

first load own data set

```
In [ ]: #import own data
import pandas as pd

kashti = pd.read_csv('data.csv')
kashti.head()
```

import libraries

```
In [ ]: import pandas as pd
import numpy as np
import seaborn as sns

#if u want access online data set then should do this
# kashti1 = sns.load_dataset('titanic') titanic is a dataset name

# if u want work with your own dataset then u should work like this
kashti = pd.read_csv('data.csv')
# now we can see the data.csv file
# kashti
# if u want some lines of data then u should work with head
kashti.head(5)
```

```
In [ ]: # u can save the csv file in your own dictionary
kashti.to_csv('kashti.csv')
```

Basic Statics

```
In [ ]: kashti.describe()
```

```
Out[ ]:
```

	Reporter Country Code	Partner Country Code	Element Code	Year Code	Year	Value	Ranking
count	10.0	10.000000	10.0	10.0	10.0	10.000000	10.00000
mean	165.0	149.400000	5922.0	2020.0	2020.0	337845.200000	5.50000
std	0.0	83.518727	0.0	0.0	0.0	176790.717978	3.02765
min	165.0	2.000000	5922.0	2020.0	2020.0	156552.000000	1.00000
25%	165.0	108.000000	5922.0	2020.0	2020.0	180913.250000	3.25000
50%	165.0	162.500000	5922.0	2020.0	2020.0	310623.500000	5.50000
75%	165.0	224.000000	5922.0	2020.0	2020.0	496292.000000	7.75000
max	165.0	231.000000	5922.0	2020.0	2020.0	599932.000000	10.00000

dropiing a few coloum

```
In [ ]: kashti.drop(['Partner Country Code', 'Reporter Country Code'], axis=1).head()
```

```
Out[ ]:
```

	Domain Code	Domain	Reporter Countries	Partner Countries	Element Code	Element	Year Code	Year	Unit	Value	Ranking
0	TM	Detailed trade matrix	Pakistan	United Arab Emirates	5922	Export Value	2020	2020	1000 US\$	599932.0	
1	TM	Detailed trade matrix	Pakistan	China, mainland	5922	Export Value	2020	2020	1000 US\$	578086.0	
2	TM	Detailed trade matrix	Pakistan	Afghanistan	5922	Export Value	2020	2020	1000 US\$	552703.0	
3	TM	Detailed trade matrix	Pakistan	Saudi Arabia	5922	Export Value	2020	2020	1000 US\$	327059.0	
4	TM	Detailed trade matrix	Pakistan	Kenya	5922	Export Value	2020	2020	1000 US\$	324559.0	

```
In [ ]: kashti.mean()
```

C:\Users\Ishteeaq\AppData\Local\Temp\ipykernel_1756\3332994036.py:1: FutureWarning: Dropping of nuisance columns in DataFrame reductions (with 'numeric_only=None') is deprecated; in a future version this will raise TypeError. Select only valid columns before calling the reduction.

```
kashti.mean()
```

```
Out[ ]:
```

Reporter Country Code	165.0
Partner Country Code	149.4
Element Code	5922.0
Year Code	2020.0
Year	2020.0
Value	337845.2
Ranking	5.5
dtype: float64	

```
In [ ]: kashti.groupby(['Ranking', 'Element Code']).mean()
```

Out[]:

		Reporter Country Code	Partner Country Code	Year Code	Year	Value
Ranking	Element Code					
1	5922	165.0	225.0	2020.0	2020.0	599932.0
2	5922	165.0	41.0	2020.0	2020.0	578086.0
3	5922	165.0	2.0	2020.0	2020.0	552703.0
4	5922	165.0	194.0	2020.0	2020.0	327059.0
5	5922	165.0	114.0	2020.0	2020.0	324559.0
6	5922	165.0	229.0	2020.0	2020.0	296688.0
7	5922	165.0	131.0	2020.0	2020.0	185399.0
8	5922	165.0	221.0	2020.0	2020.0	179418.0
9	5922	165.0	231.0	2020.0	2020.0	178056.0
10	5922	165.0	106.0	2020.0	2020.0	156552.0

In []: kashti.value_counts('Ranking').mean()

Out[]: 1.0

In []: kashti.groupby(['Partner Country Code', 'Value']).mean()

Out[]:

