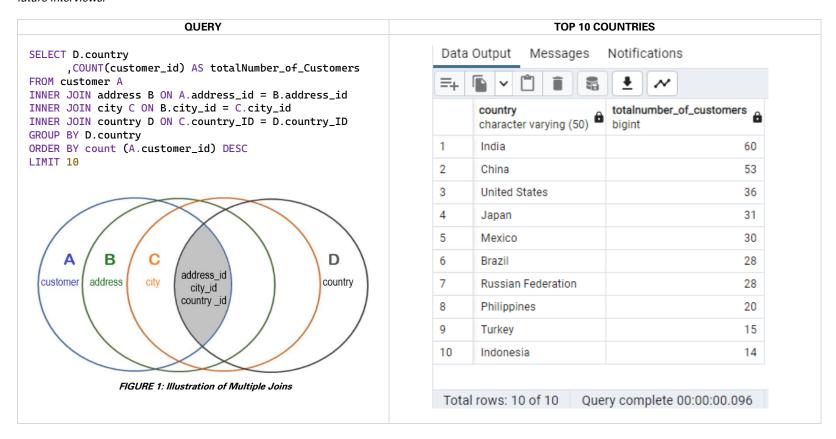
In this Task you'll get to practice everything you learned in the Exercise. Said simply, you'll need to write a couple of queries combined with joins between the tables address, country, city, customer and payment using their common keys. Create a new text document and call it "Answers 3.7." You'll save your gueries, outputs and written answers in this document, as you've done in previous tasks.

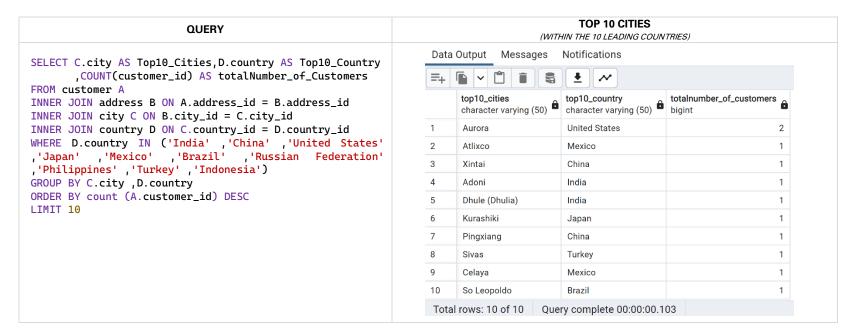
- 1. Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)
 - > Copy-paste your query and its output into your answers document.
 - > Write a few sentences on how you approached this query and why. It's important that you can explain your thought process when writing queries, especially for future interviews.



Using the ERD as part of formulating the syntax for this query, I linked each table as such by identifying first its common keys (*Fig. 1*). To present the Top 10 Countries, I began to search countries through country table D then, linking the following: address_id though A & B, city_id in B & C and country on C & D. The total number of customers is GROUP BY country in ORDER BY customer_id with total highest count.

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.



With similar to the first question, I then based the script on the previous command but adding WHERE clause and narrowing down Top 10 Cities by executing IN operator retrieval within the top 10 countries. The total number of customers is GROUP BY city and country in ORDER BY customer_id with total highest count.

And polishing the results with appropriate column names for easy interpretation.

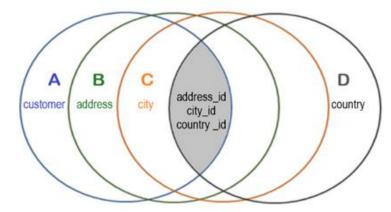
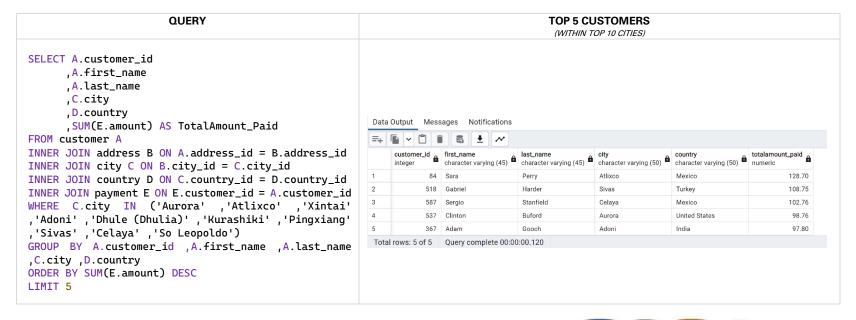


FIGURE 1: Illustration of Multiple Joins

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



To disclose the top 5 customers, the results must display several columns: custumer_id, first_name, last_name, city, country, total amount paid by executing SELECT query from customer, city, country and payment tables. I then, integrate the INNER JOIN syntax to include values. The relevant data points will be pulled from the top 10 cities (which was the previous search) and GROUP BY city and country in ORDER BY the highest total amount paid.

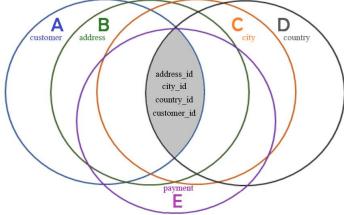


FIGURE 2: Illustration of Multiple Joins