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Data Immersion 3.7

Joining Tables of Data

**1.**

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I started my approach to this query by looking at the database schema to find out how the country table would join with the customer table. I noticed that there was no shared key so it would require multiple joins. I then made the necessary joins, referencing the multiple join example from the 3.7 read. After that I introduced a GROUP BY for country and ORDER BY COUNT for the customer ID to get a count of how many customers each country held. As only the top 10 were requested, a LIMIT 10 finished up the query.

**2.   
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I started my approach to this query by using the query from the previous question. Since I now needed to find the top 10 cities within those countries, I looked at how the city table was connected in the schema. I saw that like before I’d need to join customer to address, then to city, and finally to country. I reused the same multiple join pattern and added a list of the top 10 countries in the WHERE clause. After that, I grouped by both city and country, then ordered by customer count using COUNT on the customer ID. I finished the query with a LIMIT 10 to show just the top cities overall.  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
**3.**   
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