In [31]:	pip install pycountry  Requirement already satisfied: pycountry in c:\users\lucky computers\anaconda3\lib\site-packages (22.3.5)  Requirement already satisfied: setuptools in c:\users\lucky computers\anaconda3\lib\site-packages (from pycountry) (58.0.4)  Note: you may need to restart the kernel to use updated packages.
In [32]:	Requirement already satisfied: plotly in c:\users\lucky computers\anaconda3\lib\site-packages (5.11.0) Requirement already satisfied: tenacity>=6.2.0 in c:\users\lucky computers\anaconda3\lib\site-packages (from plotly) (8.1.0) Note: you may need to restart the kernel to use updated packages.  1. import important libraries
In [33]:	<pre>import numpy as np import pandas as pd import seaborn as sns import matplotlib.pyplot as plt %matplotlib inline import warnings import pycountry import plotly.express as px import plotly.graph_objs as go</pre> warnings.filterwarnings('ignore')
In [34]: In [35]:	<pre>sns.set_style('darkgrid')  2. Read the dataset  data_set = pd.read_csv("C:/Users/Lucky Computers/Downloads/Billionaire.csv")  data_set</pre>
Out[35]:	Name NetWorth Country Source Rank Age Industry  O Jeff Bezos \$177 B United States Amazon 1 57.0 Technology  1 Elon Musk \$151 B United States Tesla, SpaceX 2 49.0 Automotive  2 Bernard Arnault & family \$150 B France LVMH 3 72.0 Fashion & Retail  3 Bill Gates \$124 B United States Microsoft 4 65.0 Technology  4 Mark Zuckerberg \$97 B United States Facebook 5 36.0 Technology
	2750 Daniel Yong Zhang \$1 B China e-commerce 2674 49.0 Technology 2751 Zhang Yuqiang \$1 B China Fiberglass 2674 65.0 Manufacturing 2752 Zhao Meiguang \$1 B China gold mining 2674 58.0 Metals & Mining 2753 Zhong Naixiong \$1 B China conglomerate 2674 58.0 Diversified 2754 Zhou Wei family \$1 B China Software 2674 54.0 Technology 2755 rows × 7 columns
In [36]:	<pre>data_set.info()  <class 'pandas.core.frame.dataframe'=""> RangeIndex: 2755 entries, 0 to 2754  Data columns (total 7 columns):     # Column Non-Null Count Dtype</class></pre>
In [37]:	3 Source 2755 non-null object 4 Rank 2755 non-null int64 5 Age 2676 non-null float64 6 Industry 2755 non-null object dtypes: float64(1), int64(1), object(5) memory usage: 150.8+ KB  3. Statistical Summary  data_set.describe()
Out[37]:	Rank         Age           count         2755.000000         2676.000000           mean         1345.663521         63.113602           std         772.669811         13.445153           min         1.000000         18.000000           25%         680.00000         54.00000           50%         1362.000000         63.000000
In [38]: Out[38]:	75% 2035.00000 73.00000  max 2674.00000 99.00000  data_set.head(10)  Name NetWorth Country Source Rank Age Industry  0 Jeff Bezos \$177 B United States Amazon 1 57.0 Technology
	1Elon Musk\$151 BUnited StatesTesla, SpaceX249.0Automotive2Bernard Arnault & family\$150 BFranceLVMH372.0Fashion & Retail3Bill Gates\$124 BUnited StatesMicrosoft465.0Technology4Mark Zuckerberg\$97 BUnited StatesFacebook536.0Technology5Warren Buffett\$96 BUnited StatesBerkshire Hathaway690.0Finance & Investments6Larry Ellison\$93 BUnited StatesSoftware776.0Technology7Larry Page\$91.5 BUnited StatesGoogle848.0Technology8Sergey Brin\$89 BUnited StatesGoogle947.0Technology
In [39]: Out[39]:	2750 Daniel Yong Zhang \$1 B China e-commerce 2674 49.0 Technology 2751 Zhang Yuqiang \$1 B China Fiberglass 2674 65.0 Manufacturing
In [40]: Out[40]:	2753 Zhong Naixiong \$1 B China conglomerate 2674 58.0 Diversified 2754 Zhou Wei family \$1 B China Software 2674 54.0 Technology  data_set.shape (2755, 7)
In [41]: Out[41]:	4. Checking null values  data_set.isnull().sum()  Name
In [42]: Out[42]:	
