

Dataset Link :

Link-1 <https://raw.githubusercontent.com/sitmbadept/sitmbadept.github.io/main/BDTM/R/IPL.csv>

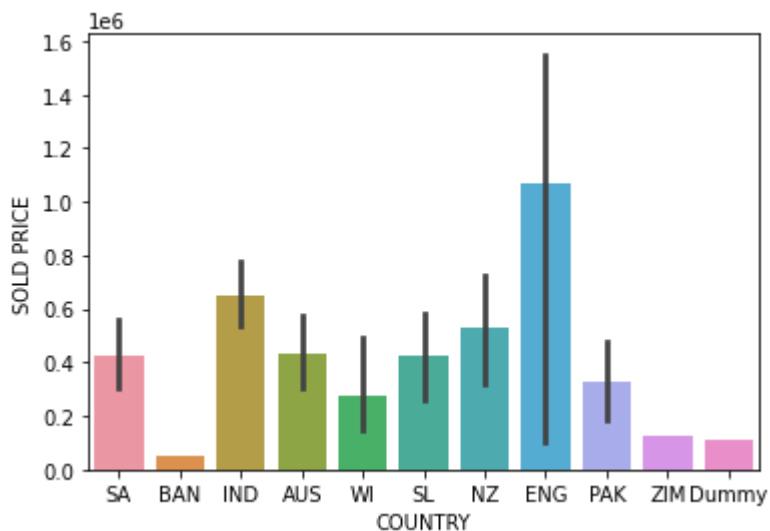
Link-2 https://drive.google.com/file/d/1Ls_-g0OTFzM9vrUEDZGJ8hkLpcNSZGHJ/view?usp=sharing

```
In [48]: import matplotlib.pyplot as plt
import seaborn as sn
import pandas as pd
```

```
In [49]: ipl = pd.read_csv("C:/dataset/IPL.csv")
```

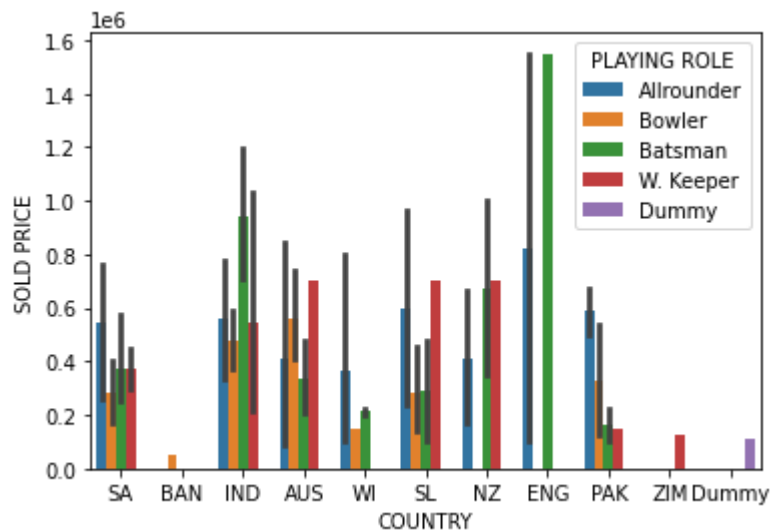
```
In [50]: # Bar Plot
sn.barplot(x="COUNTRY",
           y="SOLD PRICE",
           data = ipl)
```

```
Out[50]: <AxesSubplot:xlabel='COUNTRY', ylabel='SOLD PRICE'>
```



