The Final Paper

November 4, 2022

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[1]: import pandas as pd
     import seaborn as sns
     import matplotlib.pyplot as plt
```
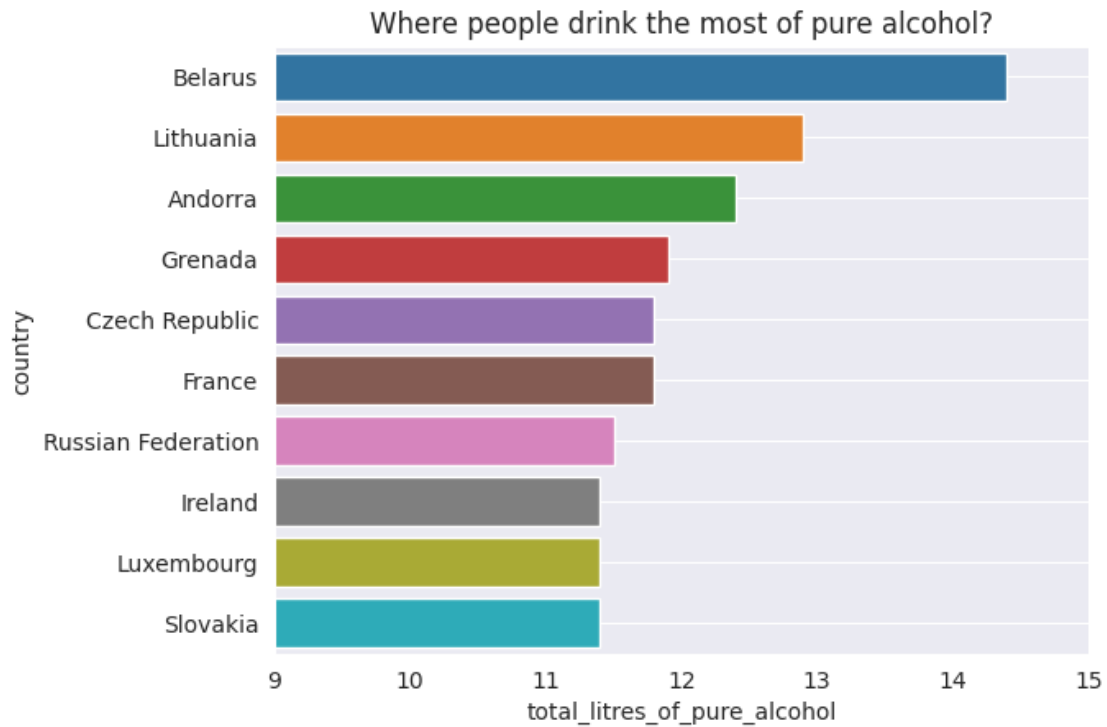
```
[2]: top_10_divided = pd.read_csv('../analysis_data/
       ↪top_10_countries_divided_by_types_of_alcohol.csv')
     top_10_total = pd.read_csv('../analysis_data/top_10_countries_pure_alcohol.csv')
     melted_top_5_total = pd.read_csv('../analysis_data/top_5_countries_all_alcohols.
       ↪csv')
     sum_all = pd.read_csv('../analysis_data/sum_of_different_alcohol_servings.csv')
```

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[58]: fig = plt.figure(figsize = (20, 5))
      ax = fig.add_subplot(111)
      tab = plt.table(cellText = top_10_divided.values[:, 1:],
              rowLabels = top_10_divided.index+1,
              colLabels = ['Country','Beer Servings','Country','Spirit␣
        ↪Servings','Country','Wine Servings'],
              colWidths = [2]*7,
              bbox=[0, -1, 1, 2],
              )
      tab.auto_set_font_size(False)
      tab.set_fontsize(16)
      ax.set_title("Who drinks the most beer, spirits and wine?", fontsize=30)
      ax.axis("off")
      plt.show()
```
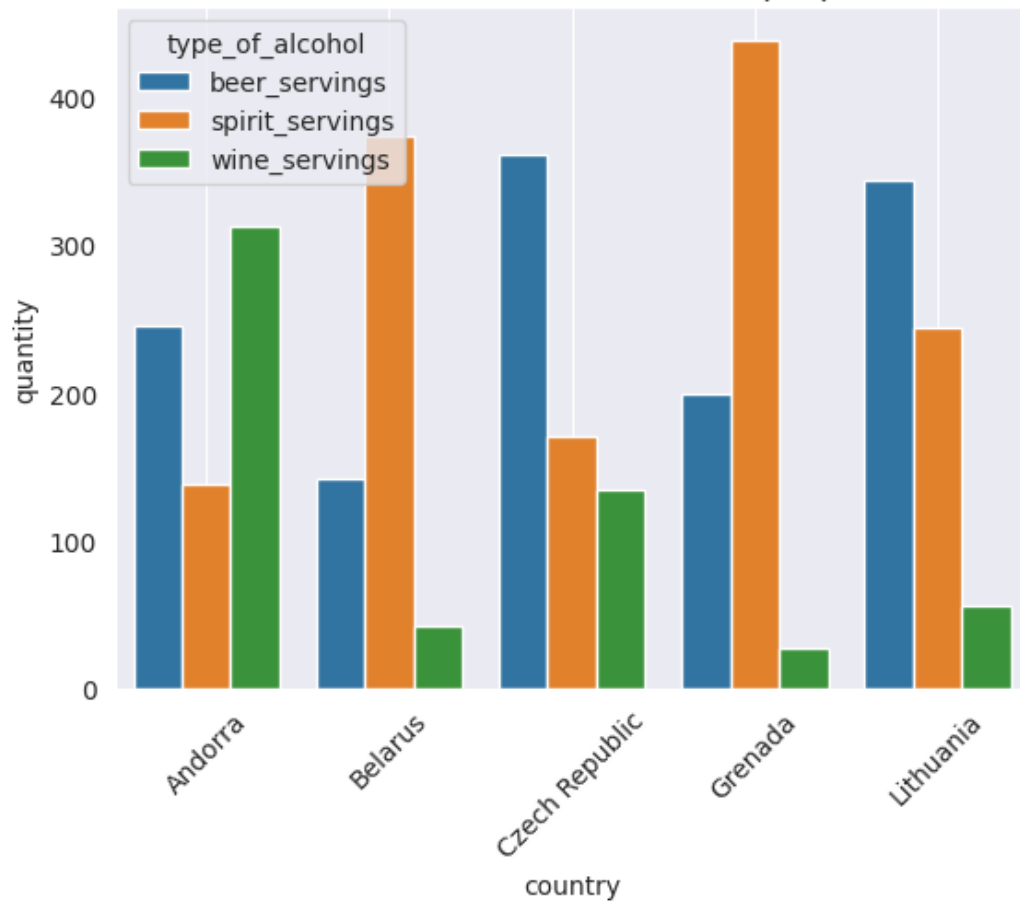
Who drinks the most beer, spirits and wine?

