Answers 3.7

Rockbuster's management team would like to know the top 10 countries where Rockbuster customers are based so they can focus on building a better brand image in those markets. Follow the instructions below to find out how you can help!

Directions:

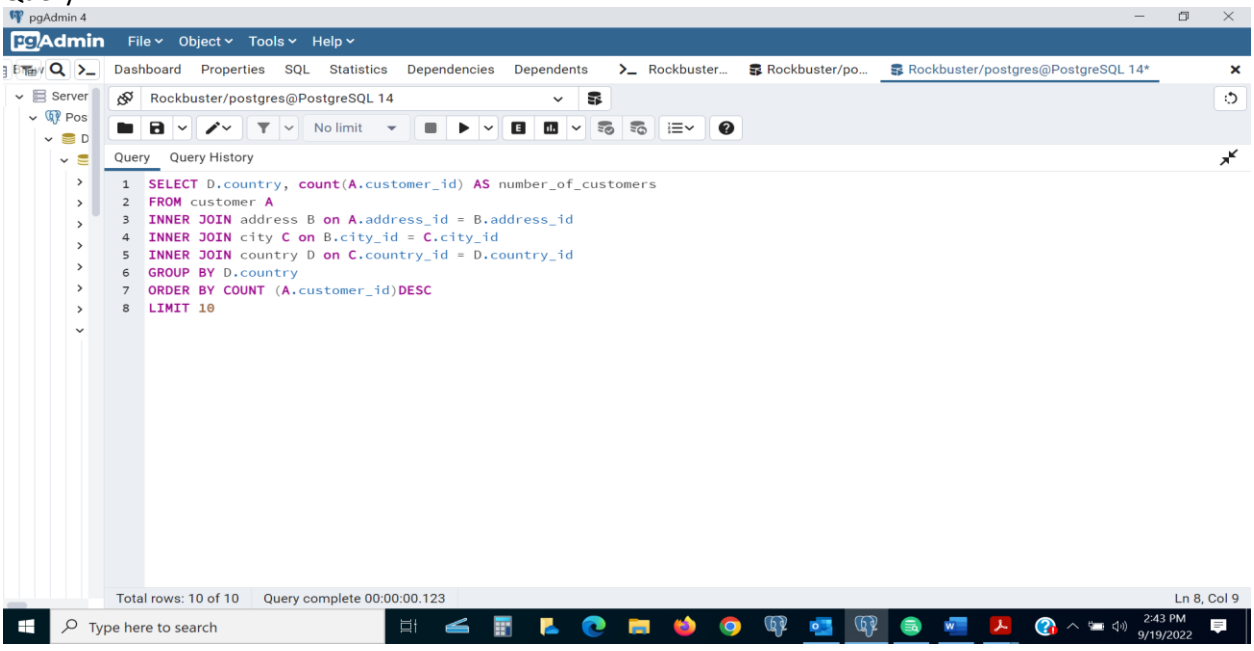
In this Task you'll get to practice everything you learned in the Exercise. Said simply, you'll need to write a couple of queries combined with joins between the tables address, country, city, customer and payment using their common keys. Create a new text document and call it "Answers 3.7." You'll save your queries, outputs and written answers in this document, as you've done in previous tasks.

1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)
    - Copy-paste your query and its output into your answers document.