In [43]:	6. Create a new dataframe:  To creating one group from a grouped object  billionaire_df = pd.DataFrame()  for c in data_set.Country.unique():     df_ = data_set.groupby("Country").get_group(c)     df2_ = pd.DataFrame(("country":[c],"total_Billionaire":[len(df_)]})     billionaire_df = billionaire_df.append(df2_, ignore_index=True)  billionaire_df = billionaire_df.sort_values("total_Billionaire", ascending=False)  df_ = billionaire_df.set_index('country')  for c in dfindex:     code = [value.alpha_3 for value in pycountry.countries if (value.name==c)]     if len(code)==0:         dfat[c,"iso_alpha"]= None         dfat[c,"iso_alpha"]= code[0]         dfat[c,"iso_alpha"]= code[0]         dfat[c,"Country Name"]= c
Out[43]:	total_Billionaire iso_alpha Country Name country  United States 724 USA United States China 626 CHN China India 140 IND India  Germany 136 DEU Germany
In [44]: Out[44]:	total_Billionaire 0 iso_alpha 8 Country Name 0
In [45]: In [46]: Out[46]:	<pre>dtype: int64  a = dfgroupby('country')['total_Billionaire']  a.head()  country United States</pre>
In [47]:	Germany 136 Russia 118  Venezuela 1 Eswatini (Swaziland) 1 Algeria 1 Liechtenstein 1 Nepal 1 Name: total_Billionaire, Length: 70, dtype: int64  for i, j in a:     print(i, j)
	Algeria country Algeria 1 Name: total_Billionaire, dtype: int64 Argentina country Argentina 5 Name: total_Billionaire, dtype: int64 Australia country Australia 44 Name: total_Billionaire, dtype: int64 Austria country Austria country Austria country Austria country Austria 12
	Name: total_Billionaire, dtype: int64 Belgium country Belgium 3 Name: total_Billionaire, dtype: int64 Brazil country Brazil 65 Name: total_Billionaire, dtype: int64 Canada country Canada 64 Name: total_Billionaire, dtype: int64 Chile country Chile 9
	Name: total_Billionaire, dtype: int64 China country China 626 Name: total_Billionaire, dtype: int64 Colombia country Colombia 5 Name: total_Billionaire, dtype: int64 Cyprus country Cyprus 5 Name: total_Billionaire, dtype: int64 Czechia country Czechia 9
	Name: total_Billionaire, dtype: int64 Denmark country Denmark 10 Name: total_Billionaire, dtype: int64 Egypt country Egypt 6 Name: total_Billionaire, dtype: int64 Eswatini (Swaziland) country Eswatini (Swaziland) 1 Name: total_Billionaire, dtype: int64 Finland country Finland 7 Name: total_Billionaire, dtype: int64
	France country France 42 Name: total_Billionaire, dtype: int64 Georgia country Georgia 2 Name: total_Billionaire, dtype: int64 Germany country Germany 136 Name: total_Billionaire, dtype: int64 Greece country Greece 4 Name: total_Billionaire, dtype: int64
	Guernsey country Guernsey 1 Name: total_Billionaire, dtype: int64 Hong Kong country Hong Kong 71 Name: total_Billionaire, dtype: int64 Hungary country Hungary 2 Name: total_Billionaire, dtype: int64 Iceland country Iceland 2 Name: total_Billionaire, dtype: int64
	India country India 140 Name: total_Billionaire, dtype: int64 Indonesia country Indonesia 21 Name: total_Billionaire, dtype: int64 Ireland country Ireland 9 Name: total_Billionaire, dtype: int64 Israel country Israel 25 Name: total_Billionaire, dtype: int64
	Italy 51 Name: total_Billionaire, dtype: int64 Japan country Japan 49 Name: total_Billionaire, dtype: int64 Kazakhstan country Kazakhstan 5 Name: total_Billionaire, dtype: int64 Lebanon country Lebanon 6 Name: total_Billionaire, dtype: int64
	Liechtenstein country Liechtenstein 1 Name: total_Billionaire, dtype: int64 Macao country Macao 1 Name: total_Billionaire, dtype: int64 Malaysia country Malaysia 17 Name: total_Billionaire, dtype: int64 Mexico country Mexico 13 Name: total_Billionaire, dtype: int64
	Monaco country Monaco 3 Name: total_Billionaire, dtype: int64 Morocco country Morocco 2 Name: total_Billionaire, dtype: int64 Nepal country Nepal 1 Name: total_Billionaire, dtype: int64 Netherlands country Netherlands 12 Name: total_Billionaire, dtype: int64 New Zealand country
