Tableau Visualization Project

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Project Flow

For Option 2

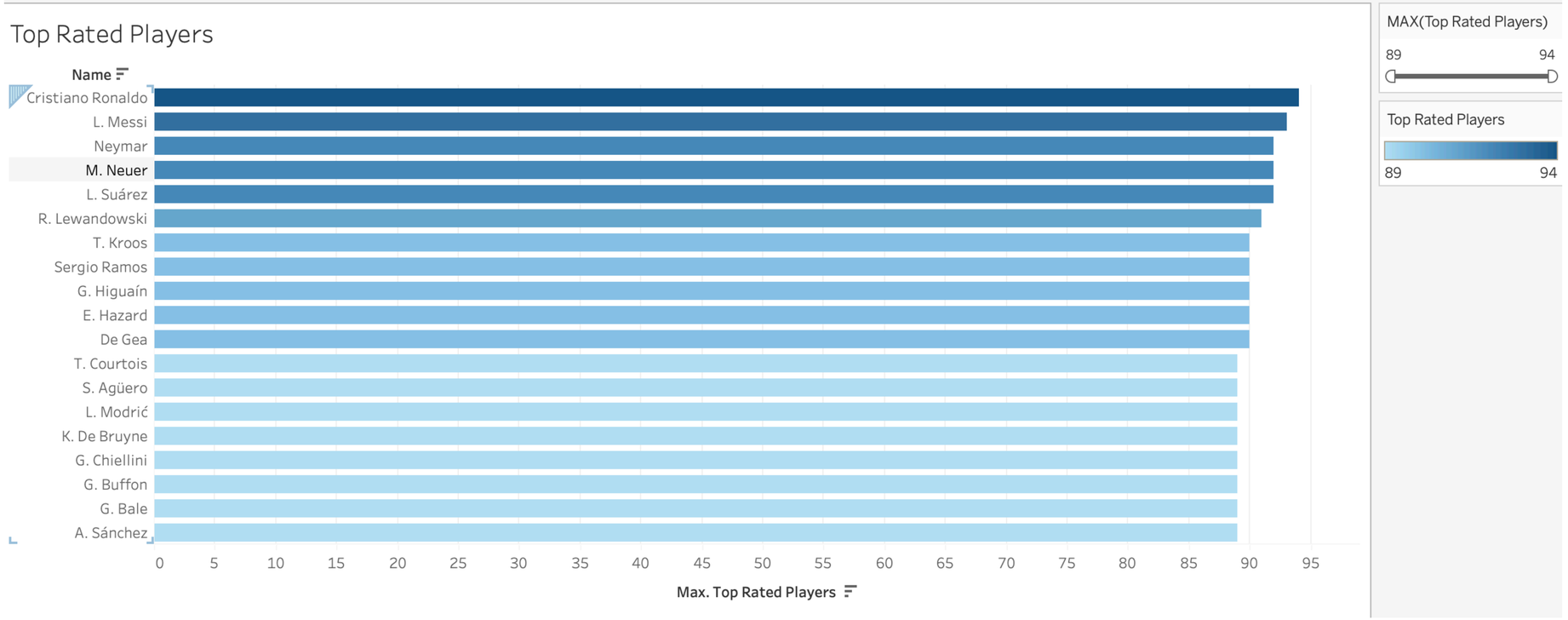
- To select a dataset to uses for visualizations
- Use the selected dataset to create at least 5 different visualizations that could to used to answer questions and gain insights on the data
- To create a dashboard from these visualizations to present the insights

Dataset and Visualizations

- The FIFA 18 player ratings dataset was chosen
- 5 different visualizations were created that could be used to answer the main data questions of “What can the data tell us about the professional football players and the best footballing nations?” And to also gain insight on the data
- The visualizations and insights gained are displayed on the following slides

Top Rated Players

Highest overall rated players in the game



This bar graph shows the top rated players in the game (89 overall or higher since the highest possible overall is 99) sorted by colour and filtered by the overall rating. This gives quick insight on who the best players in the game are and how their rating differs between the other top players.

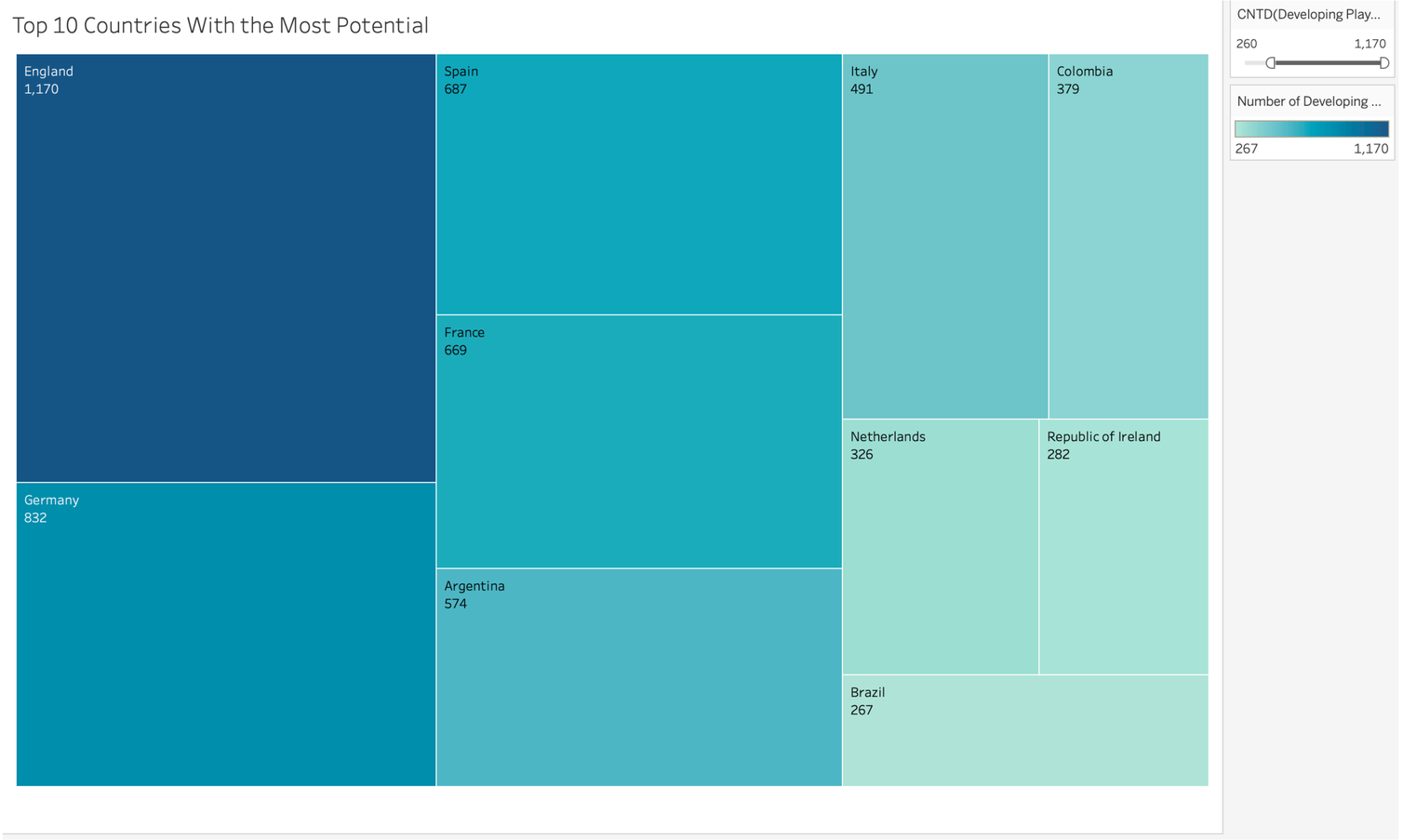
Players by Country

Shows the number of players from each nation

This map chart shows the amount of professional football players from each country in FIFA 18 sorted by colour and filtered by the amount of players per nation, and each country can be clicked on to see the specific amount players for each applicable country. This gives quick insight on which nations have the most professional players and are therefore the best footballing nations in FIFA 18

Top 10 Countries with the Most Potential

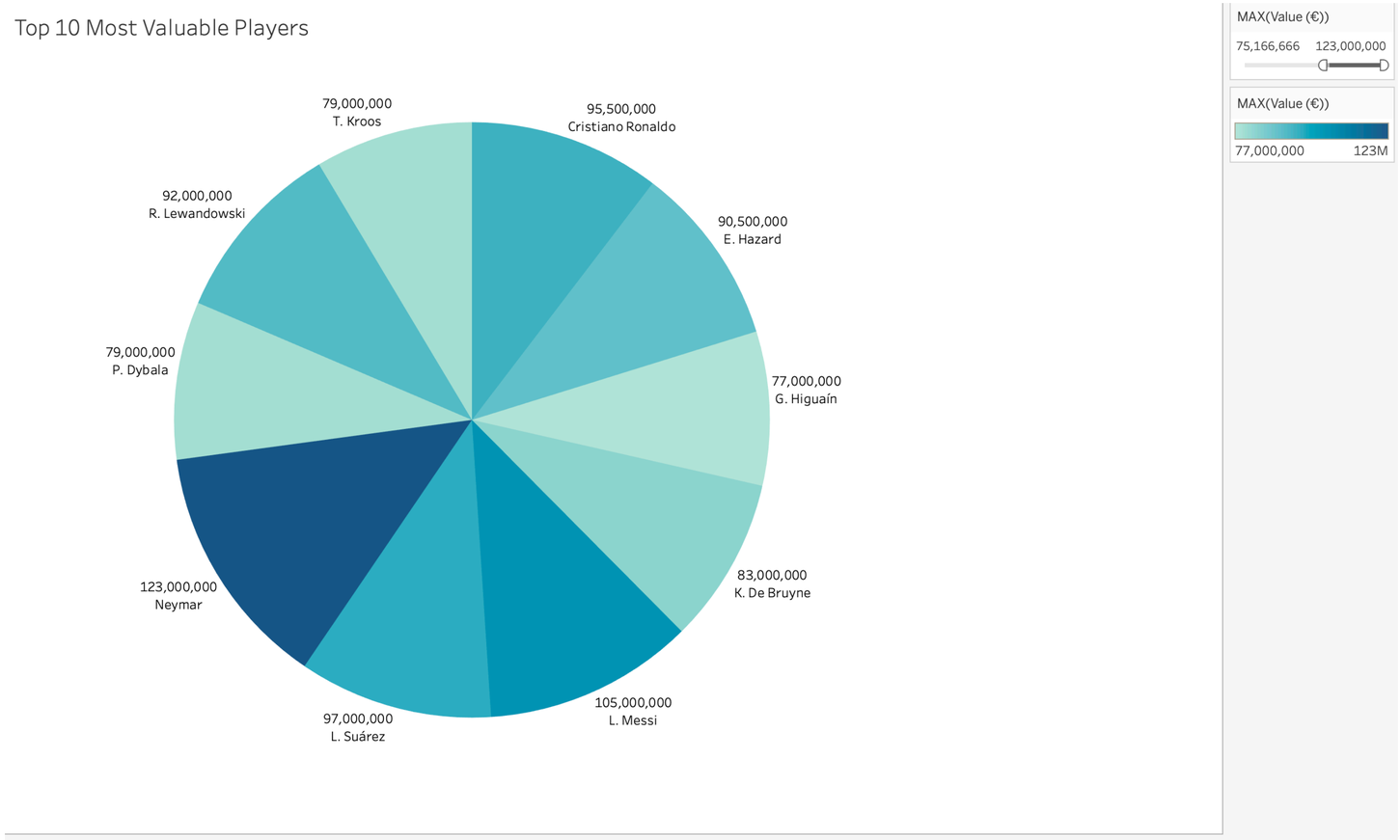
Shows the top 10 nations with the most number of young developing players



This tree-map shows the top 10 countries that have the most amount of developing players (players who's overall rating is less than their potential, all of these are the young developing players who have not hit their prime yet) sorted by colour and filtered by the amount of developing players. This gives quick insight on which nations have the most amount of potential in football, and are therefore the best football developing nations.

Top 10 Most Valuable Players

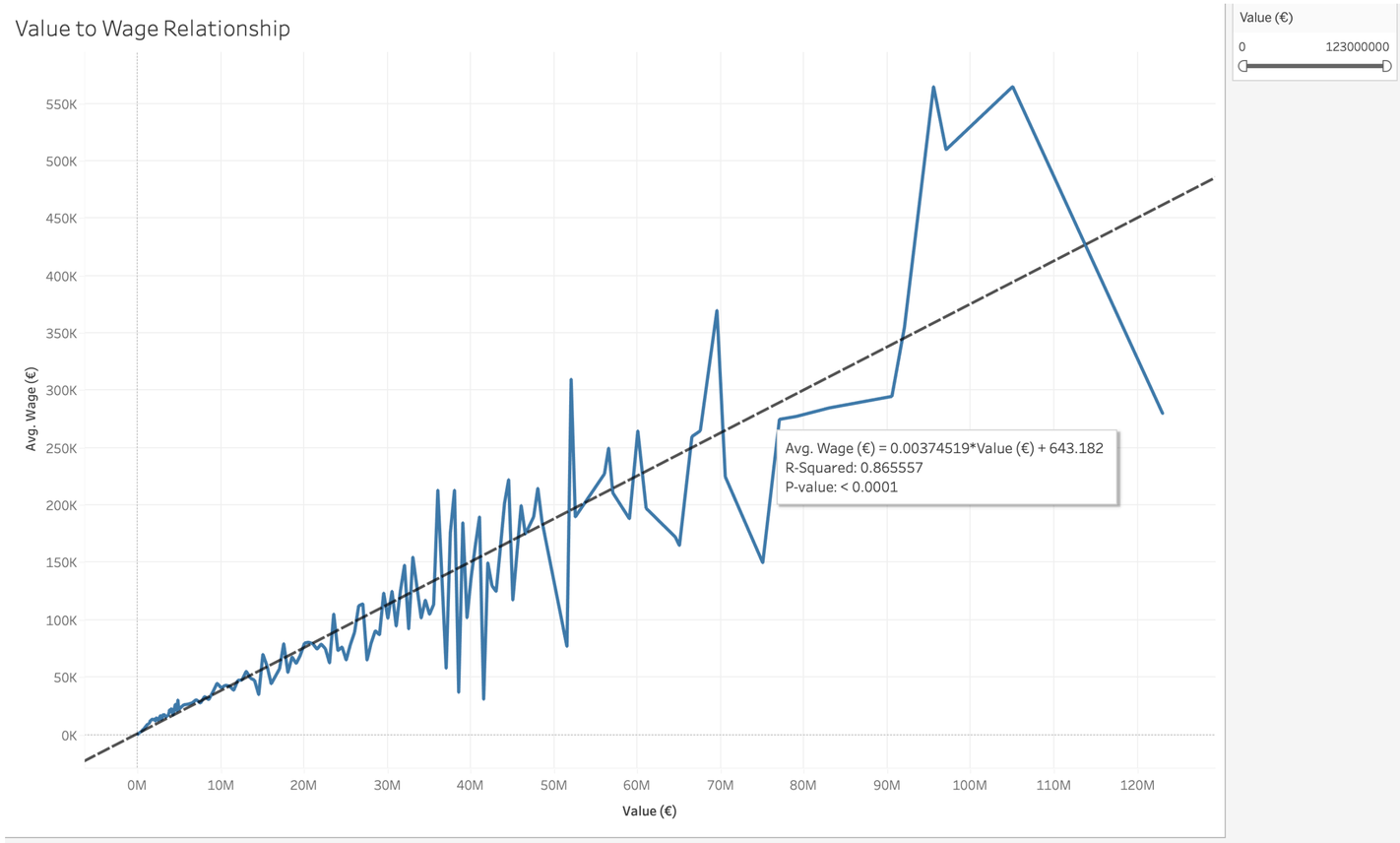
Shows the top 10 players in terms of monetary value (in Euros)