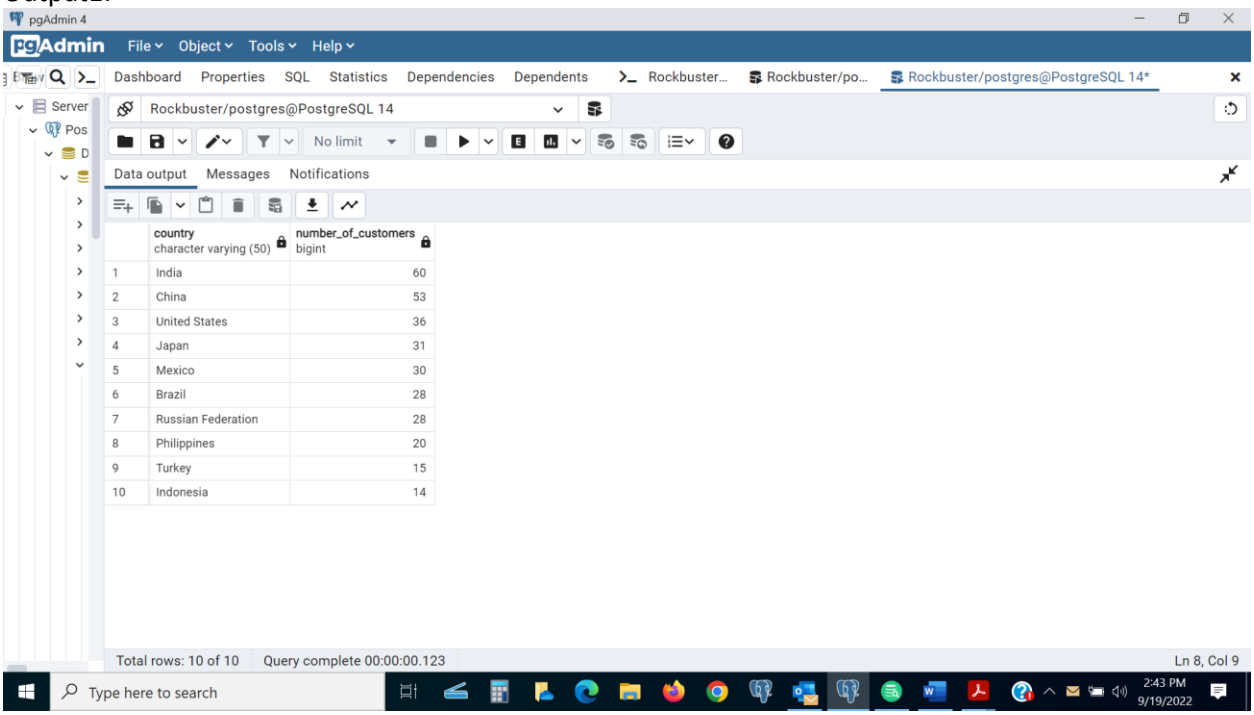
    Write a few sentences on how you approached this query and why. It's important that you can explain your thought process when writing queries, especially for future interviews.

    - Looked at data dictionary / ERD that shows tables and relationships
    - Customer table and country table have data on country and customer ID.
    - Created query Select the country and counted number of customer ID's named column "number of customers"
    - Joined Tables with inner join which looks for matching values in the join column(namely the foreign key or primary key) – customer, address, city, and country tables
    - Group by to sum each country, order by count, descending order customer id to display largest number of customers (top 10)

Query1:



Output1:

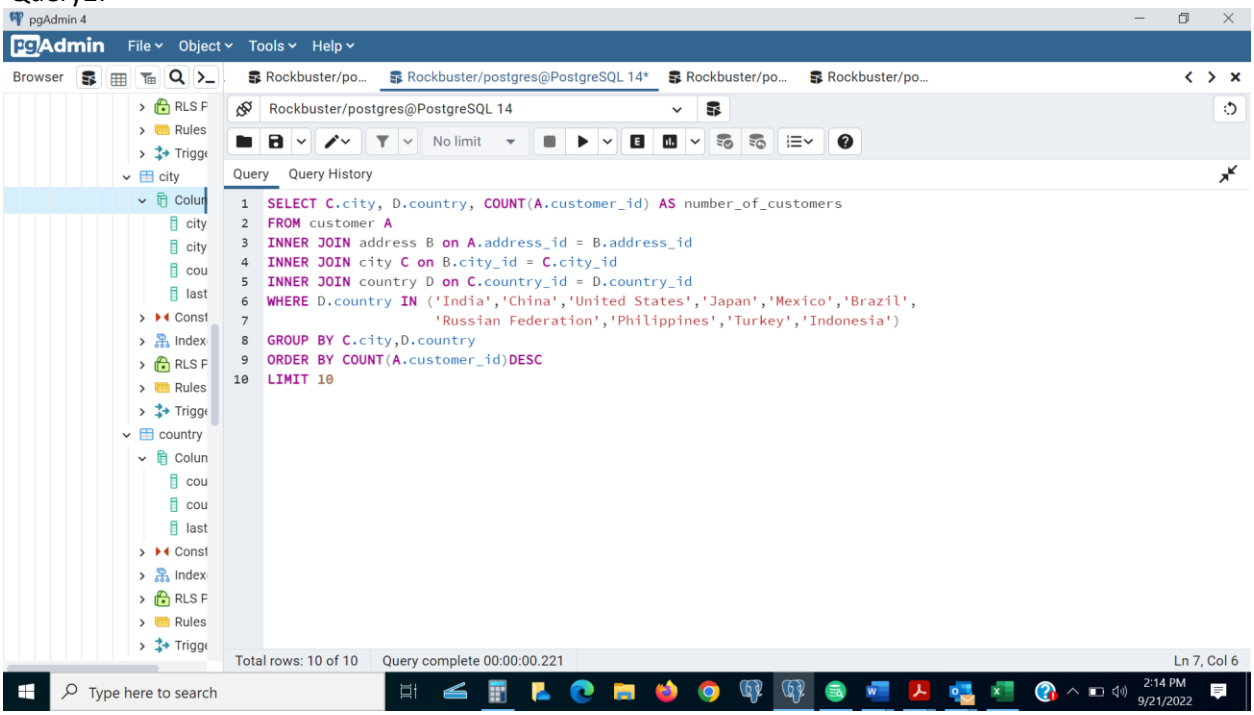


	country character varying (50)	number_of_customers bigint
1	India	60
2	China	53
3	United States	36
4	Japan	31
5	Mexico	30
6	Brazil	28
7	Russian Federation	28
8	Philippines	20
9	Turkey	15
10	Indonesia	14

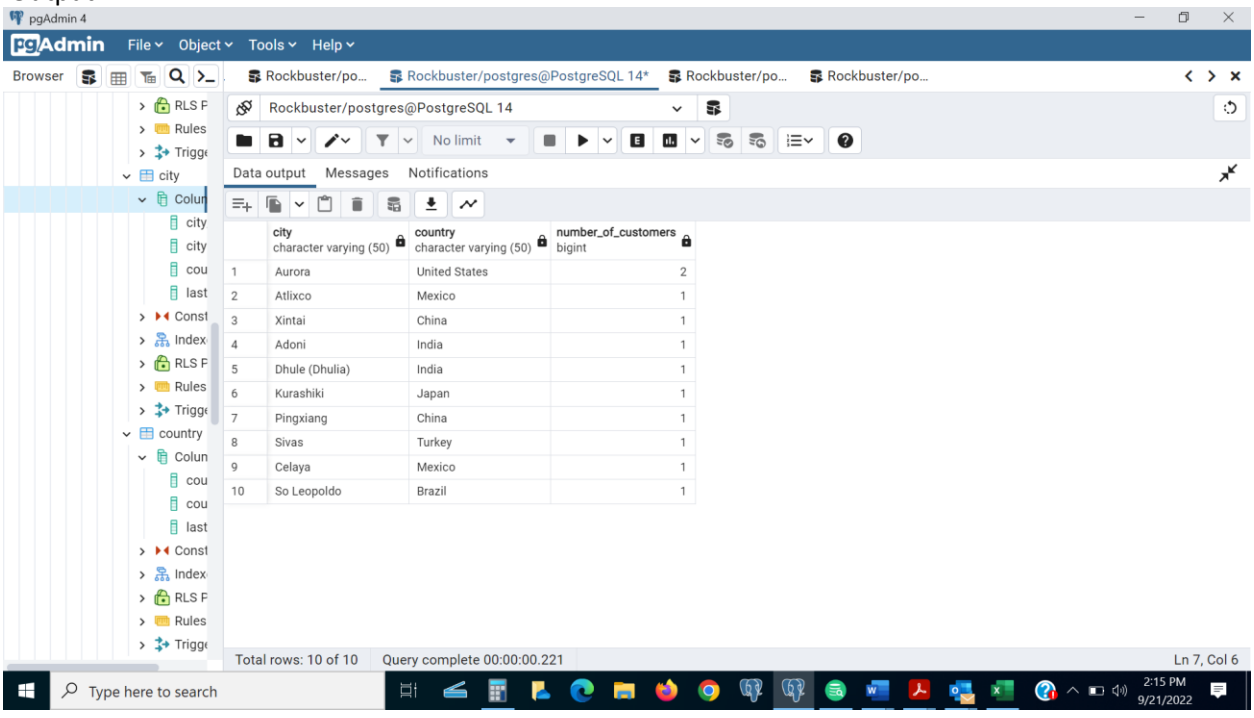
2. Write a query to find the top 10 cities within the top 10 countries identified in step 1.
    - Copy-paste your query and its output into your answers document.
    - Write a short explanation of how you approached this query and why.