	New Zealand 2 Name: total_Billionaire, dtype: int64 Nigeria country Nigeria 3 Name: total_Billionaire, dtype: int64 Norway country Norway 12 Name: total_Billionaire, dtype: int64 Oman country Oman 1 Name: total_Billionaire, dtype: int64 Peru country
	Peru 6 Name: total_Billionaire, dtype: int64 Philippines country Philippines 17 Name: total_Billionaire, dtype: int64 Poland country Poland 8 Name: total_Billionaire, dtype: int64 Portugal country Portugal 2 Name: total_Billionaire, dtype: int64 Qatar country
	Qatar 2 Name: total_Billionaire, dtype: int64 Romania country Romania 2 Name: total_Billionaire, dtype: int64 Russia country Russia 118 Name: total_Billionaire, dtype: int64 Singapore country Singapore 27 Name: total_Billionaire, dtype: int64 Slovakia country
	Slovakia 2 Name: total_Billionaire, dtype: int64 South Africa country South Africa 5 Name: total_Billionaire, dtype: int64 South Korea country South Korea 43 Name: total_Billionaire, dtype: int64 Spain country Spain 30 Name: total_Billionaire, dtype: int64 St. Kitts and Nevis country St. Kitts and Nevis 1
	Name: total_Billionaire, dtype: int64 Sweden country Sweden 41 Name: total_Billionaire, dtype: int64 Switzerland country Switzerland 40 Name: total_Billionaire, dtype: int64 Taiwan country Taiwan 47 Name: total_Billionaire, dtype: int64 Tanzania country Tanzania 1
	Name: total_Billionaire, dtype: int64 Thailand country Thailand 31 Name: total_Billionaire, dtype: int64 Turkey country Turkey 27 Name: total_Billionaire, dtype: int64 Ukraine country Ukraine 7 Name: total_Billionaire, dtype: int64 United Arab Emirates country United Arab Emirates 4
	Name: total_Billionaire, dtype: int64 United Kingdom country United Kingdom 56 Name: total_Billionaire, dtype: int64 United States country United States 724 Name: total_Billionaire, dtype: int64 Venezuela country Venezuela 1 Name: total_Billionaire, dtype: int64 Vietnam country Vietnam 6
In [48]:	Name: total_Billionaire, dtype: int64 Zimbabwe country Zimbabwe 1 Name: total_Billionaire, dtype: int64  7. Billioniares From Top Two Country VS Rest of the World  o = sum(billionaire_df.total_Billionaire)-sum(billionaire_df.iloc[:2].total_Billionaire) n = list(billionaire_df.iloc[:2].total_Billionaire) n.append(o)
<pre>In [49]: Out[49]: In [50]: In [51]:</pre>	<pre>1405  c = list(billionaire_df.iloc[:2].country) c.append("Other Country")</pre>
	['United States', 'China', 'Other Country']  8. Visualize tha data  pie chart  plt.figure(figsize=(10,7))
	<pre>plt.style.use("fivethirtyeight") plt.pie(n, labels=c, shadow=True, startangle=90,autopct='%1.1f%%', wedgeprops={'edgecolor':'black'}) plt.tight_layout()</pre> United States
	26.3% 51.0% Other Country
	China
In [53]:	<pre>sns.barplot(y="country", x="total_Billionaire",palette="Blues_d", data=billionaire_df.iloc[:10]) plt.ylabel("") plt.xlabel("Total Number of Billionaire", fontsize=20) plt.ylabel('Country', fontsize=20) plt.show();</pre> <pre>United States</pre>
	China India Germany Russia Hong Kong Brazil Canada
In [54]:	United Kingdom    taly
In [55]:	<pre>fig = px.choropleth(df, locations="iso_alpha", color="total_Billionaire", hover_name="Country Name",</pre>
In [56]:	plt_billionaire(continent="asia", title="Asian Billionaires List")
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In [57]:	plt_billionaire(continent="europe",title="European Billionaires List")
In [58]:	plt_billionaire(continent="south america",title="South American Billionaires List")
In [59]:	<pre>plt_billionaire(continent="north america",title="North American Billionaires List")</pre>
In [60]:	10. World Map by Forbes Billionaires List  plt_billionaire(continent="world",title="Worldwide Billionaires")
In [ ]:	
In [ ]:	