```
In [1]: import pandas as pd
        import seaborn as sns
        import matplotlib.pyplot as plt
In [3]: |url="https://www.worldlifeexpectancy.com/country-health-profile/india/"
        tables = pd.read_html(url)
        for i, table in enumerate(tables):
           print(f"Table {i+1}:")
           print(table)
           print("\n")
        34
                    06/30/21 30.411m 2.237m 412688
                                                       57207
        35
                    05/31/21 28.174m 9.017m 355481
                                                      137080
                    04/30/21 19.157m 6.936m 218401
        36
                                                       50931
        37
                    03/31/21 12.221m 1.109m 167470
                                                        5911
                    02/28/21 11.112m 353437 161559
        38
                                                        2839
                    01/31/21 10.759m 472290 158720
        39
                                                        5589
                    12/31/20 10.286m 823075 153131
        40
                                                       11701
        41
                    11/30/20
                              9.463m
                                       1.28m 141430
                                                       15954
        42
                    10/31/20
                              8.183m 1.873m 125476
                                                       24074
        43
                    09/30/20
                               6.31m 2.622m 101402
                                                       34122
                              3.688m 1.991m 67280
        44
                    08/31/20
                                                       29783
        45
                    07/31/20
                              1.697m 1.111m
                                              37497
                                                       19704
                                               17793
        46
                    06/30/20
                               585792 395183
                                                       12293
        47
                    05/31/20
                               190609 155746
                                                5500
                                                        4341
                                        33466
        48
                                34863
                                                1159
                    04/30/20
                                                        1123
        49
                    03/31/20
                                 1397
                                        1394
                                                  36
                                                          36
        50
                    02/29/20
                                    3
                                           3
                                                   0
                                                           0
        51
                    01/31/20
                                    0
                                           0
                                                   0
                                                           0
```

```
In [8]: if tables:
            # Access and print the second table
            second_table = tables[1] # Correct variable name
            print("Second Table:")
            print(second_table) # Use the correct variable name
        else:
            print("No tables found on the webpage.")
        Second Table:
            TOP 50 CAUSES OF DEATH TOP 50 CAUSES OF DEATH.1
                                                              Rate World Rank
                                     Coronary Heart Disease 140.72
                              1.0
                                                                            55
        1
                               2.0
                                              Lung Disease
                                                            87.90
                                                                             3
        2
                               3.0
                                                    Stroke
                                                            64.97
                                                                           113
        3
                               4.0
                                        Diarrhoeal diseases
                                                            64.45
                                                                            20
        4
                               5.0 Influenza and Pneumonia
                                                            35.30
                                                                            77
        5
                                              Tuberculosis
                                                            32.84
                               6.0
                                                                            32
                                                                            97
        6
                              7.0
                                         Diabetes Mellitus 25.49
        7
                               8.0
                                             Liver Disease 22.24
                                                                            83
                                                            21.87
        8
                              9.0
                                                      Falls
                                                                            1
        9
                              10.0
                                            Kidney Disease
                                                             19.90
                                                                           107
        10
                              11.0
                                                    Asthma
                                                             18.49
                                                                            24
        11
                              12.0
                                     Road Traffic Accidents
                                                             16.33
                                                                            90
        12
                              13.0
                                     Alzheimers & Dementia
                                                             14.60
                                                                           137
                             14.0
        13
                                             Breast Cancer
                                                             13.62
                                                                           125
                              15.0
                                                   Suicide 12.91
                                                                            41
        14
                                            Other Injuries 12.19
        15
                              16.0
                                                                            44
                              17.0
                                           Low Birth Weight
                                                            11.98
                                                                            19
        16
                                               Oral Cancer
        17
                              18.0
                                                            11.45
                                                                            6
        18
                              19.0 Rheumatic Heart Disease
                                                            10.94
                                                                             8
        19
                              20.0
                                              Hypertension
                                                            10.68
                                                                           128
        20
                              21.0
                                              Lung Cancers
                                                              7.82
                                                                           117
                                                              7.46
                                                                           100
        21
                              22.0
                                           Cervical Cancer
        22
                              23.0
                                            Stomach Cancer
                                                              7.07
                                                                            76
                                      Colon-Rectum Cancers
        23
                              24.0
                                                              7.03
                                                                           118
        24
                              25.0
                                            Prostate Cancer
                                                              6.69
                                                                           147
In [6]: if tables:
            # Access and print the first table
            first_table = tables[0]
            print("First Table:")
            print(first_table)
        else:
            print("No tables found on the webpage.")
        First Table:
           Unnamed: 0_level_0 Unnamed: 1_level_0 Unnamed: 2_level_0 World Rank
           Unnamed: 0_level_1
                                                            Female
                                           Male
                                                                           М
        0
                     At Birth
                                            69.5
                                                              72.2
                                                                          107 122
                        Age 5
        1
                                           71.9
                                                              74.7
                                                                           98 119
        2
                       Age 10
                                           72.1
                                                              74.9
                                                                           98 120
        3
                       Age 15
                                           72.2
                                                              75.1
                                                                           96 120
        4
                       Age 20
                                           72.4
                                                              75.4
                                                                           98 118
        5
                       Age 25
                                           72.8
                                                              75.7
                                                                           97 116
        6
                                                              76.0
                                                                           97 116
                       Age 30
                                           73.2
                                                                           94 115
        7
                       Age 35
                                           73.6
                                                              76.3
                                                                           93 115
        8
                                           74.2
                                                              76.7
                       Age 40
        9
                                           74.9
                                                              77.1
                                                                           91 113
                       Age 45
        10
                       Age 50
                                           75.7
                                                              77.7
                                                                           91 115
                                                                           87
        11
                       Age 55
                                            76.7
                                                              78.5
                                                                               113
                                            78.1
                                                              79.5
                                                                           85
                                                                               110
        12
                       Age 60
        13
                       Age 65
                                           79.7
                                                              80.9
                                                                           84
                                                                               106
        14
                       Age 70
                                           81.7
                                                              82.6
                                                                           88 106
        15
                       Age 75
                                           84.0
                                                              84.7
                                                                           84 104
```

87.1

90.4

86.7 90.1

16

17

Age 80

Age 85

86 109

95

77

```
In [9]: if tables:
    # Access and print the second table
    third_table = tables[2] # Correct variable name
    print("Third Table:")
    print(third_table) # Use the correct variable name
else:
    print("No tables found on the webpage.")
```

Third Table:			
TOP 50 CAUSES OF DEATH	TOP 50 CAUSES OF DEATH.1	Rate	World Rank
0 26.0	Peptic Ulcer Disease	6.24	42
1 27.0	Birth Trauma	5.11	64
2 28.0	Congenital Anomalies	4.70	122
3 29.0	Parkinson's Disease	4.57	65
4 30.0	Encephalitis		3
5 31.0	Violence	3.84	104
6 32.0	Drownings	3.76	51
7 33.0	Ovary Cancer	3.73	120
8 34.0	Lymphomas		136
9 35.0	Oesophagus Cancer		57
10 36.0	HIV/AIDS	3.35	87
11 37.0	Pancreas Cancer		113
12 38.0	Leukemia	2.79	129
13 39.0	Liver Cancer	2.67	175
14 40.0	Meningitis	2.52	55
15 41.0	Epilepsy		47
16 42.0	Fires		79
17 43.0	Alcohol	1.81	68
18 44.0	Maternal Conditions	1.79	74
19 45.0	Skin Disease	1.62	92
20 46.0	Dengue		5
21 47.0	Bladder Cancer		140
22 48.0	Endocrine Disorders		169
23 49.0	Rheumatoid Arthritis		4
24 50.0	Uterin Cancer	1.19	155

```
In [10]: if tables:
             # Access and print the second table
             fourth_table = tables[1] # Correct variable name
             print("Fourth Table:")
             print(fourth_table) # Use the correct variable name
         else:
             print("No tables found on the webpage.")
         Fourth Table:
             TOP 50 CAUSES OF DEATH TOP 50 CAUSES OF DEATH.1
                                                                 Rate World Rank
                                      Coronary Heart Disease 140.72
                                1.0
                                                                               55
         1
                                2.0
                                                Lung Disease
                                                               87.90
                                                                               3
         2
                                3.0
                                                       Stroke
                                                                64.97
                                                                              113
         3
                                4.0
                                         Diarrhoeal diseases
                                                                64.45
                                                                               20
         4
                                5.0 Influenza and Pneumonia
                                                                35.30
                                                                               77
         5
                                                Tuberculosis
                                6.0
                                                                32.84
                                                                               32
                                                              25.49
                                                                               97
         6
                                7.0
                                           Diabetes Mellitus
                                               Liver Disease
         7
                                8.0
                                                                22.24
                                                                               83
         8
                                9.0
                                                        Falls
                                                                21.87
                                                                               1
         9
                               10.0
                                              Kidney Disease
                                                                19.90
                                                                              107
         10
                               11.0
                                                       Asthma
                                                                18.49
                                                                               24
         11
                               12.0
                                      Road Traffic Accidents
                                                                16.33
                                                                               90
         12
                               13.0
                                       Alzheimers & Dementia
                                                                14.60
                                                                              137
                               14.0
         13
                                               Breast Cancer
                                                                13.62