		Reporter Country Code	Element Code	Year Code	Year	Ranking
Partner Country Code	Value					
2	552703.0	165.0	5922.0	2020.0	2020.0	3.0
41	578086.0	165.0	5922.0	2020.0	2020.0	2.0
106	156552.0	165.0	5922.0	2020.0	2020.0	10.0
114	324559.0	165.0	5922.0	2020.0	2020.0	5.0
131	185399.0	165.0	5922.0	2020.0	2020.0	7.0
194	327059.0	165.0	5922.0	2020.0	2020.0	4.0
221	179418.0	165.0	5922.0	2020.0	2020.0	8.0
225	599932.0	165.0	5922.0	2020.0	2020.0	1.0
229	296688.0	165.0	5922.0	2020.0	2020.0	6.0
231	178056.0	165.0	5922.0	2020.0	2020.0	9.0

In []: kashti[kashti['Ranking'] < 8].groupby(['Partner Country Code', 'Value']).mean()

Out[]:

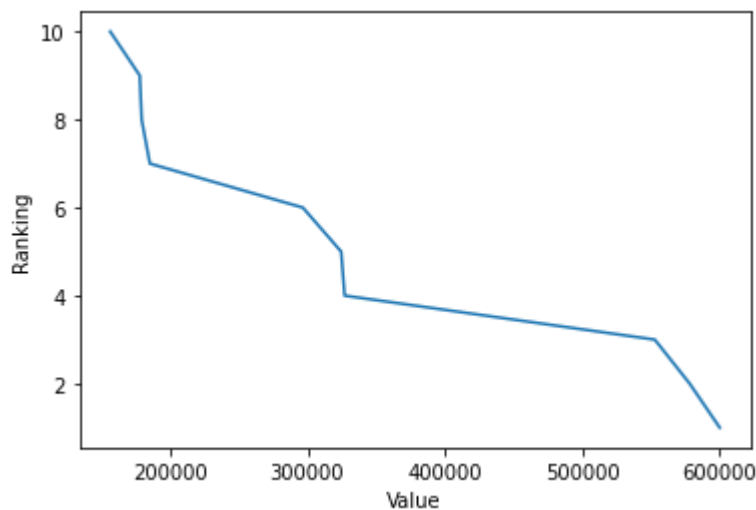
		Reporter Country Code	Element Code	Year Code	Year	Ranking
Partner Country Code	Value					
2	552703.0	165.0	5922.0	2020.0	2020.0	3.0
41	578086.0	165.0	5922.0	2020.0	2020.0	2.0
114	324559.0	165.0	5922.0	2020.0	2020.0	5.0
131	185399.0	165.0	5922.0	2020.0	2020.0	7.0
194	327059.0	165.0	5922.0	2020.0	2020.0	4.0
225	599932.0	165.0	5922.0	2020.0	2020.0	1.0
229	296688.0	165.0	5922.0	2020.0	2020.0	6.0

draw a line plot

line plot always build with two numeric variables

```
In [ ]: line_plot = sns.lineplot(x='Value',y='Ranking',data=kashti)
line_plot
```

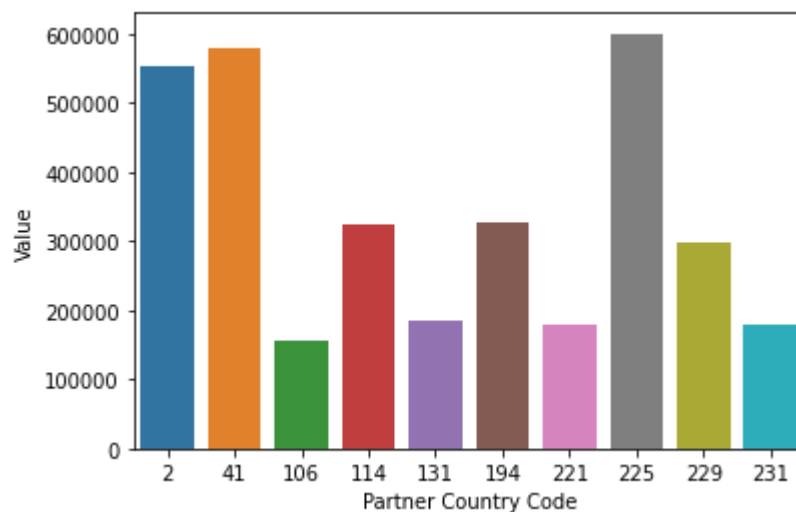
```
Out[ ]: <AxesSubplot:xlabel='Value', ylabel='Ranking'>
```



draw a bar plot

```
In [ ]: bar_plot = sns.barplot(x='Partner Country Code',y='Value',data=kashti)
bar_plot
```

