

```
In [1]: ▶ import pandas as pd
```

```
In [2]: ▶ df=pd.read_csv("1_2015-1.csv")
```

```
In [3]: ▶ import warnings  
warnings.filterwarnings('ignore')  
print(df.mean())
```

Happiness Rank	79.493671
Happiness Score	5.375734
Standard Error	0.047885
Economy (GDP per Capita)	0.846137
Family	0.991046
Health (Life Expectancy)	0.630259
Freedom	0.428615
Trust (Government Corruption)	0.143422
Generosity	0.237296
Dystopia Residual	2.098977
dtype:	float64

```
In [4]: ▶ print(df.median())
```

Happiness Rank	79.500000
Happiness Score	5.232500
Standard Error	0.043940
Economy (GDP per Capita)	0.910245
Family	1.029510
Health (Life Expectancy)	0.696705
Freedom	0.435515
Trust (Government Corruption)	0.107220
Generosity	0.216130
Dystopia Residual	2.095415
dtype:	float64

In [5]: ▶ `print(df.mode())`

	Country	Region	Happiness Rank	Happiness Score \
0	Afghanistan	Sub-Saharan Africa	82.0	5.192
1	Albania	NaN	NaN	NaN
2	Algeria	NaN	NaN	NaN
3	Angola	NaN	NaN	NaN
4	Argentina	NaN	NaN	NaN
..
153	Venezuela	NaN	NaN	NaN
154	Vietnam	NaN	NaN	NaN
155	Yemen	NaN	NaN	NaN
156	Zambia	NaN	NaN	NaN
157	Zimbabwe	NaN	NaN	NaN

	Standard Error	Economy (GDP per Capita)	Family \
0	0.03751	0.00000	0.00000
1	0.03780	0.01530	0.13995
2	0.04394	0.01604	0.30285
3	0.04934	0.06940	0.35386
4	0.05051	0.07120	0.38174
..
153	NaN	1.45900	1.34043
154	NaN	1.52186	1.34951
155	NaN	1.55422	1.36058
156	NaN	1.56391	1.36948
157	NaN	1.69042	1.40223

	Health (Life Expectancy)	Freedom	Trust (Government Corruption) \
0	0.92356	0.00000	0.32524
1	NaN	0.07699	NaN
2	NaN	0.09245	NaN
3	NaN	0.10081	NaN
4	NaN	0.10384	NaN
..
153	NaN	0.65821	NaN
154	NaN	0.65980	NaN
155	NaN	0.66246	NaN
156	NaN	0.66557	NaN
157	NaN	0.66973	NaN

	Generosity	Dystopia	Residual
0	0.00000		0.32858
1	0.00199		0.65429
2	0.02641		0.67042

3	0.05444	0.67108
4	0.05547	0.89991
...
153	0.51535	3.10712
154	0.51752	3.17728
155	0.51912	3.19131
156	0.57630	3.26001
157	0.79588	3.60214

[158 rows x 12 columns]

In [6]: `print(df.describe())`

	Happiness Rank	Happiness Score	Standard Error \
count	158.000000	158.000000	158.000000
mean	79.493671	5.375734	0.047885
std	45.754363	1.145010	0.017146
min	1.000000	2.839000	0.018480
25%	40.250000	4.526000	0.037268
50%	79.500000	5.232500	0.043940
75%	118.750000	6.243750	0.052300
max	158.000000	7.587000	0.136930

	Economy (GDP per Capita)	Family Health (Life Expectancy) \
count	158.000000	158.000000
mean	0.846137	0.630259
std	0.403121	0.247078
min	0.000000	0.000000
25%	0.545808	0.439185
50%	0.910245	0.696705
75%	1.158448	0.811013
max	1.690420	1.025250

	Freedom Trust (Government Corruption)	Generosity \
count	158.000000	158.000000
mean	0.428615	0.237296
std	0.150693	0.126685
min	0.000000	0.000000
25%	0.328330	0.150553
50%	0.435515	0.216130
75%	0.549092	0.309883
max	0.669730	0.795880