                                                                              125
                               15.0
                                                     Suicide
                                                              12.91
                                                                               41
         14
                                              Other Injuries
         15
                               16.0
                                                              12.19
                                                                               44
                               17.0
                                            Low Birth Weight
                                                               11.98
                                                                               19
         16
                                                 Oral Cancer
         17
                               18.0
                                                               11.45
                                                                                6
         18
                               19.0 Rheumatic Heart Disease
                                                               10.94
                                                                                8
         19
                               20.0
                                                Hypertension
                                                               10.68
                                                                              128
         20
                               21.0
                                                Lung Cancers
                                                                7.82
                                                                              117
                                             Cervical Cancer
                                                                7.46
         21
                               22.0
                                                                              100
         22
                               23.0
                                              Stomach Cancer
                                                                7.07
                                                                              76
                                        Colon-Rectum Cancers
         23
                                                                7.03
                                                                              118
                               24.0
         24
                               25.0
                                             Prostate Cancer
                                                                 6.69
                                                                              147
In [15]: first_table.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 25 entries, 0 to 24
         Data columns (total 4 columns):
                                        Non-Null Count Dtype
          #
             Column
              TOP 50 CAUSES OF DEATH
          0
                                        25 non-null
                                                        float64
              TOP 50 CAUSES OF DEATH.1 25 non-null
          1
                                                         object
                                        25 non-null
              Rate
                                                         float64
              World Rank
                                        25 non-null
                                                        int64
         dtypes: float64(2), int64(1), object(1)
         memory usage: 932.0+ bytes
In [16]: first_table.head()
Out[16]:
            TOP 50 CAUSES OF DEATH TOP 50 CAUSES OF DEATH.1 Rate
                                                                 World Rank
          0
                               1.0
                                        Coronary Heart Disease 140.72
                                                                        55
```

Lung Disease

Diarrhoeal diseases

Influenza and Pneumonia

Stroke

87 90

64 97

64.45

35.30

3

113

20

77

20

3.0

4.0

5.0

1

2

3

```
In [17]: | first_table.tail()
```

## Out[17]:

	TOP 50 CAUSES OF DEATH	TOP 50 CAUSES OF DEATH.1	Rate	World Rank
20	21.0	Lung Cancers	7.82	117
21	22.0	Cervical Cancer	7.46	100
22	23.0	Stomach Cancer	7.07	76
23	24.0	Colon-Rectum Cancers	7.03	118
24	25.0	Prostate Cancer	6.69	147

In [18]: first\_table.describe()

## Out[18]:

	TOP 50 CAUSES OF DEATH	Rate	World Rank
count	25.000000	25.000000	25.000000
mean	13.000000	27.397600	70.720000
std	7.359801	31.340038	47.609978
min	1.000000	6.690000	1.000000
25%	7.000000	10.940000	24.000000
50%	13.000000	14.600000	77.000000
75%	19.000000	25.490000	113.000000
max	25.000000	140.720000	147.000000

In [19]: first\_table.dropna()

Out[19]:

	TOP 50 CAUSES OF DEATH	TOP 50 CAUSES OF DEATH.1	Rate	World Rank
0	1.0	Coronary Heart Disease	140.72	55
1	2.0	Lung Disease	87.90	3
2	3.0	Stroke	64.97	113
3	4.0	Diarrhoeal diseases	64.45	20
4	5.0	Influenza and Pneumonia	35.30	77
5	6.0	Tuberculosis	32.84	32
6	7.0	Diabetes Mellitus	25.49	97
7	8.0	Liver Disease	22.24	83
8	9.0	Falls	21.87	1
9	10.0	Kidney Disease	19.90	107
10	11.0	Asthma	18.49	24
11	12.0	Road Traffic Accidents	16.33	90
12	13.0	Alzheimers & Dementia	14.60	137
13	14.0	Breast Cancer	13.62	125
14	15.0	Suicide	12.91	41
15	16.0	Other Injuries	12.19	44
16	17.0	Low Birth Weight	11.98	19
17	18.0	Oral Cancer	11.45	6
18	19.0	Rheumatic Heart Disease	10.94	8
19	20.0	Hypertension	10.68	128
20	21.0	Lung Cancers	7.82	117
21	22.0	Cervical Cancer	7.46	100
22	23.0	Stomach Cancer	7.07	76
23	24.0	Colon-Rectum Cancers	7.03	118
24	25.0	Prostate Cancer	6.69	147

```
In [21]: x=first_table.mean(numeric_only=True)
```

In [22]: x

Out[22]: TOP 50 CAUSES OF DEATH 13.0000 Rate 27.3976 World Rank 70.7200

dtype: float64

In [23]: first\_table\_filled=first\_table.fillna(x)

```
In [24]: first_table_filled
```

## Out[24]:

	TOP 50 CAUSES OF DEATH	TOP 50 CAUSES OF DEATH.1	Rate	World Rank
0	1.0	Coronary Heart Disease	140.72	55
1	2.0	Lung Disease	87.90	3
2	3.0	Stroke	64.97	113
3	4.0	Diarrhoeal diseases	64.45	20
4	5.0	Influenza and Pneumonia	35.30	77
5	6.0	Tuberculosis	32.84	32
6	7.0	Diabetes Mellitus	25.49	97
7	8.0	Liver Disease	22.24	83
8	9.0	Falls	21.87	1
9	10.0	Kidney Disease	19.90	107
10	11.0	Asthma	18.49	24
11	12.0	Road Traffic Accidents	16.33	90
12	13.0	Alzheimers & Dementia	14.60	137
13	14.0	Breast Cancer	13.62	125
14	15.0	Suicide	12.91	41
15	16.0	Other Injuries	12.19	44
16	17.0	Low Birth Weight	11.98	19
17	18.0	Oral Cancer	11.45	6
18	19.0	Rheumatic Heart Disease	10.94	8
19	20.0	Hypertension	10.68	128
20	21.0	Lung Cancers	7.82	117
21	22.0	Cervical Cancer	7.46	100
22	23.0	Stomach Cancer	7.07	76
23	24.0	Colon-Rectum Cancers	7.03	118
24	25.0	Prostate Cancer	6.69	147

## In [25]: first\_table\_filled.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 25 entries, 0 to 24
Data columns (total 4 columns):

#	Column	Non-Null Count	Dtype
0	TOP 50 CAUSES OF DEATH	25 non-null	float64
1	TOP 50 CAUSES OF DEATH.1	25 non-null	object
2	Rate	25 non-null	float64
3	World Rank	25 non-null	int64

dtypes: float64(2), int64(1), object(1)

