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Exercise 3.7

Joins

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.)

Table

Description automatically generated

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.

*First, I looked at what I needed, the countries with the highest number of customers. Then I looked at the tables and tracked from the customer table to the country table- this query would involve joining 4 tables. Since I only need a small amount of information from the tables- customer count and country, I deduced I would need an inner join. I then looked at how to connect the tables with the same columns, noting each table and the table it connected with, and followed that through: address\_id-->city\_id-->country\_id. I joined the tables based on these like columns, then knowing I wanted the customers grouped by country, but the top amount, I ordered in descending order, and limited my search to 10 which returned the list above.*

Write a query to find the top 10 cities within the top 10 countries identified in step 1.

Table

Description automatically generated with low confidence

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

*This one took me a little bit, only because I wasn’t initially sure how to proceed. I knew I had to follow the same path as the previous answer, but then was confused as to how to get the city information- I tend to overthink things. I originally thought I would have to do a left join to get the information from the table to the left of the country, but then that didn’t seem right. I did a little google research and found that I could add several values to the initial SELECT portion of the query and then used the same format to get the information. Once I got the information, I knew I wanted to order it by City and count of that city, so used the GROUP BY and ORDER BY function to achieve this.*

1. 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.

Table

Description automatically generated

THIS took me awhile- I had a bit of issue with the where clause and the ambiguous customer\_id number! I hope google was right- but I was able to figure it out- although it was a little bit of trial and error- which I am assuming happens to everyone in the beginning of using SQL?