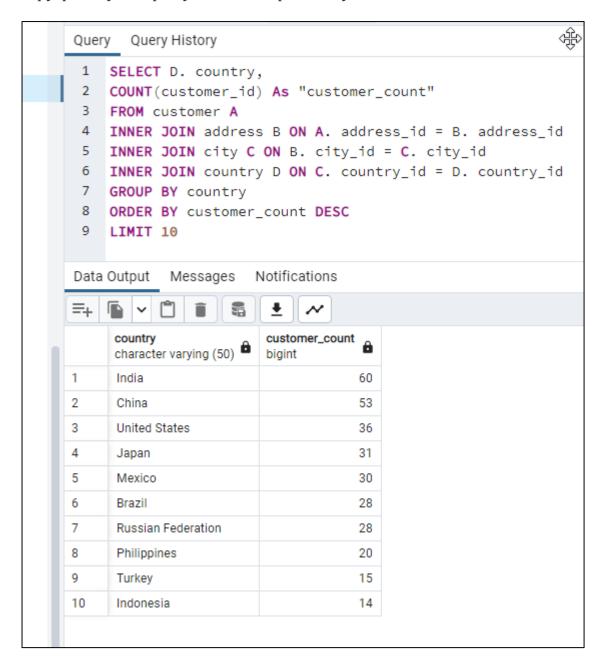
## **Exercise 3.7 Joining Tables of Data**

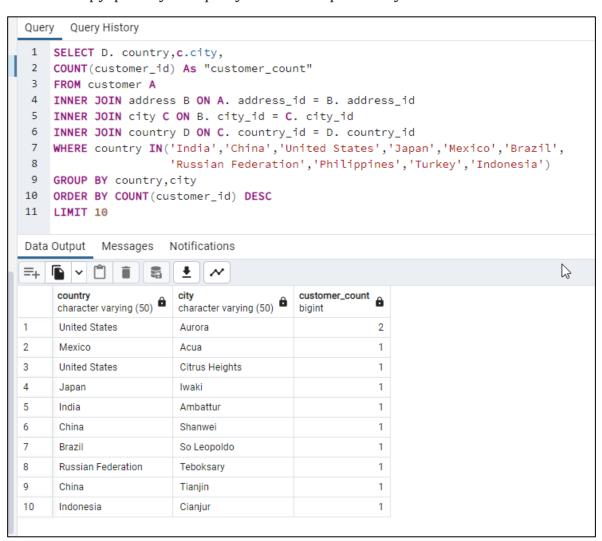
- 1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)
- a. Copy-paste your query and its output into your answers document.



b. 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.

As I asked to find the top 10 countries for Rockbuster in terms of customer numbers, first I checked ERD to find which tables I need to join. The data that I want, is stored in customer and country tables. However, these tables aren't directly connected, so I need to join the customer table with the address table, the address table with the city table, and finally the city table with the country table using INNER JOIN command to get the relevant information.

- 2. Write a query to find the top 10 cities within the top 10 countries identified in step 1.
  - a. Copy-paste your query and its output into your answers document.



- b. Write a short explanation of how you approached this query and why. As I explained in 1b, same steps are followed here only added step is, I have selected top ten countries from first query. Then similarity grouped them by country and city and INNER JOIN command used to join all 4 tables.
- 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.