memory usage: 932.0+ bytes

```
In [26]: first_table_filled.to_csv("highest chance of death",index=False)
```

```
In [28]: url2="https://www.worldatlas.com/articles/the-leading-causes-of-death-in-india.html"
         tables = pd.read_html(url)
         for i, table in enumerate(tables):
             print(f"Table {i+1}:")
             print(table)
             print("\n")
         Table 1:
            Unnamed: 0_level_0 Unnamed: 1_level_0 Unnamed: 2_level_0 World Rank
            Unnamed: 0_level_1
                                                                                    F
                                             Male
                                                               Female
                      At Birth
                                              69.5
                                                                 72.2
                                                                             107 122
                                              71.9
                                                                 74.7
         1
                         Age 5
                                                                              98 119
         2
                        Age 10
                                              72.1
                                                                 74.9
                                                                              98 120
         3
                        Age 15
                                              72.2
                                                                 75.1
                                                                              96 120
         4
                        Age 20
                                             72.4
                                                                 75.4
                                                                              98 118
         5
                                                                              97 116
                        Age 25
                                             72.8
                                                                 75.7
                                                                              97 116
         6
                        Age 30
                                             73.2
                                                                 76.0
         7
                        Age 35
                                             73.6
                                                                 76.3
                                                                              94 115
         8
                                             74.2
                                                                 76.7
                                                                              93 115
                        Age 40
         9
                        Age 45
                                              74.9
                                                                 77.1
                                                                              91 113
         10
                                              75.7
                                                                 77.7
                                                                              91
                                                                                  115
                        Age 50
         11
                        Age 55
                                              76.7
                                                                 78.5
                                                                              87
                                                                                  113
         12
                        Age 60
                                              78.1
                                                                 79.5
                                                                              85
                                                                                  110
         13
                        Age 65
                                              79.7
                                                                 80.9
                                                                              84
                                                                                  106
                                             81.7
                                                                              88 106
         14
                        Age 70
                                                                 82.6
         15
                        Age 75
                                              84.0
                                                                 84.7
                                                                              84 104
In [29]: if tables:
             # Access and print the second table
             first_table = tables[0] # Correct variable name
             print("First Table:")
             print(first_table) # Use the correct variable name
         else:
             print("No tables found on the webpage.")
         First Table:
            Unnamed: 0_level_0 Unnamed: 1_level_0 Unnamed: 2_level_0 World Rank
                                                               Female
                                                                                    F
            Unnamed: 0_level_1
                                             Male
                                                                               М
         0
                      At Birth
                                              69.5
                                                                 72.2
                                                                             107 122
         1
                         Age 5
                                              71.9
                                                                 74.7
                                                                              98 119
         2
                        Age 10
                                              72.1
                                                                 74.9
                                                                              98
                                                                                  120
         3
                                              72.2
                                                                 75.1
                                                                              96
                                                                                  120
                        Age 15
         4
                        Age 20
                                              72.4
                                                                 75.4
                                                                              98
                                                                                  118
         5
                        Age 25
                                              72.8
                                                                 75.7
                                                                              97
                                                                                  116
         6
                                                                              97
                        Age 30
                                              73.2
                                                                 76.0
                                                                                  116
```

