3.7 Answers

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.

Graphical user interface, text, application

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I started of by using my data visualization tool to display my schema. Next, the schema was used to identify primary keys and foreign keys that connected the tables. From here I began to write my query in pgadmin 4. There were 4 different tables that needed to be inner joined to connect the customer\_id and the country tables and retrieve the information needed to answer Rockbuster’s co answer.

1. 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.

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First, the city column and an alias were added to the SELECT function. Then, a WHERE clause was used after the INNER JOIN function to specify what exactly states were going to be used. Using this clause also helps with optimization of the query which can combat high querying cost and give faster querying speeds. From here, city column was added to the GROUP BY function and the script was finished.

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

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