	Dystopia Residual
count	158.000000
mean	2.098977
std	0.553550
min	0.328580
25%	1.759410
50%	2.095415
75%	2.462415
max	3.602140

In [7]: `print(df.sum())`

Country	SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...
Region	Western EuropeWestern EuropeWestern EuropeWest...
Happiness Rank	12560
Happiness Score	849.366
Standard Error	7.56579
Economy (GDP per Capita)	133.68968
Family	156.58526
Health (Life Expectancy)	99.58098
Freedom	67.72116
Trust (Government Corruption)	22.66065
Generosity	37.49269
Dystopia Residual	331.63833
dtype:	object

In [8]: ▶ `print(df.cumsum())`

```

Country \
0      Switzerland
1      SwitzerlandIceland
2      SwitzerlandIcelandDenmark
3      SwitzerlandIcelandDenmarkNorway
4      SwitzerlandIcelandDenmarkNorwayCanada
..      ...
153    SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...
154    SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...
155    SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...
156    SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...
157    SwitzerlandIcelandDenmarkNorwayCanadaFinlandNe...

```

```

Region Happiness Rank \
0      Western Europe 1
1      Western EuropeWestern Europe 3
2      Western EuropeWestern EuropeWestern Europe 6
3      Western EuropeWestern EuropeWestern EuropeWest... 10
4      Western EuropeWestern EuropeWestern EuropeWest... 15
..      ...
153    Western EuropeWestern EuropeWestern EuropeWest... 11934
154    Western EuropeWestern EuropeWestern EuropeWest... 12089
155    Western EuropeWestern EuropeWestern EuropeWest... 12245
156    Western EuropeWestern EuropeWestern EuropeWest... 12402
157    Western EuropeWestern EuropeWestern EuropeWest... 12560

```

```

Happiness Score Standard Error Economy (GDP per Capita) Family \
0      7.587      0.03411      1.39651      1.34951
1      15.148     0.08295      2.69883      2.75174
2      22.675     0.11623      4.02431      4.11232
3      30.197     0.15503      5.48331      5.44327
4      37.624     0.19056      6.80960      6.76588
..      ...      ...      ...      ...
153    837.276    7.32523      132.51585    155.20069
154    840.616    7.36179      132.80250    155.55455
155    843.622    7.41194      133.46570    156.02944
156    846.527    7.49852      133.48100    156.44531
157    849.366    7.56579      133.68968    156.58526

```

```

Health (Life Expectancy) Freedom Trust (Government Corruption) \
0      0.94143      0.66557      0.41978
1      1.88927      1.29434      0.56123
2      2.76391      1.94372      1.04480

```


3	3.64912	2.61345	1.40983
4	4.55475	3.24642	1.73940
..
153	98.03156	66.59679	22.18356
154	98.35066	67.08129	22.26366
155	99.07259	67.23813	22.45272
156	99.29655	67.35663	22.55334
157	99.58098	67.72116	22.66065

	Generosity	Dystopia	Residual
0	0.29678		2.51738
1	0.73308		5.21939
2	1.07447		7.71143
3	1.42146		10.17674
4	1.87957		12.62850
..
153	36.47422		326.27619
154	36.65682		327.90947
155	37.12861		328.23805
156	37.32588		330.07107
157	37.49269		331.63833

[158 rows x 12 columns]

In [9]: `print(df.count())`

```
Country          158
Region           158
Happiness Rank   158
Happiness Score  158
Standard Error   158
Economy (GDP per Capita) 158
Family           158
Health (Life Expectancy) 158
Freedom          158
Trust (Government Corruption) 158
Generosity       158
Dystopia Residual 158
dtype: int64
```

```
In [10]: ▶ print(df.max())
```

Country	Zimbabwe
Region	Western Europe
Happiness Rank	158
Happiness Score	7.587
Standard Error	0.13693
Economy (GDP per Capita)	1.69042
Family	1.40223
Health (Life Expectancy)	1.02525
Freedom	0.66973
Trust (Government Corruption)	0.55191
Generosity	0.79588
Dystopia Residual	3.60214
dtype:	object

```
In [11]: ▶ print(df.min())
```

Country	Afghanistan
Region	Australia and New Zealand
Happiness Rank	1
Happiness Score	2.839
Standard Error	0.01848
Economy (GDP per Capita)	0.0
Family	0.0
Health (Life Expectancy)	0.0
Freedom	0.0
Trust (Government Corruption)	0.0
Generosity	0.0
Dystopia Residual	0.32858
dtype:	object

```
In [12]: ▶ list(df)
```

```
Out[12]: ['Country',  
          'Region',  
          'Happiness Rank',  
          'Happiness Score',  
          'Standard Error',  
          'Economy (GDP per Capita)',  
          'Family',  
          'Health (Life Expectancy)',  
          'Freedom',  
          'Trust (Government Corruption)',  
          'Generosity',  
          'Dystopia Residual']
```

```
In [13]: ▶ from numpy import cov  
data1=df['Happiness Rank'][0:100]  
data2=df['Happiness Score'][0:100]  
covariance=cov(data1,data2)  
print(covariance)
```

```
[[ 8.41020101e+02 -2.29934817e+01]  
 [-2.29934817e+01  6.38401267e-01]]
```

```
In [14]: ▶ from scipy.stats import pearsonr  
data1=df['Happiness Rank'][0:100]  
data2=df['Happiness Score'][0:100]  
corr,_=pearsonr(data1,data2)  
print(corr)
```

```
-0.9923267072800683
```

```
In [15]: ▶ from scipy.stats import spearmanr  
data1=df['Happiness Rank'][0:100]  
data2=df['Happiness Score'][0:100]  
corr,_=spearmanr(data1,data2)  
print(corr)
```

```
-1.0
```

```
In [16]: df1=pd.read_csv("3_Fitness.csv")
```

```
In [17]: print(df1.mean())
```

```
JAN          101.090909
FEB           98.909091
MAR           94.909091
APR          103.818182
MAY           96.727273
JUN           85.090909
TOTAL SALES   579.818182
Unnamed: 8     3193.000000
Unnamed: 9              NaN
Unnamed: 10              NaN
dtype: float64
```

```
In [18]: print(df1.median())
```

```
JAN           65.0
FEB           54.0
MAR           50.0
APR           59.0
MAY           56.0
JUN           55.0
TOTAL SALES    322.0
Unnamed: 8     3193.0
Unnamed: 9              NaN
Unnamed: 10              NaN
dtype: float64
```

In [19]: `print(df1.mode())`

	SALESMAN	JAN	FEB	MAR	APR	MAY	JUN	TOTAL	SALES	\
0	ANU	35.0	35.0	49.0	45.0	35.0	25.0		210.0	
1	BABU	NaN	NaN	NaN	NaN	56.0	30.0		220.0	
2	CHANDRU	NaN	NaN	NaN	NaN	NaN	55.0		247.0	
3	DAVID	NaN	NaN	NaN	NaN	NaN	73.0		258.0	
4	EINSTEIN	NaN	NaN	NaN	NaN	NaN	NaN		319.0	
5	FAROOK	NaN	NaN	NaN	NaN	NaN	NaN		322.0	
6	GOWTHAM	NaN	NaN	NaN	NaN	NaN	NaN		351.0	
7	HARSHITH	NaN	NaN	NaN	NaN	NaN	NaN		388.0	
8	INIYAN	NaN	NaN	NaN	NaN	NaN	NaN		412.0	
9	JOHN	NaN	NaN	NaN	NaN	NaN	NaN		462.0	
10	MONTHLY SALES	NaN	NaN	NaN	NaN	NaN	NaN		3189.0	

	Unnamed: 8	Unnamed: 9	Unnamed: 10	\
0	3193.0	NaN	NaN	
1	NaN	NaN	NaN	
2	NaN	NaN	NaN	
3	NaN	NaN	NaN	
4	NaN	NaN	NaN	
5	NaN	NaN	NaN	
6	NaN	NaN	NaN	
7	NaN	NaN	NaN	
8	NaN	NaN	NaN	
9	NaN	NaN	NaN	
10	NaN	NaN	NaN	

	Unnamed: 11
0	1. Individual Sales using Sum()
1	2. Find the pattern trend using conditional fo...
2	3. Analyze using Pivot table as column percentage
3	33
4	4. Insert Pivot charts
5	5. Rank() - returns the rank of a given value ...
6	NaN
7	NaN
8	NaN
9	NaN
10	NaN

In [20]: `print(df1.describe())`

	JAN	FEB	MAR	APR	MAY	JUN \
count	11.000000	11.000000	11.000000	11.000000	11.000000	11.000000
mean	101.090909	98.909091	94.909091	103.818182	96.727273	85.090909
std	152.263886	148.884153	142.770763	155.277054	145.500578	128.347540
min	29.000000	25.000000	15.000000	45.000000	25.000000	25.000000
25%	35.000000	40.000000	47.000000	49.000000	40.000000	30.000000
50%	65.000000	54.000000	50.000000	59.000000	56.000000	55.000000
75%	76.000000	75.500000	71.500000	66.500000	69.500000	69.000000
max	556.000000	544.000000	522.000000	571.000000	532.000000	468.000000

	TOTAL SALES	Unnamed: 8	Unnamed: 9	Unnamed: 10
count	11.000000	1.0	0.0	0.0
mean	579.818182	3193.0	NaN	NaN
std	869.142775	NaN	NaN	NaN
min	210.000000	3193.0	NaN	NaN
25%	252.500000	3193.0	NaN	NaN
50%	322.000000	3193.0	NaN	NaN
75%	400.000000	3193.0	NaN	NaN
max	3189.000000	3193.0	NaN	NaN

In [21]: `print(df1.sum())`

```

JAN      1112.0
FEB      1088.0
MAR      1044.0
APR      1142.0
MAY      1064.0
JUN       936.0
TOTAL SALES  6378.0
Unnamed: 8   3193.0
Unnamed: 9     0.0
Unnamed: 10     0.0
dtype: float64

```

In [22]: `df.dropna()`

Out[22]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom	Trust (Government Corruption)	Generosity
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	0.66557	0.41978	0.29678
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	0.62877	0.14145	0.43630
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	0.64938	0.48357	0.34139
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	0.66973	0.36503	0.34699
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	0.63297	0.32957	0.45811
...
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864	0.59201	0.55191	0.22628
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910	0.48450	0.08010	0.18260
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193	0.15684	0.18906	0.47179
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396	0.11850	0.10062	0.19727
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443	0.36453	0.10731	0.16681

158 rows × 12 columns



In [23]: `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 158 entries, 0 to 157
Data columns (total 12 columns):
 #   Column                                Non-Null Count  Dtype
---  -
 0   Country                              158 non-null    object
 1   Region                               158 non-null    object
 2   Happiness Rank                       158 non-null    int64
 3   Happiness Score                      158 non-null    float64
 4   Standard Error                      158 non-null    float64
 5   Economy (GDP per Capita)            158 non-null    float64
 6   Family                              158 non-null    float64
 7   Health (Life Expectancy)            158 non-null    float64
 8   Freedom                             158 non-null    float64
 9   Trust (Government Corruption)       158 non-null    float64
10   Generosity                          158 non-null    float64
11   Dystopia Residual                   158 non-null    float64
dtypes: float64(9), int64(1), object(2)
memory usage: 14.9+ KB
```


In [24]: `print(df1.cumsum())`

