3.7 Answers

REMINDER:  
You know by now that a database can hold multiple tables. In the Rockbuster case you have this too! If you want a reminder what tables are included in the database and how they’re called, simply execute this query and look in the column “tablename”:

SELECT \* FROM pg\_catalog.pg\_tables

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.)
   1. Copy-paste your query and its output into your answers document.
   2. 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.

Table

Description automatically generated with medium confidence

The first thing I did was get the ERD and figure out how things connected and how I wanted to structure my query. The goal was to find the number of customers in the top ten countries. This is why I selected from country and asked for the count of customer id’s and renamed it as number of customers. I then needed to join the four tables customer, address, city, and country and group by country ordering them by count in a descending order. I also asked SQL to only show me the top 10, and voila, we have our answer.

1. Write a query to find the top 10 cities within the top 10 countries identified in step 1.
   1. Copy-paste your query and its output into your answers document.
   2. Write a short explanation of how you approached this query and why.

Table

Description automatically generated

This query was very similar to the last one, except this time I also wanted to know what the top cities were within the top 10 countries. I figured this out by selecting city and country to count the customer id in. I again renamed this as number of customers. I joined the same tables together again. The main difference was that this time I had to include where to look by asking SQL to look for the customer count in the specific countries we found to be the 10 ten in the last exercise. I then grouped them by city and country this time, then organized them in descending order and limited it to the top ten. VIOLA

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

Graphical user interface

Description automatically generated with medium confidence