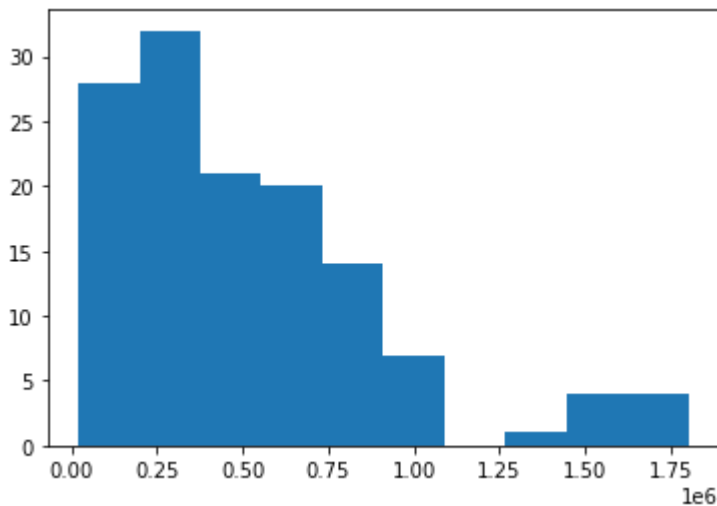
```
In [51]: # Bar Plot with additional categories & legend
sn.barplot(x="COUNTRY",
           y="SOLD PRICE",
           hue="PLAYING ROLE",
           data = ipl)
```

```
Out[51]: <AxesSubplot:xlabel='COUNTRY', ylabel='SOLD PRICE'>
```



```
In [52]: # Histogram
plt.hist(ipl['SOLD PRICE'])
```

```
Out[52]: (array([28., 32., 21., 20., 14., 7., 0., 1., 4., 4.]),
array([ 20000., 198000., 376000., 554000., 732000., 910000.,
1088000., 1266000., 1444000., 1622000., 1800000.]),
<BarContainer object of 10 artists>)
```

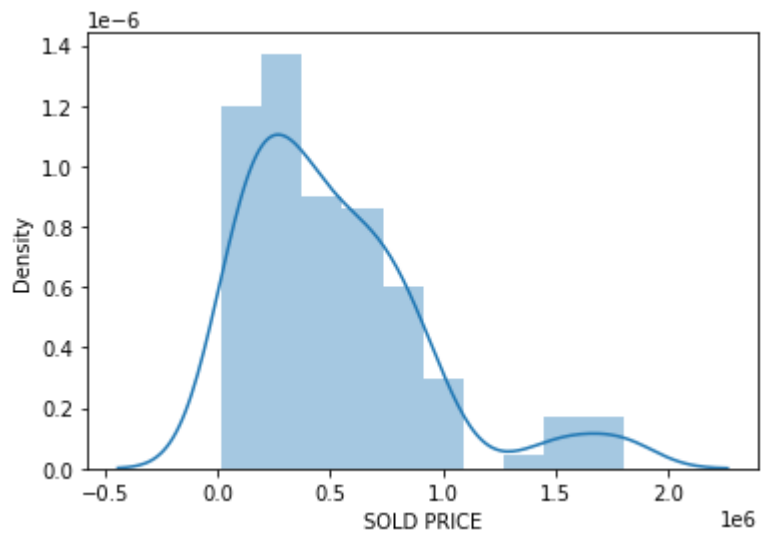


```
In [53]: # Density Plot
sns.distplot(ipl['SOLD PRICE'])
```

C:\Users\avelani\Anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

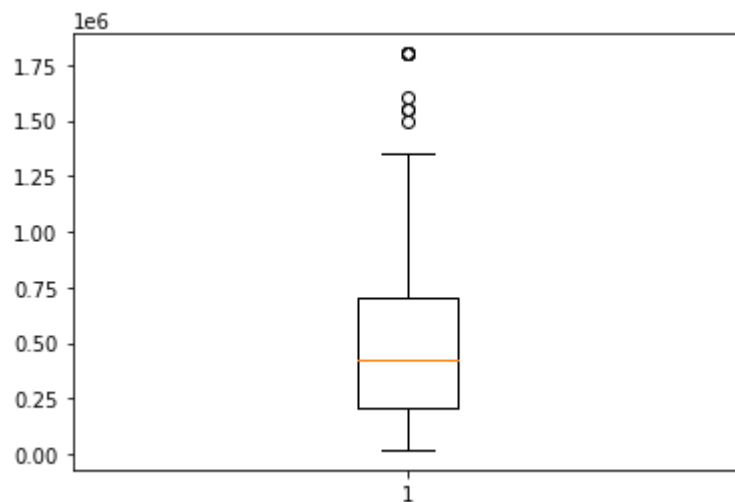
warnings.warn(msg, FutureWarning)

```
Out[53]: <AxesSubplot:xlabel='SOLD PRICE', ylabel='Density'>
```