```
-----
TypeError                                Traceback (most recent call last)
File ~\anaconda3\Lib\site-packages\numpy\core\fromnumeric.py:57, in _wrapfunc(obj, method, *args, **
kwds)
    56 try:
--> 57     return bound(*args, **kwds)
    58 except TypeError:
    59     # A TypeError occurs if the object does have such a method in its
    60     # class, but its signature is not identical to that of NumPy's. This
    (...)
    64     # Call _wrapit from within the except clause to ensure a potential
    65     # exception has a traceback chain.
```

TypeError: can only concatenate str (not "float") to str

During handling of the above exception, another exception occurred:

```
TypeError                                Traceback (most recent call last)
Cell In[24], line 1
      1 print(df1.cumsum())
```

In [26]: `print(df1.count())`

```
SALESMAN      11
JAN            11
FEB            11
MAR            11
APR            11
MAY            11
JUN            11
TOTAL SALES    11
Unnamed: 8      1
Unnamed: 9      0
Unnamed: 10     0
Unnamed: 11     6
dtype: int64
```

In [27]: `print(df1.min())`

```
JAN          29.0
FEB          25.0
MAR          15.0
APR          45.0
MAY          25.0
JUN          25.0
TOTAL SALES  210.0
Unnamed: 8    3193.0
Unnamed: 9      NaN
Unnamed: 10    NaN
dtype: float64
```

In [28]: `print(df1.max())`

```
JAN          556.0
FEB          544.0
MAR          522.0
APR          571.0
MAY          532.0
JUN          468.0
TOTAL SALES  3189.0
Unnamed: 8    3193.0
Unnamed: 9      NaN
Unnamed: 10    NaN
dtype: float64
```

In [29]: `print(df1.info())`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 12 entries, 0 to 11
Data columns (total 12 columns):
 #   Column          Non-Null Count  Dtype  
---  -
 0   SALESMAN        11 non-null    object  
 1   JAN              11 non-null    float64  
 2   FEB              11 non-null    float64  
 3   MAR              11 non-null    float64  
 4   APR              11 non-null    float64  
 5   MAY              11 non-null    float64  
 6   JUN              11 non-null    float64  
 7   TOTAL SALES      11 non-null    float64  
 8   Unnamed: 8       1 non-null     float64  
 9   Unnamed: 9       0 non-null     float64  
10   Unnamed: 10      0 non-null     float64  
11   Unnamed: 11      6 non-null     object  
dtypes: float64(10), object(2)
memory usage: 1.3+ KB
None
```

In [30]: `df1['JAN'].count()`

Out[30]: 11

In [31]: `from numpy import cov
data1=df1['JAN'][0:10]
data2=df1['MAY'][0:10]
covariance=cov(data1,data2)
print(covariance)`

```
[[467.37777778 258.64444444]
 [258.64444444 366.17777778]]
```

```
In [32]: ▶ from scipy.stats import pearsonr
data1=df1['JAN'][0:10]
data2=df1['MAY'][0:10]
corr, _=pearsonr(data1,data2)
print(corr)
```

0.625205993029724

```
In [33]: ▶ from scipy.stats import spearmanr
data1=df1['JAN'][0:10]
data2=df1['MAY'][0:10]
corr, _=spearmanr(data1,data2)
print(corr)
```

0.7033672033257948

```
In [34]: ▶ df2=pd.read_csv("4_Drug200.csv")
```

```
In [35]: ▶ print(df2.mean())
```

Age 44.315000
Na_to_K 16.084485
dtype: float64

```
In [36]: ▶ print(df2.median())
```

Age 45.00000
Na_to_K 13.9365
dtype: float64

```
In [37]: ▶ print(df2.mode())
```