7

8

9

10

11

12

13

14

15

16

17

Age 35

Age 40

Age 45

Age 50

Age 55

Age 60

Age 65

Age 70

Age 75

Age 80 Age 85 73.6

74.2

74.9

75.7

76.7

78.1

79.7

81.7

84.0

86.7

90.1

76.3

76.7

77.1

77.7

78.5

79.5

80.9

82.6

84.7

87.1

90.4

94 115

93 115

91 113

91 115

87 113

85 110

84 106

88 106

84 104

86 109

95

77

```
In [30]: first_table.info()
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 18 entries, 0 to 17
          Data columns (total 5 columns):
                                                            Non-Null Count Dtype
              Column
           0
               (Unnamed: 0_level_0, Unnamed: 0_level_1) 18 non-null
                                                                             object
               (Unnamed: 1_level_0, Male)
           1
                                                            18 non-null
                                                                             float64
               (Unnamed: 2_level_0, Female)
                                                            18 non-null
                                                                             float64
               (World Rank, M)
                                                            18 non-null
           3
                                                                             int64
                                                            18 non-null
               (World Rank, F)
                                                                             int64
          dtypes: float64(2), int64(2), object(1)
          memory usage: 852.0+ bytes
In [31]: first_table.describe()
Out[31]:
                 Unnamed: 1_level_0 Unnamed: 2_level_0 World Rank
                 Male
                                  Female
          count
                         18.000000
                                           18.000000
                                                     18.000000
                                                                18.000000
                         76.638889
           mean
                                           78.638889
                                                     91.722222 112.888889
                          5.693561
             std
                                            4.791308
                                                      7.209516
                                                                 6.850409
                         69.500000
                                           72.200000
                                                     77.000000
                                                                95.000000
            min
                         72.500000
            25%
                                           75.475000
                                                     86.250000 109.250000
            50%
                         74.550000
                                           76.900000
                                                     92.000000
                                                               115.000000
            75%
                         79.300000
                                           80.550000
                                                     97.000000 117.500000
                         90.100000
                                           90.400000 107.000000 122.000000
            max
In [32]: x=first_table.mean(numeric_only=True)
In [33]: x
Out[33]: Unnamed: 1_level_0 Male
                                           76.638889
          Unnamed: 2_level_0 Female
                                           78.638889
          World Rank
                               Μ
                                           91.722222
                               F
                                          112.888889
          dtype: float64
In [35]: First_Table=first_table.fillna(x)
```

In [36]: First\_Table

Out[36]:

	Unnamed: 0_level_0	Unnamed: 1_level_0 Unnamed: 2_level_		World	Rank
	Unnamed: 0_level_1	Male	Female	М	F
0	At Birth	69.5	72.2	107	122
1	Age 5	71.9	74.7	98	119
2	Age 10	72.1	74.9	98	120
3	Age 15	72.2	75.1	96	120
4	Age 20	72.4	75.4	98	118
5	Age 25	72.8	75.7	97	116
6	Age 30	73.2	76.0	97	116
7	Age 35	73.6	76.3	94	115
8	Age 40	74.2	76.7	93	115
9	Age 45	74.9	77.1	91	113
10	Age 50	75.7	77.7	91	115
11	Age 55	76.7	78.5	87	113
12	Age 60	78.1	79.5	85	110
13	Age 65	79.7	80.9	84	106
14	Age 70	81.7	82.6	88	106
15	Age 75	84.0	84.7	84	104
16	Age 80	86.7	87.1	86	109
17	Age 85	90.1	90.4	77	95

In [38]: First\_Table.describe().T

Out[38]:

		count	mean	std	min	25%	50%	75%	max
Unnamed: 1_level_0	Male	18.0	76.638889	5.693561	69.5	72.500	74.55	79.30	90.1
Unnamed: 2_level_0	Female	18.0	78.638889	4.791308	72.2	75.475	76.90	80.55	90.4
World Rank	М	18.0	91.722222	7.209516	77.0	86.250	92.00	97.00	107.0
	F	18.0	112.888889	6.850409	95.0	109.250	115.00	117.50	122.0

In [40]: first\_table\_filled.describe().T

Out[40]:

	count	mean	std	min	25%	50%	75%	max
TOP 50 CAUSES OF DEATH	25.0	13.0000	7.359801	1.00	7.00	13.0	19.00	25.00
Rate	25.0	27.3976	31.340038	6.69	10.94	14.6	25.49	140.72
World Rank	25.0	70.7200	47.609978	1.00	24.00	77.0	113.00	147.00

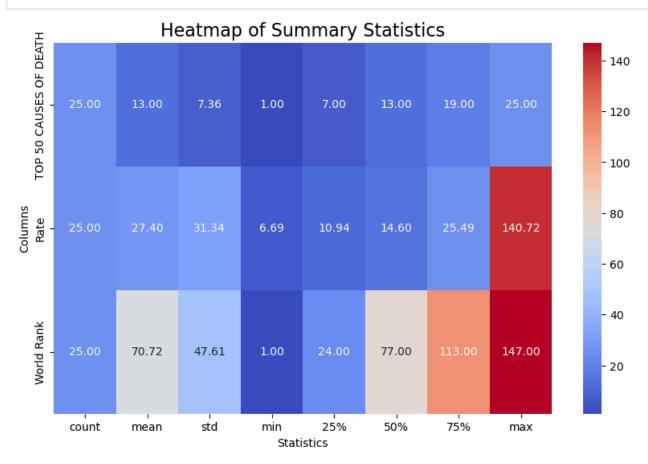
```
In [41]: import seaborn as sns
  import matplotlib.pyplot as plt

# Compute the summary statistics and transpose the result
  summary_stats = first_table_filled.describe().T

# Create a heatmap
  plt.figure(figsize=(10, 6))
  sns.heatmap(summary_stats, annot=True, cmap="coolwarm", fmt=".2f")

# Add titles and LabeLs
  plt.title("Heatmap of Summary Statistics", fontsize=16)
  plt.xlabel("Statistics")
  plt.ylabel("Columns")

# Show the heatmap
  plt.show()
```