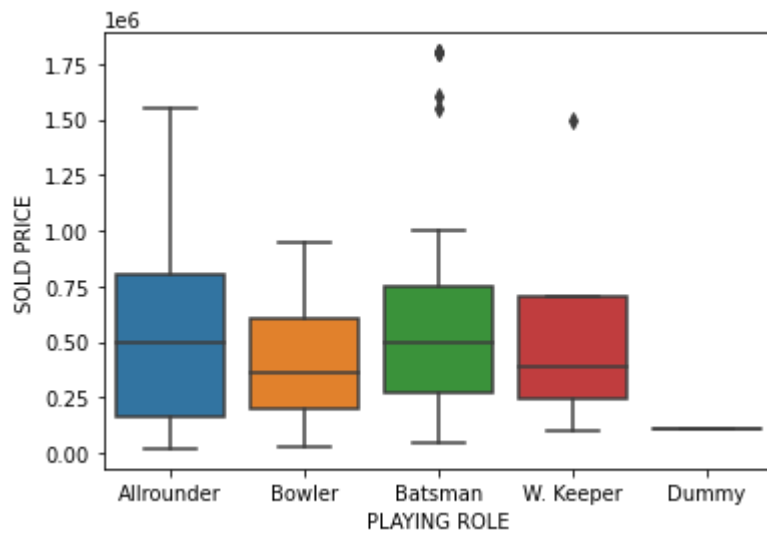
```
In [54]: # Box plot
plt.boxplot(ipl['SOLD PRICE'])
```

```
Out[54]: {'whiskers': [<matplotlib.lines.Line2D at 0x25c56907d60>,
<matplotlib.lines.Line2D at 0x25c56917130>],
'caps': [<matplotlib.lines.Line2D at 0x25c569174c0>,
<matplotlib.lines.Line2D at 0x25c56917850>],
'boxes': [<matplotlib.lines.Line2D at 0x25c56907a30>],
'medians': [<matplotlib.lines.Line2D at 0x25c56917be0>],
'fliers': [<matplotlib.lines.Line2D at 0x25c56917f70>],
'means': []}
```



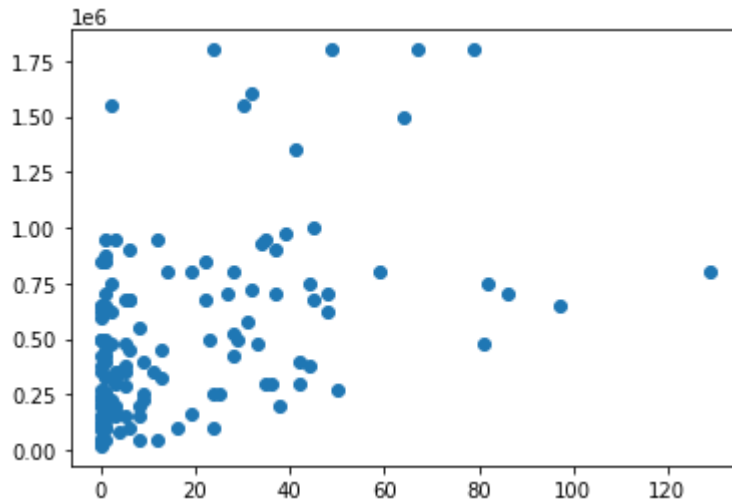
```
In [55]: # Box plot with categorical variable
sns.boxplot(x="PLAYING ROLE",
y="SOLD PRICE",
data= ipl)
```

```
Out[55]: <AxesSubplot:xlabel='PLAYING ROLE', ylabel='SOLD PRICE'>
```