	Country	Beer Servings	Country	Spirit Servings	Country	Wine Servings
1	Namibia	376	Grenada	438	France	370
2	Czech Republic	361	Belarus	373	Portugal	339
3	Gabon	347	Haiti	326	Andorra	312
4	Germany	346	Russian Federation	326	Switzerland	280
5	Lithuania	343	St. Lucia	315	Denmark	278
6	Poland	343	Guyana	302	Slovenia	276
7	Venezuela	333	Slovakia	293	Luxembourg	271
8	Ireland	313	Dominica	286	Croatia	254
9	Palau	306	Thailand	258	Italy	237
10	Romania	297	Cook Islands	254	Equatorial Guinea	233

```
[4]: sns.barplot(data=top_10_total,
                 x='total_litres_of_pure_alcohol',
                 y='country',
                 orient='h')
     plt.title('Where people drink the most of pure alcohol?')
     plt.xlim([9, 15])
     plt.grid()
     plt.show()
```

Where people drink the most of pure alcohol?
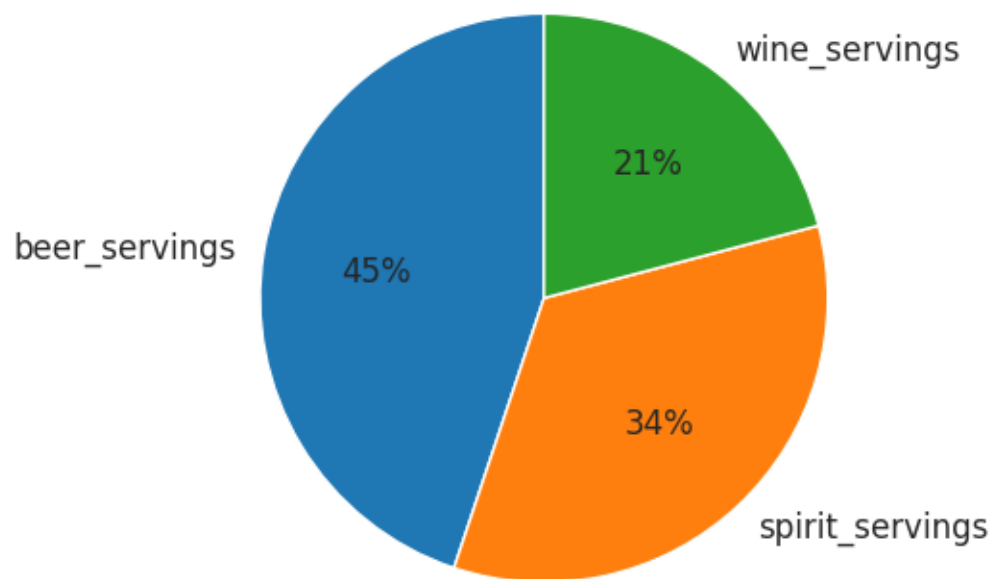


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[5]: sns.barplot(data=melted_top_5_total,
             x='country',
             y='quantity',
             hue='type_of_alcohol')
     plt.xticks(rotation=45)
     plt.grid()
     plt.title('Which alcohols are drunk in 5 countries where people drink the most')
     plt.show()
```

Which alcohols are drunk in 5 countries where people drink the most


```
[6]: plt.pie(sum_all.values.tolist()[0][1:],
         labels=sum_all.columns.tolist()[1:],
         autopct='%.0f%%',
         textprops={'size': 'larger'},
         startangle=90)
     plt.title('Sum of drunk alcohol servings around the world')
     plt.show()
```

Sum of drunk alcohol servings around the world