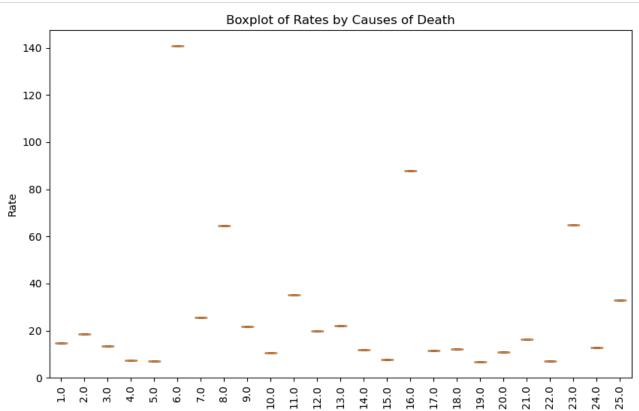


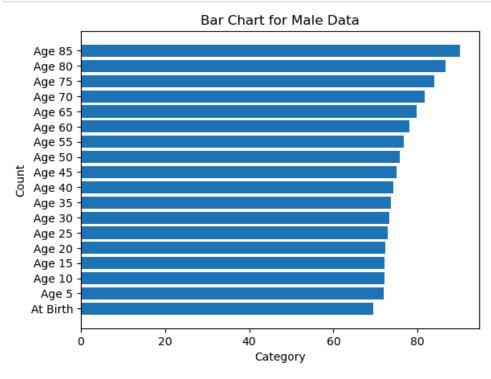
```
In [49]: |plt.barh(first_table_filled['TOP 50 CAUSES OF DEATH'],first_table_filled["Rate"])
Out[49]: <BarContainer object of 25 artists>
            25
            20
            15
            10
             5
             0
                         20
                                   40
                                             60
                                                       80
                                                                100
                                                                          120
                                                                                    140
In [47]: print(first_table_filled.columns)
          Index(['TOP 50 CAUSES OF DEATH', 'TOP 50 CAUSES OF DEATH.1', 'Rate',
                   'World Rank'],
                 dtype='object')
In [ ]:
In [58]: |plt.barh(first_table_filled["TOP 50 CAUSES OF DEATH.1"],first_table_filled["Rate"])
Out[58]: <BarContainer object of 25 artists>
                      Prostate Cancer
               Colon-Rectum Cancers
                     Stomach Cancer
Cervical Cancer
Lung Cancers
Hypertension
            Rheumatic Heart Disease
                    Oral Cancer
Low Birth Weight
Other Injuries
                               Súicide
                        Breast Cancer
              Alzheimers & Dementia
               Road Traffic Accidents
                               Asthma
                       Kidney Disease
                                  Falls
                    Liver Disease
Diabetes Mellitus
                          Tuberculosis
            Influenza and Pneumonia
                  Diarrhoeal diseases
                                Stroke
                        Lung Disease
             Coronary Heart Disease
                                                                                        100
                                       0
                                                20
                                                          40
                                                                    60
                                                                              80
                                                                                                 120
                                                                                                            140
```