    - Looked at data dictionary / ERD that shows tables and relationships
    - Modified step 1 Query to include city variable from City table, then used WHERE D. country IN ('India','China','United States','Japan','Mexico','Brazil','Russian Federation','Philippines','Turkey','Indonesia') **the top countries identified from first query above**
    - Then used GROUP BY C.city, D.country for display of records to show the top 10 cities within the top 10 countries that were identified in step 1

Query2:



Output2:

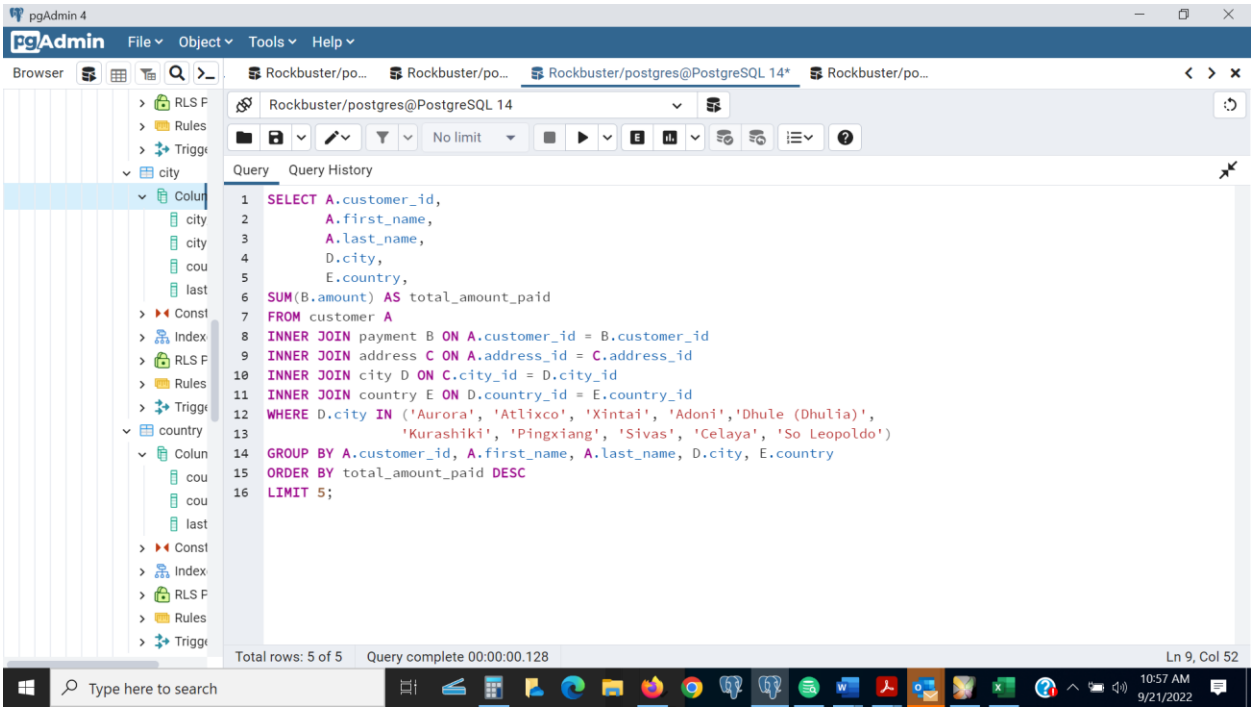


	city character varying (50)	country character varying (50)	number_of_customers bigint
1	Aurora	United States	2
2	Atlixco	Mexico	1
3	Xintai	China	1
4	Adoni	India	1
5	Dhule (Dhulia)	India	1
6	Kurashiki	Japan	1
7	Pingxiang	China	1
8	Sivas	Turkey	1
9	Celaya	Mexico	1
10	So Leopoldo	Brazil	1

