```
In [1]:
         import pandas as pd
         import numpy as np
         import seaborn as sns
         import matplotlib.pyplot as plt
In [2]:
         df = pd.read_csv('Temperature_change_Data.csv')
            Country Code Country Name year tem_change
         0 AFG
                          Afghanistan
         1 ALB
                          Albania
                                         1961 0.631
         2 DZA
                          Algeria
                                         1961 0.186
                          American Samoa 1961 -0.014
         3 ASM
                          Andorra
                                         1961 0.749
         4 AND
In [3]:
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 16756 entries, 0 to 16755
          Data columns (total 4 columns):
          # Column Non-Null Count Dtype
           0 Country Code 14042 non-null object
           1 Country Name 16756 non-null object
           2 year 16756 non-null int64
           3 tem_change 14975 non-null float64
          dtypes: float64(1), int64(1), object(2)
          memory usage: 523.8+ KB
In [4]: #it makes a quick report about data
         import pandas_profiling as pdp
         report=pdp.ProfileReport(df)
          Summarize dataset: 0%| | 0/5 [00:00<?, ?it/s]
          Generate report structure: 0% | 0/1 [00:00<?, ?it/s]
          Render HTML: 0% | 0/1 [00:00<?, ?it/s]
In [5]:
         report.to_file("temp _report")
          C:\Users\Mcs\anaconda3\lib\site-packages\pandas_profiling\profile_report.py:262: UserWarning: Extension not supported. For now we assume
          .html was intended. To remove this warning, please use .html or .json.
           warnings.warn(
          Export report to file: 0%|
                                          | 0/1 [00:00<?, ?it/s]
```

```
for i , coltype in df.dtypes.iteritess():
    if coltype != object:
        print ans.boxplot(v= *f[i])
        pit.show()

AxesSubplot(0.125,0.125)0.775x0.755)

AxesSubplot(0.125,0.125)0.775x0.755)

AxesSubplot(0.125,0.125)0.775x0.755)
```

```
In [9]: for i , coltype in df.dtypes.iteritems():
              print(df[i].value_counts())
              print("_ "*10)
           AFG
          PRY
           NER
          NGA
          NIU
          GIB
                 59
           X21 59
          Name: Country Code, Length: 238, dtype: int64
           Afghanistan
           Saint Pierre and Miquelon 59
           Saudi Arabia
           Sao Tome and Principe
          Honduras
          Hungary
           Iceland
           India
                                     59
          Name: Country Name, Length: 284, dtype: int64
           1961 284
                  284
                  284
           1994
                  284
                  284
                  284
                  284
           1998
                  284
                  284
                  284
                  284
           2002
                  284
                  284
           2004
                  284
                  284
                  284
                  284
                  284
                  284
           2010
                  284
                  284
                  284
                  284
           2014
                  284
                  284
                  284
                  284
           2018
                  284
                  284
           1990
                  284
                  284
                  284
                  284
           1964
                  284
                  284
                  284
                  284
           1968
                  284
           1970
                  284
                  284
                  284
           1974
                  284
                  284
                  284
                  284
           1978
                  284
                  284
                  284
                  284
                  284
                  284
           1984
                  284
                  284
                  284
                  284
           1988
                  284
                 284
          Name: year, dtype: int64
```

```
0.307
                             20
                 0.221
                             19
                 0.130
                             19
                 0.215
                             18
                 0.305
                             18
                 -0.974
                 0.876
                 1.375
                 -1.079
                 1.297
                Name: tem_change, Length: 2855, dtype: int64
In [11]:
                Country Code
                                     2714
                Country Name
                year
                tem_change
                                     1781
                dtype: int64
 In [ ]:
In [12]:
                <AxesSubplot:>
                0
798
1596
2394
3192
3990
4788
5586
6384
7980
8778
9576
10374
11172
11970
12768
13566
14364
15162
15162
                                                                                       -1.0
                                                                                       - 0.8
                                                                                        0.6
                                                                                        0.4
                                                                                        - 0.2
                                                                                        - 0.0
                              Country Code -
                                             Country Name
                                                           year
                                                                         tem_change
In [15]:
                <seaborn.axisgrid.PairGrid at 0x22ebf262f40>
                    2020
                    2010
                    2000
                 हुँ 1990
                   1980
                   1970
                   1960
                                                    2020 -2.5 0.0
                                         2000
                                                                   tem_change
                                       year
```