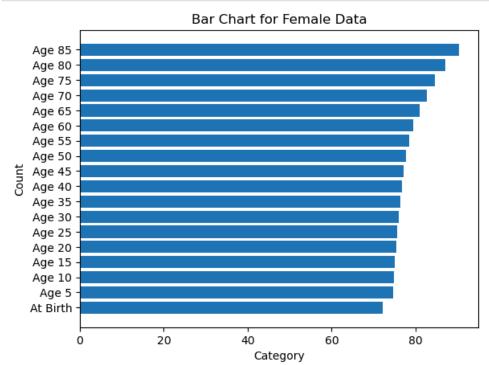
```
In [64]: import matplotlib.pyplot as plt

# Group the data
grouped_data = [group["Rate"].values for _, group in first_table_filled.groupby("TOP 50 CAUSES OF DEATH.

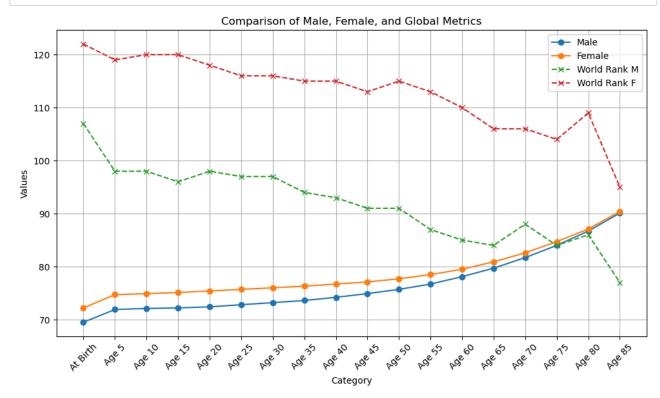
# Create the boxplot
plt.figure(figsize=(10, 6))
plt.boxplot(grouped_data, labels=first_table_filled["TOP 50 CAUSES OF DEATH"].unique(), vert=True)
plt.xticks(rotation=90) # Rotate Labels for better readability
plt.ylabel("Rate")
plt.title("Boxplot of Rates by Causes of Death")
plt.show()
```







```
In [76]: import matplotlib.pyplot as plt
          # Extracting columns
          categories = First_Table[('Unnamed: 0_level_0', 'Unnamed: 0_level_1')] # X-axis Labels
          male_values = First_Table[('Unnamed: 1_level_0', 'Male')]
          female_values = First_Table[('Unnamed: 2_level_0', 'Female')]
          world_rank_m = First_Table[('World Rank', 'M')]
          world_rank_f = First_Table[('World Rank', 'F')]
          # Plotting
          plt.figure(figsize=(10, 6))
          plt.plot(categories, male_values, label='Male', marker='o')
          plt.plot(categories, female_values, label='Female', marker='o')
          plt.plot(categories, world_rank_m, label='World Rank M', linestyle='--', marker='x')
plt.plot(categories, world_rank_f, label='World Rank F', linestyle='--', marker='x')
          # Adding labels and title
          plt.xlabel('Category')
          plt.ylabel('Values')
          plt.title('Comparison of Male, Female, and Global Metrics')
          plt.legend()
          plt.xticks(rotation=45)
          plt.grid(True)
          # Display the chart
          plt.tight_layout()
          plt.show()
```



```
In [77]: import matplotlib.pyplot as plt
         # Extracting columns
         categories = First_Table[('Unnamed: 0_level_0', 'Unnamed: 0_level_1')] # X-axis Labels
         male_values = First_Table[('Unnamed: 1_level_0', 'Male')]
         female_values = First_Table[('Unnamed: 2_level_0', 'Female')]
         world_rank_m = First_Table[('World Rank', 'M')]
         world_rank_f = First_Table[('World Rank', 'F')]
         # Plotting
         plt.figure(figsize=(10, 6))
         # Area for Male
         plt.fill_between(categories, male_values, label='Male', alpha=0.6, color='blue')
         # Area for Female
         plt.fill between(categories, female values, label='Female', alpha=0.6, color='pink')
         # Area for World Rank M
         plt.fill_between(categories, world_rank_m, label='World Rank M', alpha=0.6, color='green')
         # Area for World Rank F
         plt.fill_between(categories, world_rank_f, label='World Rank F', alpha=0.6, color='orange')
         # Adding labels and title
         plt.xlabel('Category')
         plt.ylabel('Values')
         plt.title('Area Chart: Comparison of Male, Female, and Global Metrics')
         plt.legend()
         plt.xticks(rotation=45)
         plt.grid(True, alpha=0.3)
         # Display the chart
         plt.tight_layout()
         plt.show()
```

