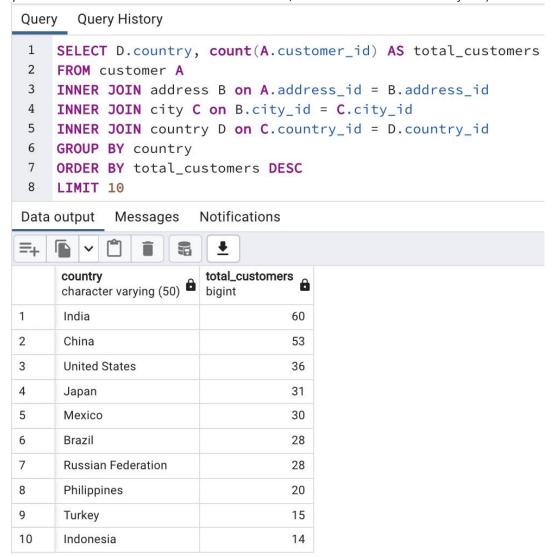
## Answers 3.7

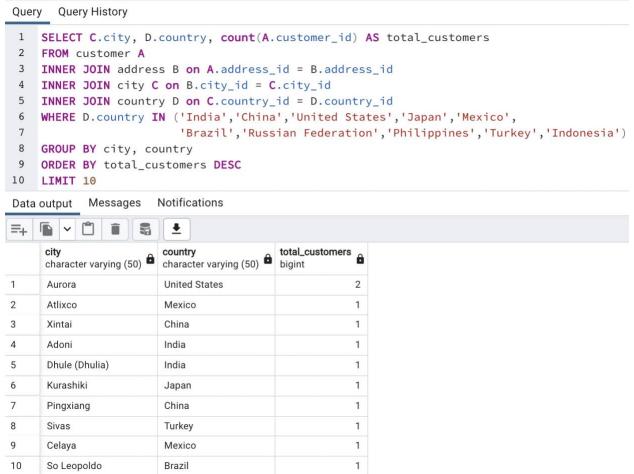
Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)



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.

Since I need to connect customer numbers to countries, I must establish the shortest link path from the customer table to the country table. Using the ERD, I discovered that the country table can connect back to the city table, which can then connect back to the address table, which can then connect back to the customer table, which we want. Now that the path has been established, we must select from country to connect to a customer count, followed by 3 inner joins to link the tables. After this we must group the data by country and order them by the customer count in descending order with a limit of 10.

Write a query to find the top 10 cities within the top 10 countries identified in step 1.



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

For this query I simply added city to the SELECT and GROUP BY functions. However, this included data from countries outside the top 10, such as a result from the United Kingdom tied for  $1^{st}$ , so I added a WHERE that listed the top 10 countries.

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!

