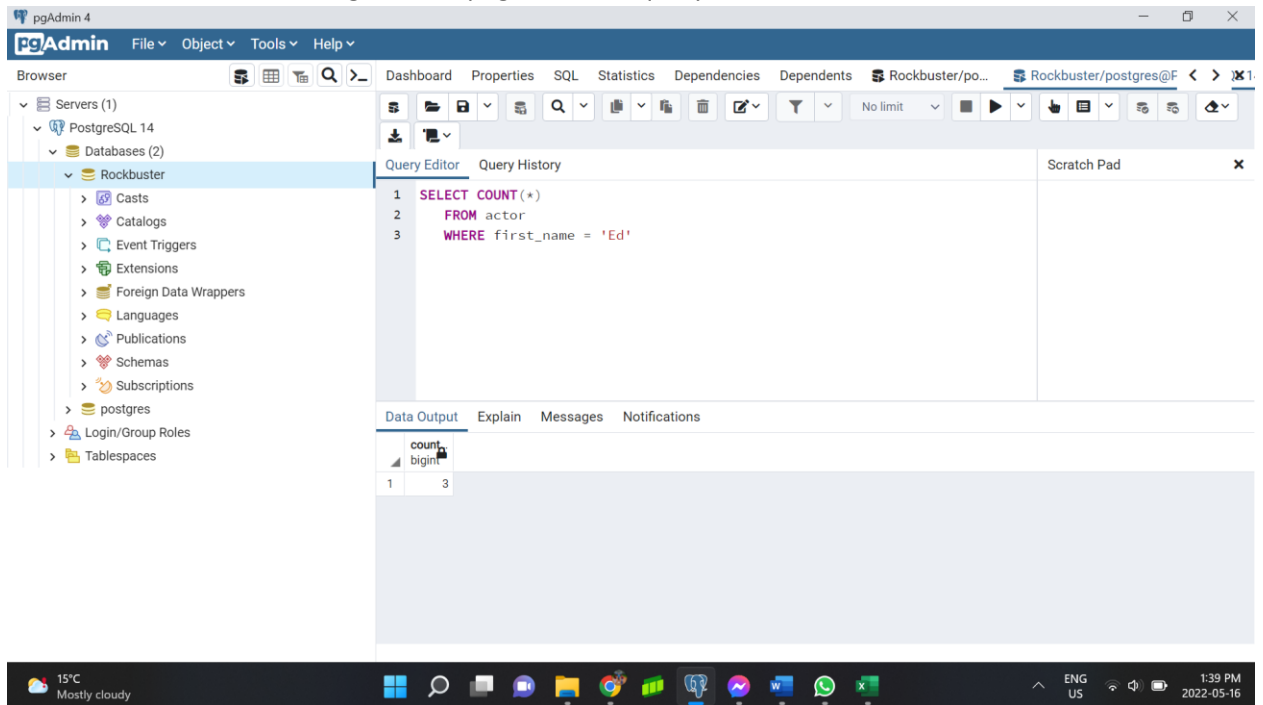Data Immersion

May 14, 2022

Exercise 3.1

Step 2

a. There are 3 'Ed's in the Excel sheet.
b. Here is a screenshot of the PgAdmin 4 page with the query.

c. I found Excel easier, but that's because I'm more used to it.

Step 3

17503	341	2	1520	7.99	"2007-02-15 22:25:46.996577"
17504	341	1	1778	1.99	"2007-02-16 17:23:14.996577"
17505	341	1	1849	7.99	"2007-02-16 22:41:45.996577"
17506	341	2	2829	2.99	"2007-02-19 19:39:56.996577"
17507	341	2	3130	7.99	"2007-02-20 17:31:48.996577"
17508	341	1	3382	5.99	"2007-02-21 12:33:49.996577"
17509	342	2	2190	5.99	"2007-02-17 23:58:17.996577"

17510	342	1	2914	5.99	"2007-02-20 02:11:44.996577"
17511	342	1	3081	2.99	"2007-02-20 13:57:39.996577"
17512	343	2	1547	4.99	"2007-02-16 00:10:50.996577"

"actor"

"store"

"address"

"category"

"city"

"country"

"customer"

"film_actor"

"film_category"

"inventory"

"language"

"rental"

"staff"

"payment"

"film"

- This list can also be found on the tab, under Schemas → Tables

	rented for (in days) smallint	number of films bigint
1	7	191
2	5	191
3	4	203
4	3	203
5	6	212

Most films are rented for 6 days.

Step 4

    A. OLAP
        1. The Marketing department would fall under the OLAP category as they analyze the data to determine who to market to.
        2. Consumer Insights would like to be able to see and analyze what consumers are watching, where trends are leading.
    B. OLTP
        1. Content department would likely fall under both categories, but I'll place them here as they'll want to update the movie selection and the information.
        2. Accounting would need to update the transactions as they appear, thus in OLTP.

Step 5

    1. Structured vs. Unstructured Data
        a. I would consider this Structured Data as the information on the invoice would follow certain restrictions, such as for an address, the price, an invoice number, etc.
    2. Database

Category	Information
Studio Name	Oaklanders Sound Studio
Invoice Number	2019001
Name	Mr. Timothy Walker
Address	40 Sheila La Sparks, NV
Item #	001
QTY	01
Description	New Video Collection Licensing
Price	$730
Sub Total	$730
Make Your Payment To	Oaklanders
Address	4826 Norma Avenue, Anderson, TX
Account Name	Miko Santo
Account #	4929 3310 0057 5422