Cleaning Data Once Again

November 12, 2021

[2]:
```
import pandas as pd
import dataframe_image as dfi
```

0.0.1 Preparing all data

[3]:
```
#Country List
country_list = ['Germany', 'United Kingdom', 'France', 'Italy', 'Russia',␣
↪'Spain', 'Netherlands', 'Switzerland', 'Turkey', 'Poland']
```

Legend: VO: Vegetable Oil Consumption

FC: Macronutrient Consumption

CAD: Coronary Artery Disease Mortality

HCD: HealthCareDataIndex

[4]:
```
vo = pd.read_csv('VegetableOilConsumptionPerCapita2007_2011.csv')
mnc = pd.read_csv('top10GDPEurope.csv')
cad = pd.read_csv('HeartDiseaseMortality2007_2011.csv')
hcd = pd.read_csv('formattedHealthCareData.csv')
```

Visualizing Data

[96]:
```
vo.head(3)
```

[96]:

	Countries	Units	2007	2008	2009	2010	2011
0	France	kcal	507.945205	517.808219	530.136986	520.273973	517.808219
1	Germany	kcal	451.232877	461.095890	446.301370	433.972603	429.041096
2	Italy	kcal	673.150685	675.616438	658.356164	680.547945	690.410959

[97]:
```
mnc.head(3)
```

[97]:

	Unnamed: 0	Entity	Code	Year	Animal protein	Plant protein	Fat	Carbohydrates	Protein
0	0	France	FRA	2007	285.96	156.44	1443.69	1579.91	442.40
1	1	France	FRA	2008	285.12	165.20	1505.97		
2	2	France	FRA	2009	285.36	159.40	1485.99		

```
1        1594.71   450.32
2        1599.25   444.76
```

[7]:
```
cad.head(3)
```

[7]:
```
   Unnamed: 0       Entity Code  Year      Deaths
0           0  Afghanistan  AFG  2007  707.188774
1           1  Afghanistan  AFG  2008  693.448663
2           2  Afghanistan  AFG  2009  677.845507
```

[8]:
```
hcd.head(3)
```

[8]:
```
   Unnamed: 0      Country  Health Care Index  Infrastructure  Professionals  \
0           0  South Korea              78.72           87.16          14.23
1           1       Taiwan              77.70           79.05          13.06
2           2      Denmark              74.11           90.75          30.01

    Cost  Medicine Availability  Government Readiness
0  83.59                  82.30                 87.89
1  78.39                  78.99                 65.09
2  82.59                  92.06                 96.30
```

What I saw? Need to reshape Vegetable Oil Table

Need to filter data from the country_list

What to do? Filter and the describe data:

Since I chose 5 years and 10 counties there should be 50 items in count when I describe the data

CAD filtering

[14]:
```
cad[cad['Entity'].isin(country_list)].describe()
```

[14]:
```
       Unnamed: 0         Year      Deaths
count    50.00000    50.000000   50.000000
mean    775.00000  2009.000000  196.486640
std     257.22816     1.428571  135.247507
min     370.00000  2007.000000  101.182683
25%     512.25000  2008.000000  125.727912
50%     829.50000  2009.000000  138.600611
75%     996.75000  2010.000000  186.434305
max    1084.00000  2011.000000  608.128850
```

[15]:
```
#Saving info in variable
cad = cad[cad['Entity'].isin(country_list)]
```

Health Care Index Filter

There should be a count of 10 as I am searching the index for 10 countries

[18]:
```
hcd[hcd['Country'].isin(country_list)].describe()
```

[18]:

	Unnamed: 0	Health Care Index	Infrastructure	Professionals	\
count	10.000000	10.000000	10.000000	10.000000	
mean	27.200000	51.365000	80.164000	17.881000	
std	22.493456	11.462612	9.585089	6.847948	
min	6.000000	35.960000	64.760000	13.180000	
25%	9.250000	40.372500	77.792500	13.570000	
50%	16.500000	52.275000	79.010000	14.545000	
75%	46.500000	61.337500	85.555000	20.472500	
max	64.000000	65.380000	97.400000	34.250000	

	Cost	Medicine Availability	Government Readiness
count	10.000000	10.000000	10.00000
mean	68.568000	72.391000	88.18400
std	10.415315	17.698151	5.76143
min	51.700000	47.830000	78.63000
25%	65.575000	58.622500	85.19250
50%	69.260000	68.485000	88.36500
75%	74.662500	88.642500	92.72250
max	87.030000	98.430000	96.80000

[19]:
```
#Saving Info
hcd = hcd[hcd['Country'].isin(country_list)]
```

VO filtering

Only 10 columns should appear as data is formated differently

[22]:
```
vo[vo['Countries'].isin(country_list)].describe()
```

[22]:

	Unnamed: 0	2007	2008	2009	2010
count	10.000000	10.000000	10.000000	10.000000	10.000000
mean	109.100000	19.100000	19.560000	19.740000	19.950000
std	37.492073	5.564371	5.468333	5.800421	6.050574
min	50.000000	11.200000	11.900000	12.400000	11.800000
25%	80.750000	16.050000	16.725000	15.325000	16.325000
50%	120.500000	18.350000	19.200000	18.950000	19.250000
75%	136.500000	22.925000	22.050000	22.925000	22.525000
max	151.000000	27.300000	27.900000	30.000000	31.000000

[23]:
```
vo = vo[vo['Countries'].isin(country_list)]
```

Fixing the VO Table

[29]:
```
vo.reset_index(inplace = True)
```

	level_0	index	Unnamed: 0	Countries	Units	2007	2008	2009	2010	\
0	0	49	50	France	kg	20.6	21.0	21.5	21.1	
1	1	53	54	Germany	kg	18.3	18.7	18.1	17.6	

```
2        2     71          72           Italy    kg  27.3  27.4  26.7  27.6
3        3    106         107     Netherlands    kg  15.8  16.2  14.4  15.9
4        4    118         119          Poland    kg  11.2  11.9  13.0  11.8
5        5    121         122          Russia    kg  12.1  12.1  12.4  13.0
6        6    131         132           Spain    kg  26.8  27.9  30.0  31.0
7        7    137         138     Switzerland    kg  18.4  19.7  19.6  19.8
8        8    145         146          Turkey    kg  23.7  22.4  23.4  23.0
9        9    150         151  United Kingdom    kg  16.8  18.3  18.3  18.7
```

```
   2011
0    21
1  17.4
2    28
3  14.3
4  13.4
5  13.1
6  33.3
7  20.1
8  24.9
9  17.5
```

[31]:
```
vo.drop(['Unnamed: 0'], axis=1, inplace=True)
print(vo)
```

```
        Countries Units  2007  2008  2009  2010  2011
0          France    kg  20.6  21.0  21.5  21.1    21
1         Germany    kg  18.3  18.7  18.1  17.6  17.4
2           Italy    kg  27.3  27.4  26.7  27.6    28
3     Netherlands    kg  15.8  16.2  14.4  15.9  14.3
4          Poland    kg  11.2  11.9  13.0  11.8  13.4
5          Russia    kg  12.1  12.1  12.4  13.0  13.1
6           Spain    kg  26.8  27.9  30.0  31.0  33.3
7     Switzerland    kg  18.4  19.7  19.6  19.8  20.1
8          Turkey    kg  23.7  22.4  23.4  23.0  24.9
9  United Kingdom    kg  16.8  18.3  18.3  18.7  17.5
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\frame.py:4308:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  return super().drop(
```

Converting the Units from kg/year to kcal/day

[41]:
```
vo.iloc[:, 1] = 'kcal'
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\indexing.py:1720:
SettingWithCopyWarning:
```

```
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  self._setitem_single_column(loc, value, pi)
```

[60]:
```
vo.iloc[:, 2 :6] *= 1000
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\indexing.py:1754:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  self._setitem_single_column(loc, val, pi)
```

[62]:
```
vo.iloc[:, 2 :6] /= 365
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\indexing.py:1754:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  self._setitem_single_column(loc, val, pi)
```

[64]:
```
vo.iloc[:, 2 :6] *= 9
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\indexing.py:1754:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  self._setitem_single_column(loc, val, pi)
```

[65]:
```
vo
```

[65]:

	Countries	Units	2007	2008	2009	2010	2011
0	France	kcal	507.945205	517.808219	530.136986	520.273973	21
1	Germany	kcal	451.232877	461.095890	446.301370	433.972603	17.4
2	Italy	kcal	673.150685	675.616438	658.356164	680.547945	28
3	Netherlands	kcal	389.589041	399.452055	355.068493	392.054795	14.3
4	Poland	kcal	276.164384	293.424658	320.547945	290.958904	13.4
5	Russia	kcal	298.356164	298.356164	305.753425	320.547945	13.1

```
6           Spain  kcal  660.821918  687.945205  739.726027  764.383562  33.3
7     Switzerland  kcal  453.698630  485.753425  483.287671  488.219178  20.1
8          Turkey  kcal  584.383562  552.328767  576.986301  567.123288  24.9
9  United Kingdom  kcal  414.246575  451.232877  451.232877  461.095890  17.5
```

Had an issue with column '2011' as it was a string instead of a float

[70]:
```
vo['2011'] = vo['2011'].astype('float64')
```

```
<ipython-input-70-75375df10274>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  vo['2011'] = vo['2011'].astype('float64')
```

[74]:
```
vo['2011'] *= 1000
```

```
<ipython-input-74-21c143fb44e6>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  vo['2011'] *= 1000
```

[76]:
```
vo['2011'] /= 365
```

```
<ipython-input-76-2cb5011ed6fd>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  vo['2011'] /= 365
```

[79]:
```
vo['2011'] *= 9
```

```
<ipython-input-79-34c91d9dd1a0>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  vo['2011'] *= 9
```

Succesfully parsed all the column to kcal/days

[80]:
```
vo
```

[80]:

	Countries	Units	2007	2008	2009	2010	2011
0	France	kcal	507.945205	517.808219	530.136986	520.273973	517.808219
1	Germany	kcal	451.232877	461.095890	446.301370	433.972603	429.041096
2	Italy	kcal	673.150685	675.616438	658.356164	680.547945	690.410959
3	Netherlands	kcal	389.589041	399.452055	355.068493	392.054795	352.602740
4	Poland	kcal	276.164384	293.424658	320.547945	290.958904	330.410959
5	Russia	kcal	298.356164	298.356164	305.753425	320.547945	323.013699
6	Spain	kcal	660.821918	687.945205	739.726027	764.383562	821.095890
7	Switzerland	kcal	453.698630	485.753425	483.287671	488.219178	495.616438
8	Turkey	kcal	584.383562	552.328767	576.986301	567.123288	613.972603
9	United Kingdom	kcal	414.246575	451.232877	451.232877	461.095890	431.506849

Reshaping the VO Table The melt function helps me reshape data

[136]:
```
vou = pd.melt(vo, id_vars=["Countries"])
```

[137]:
```
vou.drop([0,1,2,3,4,5,6,7,8,9], axis=0, inplace=True)
```

[138]:
```
vou.reset_index(inplace=True)
```

[139]:
```
vou.head()
```

[139]:

	index	Countries	variable	value
0	10	France	2007	507.945205
1	11	Germany	2007	451.232877
2	12	Italy	2007	673.150685
3	13	Netherlands	2007	389.589041
4	14	Poland	2007	276.164384

[140]:
```
vou.drop(['index'], axis=1, inplace=True)
```

[141]:
```
vou.rename(columns={'variable':'Year', 'value':'Vegetable Oil'})
```

[141]:

	Countries	Year	Vegetable Oil
0	France	2007	507.945205
1	Germany	2007	451.232877

2	Italy	2007	673.150685
3	Netherlands	2007	389.589041
4	Poland	2007	276.164384
5	Russia	2007	298.356164
6	Spain	2007	660.821918
7	Switzerland	2007	453.69863
8	Turkey	2007	584.383562
9	United Kingdom	2007	414.246575
10	France	2008	517.808219
11	Germany	2008	461.09589
12	Italy	2008	675.616438
13	Netherlands	2008	399.452055
14	Poland	2008	293.424658
15	Russia	2008	298.356164
16	Spain	2008	687.945205
17	Switzerland	2008	485.753425
18	Turkey	2008	552.328767
19	United Kingdom	2008	451.232877
20	France	2009	530.136986
21	Germany	2009	446.30137
22	Italy	2009	658.356164
23	Netherlands	2009	355.068493
24	Poland	2009	320.547945
25	Russia	2009	305.753425
26	Spain	2009	739.726027
27	Switzerland	2009	483.287671
28	Turkey	2009	576.986301
29	United Kingdom	2009	451.232877
30	France	2010	520.273973
31	Germany	2010	433.972603
32	Italy	2010	680.547945
33	Netherlands	2010	392.054795
34	Poland	2010	290.958904
35	Russia	2010	320.547945
36	Spain	2010	764.383562
37	Switzerland	2010	488.219178
38	Turkey	2010	567.123288
39	United Kingdom	2010	461.09589
40	France	2011	517.808219
41	Germany	2011	429.041096
42	Italy	2011	690.410959
43	Netherlands	2011	352.60274
44	Poland	2011	330.410959
45	Russia	2011	323.013699
46	Spain	2011	821.09589
47	Switzerland	2011	495.616438
48	Turkey	2011	613.972603

```
49  United Kingdom  2011    431.506849
```