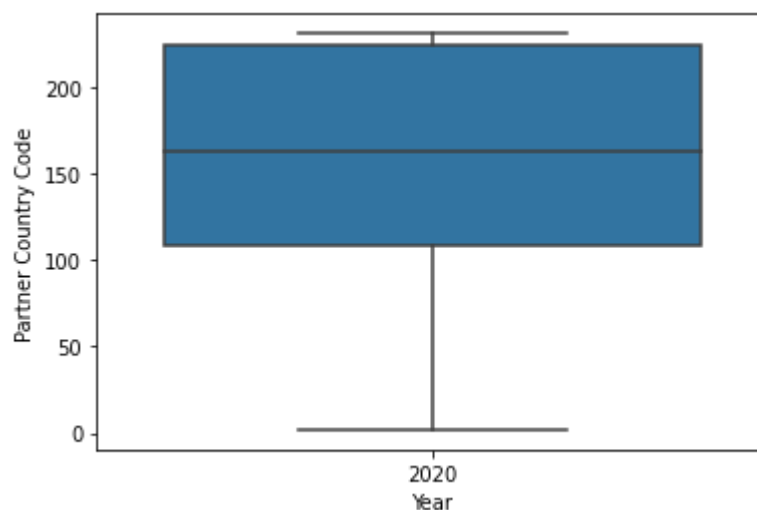
```
Out[ ]: <AxesSubplot:xlabel='Partner Country Code', ylabel='Value'>
```



draw boxplot

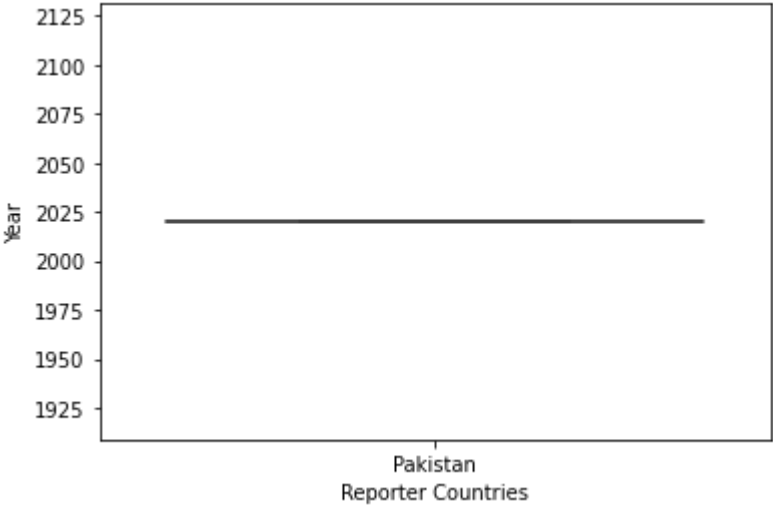
```
In [ ]: box_plot = sns.boxplot(x='Year',y='Partner Country Code',data=kashti)
box_plot
```

```
Out[ ]: <AxesSubplot:xlabel='Year', ylabel='Partner Country Code'>
```



```
In [ ]: box_plot = sns.boxplot(x='Reporter Countries',y='Year',data=kashti)
box_plot
```

```
Out[ ]: <AxesSubplot:xlabel='Reporter Countries', ylabel='Year'>
```



In []: kashti

Out[]:

	Domain Code	Domain	Reporter Country Code	Reporter Countries	Partner Country Code	Partner Countries	Element Code	Element	Year Code	Year	Unit
0	TM	Detailed trade matrix	165	Pakistan	225	United Arab Emirates	5922	Export Value	2020	2020	1000 US\$
1	TM	Detailed trade matrix	165	Pakistan	41	China, mainland	5922	Export Value	2020	2020	1000 US\$
2	TM	Detailed trade matrix	165	Pakistan	2	Afghanistan	5922	Export Value	2020	2020	1000 US\$
3	TM	Detailed trade matrix	165	Pakistan	194	Saudi Arabia	5922	Export Value	2020	2020	1000 US\$
4	TM	Detailed trade matrix	165	Pakistan	114	Kenya	5922	Export Value	2020	2020	1000 US\$
5	TM	Detailed trade matrix	165	Pakistan	229	United Kingdom of Great Britain and Northern I...	5922	Export Value	2020	2020	1000 US\$
6	TM	Detailed trade matrix	165	Pakistan	131	Malaysia	5922	Export Value	2020	2020	1000 US\$
7	TM	Detailed trade matrix	165	Pakistan	221	Oman	5922	Export Value	2020	2020	1000 US\$
8	TM	Detailed trade matrix	165	Pakistan	231	United States of America	5922	Export Value	2020	2020	1000 US\$
9	TM	Detailed trade matrix	165	Pakistan	106	Italy	5922	Export Value	2020	2020	1000 US\$

