In [4]:
```
import numpy as np
```

In [5]:
```
import pandas as pd
```

Pre-processing

In [6]:
```
data=pd.read_csv(r"C:\Users\user\Downloads\3_Fitness-1.csv")
data
```

Out[6]:

	Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Total Sales
0	A	5.62%	7.73%	6.16%	75
1	B	4.21%	17.27%	19.21%	160
2	C	9.83%	11.60%	5.17%	101
3	D	2.81%	21.91%	7.88%	127
4	E	25.28%	10.57%	11.82%	179
5	F	8.15%	16.24%	18.47%	167
6	G	18.54%	8.76%	17.49%	171
7	H	25.56%	5.93%	13.79%	170
8	Grand Total	100.00%	100.00%	100.00%	1150

In [7]:
```
data.sum()
```

Out[7]:
```
Row Labels                                                ABCDEFGHGrand Total
Sum of Jan              5.62%4.21%9.83%2.81%25.28%8.15%18.54%25.56%100...
Sum of Feb              7.73%17.27%11.60%21.91%10.57%16.24%8.76%5.93%1...
Sum of Mar              6.16%19.21%5.17%7.88%11.82%18.47%17.49%13.79%1...
Sum of Total Sales                                                   2300
dtype: object
```

In [8]:
```
data.cumsum()
```

Out[8]:

	Row Labels	Sum of Jan	
0	A	5.62%	
1	AB	5.62%4.21%	
2	ABC	5.62%4.21%9.83%	
3	ABCD	5.62%4.21%9.83%2.81%	
4	ABCDE	5.62%4.21%9.83%2.81%25.28%	
5	ABCDEF	5.62%4.21%9.83%2.81%25.28%8.15%	7.73%1
6	ABCDEFG	5.62%4.21%9.83%2.81%25.28%8.15%18.54%	7.73%17.27%
7	ABCDEFGH	5.62%4.21%9.83%2.81%25.28%8.15%18.54%25.56%	7.73%17.27%11.60%
8	ABCDEFGHGrand Total	5.62%4.21%9.83%2.81%25.28%8.15%18.54%25.56%100...	7.73%17.27%11.60%21

In [7]:
```
data.describe()
```

Out[7]:

	Sum of Total Sales
count	9.000000
mean	255.555556
std	337.332963
min	75.000000
25%	127.000000
50%	167.000000
75%	171.000000
max	1150.000000

In [9]:
```
data.max()
```

Out[9]:
```
Row Labels                H
Sum of Jan             9.83%
Sum of Feb             8.76%
Sum of Mar             7.88%
Sum of Total Sales     1150
dtype: object
```

In [10]:
```
data.min()
```

Out[10]:
```
Row Labels                  A
Sum of Jan             100.00%
Sum of Feb              10.57%
Sum of Mar             100.00%
Sum of Total Sales          75
dtype: object
```

In [11]:
```
data.mean()
```

Out[11]:
```
Sum of Total Sales    255.555556
dtype: float64
```

In [12]:
```
data.median()
```

Out[12]:
```
Sum of Total Sales    167.0
dtype: float64
```

In [13]:
```
data.mode()
```

Out[13]:

	Row Labels	Sum of Jan	Sum of Feb	Sum of Mar	Sum of Total Sales
0	A	100.00%	10.57%	100.00%	75
1	B	18.54%	100.00%	11.82%	101
2	C	2.81%	11.60%	13.79%	127
3	D	25.28%	16.24%	17.49%	160
4	E	25.56%	17.27%	18.47%	167
5	F	4.21%	21.91%	19.21%	170
6	G	5.62%	5.93%	5.17%	171
7	Grand Total	8.15%	7.73%	6.16%	179
8	H	9.83%	8.76%	7.88%	1150

In [14]:
```
data.cov()
```

Out[14]:

	Sum of Total Sales
Sum of Total Sales	113793.527778

In [15]:
```
data.corr()
```

Out[15]:

	Sum of Total Sales
Sum of Total Sales	1.0

In [16]:
```
data.count()
```

Out[16]:
```
Row Labels           9
Sum of Jan           9
Sum of Feb           9
Sum of Mar           9
Sum of Total Sales   9
dtype: int64
```

In [ ]:
```

```