Analyzed all data

We just need to drop all the junk columns to make a new table and rename set the countries column to 'Entity'

VOU = Countries

MNC = Entity (drop Code)

CAD = Entity (drop Code)

HCD = Country (drop Other than Health Care)

Vegetable Oil Done

[142]:
```
vou.rename(columns={'Countries':'Entity', 'variable':'Year', 'value':'Vegetable␣
↪Oil'},  inplace=True)
```

[143]:
```
vou.head()
```

[143]:
```
         Entity  Year Vegetable Oil
0        France  2007    507.945205
1       Germany  2007    451.232877
2         Italy  2007    673.150685
3   Netherlands  2007    389.589041
4        Poland  2007    276.164384
```

[144]:
```
#Need to convert to the same datatypes
vou.dtypes
```

[144]:
```
Entity           object
Year             object
Vegetable Oil    object
dtype: object
```

[145]:
```
vou
```

[145]:
```
             Entity  Year Vegetable Oil
0            France  2007    507.945205
1           Germany  2007    451.232877
2             Italy  2007    673.150685
3       Netherlands  2007    389.589041
4            Poland  2007    276.164384
5            Russia  2007    298.356164
6             Spain  2007    660.821918
7       Switzerland  2007     453.69863
8            Turkey  2007    584.383562
9    United Kingdom  2007    414.246575
10           France  2008    517.808219
```

11	Germany	2008	461.09589
12	Italy	2008	675.616438
13	Netherlands	2008	399.452055
14	Poland	2008	293.424658
15	Russia	2008	298.356164
16	Spain	2008	687.945205
17	Switzerland	2008	485.753425
18	Turkey	2008	552.328767
19	United Kingdom	2008	451.232877
20	France	2009	530.136986
21	Germany	2009	446.30137
22	Italy	2009	658.356164
23	Netherlands	2009	355.068493
24	Poland	2009	320.547945
25	Russia	2009	305.753425
26	Spain	2009	739.726027
27	Switzerland	2009	483.287671
28	Turkey	2009	576.986301
29	United Kingdom	2009	451.232877
30	France	2010	520.273973
31	Germany	2010	433.972603
32	Italy	2010	680.547945
33	Netherlands	2010	392.054795
34	Poland	2010	290.958904
35	Russia	2010	320.547945
36	Spain	2010	764.383562
37	Switzerland	2010	488.219178
38	Turkey	2010	567.123288
39	United Kingdom	2010	461.09589
40	France	2011	517.808219
41	Germany	2011	429.041096
42	Italy	2011	690.410959
43	Netherlands	2011	352.60274
44	Poland	2011	330.410959
45	Russia	2011	323.013699
46	Spain	2011	821.09589
47	Switzerland	2011	495.616438
48	Turkey	2011	613.972603
49	United Kingdom	2011	431.506849

[146]:
```
vou['Vegetable Oil'] = vou['Vegetable Oil'].astype('float64')
```

[148]:
```
vou['Year'] = vou['Year'].astype('int64')
```

[149]:
```
vou.dtypes
```

[149]:
```
Entity            object
Year               int64
Vegetable Oil    float64
dtype: object
```

Macronutrient Composition Done

[108]:
```
mnc.drop(['Unnamed: 0', 'Code'], axis=1, inplace=True)
```

[109]:
```
mnc.head()
```

[109]:

	Entity	Year	Animal protein	Plant protein	Fat	Carbohydrates	Protein
0	France	2007	285.96	156.44	1443.69	1579.91	442.40
1	France	2008	285.12	165.20	1505.97	1594.71	450.32
2	France	2009	285.36	159.40	1485.99	1599.25	444.76
3	France	2010	283.84	168.80	1471.05	1612.31	452.64
4	France	2011	281.64	165.64	1452.42	1614.30	447.28