	Age	Sex	BP	Cholesterol	Na_to_K	Drug
0	47.0	M	HIGH	HIGH	12.006	drugY
1	NaN	NaN	NaN	NaN	18.295	NaN

```
In [38]: ▶ print(df2.sum())
```

```
Age                                     8863
Sex      FMMFFFMMFFMFFFMMFMFFFMMFMFFFMMFF...
BP      HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOW...
Cholesterol  HIGHHHIGHHHIGHHHIGHHHIGHHHIGHHHIGHHHIGHNORM...
Na_to_K                                     3216.897
Drug      drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...
dtype: object
```

In [39]: ▶ `print(df2.cumsum())`

	Age		Sex \
0	23		F
1	70		FM
2	117		FMM
3	145		FMMF
4	206		FMMFF
..
195	8732	FMMFFFFMMMFMMFFMMFMFFMMFFMMFFMMFFMMFFMMFF...	
196	8748	FMMFFFFMMMFMMFFMMFMFFMMFFMMFFMMFFMMFFMMFF...	
197	8800	FMMFFFFMMMFMMFFMMFMFFMMFFMMFFMMFFMMFFMMFF...	
198	8823	FMMFFFFMMMFMMFFMMFMFFMMFFMMFFMMFFMMFFMMFF...	
199	8863	FMMFFFFMMMFMMFFMMFMFFMMFFMMFFMMFFMMFFMMFF...	

		BP \
0		HIGH
1		HIGHLOW
2		HIGHLOWLOW
3		HIGHLOWLOWNORMAL
4		HIGHLOWLOWNORMALLOW
..		...
195	HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOWLOW...	
196	HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOWLOW...	
197	HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOWLOW...	
198	HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOWLOW...	
199	HIGHLOWLOWNORMALLOWNORMALNORMALLOWNORMALLOWLOW...	

	Cholesterol	Na_to_K \
0	HIGH	25.355
1	HIGHHIGH	38.448
2	HIGHHIGHHIGH	48.562
3	HIGHHIGHHIGHHIGH	56.360
4	HIGHHIGHHIGHHIGHHIGH	74.403
..
195	HIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHNORMALHIGH...	3169.628
196	HIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHNORMALHIGH...	3181.634
197	HIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHNORMALHIGH...	3191.528
198	HIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHNORMALHIGH...	3205.548
199	HIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHHIGHNORMALHIGH...	3216.897

	Drug
0	drugY
1	drugYdrugC
2	drugYdrugCdrugC

```

3          drugYdrugCdrugCdrugX
4      drugYdrugCdrugCdrugXdrugY
..
195 drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...
196 drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...
197 drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...
198 drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...
199 drugYdrugCdrugCdrugXdrugYdrugXdrugYdrugCdrugYd...

```

[200 rows x 6 columns]

In [40]: `print(df2.count())`

```

Age          200
Sex          200
BP           200
Cholesterol  200
Na_to_K      200
Drug         200
dtype: int64

```

In [41]: `print(df2.min())`

```

Age          15
Sex          F
BP          HIGH
Cholesterol  HIGH
Na_to_K      6.269
Drug        drugA
dtype: object

```

In [42]: `print(df2.max())`

```

Age          74
Sex          M
BP          NORMAL
Cholesterol  NORMAL
Na_to_K      38.247
Drug        drugY
dtype: object

```



```
In [43]: ▶ list(df2)
```

```
Out[43]: ['Age', 'Sex', 'BP', 'Cholesterol', 'Na_to_K', 'Drug']
```

```
In [44]: ▶ print(df2.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 200 entries, 0 to 199
Data columns (total 6 columns):
#   Column          Non-Null Count  Dtype  
---  -
0   Age              200 non-null   int64  
1   Sex              200 non-null   object  
2   BP               200 non-null   object  
3   Cholesterol      200 non-null   object  
4   Na_to_K          200 non-null   float64 
5   Drug             200 non-null   object  
dtypes: float64(1), int64(1), object(4)
memory usage: 9.5+ KB
None
```