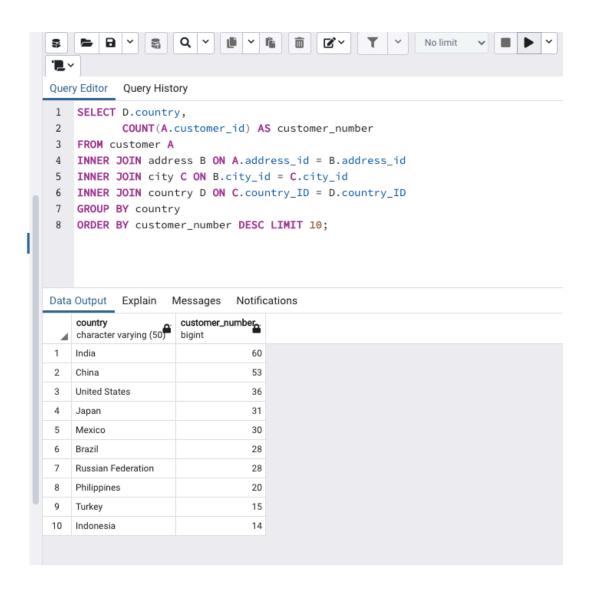
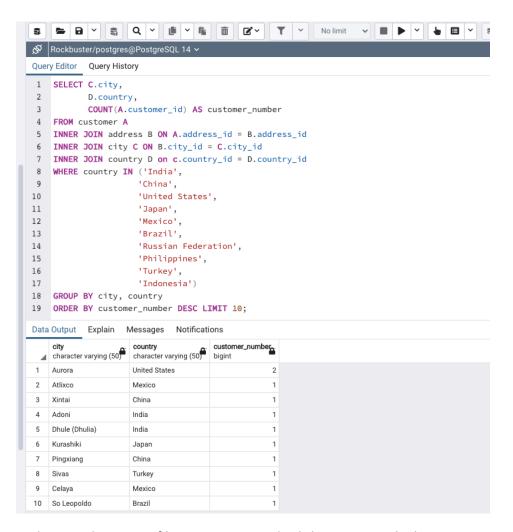
- 1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)
  - Copy-paste your query and its output into your answers document



• 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.

I checked the ERD charts in other to understand the contents of each table and how to link the country and customer table together. I need the country column from the country table as well as the customer\_id from the customer table. An aggregate function "count" was applied to the customer\_id to know the number of each customer from each country. Afterwards, I joined (INNER JOIN) the tables together with the help to the ERD charts. I later group by countries, ordered it by the customer number top to bottom are returned the first 10 countries.

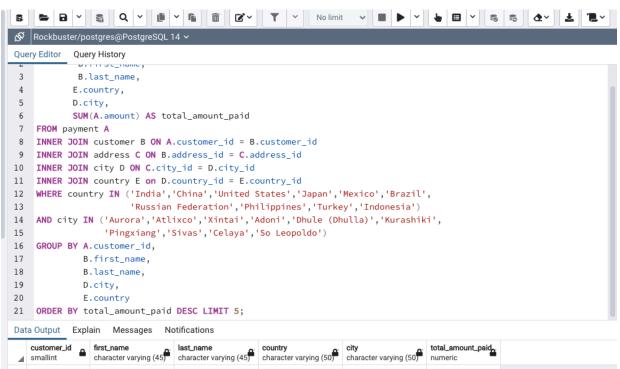
- 2. Write a query to find the top 10 cities within the top 10 countries identified in step 1.
  - Copy-paste your query and its output into your answers document



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

The query is a build upon the previous result. I checked the city table to known the column with the city name. I added that to my SELECT. I filtered the result with WHERE to return only top cities in the top 10 identified countries. I grouped the result by the city and countries, ordered by number of customer and returned the top 10 cities.

- 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.



2 518 Gabriel Harder Turkey Sivas 108.75   3 587 Sergio Stanfield Mexico Celaya 102.76   4 537 Clinton Buford United States Aurora 98.76	4	customer_id smallint	first_name character varying (45)	last_name character varying (45)	country character varying (50)	city character varying (50)	total_amount_paid_numeric
3 587 Sergio Stanfield Mexico Celaya 102.76   4 537 Clinton Buford United States Aurora 98.76	1	84	Sara	Perry	Mexico	Atlixco	128.70
4 537 Clinton Buford United States Aurora 98.76	2	518	Gabriel	Harder	Turkey	Sivas	108.75
	3	587	Sergio	Stanfield	Mexico	Celaya	102.76
5 367 Adam Gooch India Adoni 97.80	4	537	Clinton	Buford	United States	Aurora	98.76
	5	367	Adam	Gooch	India	Adoni	97.80