[122]:
```
mnc.head().dtypes
```

[122]:
```
Entity            object
Year               int64
Animal protein   float64
Plant protein    float64
Fat              float64
Carbohydrates    float64
Protein          float64
dtype: object
```

Coronary Artery Disease Done

[112]:
```
cad.drop(['Unnamed: 0', 'Code'], axis=1, inplace=True)
```

[113]:
```
cad.head()
```

[113]:

	Entity	Year	Deaths
370	France	2007	112.366845
371	France	2008	110.082662
372	France	2009	107.888487
373	France	2010	104.153629
374	France	2011	101.182683

Heath Care Index Done

[116]:
```
hcd.drop(['Unnamed: 0', 'Infrastructure', 'Professionals', 'Cost', 'Medicine␣
↪Availability', 'Government Readiness'], axis=1, inplace=True)
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\frame.py:4308:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  return super().drop(
```

[119]:
```
hcd.rename(columns={'Country':'Entity'}, inplace=True)
```

```
C:\Users\mauri\anaconda3\lib\site-packages\pandas\core\frame.py:4441:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  return super().rename(
```

[120]:
```
hcd.head()
```

[120]:

	Entity	Health Care Index
6	France	65.38
7	Spain	64.66
9	United Kingdom	61.73
10	Netherlands	60.16
16	Germany	52.30

0.0.2 Time to merge into a table

[150]:
```
mergeTable = pd.merge(mnc,vou)
```

[152]:
```
mergeTable = pd.merge(mergeTable, hcd)
```

[154]:
```
mergeTable = pd.merge(mergeTable, cad)
```

[156]:
```
mergeTable.rename(columns={'Fat':'Total Fat', 'Carbohydrates' : 'Total␣
↪Carbohydrates', 'Protein' : 'Total Protein'}, inplace=True)
```

[157]:
```
mergeTable
```

[157]:

	Entity	Year	Animal protein	Plant protein	Total Fat	\
0	France	2007	285.96	156.44	1443.69	
1	France	2008	285.12	165.20	1505.97	
2	France	2009	285.36	159.40	1485.99	

3	France	2010	283.84	168.80	1471.05
4	France	2011	281.64	165.64	1452.42
5	Germany	2007	248.00	161.96	1314.00
6	Germany	2008	245.52	159.60	1296.99
7	Germany	2009	249.36	160.88	1285.29
8	Germany	2010	247.36	160.20	1296.90
9	Germany	2011	248.92	163.84	1310.85
10	Italy	2007	239.52	203.40	1407.60
11	Italy	2008	240.32	202.04	1403.01
12	Italy	2009	239.72	208.32	1374.57
13	Italy	2010	245.04	201.56	1408.50
14	Italy	2011	240.24	199.28	1417.86
15	Netherlands	2007	282.80	141.28	1184.67
16	Netherlands	2008	294.64	137.36	1194.30
17	Netherlands	2009	304.52	138.24	1142.82
18	Netherlands	2010	288.08	142.96	1126.08
19	Netherlands	2011	284.52	143.28	1102.23
20	Poland	2007	201.92	196.44	1006.83
21	Poland	2008	197.64	194.20	1009.62
22	Poland	2009	205.44	197.20	1048.68
23	Poland	2010	209.16	195.88	1054.62
24	Poland	2011	211.72	197.52	1063.08
25	Russia	2007	205.84	188.24	845.73
26	Russia	2008	210.52	187.72	857.88
27	Russia	2009	212.64	185.84	862.47
28	Russia	2010	216.80	187.04	898.20
29	Russia	2011	216.88	188.16	909.27
30	Spain	2007	289.00	155.96	1325.52
31	Spain	2008	272.36	159.96	1297.89
32	Spain	2009	271.40	160.68	1298.52
33	Spain	2010	269.64	158.20	1296.09
34	Spain	2011	265.28	158.24	1299.06
35	Switzerland	2007	239.36	136.72	1400.94
36	Switzerland	2008	239.52	134.16	1427.85
37	Switzerland	2009	239.76	138.80	1410.30
38	Switzerland	2010	243.08	136.12	1412.55
39	Switzerland	2011	240.72	141.72	1426.50
40	Turkey	2007	115.84	294.84	1021.59
41	Turkey	2008	110.64	291.48	992.97
42	Turkey	2009	112.48	290.40	1012.50
43	Turkey	2010	122.20	291.76	1023.84
44	Turkey	2011	129.56	288.28	1085.58
45	United Kingdom	2007	238.20	179.60	1267.56
46	United Kingdom	2008	230.76	180.76	1261.26
47	United Kingdom	2009	230.36	178.00	1257.66
48	United Kingdom	2010	231.72	176.52	1280.79
49	United Kingdom	2011	234.28	177.44	1243.26

