In [1]:

```
import pandas as pd #Data analysis and manipulation
import matplotlib.pyplot as plt #Data visualization
import plotly.offline as py #creates functions both online and offline mode
import plotly.graph_objs as go #tracing objects
import plotly.express as px #easier and faster to create plotly figures
import plotly.io as pio #display the figure using the current default renderer(s)
import csv
```

In [2]:

```
df= pd.read_csv("covid.csv")
```

In [3]:

```
df.columns
```

Out[3]:

```
Index(['Country/Region', 'Continent', 'Population', 'TotalCases', 'NewCases',
       'TotalDeaths', 'NewDeaths', 'TotalRecovered', 'NewRecovered',
       'ActiveCases', 'Serious,Critical', 'Tot Cases/1M pop', 'Deaths/1M pop',
       'TotalTests', 'Tests/1M pop', 'WHO Region', 'iso_alpha'],
      dtype='object')
```

In [4]:

```
df.drop(['NewCases', 'NewDeaths',  'NewRecovered'], axis=1,inplace=True)
```

In [5]:

```
from plotly.figure_factory import create_table
table=create_table(df.head(10), colorscale="blues")
py.iplot(table)
```

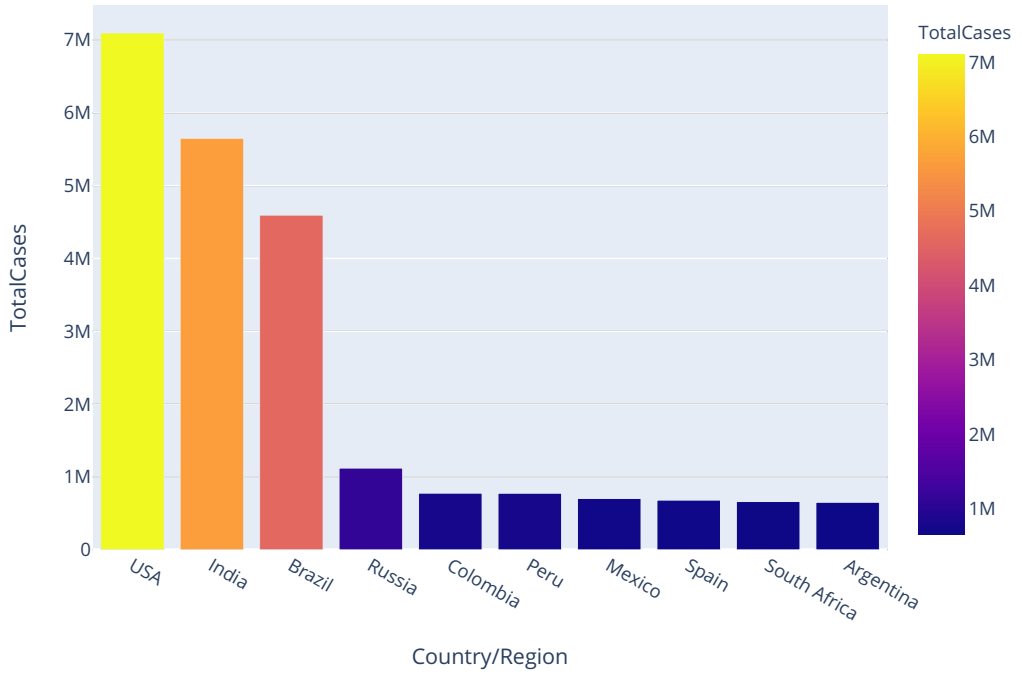
Country/Region	Continent	Population	TotalCases	TotalDeaths	TotalRecovered	ActiveCases	Serious,Critical	Tot Cases/1M pop	Deaths/1M pop	TotalTests	Tests/1M pop	WHO Region	iso_alpha
USA	North America	331198130	3098291	205491.0	434717.0	2292707.0	18296.0	15194.0	492.0	63139605	190640.0	Americas	USA
Brazil	South America	212710692	1925335	138159.0	3945627.0	1771258.0	8318.0	13716.0	464.0	13206186	62085.0	Americas	BRA
India	Asia	1381344997	967000	90077.0	4587613.0	606387.0	8944.0	1466.0	30.0	22149351	16035.0	South-East Asia	IND
Russia	Europe	145940924	1422241	19799.0	923699.0	180931.0	2300.0	5974.0	100.0	29716902	203623.0	Europe	RUS
South Africa	Africa	59381566	663282	16118.0	592904.0	141264.0	539.0	9063.0	162.0	3149807	53044.0	Africa	ZAF
Mexico	North America	129066176	705263	74348.0	506732.0	103325.0	3987.0	3585.0	391.0	1056915	8189.0	Americas	MEX
Peru	South America	32971846	776546	31586.0	629094.0	124648.0	1426.0	13793.0	619.0	2493429	75521.0	Americas	PER
Chile	South America	19116201	441438	12321.0	423176.0	16614.0	1358.0	19165.0	517.0	1760615	92022.0	Americas	CHL
Colombia	South America	50936629	277537	24570.0	650801.0	153416.0	1493.0	7023.0	234.0	1801835	35374.0	Americas	COL
Spain	Europe	46756648	682267	30904.0	nan	nan	617.0	7582.0	610.0	7064329	151087.0	Europe	ESP

