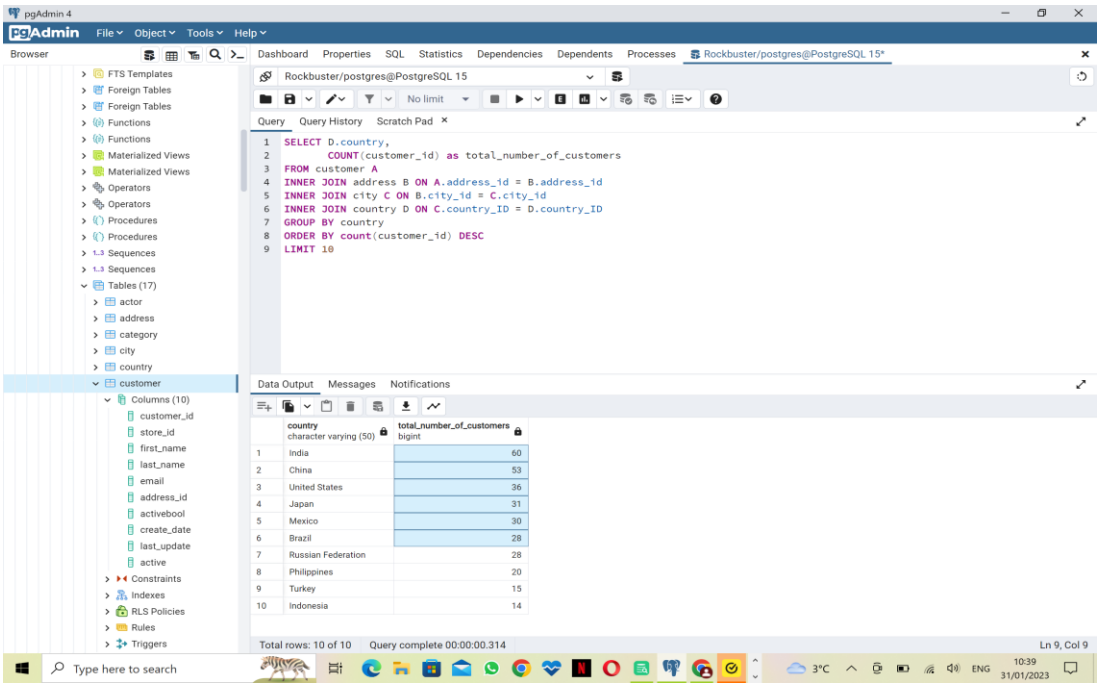
ANSWERS 3.7

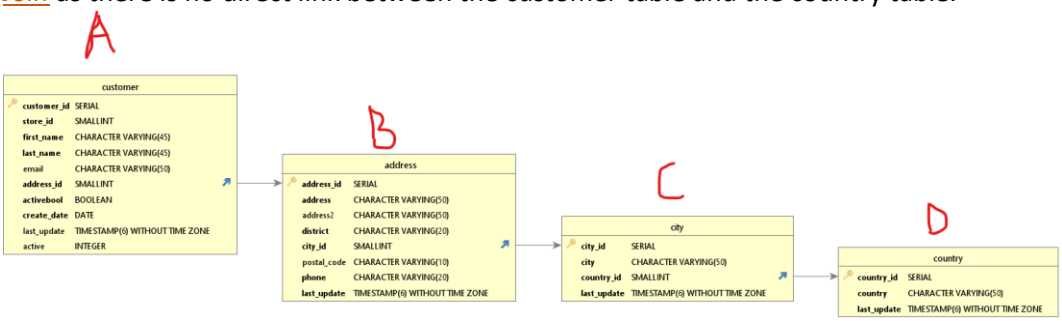
1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)

   - 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.

     For executing this query, I first used DB visualizer to find out which tables need to be used for the answer, by way of ERD, this gives us the relevant tables we need. As we see below that we only need Customer count and Country so we need to *use Multiple Join* as there is no direct link between the customer table and the country table.

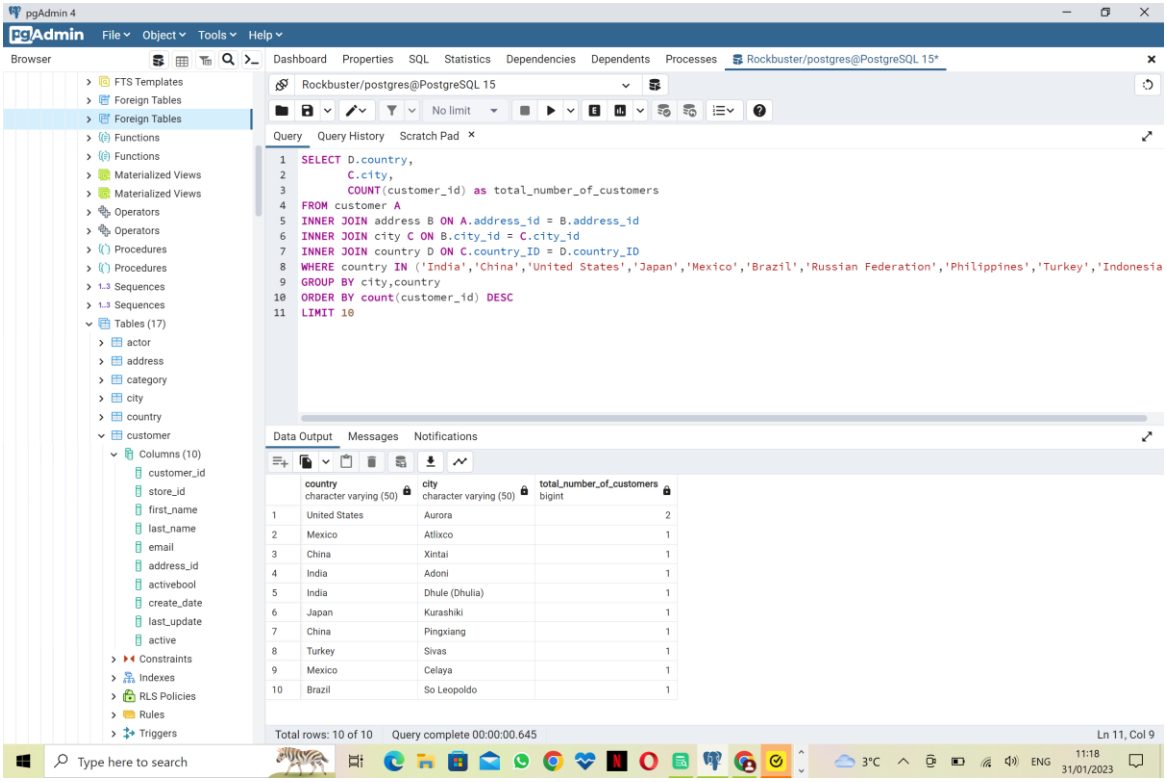


     Thereafter, I used the *Inner Join* (assigning tables A to D) to write the query as the data we need is limited. I grouped the data by Country and ORDER BY count in DESC to get the number of customers from top to bottom and thereafter setting LIMIT to 10 as we needed data only of the top 10 countries.

ANSWERS 3.7

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.

     For finding out the corresponding cities for the Top 10 countries we found earlier, I selected the city table (C), and specifically asked for the relevant countries by way of the *WHERE clause with IN operator* for including the relevant country names.

ANSWERS 3.7

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.

Taking the payment table as A, Customer as B, Address as C, City as D and Country as E, we have executed the below query. The ERD helps us in identifying the tables where the relevant data lies.