	Total Carbohydrates	Total Protein	Vegetable Oil	Health Care Index	\
0	1579.91	442.40	507.945205	65.38	
1	1594.71	450.32	517.808219	65.38	
2	1599.25	444.76	530.136986	65.38	
3	1612.31	452.64	520.273973	65.38	
4	1614.30	447.28	517.808219	65.38	
5	1803.04	409.96	451.232877	52.30	
6	1814.89	405.12	461.095890	52.30	
7	1819.47	410.24	446.301370	52.30	
8	1799.54	407.56	433.972603	52.30	
9	1814.39	412.76	429.041096	52.30	
10	1767.48	442.92	673.150685	44.43	
11	1749.63	442.36	675.616438	44.43	
12	1776.39	448.04	658.356164	44.43	
13	1727.90	446.60	680.547945	44.43	
14	1717.62	439.52	690.410959	44.43	
15	1628.25	424.08	389.589041	60.16	
16	1601.70	432.00	399.452055	60.16	
17	1627.42	442.76	355.068493	60.16	
18	1650.88	431.04	392.054795	60.16	
19	1681.97	427.80	352.602740	60.16	
20	1958.81	398.36	276.164384	39.02	
21	1944.54	391.84	293.424658	39.02	
22	1966.68	402.64	320.547945	39.02	
23	1953.34	405.04	290.958904	39.02	
24	1970.68	409.24	330.410959	39.02	
25	2069.19	394.08	298.356164	37.76	
26	2055.88	398.24	298.356164	37.76	
27	2012.05	398.48	305.753425	37.76	
28	1999.96	403.84	320.547945	37.76	
29	2016.69	405.04	323.013699	37.76	
30	1452.52	444.96	660.821918	64.66	
31	1477.79	432.32	687.945205	64.66	
32	1474.40	432.08	739.726027	64.66	
33	1459.07	427.84	764.383562	64.66	
34	1469.42	423.52	821.095890	64.66	
35	1650.98	376.08	453.698630	52.25	
36	1643.47	373.68	485.753425	52.25	
37	1676.14	378.56	483.287671	52.25	
38	1656.25	379.20	488.219178	52.25	
39	1682.06	382.44	495.616438	52.25	
40	2197.73	410.68	584.383562	35.96	
41	2199.91	402.12	552.328767	35.96	
42	2205.62	402.88	576.986301	35.96	
43	2212.20	413.96	567.123288	35.96	
44	2170.58	417.84	613.972603	35.96	

45	1731.64	417.80	414.246575	61.73
46	1749.22	411.52	451.232877	61.73
47	1745.98	408.36	451.232877	61.73
48	1714.97	408.24	461.095890	61.73
49	1762.02	411.72	431.506849	61.73

	Deaths
0	112.366845
1	110.082662
2	107.888487
3	104.153629
4	101.182683
5	176.248974
6	173.195975
7	169.853684
8	164.814325
9	160.844555
10	141.709672
11	138.911587
12	136.287661
13	130.566324
14	129.132829
15	138.289634
16	133.831519
17	127.041622
18	122.263552
19	118.888886
20	302.017225
21	293.687098
22	284.982958
23	268.103396
24	258.747979
25	608.128850
26	601.338551
27	566.176746
28	559.296306
29	513.188675
30	131.780255
31	127.098486
32	120.059699
33	114.388797
34	111.927880
35	132.115958
36	127.292399
37	125.290009
38	120.728443
39	114.813790

```
40  187.245539
41  183.640411
42  188.180461
43  186.962429
44  184.849933
45  156.298583
46  151.145975
47  142.040751
48  135.989718
49  129.259572
```

[158]:
```
mergeTable.to_csv('mergedTable.csv')
```

[ ]:
```

```