Bar graph -

Total Cases vs Countries

In [6]:

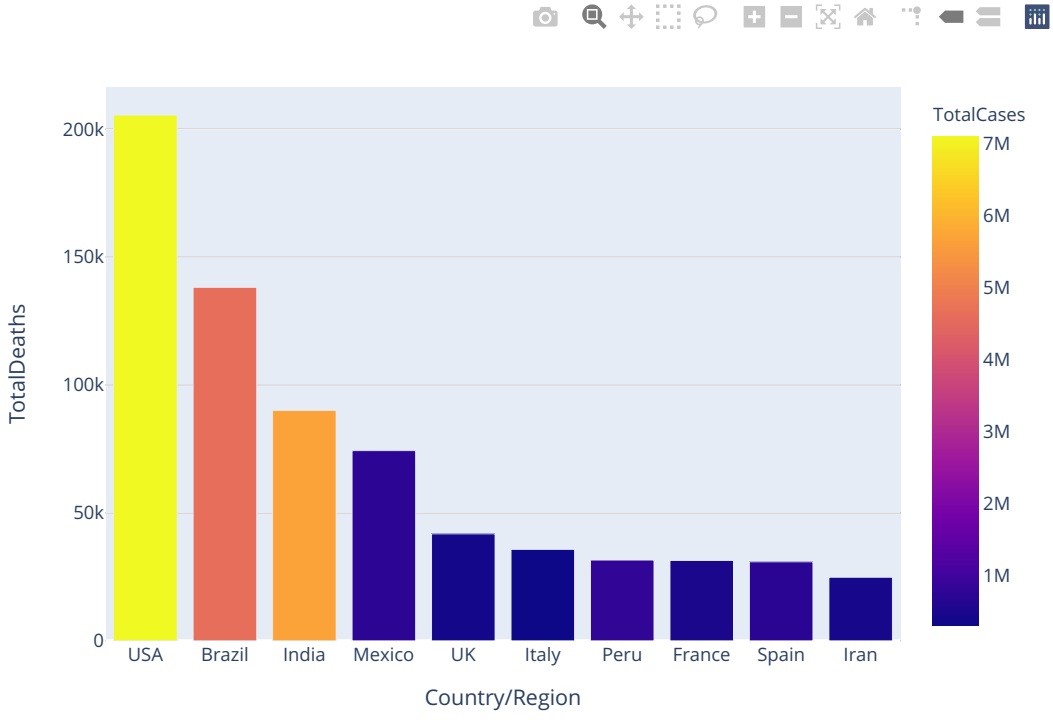
```
df=df.sort_values('TotalCases',ascending=False)
px.bar(df.head(10), x='Country/Region', y='TotalCases', color='TotalCases', height=500, hover_data=['Country/Region', 'Continent'])
```



Total Cases vs Total Deaths

In [7]:

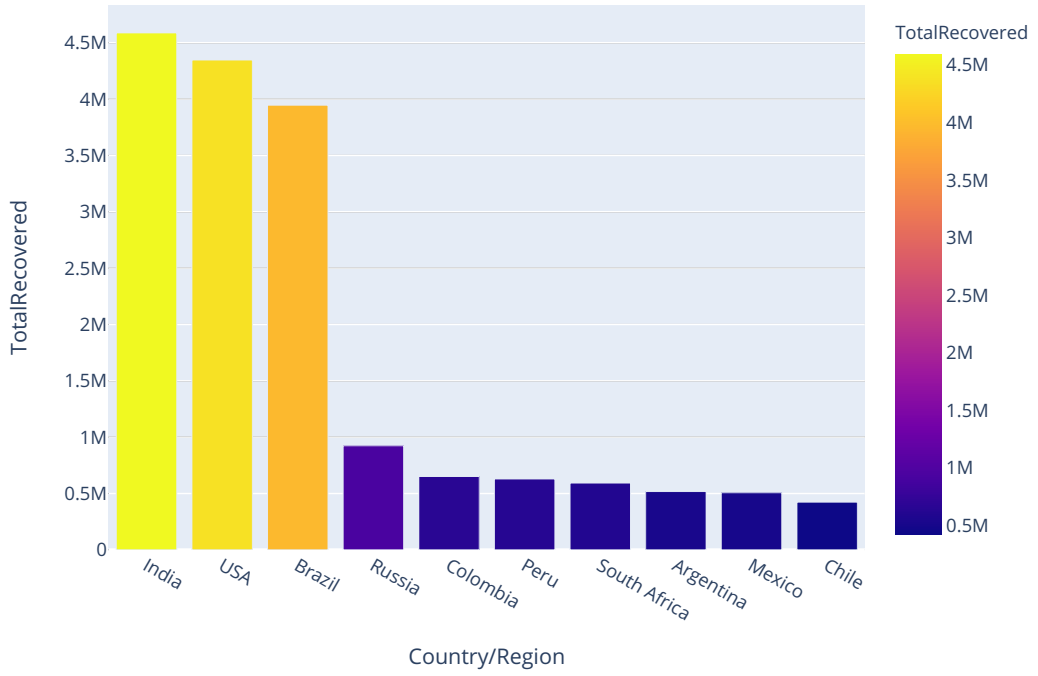
```
df=df.sort_values('TotalDeaths',ascending=False)
px.bar(df.head(10), x='Country/Region', y='TotalDeaths', color='TotalCases', height=500, hover_data=['Country/Region', 'Continent'])
```



Total Recovered Vs Countries

In [8]:

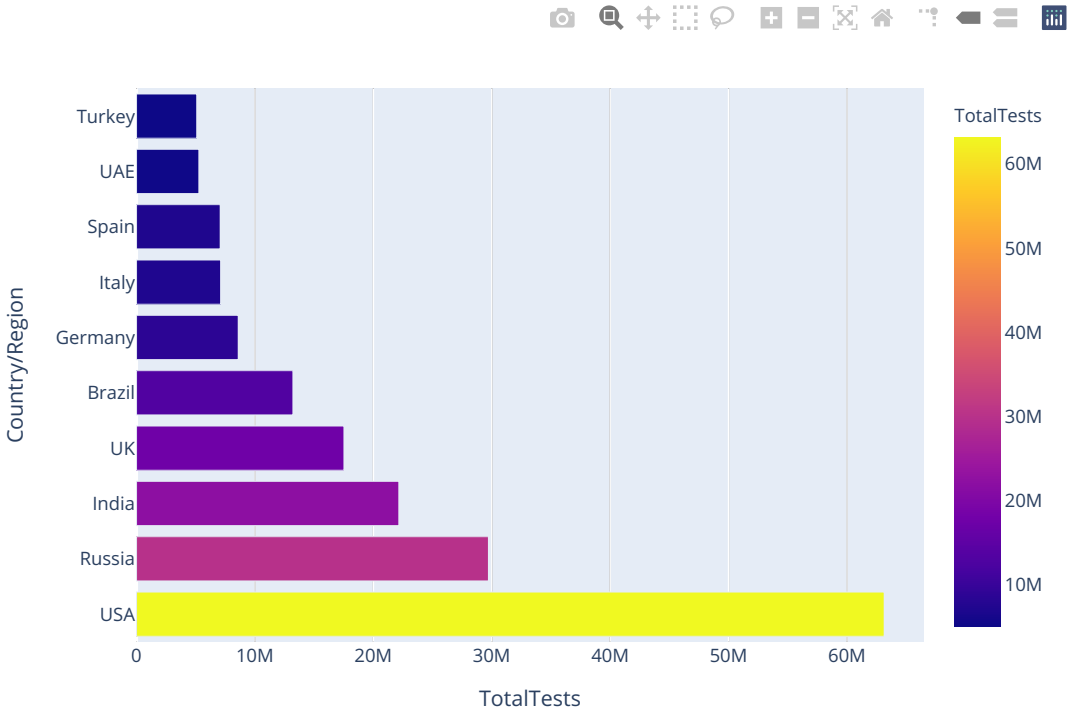
```
df=df.sort_values('TotalRecovered',ascending=False)
px.bar(df.head(10), x='Country/Region', y='TotalRecovered', color='TotalRecovered', height=500, hover_data=['Country/Region', 'Continent'])
```



Total Tests Vs Countries (Orientation)

In [9]:

```
df=df.sort_values('TotalTests',ascending=False)
px.bar(df.head(10), x='TotalTests', y='Country/Region', orientation='h', color='TotalTests', height=500, hover_data=['Country/Region', 'Continent'])
```



Total Tests Vs Continents

In [10]:

```
px.bar(df.head(10), x='TotalTests', y='Continent', orientation='h', color='TotalTests', height=500, hover_data=['
Country/Region', 'Continent'])
```