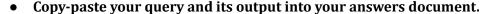
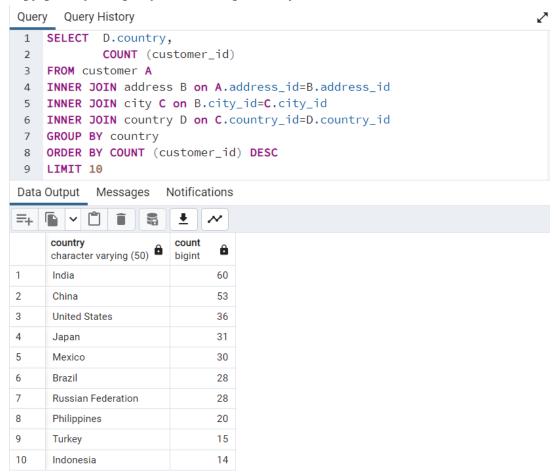
1.) Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)



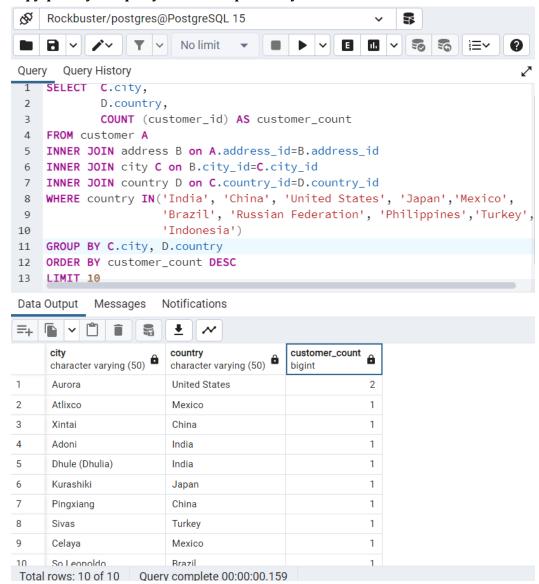


Write a few sentences on how you approached this query and why. It's
important that you can explain your thought process when writing queries,
especially for future interviews.

I realized that the quickest way to get the numbers of customers was to COUNT the customer ids in the customer table. As far as the joins themselves, it was simply a matter of following the thread from table A (customer) to table D (country) which meant address_id > city_id > country_id was the path of joining. I knew that the GROUP BY and ORDER BY functions had to come after the joins and that in order to produce the desired table, I would need to group the customer counts by country and order those by customer count in descending order, so as to get the top largest quantities. I then put a LIMIT of 10 records afterwards, to ensure I was only retrieving the top 10 highest customer counts.

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.

Most of this was already written in the previous step when I found the ten largest countries. The trick here was re-write the query to restrict the results to those top 10 countries which I now knew by name, hence, the WHERE clause in which I spelled out each one to limit the results to. Secondly, I had to return the results not simply for city nor by country alone but for both, hence the way I wrote my GROUP BY to include C.city and D.country. Lastly, I kept the limit to the top 10 as I wanted to see the top 10 cities amongst those 10 nations (initially, I was confused, thinking that I needed to find the top 10 cities in each *respective* country within the top 10 which would yield 100 cities in the final table.)

- 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!
 - Copy-paste your query and its output into your answers document. 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.