This pie chart shows the top 10 most valuable players in the world in the FIFA 18 (the amount monetary value a player has to a club), sorted by colour and filtered by the maximum value of the player. This gives quick insight on which players have the highest amount of monetary value to a club in football, and how much a club is willing to pay for such players.

Value to Wage Relationship

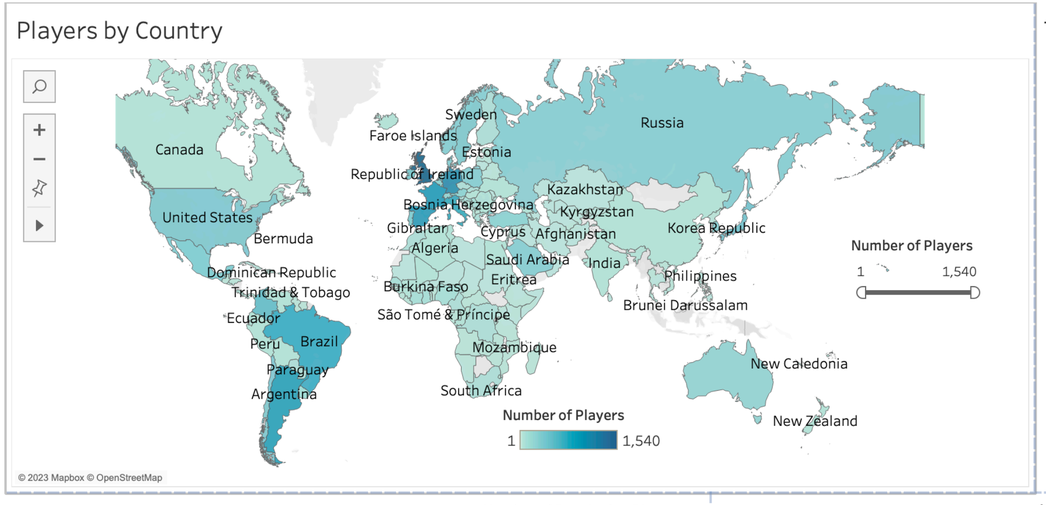
Shows the relationship between a players value to a club and their actual weekly wage

