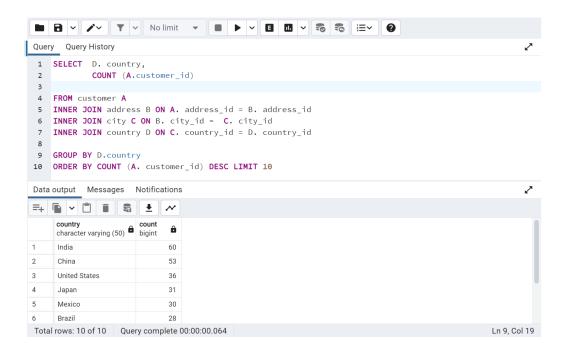
## 3.7: Joining Tables of Data

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.



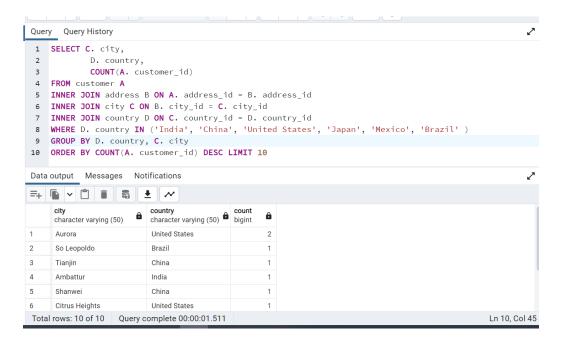
I found some difficulties to start doing this kind of joins from cero. I think I needed to read and see some more examples to get used to the structure and the links between different tables. Once I have understood the structure and the link, it's going to be easier for sure, but we need to practice and practice and practice as you say Dana, to get some skills and velocity

On this case, I've chosen customer as the main table, and I've joined it to country through two steps: address and city, so four tables have been used with their correspondent identification key

Customer  $\rightarrow$  address  $\rightarrow$  city  $\rightarrow$  country

Then I have write to count the number of Ids as a way of identifying on which country we have more customers (just the count, it doesn't mean anything about the rentals)

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.



Here I have done more or less the same exercise as on the first one, because the tables related has been the same

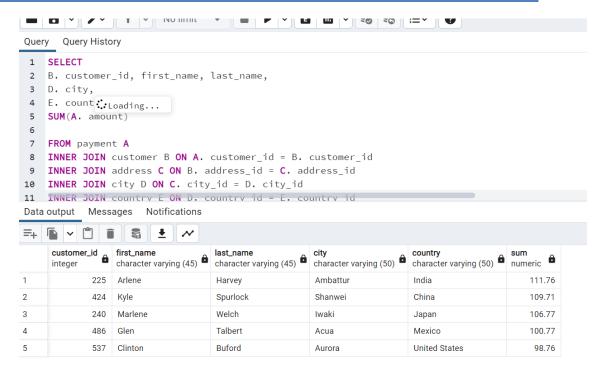
Customer  $\rightarrow$  address  $\rightarrow$  city  $\rightarrow$  country

I just ask for another column (city), and introduce a filter to just make the consult with a limit number of countries, so the answer should be faster

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:

Total Amount Paid.
Customer ID,
Customer First Name and Last Name,
Country,
City,



## SFI FCT

B. customer\_id, first\_name, last\_name,

D. city,

E. country,

SUM(A. amount)

## FROM payment A

INNER JOIN customer B ON A. customer\_id = B. customer\_id

INNER JOIN address C ON B. address\_id = C. address\_id

INNER JOIN city D ON C. city\_id = D. city\_id

INNER JOIN country E ON D. country\_id = E. country\_id

WHERE D. city IN ('Aurora', 'So Leopoldo', 'Tianjin', 'Ambattur', 'Shanwei', 'Citrus Heights', 'Iwaki', 'Hami', 'Laredo', 'Acua' )

GROUP BY B. customer\_id, first\_name, last\_name, D. city, E. country ORDER BY SUM(A. amount) DESC LIMIT 5

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

4. Save your "Answers 3.7" document as a PDF and upload it here for your tutor to review.