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ROLL NUMBER: 546

COURSE: MSc CS

SUBJECT: FUNDAMENTALS OF DATA SCIENCE

TOPIC: PRACTICAL 7 DESCRIPTIVE STATISTICS

```
import pandas as pd
```

```
df=pd.read_csv('/content/drive/MyDrive/Colab Notebooks/stats.csv')
```

```
df
```

	Name	Salary	Country
0	Dan	40000	USA
1	Elizabeth	32000	Brazil
2	Jon	45000	Italy
3	Maria	54000	USA
4	Mark	72000	USA
5	Bill	62000	Brazil
6	Jess	92000	Italy
7	Julia	55000	USA
8	Jeff	35000	Italy
9	Ben	48000	Brazil

Measure of Central Tendancy

```
# Mean Salary
mean1=df['Salary'].mean()
mean1
```

```
53500.0
```

```
#Minimum Salary
min1=df['Salary'].min()
min1
```

```
32000
```

```
#Total count

count1=df['Salary'].count()
count1
```

```
10
```

```
#Median
median=df['Salary'].median()
median
```

```
51000.0
```

```
#Mode
mode1=df['Salary'].mode()
mode1
```

```
0    32000
1    35000
2    40000
3    45000
4    48000
5    54000
6    55000
7    62000
8    72000
9    92000
dtype: int64
```

```
countrywise_sum=df.groupby(['Country'])['Salary'].sum()
countrywise_sum
```

Country	Name	Salary
Brazil	3	3
Italy	3	3
USA	4	4

Measure of variability

```
#variance of salaries
var1=df['Salary'].var()
var1
```

```
332055555.5555556
```

```
#standard deviation
std1=df['Salary'].std()
std1
```

```
18222.391598128816
```

Measure of Symmetry

```
skew1=df.skew(axis=0, skipna=True)
skew1
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: FutureWarning: Dropping
  """Entry point for launching an IPython kernel.
Salary    1.021551
dtype: float64
```

	Salary
count	10.000000
mean	53500.000000
std	18222.391598
min	32000.000000
25%	41250.000000
50%	51000.000000
75%	60250.000000
max	92000.000000