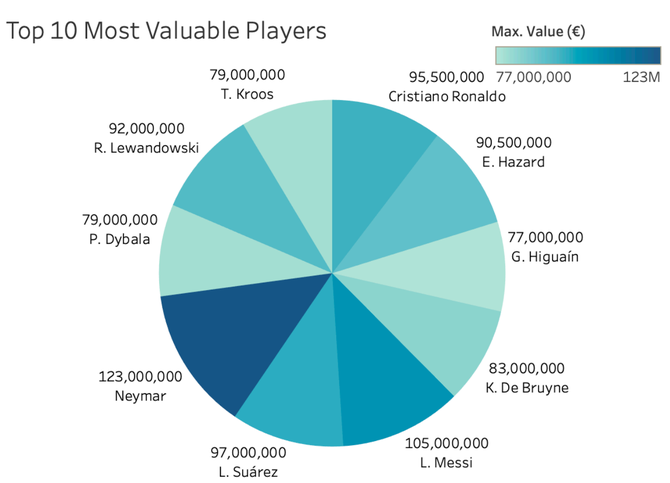


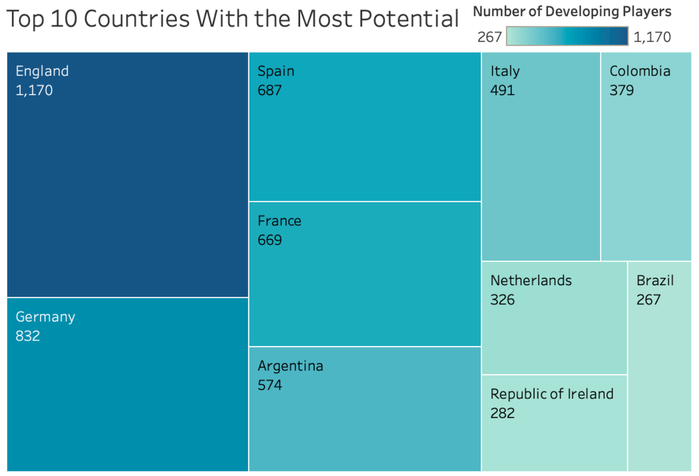
This line graph shows the relationship between how valuable a player is to a club (the amount a club is willing to pay to acquire the player) and the average weekly wage the players of that value gets paid, filtered by the value of the player. This gives quick insight on which type of relationship the value of a player has to the wage (which is a very good linear relationship, which the linear regression line having a R-Squared value of 0.866), and shows what the fair wage of a player should be based on how valuable they are to a club.

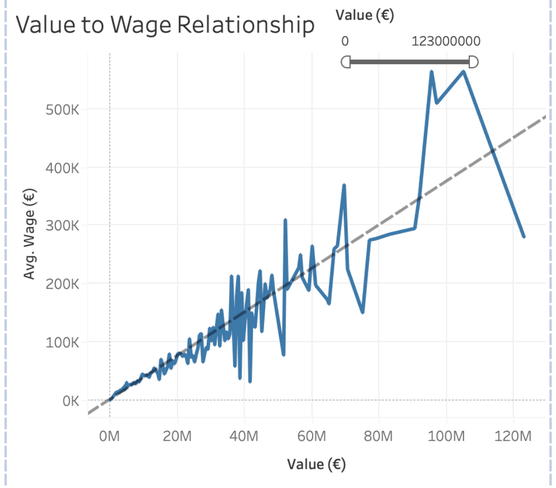
FIFA 18 Dashboard

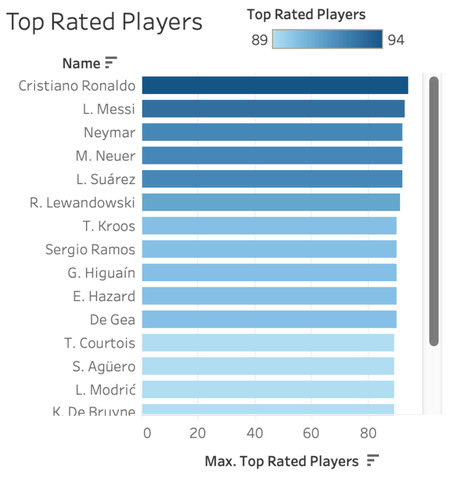
Resulting interactive dashboard from the 5 visualizations where the map chart can be used to filter information on all the other charts











Biggest Challenge

The biggest challenge in this project was that in order to create a map, the data type of the "nationality" column had to be transformed the role of "country/region", but Tableau public does not specify the U.K countries (England, Scotland, Wales, and Northern Ireland) as their own countries, and can only group them into the entire region of the United Kingdom, and the geographical role of "NUTS Europe" couldn't be used since there were players from all over the world, and not just one region.

If i had more time, i would try to find a workaround to the geographical role issue to try and display each U.K country separately on the map, or go back and manipulate the data set so that all the countries would match properly in Tableau so each country would be displayed properly.

Thank you