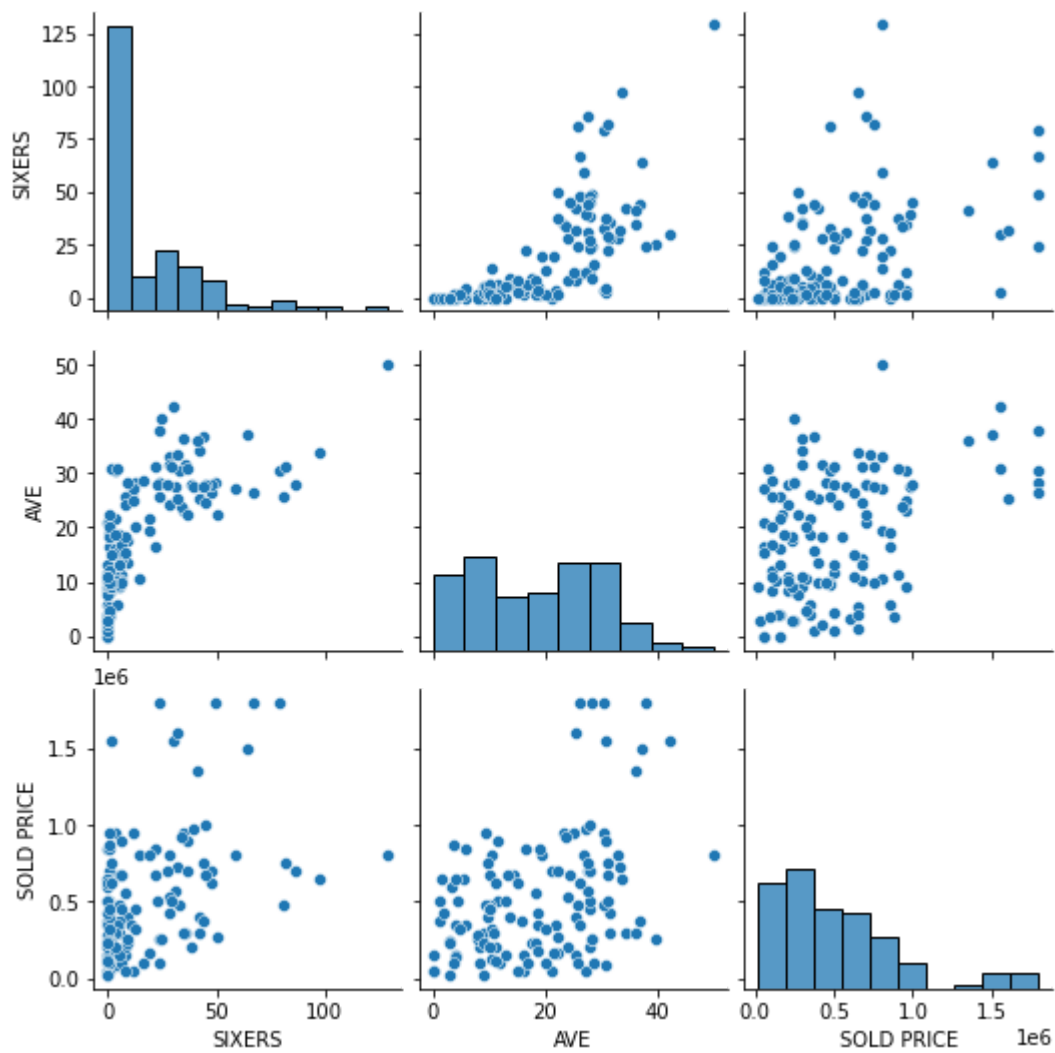
```
In [56]: # Scatter Plot
plt.scatter(x= "SIXERS",
            y="SOLD PRICE",
            data=ipl)
```

```
Out[56]: <matplotlib.collections.PathCollection at 0x25c5686e940>
```



```
In [57]: # Pair Plot
sn.pairplot(ipl[['SIXERS', 'AVE', 'SOLD PRICE']])
```

```
Out[57]: <seaborn.axisgrid.PairGrid at 0x25c56a5f9a0>
```



```
In [58]: # Heatmap & Correlation

table_cor =ipl[['SIXERS','SOLD PRICE','AVE']].corr()

sn.heatmap(table_cor, annot=True)
```

Out[58]: <AxesSubplot:>