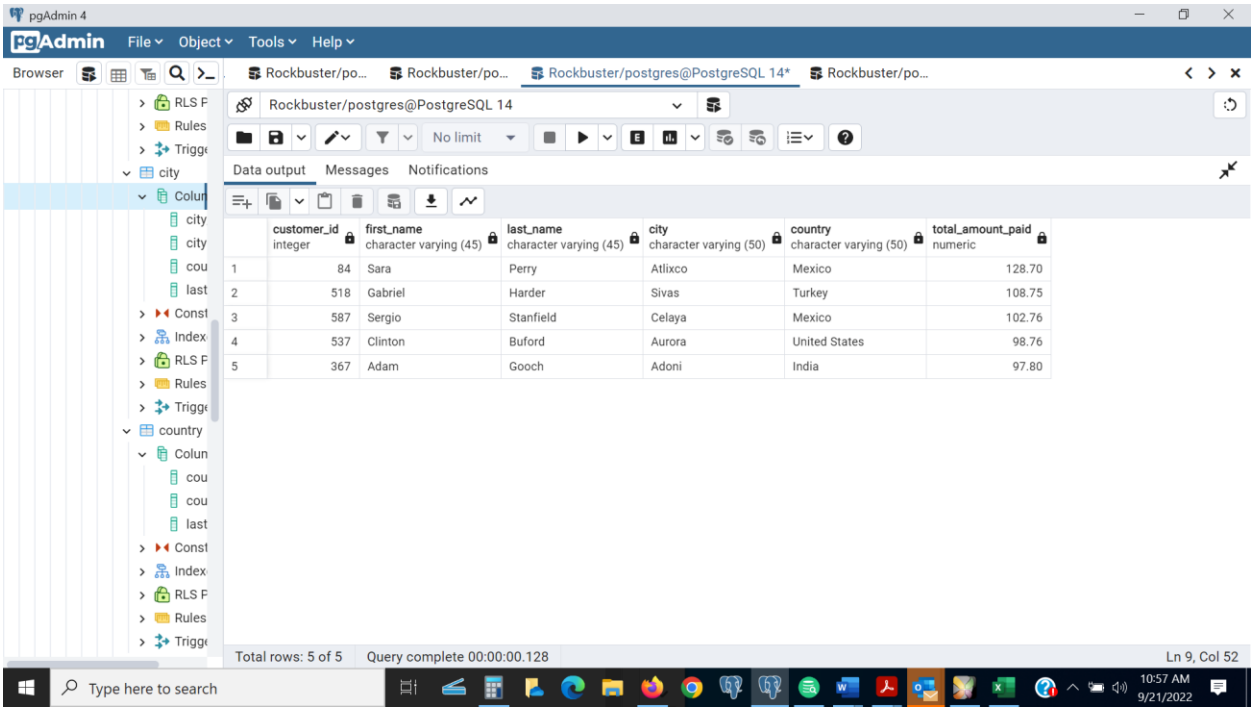
3. Write a query to find the top 5 customers in the top 10 cities who have paid the highest total amounts to Rockbuster. The customer team would like to reward them for their loyalty!

- Tip: After the join syntax, you'll need to use the WHERE clause with an operator, followed by GROUP BY and ORDER BY. Your output should include the following columns: Customer ID, Customer First Name and Last Name, Country, City, Total Amount Paid.
- Copy-paste your query and its output into your answers document.
- Looked at data dictionary / ERD that shows tables and relationships
- Modified step 2 Query to include customer id, last name, first name, city, country and amount AS amount paid in the select statement.
- Added the payment table to join on customer id
- Used WHERE D.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')**the top cities identified from 2nd query above**
- Then used GROUP BY A.customer_id, A.first_name, A.last_name, D.city, E.counrty for display of records to show the top 5 customers and amounts paid.

QUERY3:



OUTPUT3:



4. Save your “Answers 3.7” document as a PDF and upload it here for your tutor to review.