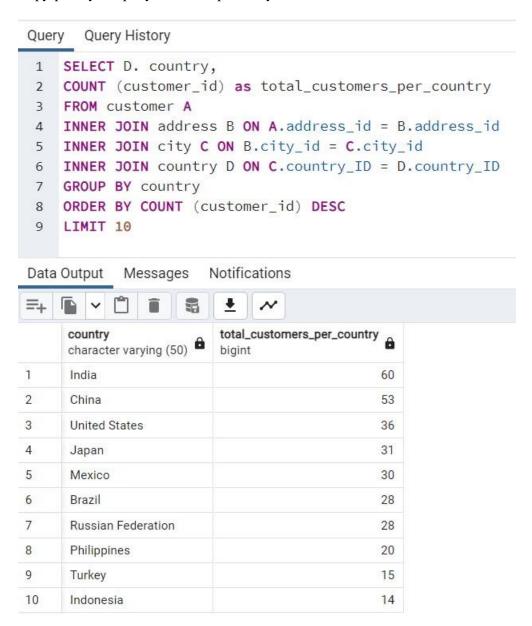
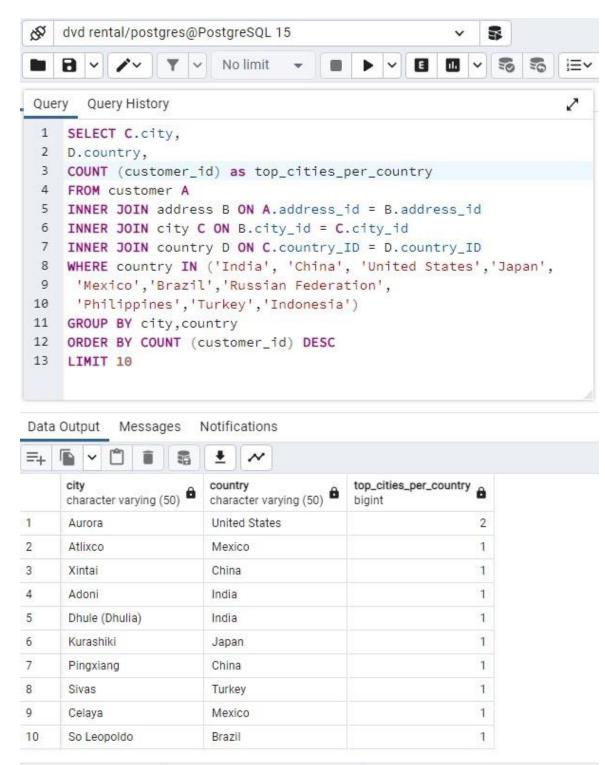
- 1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)
  - Copy-paste your query and its output into your answers document.



- 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.
- a) First and foremost, I reviewed the ERD created in a previous assignment (3.2) to determine which tables I needed to join.

- b) My query required four different tables: customer, nation, address, and city, thus I realized I should have used multiple joins.
- c) Infact, in order to access the information necessary for the query, I needed to join the "customer" and "country" tables, but since they weren't directly related, I first had to connect the customer table with the address table, then the address table with the city table, and finally the city table with the country one.
- d) I used the COUNT function to count the number of customer ids and the INNER JOIN function to find the intersections between the tables.
- e) Finally, I grouped all of the information by country and ordered it by the count of customer IDs in descendant order, because we wanted the bigger numbers first.
- f) I ultimately limited the number of results at 10 because we only required the top 10 nations.

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



o Write a short explanation of how you approached this query and why.

This time, I slightly modified the previous query. I started by including "city" in SELECT at the start of the query. After that, I updated the "WHERE" function by

adding IN in order to include only the ten nations we were interested in. Finally, I grouped all of the data not only by country, but also by city.

- 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.

