

In [1]:

```
import numpy as np
import pandas as pd
```

In [6]:

```
x=pd.read_csv(r"C:\Users\user\Downloads\2015 - 2015.csv")
x
```

Out[6]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563
...	...	...	...	...	...	...	...	...
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443

158 rows × 12 columns



In [7]:

```
x.head(5)
```

Out[7]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Fr
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	0
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	0
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	0
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	0
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	0

In [8]:

```
x.tail(5)
```

Out[8]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Fr
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864	0
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910	0
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193	0
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396	0
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443	0

In [9]:

```
x.dtypes
```

Out[9]:

```
Country          object
Region           object
Happiness Rank   int64
Happiness Score  float64
Standard Error   float64
Economy (GDP per Capita) float64
Family           float64
Health (Life Expectancy) float64
Freedom          float64
Trust (Government Corruption) float64
Generosity       float64
Dystopia Residual float64
dtype: object
```

In [10]:

```
x.index
```

Out[10]:

RangeIndex(start=0, stop=158, step=1)

In [11]:

```
x.describe()
```

Out[11]:

	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom
count	158.000000	158.000000	158.000000	158.000000	158.000000	158.000000	158.000000
mean	79.493671	5.375734	0.047885	0.846137	0.991046	0.630259	0.428615
std	45.754363	1.145010	0.017146	0.403121	0.272369	0.247078	0.150693
min	1.000000	2.839000	0.018480	0.000000	0.000000	0.000000	0.000000
25%	40.250000	4.526000	0.037268	0.545808	0.856823	0.439185	0.328330
50%	79.500000	5.232500	0.043940	0.910245	1.029510	0.696705	0.435515
75%	118.750000	6.243750	0.052300	1.158448	1.214405	0.811013	0.549092
max	158.000000	7.587000	0.136930	1.690420	1.402230	1.025250	0.669730

In [12]:

```
x["Family"]
```

Out[12]:

```
0      1.34951
1      1.40223
2      1.36058
3      1.33095
4      1.32261
...
153    0.77370
154    0.35386
155    0.47489
156    0.41587
157    0.13995
Name: Family, Length: 158, dtype: float64
```

In [14]:

```
x[1:7]
```

Out[14]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Fr
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	C
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	C
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	C
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	C
5	Finland	Western Europe	6	7.406	0.03140	1.29025	1.31826	0.88911	C
6	Netherlands	Western Europe	7	7.378	0.02799	1.32944	1.28017	0.89284	C



In [15]:

```
x.loc[0:7]
```

Out[15]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Fr
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	C
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	C
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	C
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	C
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	C
5	Finland	Western Europe	6	7.406	0.03140	1.29025	1.31826	0.88911	C
6	Netherlands	Western Europe	7	7.378	0.02799	1.32944	1.28017	0.89284	C
7	Sweden	Western Europe	8	7.364	0.03157	1.33171	1.28907	0.91087	C

In [16]:

```
x.iloc[1:7]
```

Out[16]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Fr
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	C
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	C
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	C
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	C
5	Finland	Western Europe	6	7.406	0.03140	1.29025	1.31826	0.88911	C
6	Netherlands	Western Europe	7	7.378	0.02799	1.32944	1.28017	0.89284	C

In [18]:

```
x.loc["country":"Dystopia Residual"]
```

Out[18]:

Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freedom
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In [27]:

```
pd.isna(x)
```

Out[27]:

[illegible]

158 rows × 12 columns

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In [24]:

```
x.fillna(value=10)
```

Out[24]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563
...	...	...	...	...	...	...	...	...
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443

158 rows × 12 columns



In [25]:

```
x.dropna()
```

Out[25]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563
...	...	...	...	...	...	...	...	...
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443

158 rows × 12 columns





In [28]:

```
x.dropna(axis=1,how='any')
```

Out[28]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563
...	...	...	...	...	...	...	...	...
153	Rwanda	Sub-Saharan Africa	154	3.465	0.03464	0.22208	0.77370	0.42864
154	Benin	Sub-Saharan Africa	155	3.340	0.03656	0.28665	0.35386	0.31910
155	Syria	Middle East and Northern Africa	156	3.006	0.05015	0.66320	0.47489	0.72193
156	Burundi	Sub-Saharan Africa	157	2.905	0.08658	0.01530	0.41587	0.22396
157	Togo	Sub-Saharan Africa	158	2.839	0.06727	0.20868	0.13995	0.28443

158 rows × 12 columns

In [29]:

```
x.columns
```

Out[29]:

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

In [ ]: