THE_UR_Global_Peers_Research_Performance_Profile

January 8, 2020

1 Install packages

```
In [3]: import tensorflow as tf

In [10]: from sklearn.cluster import KMeans

In [12]: import pandas as pd

In [13]: import numpy as np

In [14]: cd "C:\Users\jchen148\THE Rankings\Report to Jane"

C:\Users\jchen148\THE Rankings\Report to Jane
```

2 Plot distribution of USA universities CitationCounts

```
In [5]: citation = pd.read_csv('Updated_THE_Ranked_Universites_CitationCounts_2014_2018.csv')

        citation.head()

Out[5]:          Country CountryCode     Uid              UniversityName  \
        0    United States         USA  508076          Harvard University
        1    United States         USA  508219         Stanford University
        2           Canada         CAN  501048       University of Toronto
        3    United States         USA  508094    Johns Hopkins University
        4   United Kingdom         GBR  315091        University of Oxford

                   metric  Citation2014  Citation2015  Citation2016  Citation2017  \
        0   CitationCount      837994.0      686576.0      529054.0      363995.0
        1   CitationCount      404346.0      363567.0      282005.0      194136.0
        2   CitationCount      360177.0      344355.0      254462.0      172125.0
        3   CitationCount      324631.0      289131.0      218379.0      147459.0
        4   CitationCount      355751.0      313129.0      238271.0      149907.0

           Citation2018
        0      172830.0
        1       95069.0
```

1

```
2        86219.0
3        77682.0
4        75747.0
```

In [6]: totalcitation=citation['Citation2014']+citation['Citation2015']+citation['Citation2016

In [7]: citation['Total']=totalcitation

In [9]: citation.head()

        citation.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1002 entries, 0 to 1001
Data columns (total 11 columns):
Country          1002 non-null object
CountryCode      1002 non-null object
Uid              1002 non-null int64
UniversityName   1002 non-null object
metric           1002 non-null object
Citation2014     998 non-null float64
Citation2015     995 non-null float64
Citation2016     998 non-null float64
Citation2017     1000 non-null float64
Citation2018     1001 non-null float64
Total            993 non-null float64
dtypes: float64(6), int64(1), object(4)
memory usage: 86.2+ KB
```

In [40]: changedtype=lambda x: int(x)

In [31]: #citation.fillna(0)

        for i in range(0,len(citation)):
            if citation.loc[i]['Citation2014'] is np.nan:
                print("yes")

In [38]: citation['Citation2014'].isnull()

        citation=citation.fillna(0)

3   change all citationcount to int64

In [48]: citation['Citation2018']=citation['Citation2018'].apply(changedtype)

In [47]: citation['Citation2017']=citation['Citation2017'].apply(changedtype)

In [46]: citation['Citation2016']=citation['Citation2016'].apply(changedtype)

```
In [45]: citation['Citation2015']=citation['Citation2015'].apply(changedtype)

In [43]: citation['Citation2014']=citation['Citation2014'].apply(changedtype)

In [49]: citation.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1002 entries, 0 to 1001
Data columns (total 11 columns):
Country          1002 non-null object
CountryCode      1002 non-null object
Uid              1002 non-null int64
UniversityName   1002 non-null object
metric           1002 non-null object
Citation2014     1002 non-null int64
Citation2015     1002 non-null int64
Citation2016     1002 non-null int64
Citation2017     1002 non-null int64
Citation2018     1002 non-null int64
Total            1002 non-null float64
dtypes: float64(1), int64(6), object(4)
memory usage: 86.2+ KB


In [50]: citation.head()

Out[50]:          Country CountryCode     Uid              UniversityName  \
         0    United States         USA  508076           Harvard University
         1    United States         USA  508219          Stanford University
         2           Canada         CAN  501048       University of Toronto
         3    United States         USA  508094   Johns Hopkins University
         4   United Kingdom         GBR  315091         University of Oxford

                    metric  Citation2014  Citation2015  Citation2016  Citation2017  \
         0   CitationCount        837994        686576        529054        363995
         1   CitationCount        404346        363567        282005        194136
         2   CitationCount        360177        344355        254462        172125
         3   CitationCount        324631        289131        218379        147459
         4   CitationCount        355751        313129        238271        149907

            Citation2018       Total
         0        172830   2590449.0
         1         95069   1339123.0
         2         86219   1217338.0
         3         77682   1057282.0
         4         75747   1132805.0

In [66]: new=citation.sort_values(['CountryCode','Total'], ascending=False)
         new.head()
```

```
Out[66]:          Country CountryCode     Uid                    UniversityName  \
        334  South Africa        ZAF  115007             University of Pretoria
        307  South Africa        ZAF  115005          University of Johannesburg
        369  South Africa        ZAF  115001                 North West University
        575  South Africa        ZAF  115010       University of the Western Cape
        586  South Africa        ZAF  115003   Tshwane University of Technology

                   metric  Citation2014  Citation2015  Citation2016  Citation2017  \
        334  CitationCount         20169         20294         18564         12800
        307  CitationCount         13732         17059         16450         12228
        369  CitationCount          9833          8025         14378         13220
        575  CitationCount          9538          8008          7081          5315
        586  CitationCount          3215          2665          2844          3173

             Citation2018     Total
        334          5918   77745.0
        307          6622   66091.0
        369          5225   50681.0
        575          2365   32307.0
        586          2271   14168.0
```

4   Filtered the universities in USA

```
In [70]: USdata=new[new['CountryCode']=='USA']
```

```
In [71]: USdata.head()
```

```
Out[71]:           Country CountryCode     Uid                          UniversityName  \
        0    United States        USA  508076                     Harvard University
        1    United States        USA  508219                    Stanford University
        3    United States        USA  508094                Johns Hopkins University
        6    United States        USA  508358              University of Washington
        11   United States        USA  508111   Massachusetts Institute of Technology

                   metric  Citation2014  Citation2015  Citation2016  Citation2017  \
        0    CitationCount        837994        686576        529054        363995
        1    CitationCount        404346        363567        282005        194136
        3    CitationCount        324631        289131        218379        147459
        6    CitationCount        314702        269985        218378        150820
        11   CitationCount        285399        241655        186864        121031

             Citation2018      Total
        0          172830  2590449.0
        1           95069  1339123.0
        3           77682  1057282.0
        6           70792  1024677.0
        11          57319   892268.0
```

5 Use seaborn

```
In [72]: import numpy as np
         import pandas as pd
         import seaborn as sns
         import matplotlib.pyplot as plt
         from scipy import stats
```

```
In [73]: sns.set(color_codes=True)
```

```
In [75]: USpartial=USdata.loc[:][['UniversityName','Total']]
```

```
In [80]: USpartial.head()

         USpartial2=USpartial.reset_index()

         USpartial2=USpartial2.iloc[:,1:]

         USpartial2.head()
```

```
Out[80]:                              UniversityName      Total
         0                        Harvard University  2590449.0
         1                       Stanford University  1339123.0
         2                  Johns Hopkins University  1057282.0
         3                  University of Washington  1024677.0
         4  Massachusetts Institute of Technology   892268.0
```

```
In [93]: target=USpartial2[USpartial2['UniversityName']=='University of Rochester']

         target.head()
```

```
Out[93]:             UniversityName      Total
         28  University of Rochester  254555.0
```

6 Change datatype to int64

```
In [95]: target.loc[:]['Total']=target['Total'].astype(int)
```

```
In [96]: target.head()
```

```
Out[96]:             UniversityName    Total
         28  University of Rochester  254555
```

```
In [104]: USpartial2.head()

          USpartial2.set_index('UniversityName')

          USpartial2.loc[:]['Total']=USpartial2['Total'].astype(int)
```

```
In [113]: USpartial2=USpartial2.set_index('UniversityName')

In [114]: USpartial2.head()

Out[114]:                                                   Total
          UniversityName
          Harvard University                            2590449.0
          Stanford University                           1339123.0
          Johns Hopkins University                      1057282.0
          University of Washington                      1024677.0
          Massachusetts Institute of Technology          892268.0

In [107]: target.head()

          target.set_index('UniversityName')

Out[107]:                                Total
          UniversityName
          University of Rochester      254555

In [109]: target=target.set_index('UniversityName')

In [110]: target.head()

Out[110]:                                Total
          UniversityName
          University of Rochester      254555

In [120]: len(USpartial2)

Out[120]: 153
```

7 The distribution of total citationcounts for USA universities

8 In total 153 universities, including U of R

```python
In [156]: import pandas as pd
          fig, ax = plt.subplots(figsize=(12,8))
          x = pd.Series(USpartial2['Total'], name="CitationCount Total")
          ax = sns.distplot(x)

          ax.set_xlabel("USA UniversityCitation Total",fontsize=16)
          ax.set_ylabel("Probability",fontsize=16)
          plt.axvline(254555, color='red') # this is where U of R
          plt.axvline(np.mean(USpartial2['Total']), color='green') # this is the mean, 175882..
          plt.axvline(np.percentile(USpartial2['Total'], 25.0), color='blue') # Q1
          plt.axvline(np.percentile(USpartial2['Total'], 75.0), color='orange') # Q3 very clos
          #plt.legend()
          plt.tight_layout()
```
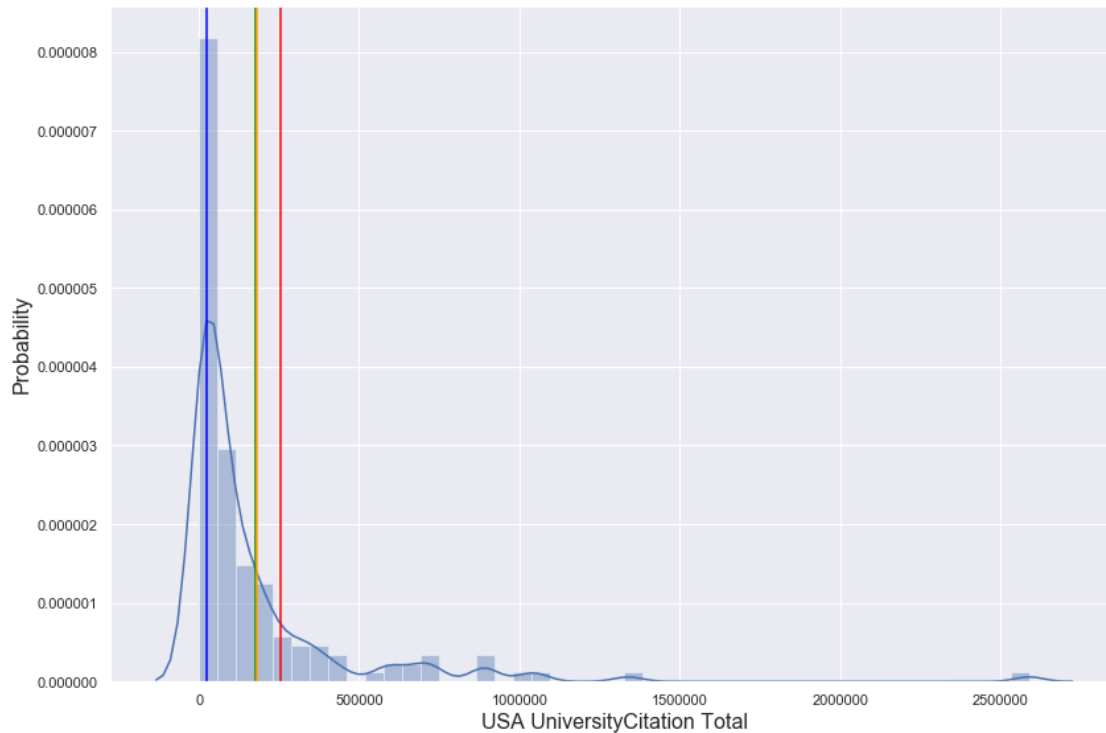
```
In [147]: import matplotlib
          from matplotlib import mlab
          import matplotlib.pyplot as plt
          import numpy as np
          import matplotlib.dates as mdates
          import matplotlib.pyplot as plt

In [152]: np.percentile(USpartial2['Total'], np.array([25.0,75.0]))

Out[152]: array([ 24316., 180027.])

In [122]: target

Out[122]:                                Total
          UniversityName
          University of Rochester   254555

In [136]: np.round(np.mean(USpartial2['Total']), 2)

Out[136]: 175882.56
```

9 From the plot above, we can see that our citation counts is greater than the average and Q3. Also, the Q3 is very close to the average, nearly overlapping,

10 because the distribution is highly right-skewed.

11 The following is data-cleaning process

12 read in school list

```
In [ ]: school_list = open(r"C:\Users\jchen148\THE Rankings\Report to Jane\THE_School_List_OK.

        school_name=school_list.read()

In [ ]: import pandas as pd
        t = school_name

        data=[]

        for i in t.split("\n"):
            if i[:1].isdigit():
                data.append(" ".join(i.split(" ")[:20]))
                print(" ".join(i.split(" ")[:20]))

        data_want = pd.DataFrame(data, columns=['Scool Name'])


        data_want.to_csv("all_university_name.csv", index=False)  # all the university name

In [ ]: # cleaned all the ranks and leadning and trailing whitespace

        t = school_name

        uni_name = []

        for i in t.split("\n"):
            if i[:1].isdigit():
                uni_name.append(" ".join(i.split(" ")[-5:]))
                print(" ".join(i.split(" ")[-5:]))
                uni_name.append(" ".join(i.split(" ")[-5:]))

In [ ]: # remove trailing whitespace

        import re
        import string

        cleaned=[]
```

```
        for line in uni_name:
            line=str(line)
    #      print(line.strip(' \t\n\r'))
    #      print(line.rstrip(string.digits))
    #      print(re.sub('^\d+[\W_]+', '', line))
            want_data = re.sub('^\d+[\W_]+', '', line)
            print(want_data.strip())
            cleaned.append(want_data.strip())
```

In [ ]: *# remove existing numbers*

```
        import string
        import re

        want_3=[]

        for name in cleaned:
            print(name)
            print(re.sub('^\d+[\W_]+','',name))
            want_3.append(re.sub('^\d+[\W_]+','',name))
```

In [11]: want_3.append('University of Rochester')

In [15]: DF={}

```
        DF=pd.DataFrame({'UniName':want_3})
```

In [17]: DF=DF.drop_duplicates()

In [19]: DF=DF.reset_index()

In [21]: DF=DF.iloc[:,1]

In [25]: DF=pd.DataFrame(DF)

In [26]: DF.to_csv("UniNameList_OK.csv", index=False)

13 Use APIs

In [9]: for line in want_3:
            url= "https://api.elsevier.com/metrics/institution/search?query=name("+line+")"
            print(url)

```
https://api.elsevier.com/metrics/institution/search?query=name(University of Oxford)
https://api.elsevier.com/metrics/institution/search?query=name(California Institute of Technolo
https://api.elsevier.com/metrics/institution/search?query=name(University of Cambridge)
https://api.elsevier.com/metrics/institution/search?query=name(Stanford University)
https://api.elsevier.com/metrics/institution/search?query=name(Massachusetts Institute of Techn
```

```
https://api.elsevier.com/metrics/institution/search?query=name(Princeton University)
https://api.elsevier.com/metrics/institution/search?query=name(Harvard University)
https://api.elsevier.com/metrics/institution/search?query=name(Yale University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Chicago)
https://api.elsevier.com/metrics/institution/search?query=name(Imperial College London)
https://api.elsevier.com/metrics/institution/search?query=name(University of Pennsylvania)
https://api.elsevier.com/metrics/institution/search?query=name(Johns Hopkins University)
https://api.elsevier.com/metrics/institution/search?query=name(UCL)
https://api.elsevier.com/metrics/institution/search?query=name(Columbia University)
https://api.elsevier.com/metrics/institution/search?query=name(University of California, Los A
https://api.elsevier.com/metrics/institution/search?query=name(University of Toronto)
https://api.elsevier.com/metrics/institution/search?query=name(Cornell University)
https://api.elsevier.com/metrics/institution/search?query=name(Duke University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Michigan-Ann Arbor
https://api.elsevier.com/metrics/institution/search?query=name(Northwestern University)
https://api.elsevier.com/metrics/institution/search?query=name(Tsinghua University)
https://api.elsevier.com/metrics/institution/search?query=name(Peking University)
https://api.elsevier.com/metrics/institution/search?query=name(National University of Singapore
https://api.elsevier.com/metrics/institution/search?query=name(University of Washington)
https://api.elsevier.com/metrics/institution/search?query=name(New York University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Edinburgh)
https://api.elsevier.com/metrics/institution/search?query=name(University of California, San D
https://api.elsevier.com/metrics/institution/search?query=name(University of British Columbia)
https://api.elsevier.com/metrics/institution/search?query=name(University of Hong Kong)
https://api.elsevier.com/metrics/institution/search?query=name(Karolinska Institute)
https://api.elsevier.com/metrics/institution/search?query=name(McGill University)
https://api.elsevier.com/metrics/institution/search?query=name(Technical University of Munich)
https://api.elsevier.com/metrics/institution/search?query=name(Heidelberg University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Science and Techno
https://api.elsevier.com/metrics/institution/search?query=name(Australian National University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Wisconsin-Madison
https://api.elsevier.com/metrics/institution/search?query=name(Washington University in St Lou
https://api.elsevier.com/metrics/institution/search?query=name(Brown University)
https://api.elsevier.com/metrics/institution/search?query=name(North Carolina at Chapel Hill)
https://api.elsevier.com/metrics/institution/search?query=name(Wageningen University & Research
https://api.elsevier.com/metrics/institution/search?query=name(University of Sydney)
https://api.elsevier.com/metrics/institution/search?query=name(Boston University)
https://api.elsevier.com/metrics/institution/search?query=name(Seoul National University)
https://api.elsevier.com/metrics/institution/search?query=name(Kyoto University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Queensland)
https://api.elsevier.com/metrics/institution/search?query=name(Erasmus University Rotterdam)
https://api.elsevier.com/metrics/institution/search?query=name(Ohio State University (Main camp
https://api.elsevier.com/metrics/institution/search?query=name(UNSW Sydney)
https://api.elsevier.com/metrics/institution/search?query=name(McMaster University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Groningen)
https://api.elsevier.com/metrics/institution/search?query=name(Humboldt University of Berlin)
https://api.elsevier.com/metrics/institution/search?query=name(University of Warwick)
https://api.elsevier.com/metrics/institution/search?query=name(Penn State (Main campus))
```

```
https://api.elsevier.com/metrics/institution/search?query=name(University of Minnesota)
https://api.elsevier.com/metrics/institution/search?query=name(Michigan State University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Montreal)
https://api.elsevier.com/metrics/institution/search?query=name(University of Freiburg)
https://api.elsevier.com/metrics/institution/search?query=name(University of Bristol)
https://api.elsevier.com/metrics/institution/search?query=name(Purdue University West Lafayett
https://api.elsevier.com/metrics/institution/search?query=name(Sungkyunkwan University (SKKU))
https://api.elsevier.com/metrics/institution/search?query=name(University of Zurich)
https://api.elsevier.com/metrics/institution/search?query=name(École Polytechnique)
https://api.elsevier.com/metrics/institution/search?query=name(University of Copenhagen)
https://api.elsevier.com/metrics/institution/search?query=name(University of Arizona)
https://api.elsevier.com/metrics/institution/search?query=name(Fudan University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Birmingham)
https://api.elsevier.com/metrics/institution/search?query=name(Aarhus University)
https://api.elsevier.com/metrics/institution/search?query=name(Vanderbilt University)
https://api.elsevier.com/metrics/institution/search?query=name(Case Western Reserve University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Southampton)
https://api.elsevier.com/metrics/institution/search?query=name(Ghent University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Colorado Boulder)
https://api.elsevier.com/metrics/institution/search?query=name(University of Göttingen)
https://api.elsevier.com/metrics/institution/search?query=name(City University of Hong Kong)
https://api.elsevier.com/metrics/institution/search?query=name(Maastricht University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Paris)
https://api.elsevier.com/metrics/institution/search?query=name(Durham University)
https://api.elsevier.com/metrics/institution/search?query=name(Vrije Universiteit Amsterdam)
https://api.elsevier.com/metrics/institution/search?query=name(Pompeu Fabra University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Würzburg)
https://api.elsevier.com/metrics/institution/search?query=name(Trinity College Dublin)
https://api.elsevier.com/metrics/institution/search?query=name(University of Liverpool)
https://api.elsevier.com/metrics/institution/search?query=name(Hong Kong Polytechnic University
https://api.elsevier.com/metrics/institution/search?query=name(University of Alabama at Birming
https://api.elsevier.com/metrics/institution/search?query=name(Texas A&M University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Erlangen-Nuremberg
https://api.elsevier.com/metrics/institution/search?query=name(Télécom Paris)
https://api.elsevier.com/metrics/institution/search?query=name(University of East Anglia)
https://api.elsevier.com/metrics/institution/search?query=name(University of Canberra)
https://api.elsevier.com/metrics/institution/search?query=name(Yonsei University (Seoul campus)
https://api.elsevier.com/metrics/institution/search?query=name(Aalborg University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Barcelona)
https://api.elsevier.com/metrics/institution/search?query=name(University of Bergen)
https://api.elsevier.com/metrics/institution/search?query=name(Brandeis University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Calgary)
https://api.elsevier.com/metrics/institution/search?query=name(Copenhagen Business School)
https://api.elsevier.com/metrics/institution/search?query=name(University of Dundee)
https://api.elsevier.com/metrics/institution/search?query=name(École Normale Supérieure de Lyo
https://api.elsevier.com/metrics/institution/search?query=name(Griffith University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Hawaii at Manoa)
https://api.elsevier.com/metrics/institution/search?query=name(Hebrew University of Jerusalem)
```

```
https://api.elsevier.com/metrics/institution/search?query=name(University of Hohenheim)
https://api.elsevier.com/metrics/institution/search?query=name(Howard University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Iowa)
https://api.elsevier.com/metrics/institution/search?query=name(James Cook University)
https://api.elsevier.com/metrics/institution/search?query=name(King Abdulaziz University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Konstanz)
https://api.elsevier.com/metrics/institution/search?query=name(KTH Royal Institute of Technolog
https://api.elsevier.com/metrics/institution/search?query=name(Université Libre de Bruxelles)
https://api.elsevier.com/metrics/institution/search?query=name(University of Luxembourg)
https://api.elsevier.com/metrics/institution/search?query=name(Macquarie University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Massachusetts)
https://api.elsevier.com/metrics/institution/search?query=name(Medical University of Graz)
https://api.elsevier.com/metrics/institution/search?query=name(Medical University of Vienna)
https://api.elsevier.com/metrics/institution/search?query=name(University of Miami)
https://api.elsevier.com/metrics/institution/search?query=name(Institute of Physics and Technol
https://api.elsevier.com/metrics/institution/search?query=name(Newcastle University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Otago)
https://api.elsevier.com/metrics/institution/search?query=name(University of Padua)
https://api.elsevier.com/metrics/institution/search?query=name(Paris-Sud University)
https://api.elsevier.com/metrics/institution/search?query=name(Queens University Belfast)
https://api.elsevier.com/metrics/institution/search?query=name(University of Reading)
https://api.elsevier.com/metrics/institution/search?query=name(of Surgeons in Ireland (RCSI))
https://api.elsevier.com/metrics/institution/search?query=name(St Georges, University of Londor
https://api.elsevier.com/metrics/institution/search?query=name(University of South Florida (Tar
https://api.elsevier.com/metrics/institution/search?query=name(Tilburg University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Twente)
https://api.elsevier.com/metrics/institution/search?query=name(of Science and Technology (UNIST
https://api.elsevier.com/metrics/institution/search?query=name(University College Dublin)
https://api.elsevier.com/metrics/institution/search?query=name(University of Utah)
https://api.elsevier.com/metrics/institution/search?query=name(Polytechnic Institute and State
https://api.elsevier.com/metrics/institution/search?query=name(Vita-Salute San Raffaele Univers
https://api.elsevier.com/metrics/institution/search?query=name(Vrije Universiteit Brussel)
https://api.elsevier.com/metrics/institution/search?query=name(Wake Forest University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Waterloo)
https://api.elsevier.com/metrics/institution/search?query=name(Western University)
https://api.elsevier.com/metrics/institution/search?query=name(William & Mary)
https://api.elsevier.com/metrics/institution/search?query=name(University of Wollongong)
https://api.elsevier.com/metrics/institution/search?query=name(Alfaisal University)
https://api.elsevier.com/metrics/institution/search?query=name(Auckland University of Technolog
https://api.elsevier.com/metrics/institution/search?query=name(Autonomous University of Madrid
https://api.elsevier.com/metrics/institution/search?query=name(University of Bath)
https://api.elsevier.com/metrics/institution/search?query=name(Brighton and Sussex Medical Scho
https://api.elsevier.com/metrics/institution/search?query=name(University at Buffalo)
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https://api.elsevier.com/metrics/institution/search?query=name(GITAM University)
https://api.elsevier.com/metrics/institution/search?query=name(Government College University La
https://api.elsevier.com/metrics/institution/search?query=name(University of Medicine and Pharr
https://api.elsevier.com/metrics/institution/search?query=name(University of Guadalajara)
https://api.elsevier.com/metrics/institution/search?query=name(University of Guanajuato)
https://api.elsevier.com/metrics/institution/search?query=name(Guangxi University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Oil and Gas)
https://api.elsevier.com/metrics/institution/search?query=name(University of Guilan)
https://api.elsevier.com/metrics/institution/search?query=name(Gunma University)
https://api.elsevier.com/metrics/institution/search?query=name(Hallym University)
https://api.elsevier.com/metrics/institution/search?query=name(Hashemite University)
https://api.elsevier.com/metrics/institution/search?query=name(Université Hassan II de Casablar
https://api.elsevier.com/metrics/institution/search?query=name(University of Havana)
https://api.elsevier.com/metrics/institution/search?query=name(Helwan University)
https://api.elsevier.com/metrics/institution/search?query=name(Hosei University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Hradec Králové)
https://api.elsevier.com/metrics/institution/search?query=name(Huaqiao University)
https://api.elsevier.com/metrics/institution/search?query=name(University of Hyogo)
https://api.elsevier.com/metrics/institution/search?query=name(Ibaraki University)
https://api.elsevier.com/metrics/institution/search?query=name(Imam Abdulrahman Bin Faisal Univ
https://api.elsevier.com/metrics/institution/search?query=name(Incheon National University)
https://api.elsevier.com/metrics/institution/search?query=name(Industrial University of Santanc
https://api.elsevier.com/metrics/institution/search?query=name(I-Shou University)
https://api.elsevier.com/metrics/institution/search?query=name(Istanbul Medipol University)
https://api.elsevier.com/metrics/institution/search?query=name(Ivane Javakhishvili Tbilisi Stat
```

14   combine all the Uids retrieved from APIs

```
In [34]: filename='THE_CountryCode_Result_1202_{}'

         for i in range(1,14):
             print(filename.format(i))

THE_CountryCode_Result_1202_1
THE_CountryCode_Result_1202_2
THE_CountryCode_Result_1202_3
THE_CountryCode_Result_1202_4
THE_CountryCode_Result_1202_5
THE_CountryCode_Result_1202_6
THE_CountryCode_Result_1202_7
THE_CountryCode_Result_1202_8
THE_CountryCode_Result_1202_9
THE_CountryCode_Result_1202_10
THE_CountryCode_Result_1202_11
THE_CountryCode_Result_1202_12
THE_CountryCode_Result_1202_13
```

```
In [36]: cd "C:\Users\jchen148\THE Rankings\Report to Jane"
```

C:\Users\jchen148\THE Rankings\Report to Jane

```
In [61]: filename='THE_CountryCode_Result_1202_{}.csv'

         chucks=[]

         for i in range(1,14):
         #    print(filename.format(i))
             chucks.append(pd.read_csv(filename.format(i)))

         data=pd.concat(chucks, ignore_index=True)

         data.head()
```

```
Out[61]:    Unnamed: 0                                    University Name  \
         0           0                               University of Oxford
         1           1   Jet Propulsion Laboratory, California Institut...
         2           2                California Institute of Technology
         3           3                            University of Cambridge
         4           4                                Stanford University

            University id         Country Country Code
         0        315091   United Kingdom          GBR
         1        508092    United States          USA
         2        508021    United States          USA
         3        315068   United Kingdom          GBR
         4        508219    United States          USA
```

```
In [62]: del data['Unnamed: 0']
```

15   Use SciVal institution metrics API

```
In [42]: # https://api.elsevier.com/analytics/scival/institution/metrics
```

```
In [63]: data.head()
```

```
Out[63]:                                    University Name  University id  \
         0                               University of Oxford         315091
         1   Jet Propulsion Laboratory, California Institut...         508092
         2                California Institute of Technology         508021
         3                            University of Cambridge         315068
         4                                Stanford University         508219

                   Country Country Code
         0   United Kingdom          GBR
```

```
         1    United States           USA
         2    United States           USA
         3  United Kingdom            GBR
         4    United States           USA
```

In [64]: **for** line **in** data['University id'][:2]:
             print(line)

315091
508092

In [85]: **for** line **in** data['University id'][:2]:
             print(line)

315091
508092

16   ScholarlyOutput

In [97]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data"

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data

In [145]: **import requests**
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(2)

          inst_country=[]
          inst_cc=[]
          inst_id=[]
          inst_link=[]
          inst_name=[]
          metricType=[]
          value2014=[]
          value2015=[]
          value2016=[]
          value2017=[]
          value2018=[]

          for line **in** data['University id'][1000:]:
              url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=C

```python
#    print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                        'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if result['results'] is not None:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#            if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#            if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#            if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#            if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#             if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType'
                if 'valueByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2014.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2015' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2015.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2016' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2016.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2017' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2017.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2018' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2018.append(result['results'][0]['metrics'][0]['valueBy'

s1=pd.Series(inst_country, name='country')
s2=pd.Series(inst_cc, name='countryCode')
s3=pd.Series(inst_id, name='institution_id')
s4=pd.Series(inst_link, name='link')
s5=pd.Series(inst_name, name='institution_name')
s6=pd.Series(metricType, name='metricType')
s7=pd.Series(value2014, name='2014')
s8=pd.Series(value2015, name='2015')
```

```
        s9=pd.Series(value2016, name='2016')
        s10=pd.Series(value2017, name='2017')
        s11=pd.Series(value2018, name='2018')


        DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11], axis=1)
        DF.to_csv("THE_UNI_CitationCount_ALL_11.csv", index=False)
```

17 CitationCount, CitedPublications, FWCI, and Publicationin-TopJournal Percentile

In [122]: `# FWCI`

In [133]:
```python
import requests
import json
import pandas as pd
import numpy as np
from time import sleep
sleep(2)

inst_country=[]
inst_cc=[]
inst_id=[]
inst_link=[]
inst_name=[]
metricType=[]
value2014=[]
value2015=[]
value2016=[]
value2017=[]
value2018=[]
percentage2014=[]
percentage2015=[]
percentage2016=[]
percentage2017=[]
percentage2018=[]


for line in data['University id'][1000:]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=F:
#    print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                        'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
```

```python
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if result['results'] is not None:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                 if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#             if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#             if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#             if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#             if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#             if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType'
                if 'valueByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2014.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2015' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2015.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2016' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2016.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2017' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2017.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2018' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2018.append(result['results'][0]['metrics'][0]['valueBy'
                if 'percentageByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['percentageByYea
                        percentage2014.append(result['results'][0]['metrics'][0]['pe
                    if '2015' in result['results'][0]['metrics'][0]['percentageByYea
                        percentage2015.append(result['results'][0]['metrics'][0]['pe
                    if '2016' in result['results'][0]['metrics'][0]['percentageByYea
                        percentage2016.append(result['results'][0]['metrics'][0]['pe
                    if '2017' in result['results'][0]['metrics'][0]['percentageByYea
                        percentage2017.append(result['results'][0]['metrics'][0]['pe
                    if '2018' in result['results'][0]['metrics'][0]['percentageByYea
                        percentage2018.append(result['results'][0]['metrics'][0]['pe
                else:
                    percentage2014.append('')
                    percentage2015.append('')
                    percentage2016.append('')
                    percentage2017.append('')
```

```
                        percentage2018.append('')


        s1=pd.Series(inst_country, name='country')
        s2=pd.Series(inst_cc, name='countryCode')
        s3=pd.Series(inst_id, name='institution_id')
        s4=pd.Series(inst_link, name='link')
        s5=pd.Series(inst_name, name='institution_name')
        s6=pd.Series(metricType, name='metricType')
        s7=pd.Series(value2014, name='2014')
        s8=pd.Series(value2015, name='2015')
        s9=pd.Series(value2016, name='2016')
        s10=pd.Series(value2017, name='2017')
        s11=pd.Series(value2018, name='2018')
        #s12=pd.Series(percentage2014, name='percent2014')
        #s13=pd.Series(percentage2015, name='percent2015')
        #s14=pd.Series(percentage2016, name='percent2016')
        #s15=pd.Series(percentage2017, name='percent2017')
        #s16=pd.Series(percentage2018, name='percent2018')


        DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11], axis=1)
        DF.to_csv("THE_UNI_FWCI_11.csv", index=False)
```

In [134]:
```
# CitationCount
```

In [133]:
```
import requests
import json
import pandas as pd
import numpy as np
from time import sleep
sleep(2)

inst_country=[]
inst_cc=[]
inst_id=[]
inst_link=[]
inst_name=[]
metricType=[]
value2014=[]
value2015=[]
value2016=[]
value2017=[]
value2018=[]
percentage2014=[]
percentage2015=[]
percentage2016=[]
percentage2017=[]
```

```python
percentage2018=[]


for line in data['University id'][1000:]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=F:
 #   print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                          'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed=json.dumps(resp.json(),
               sort_keys=True,
               indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if result['results'] is not None:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#              if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#             if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#             if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#             if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#             if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType
                if 'valueByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2014.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2015' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2015.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2016' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2016.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2017' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2017.append(result['results'][0]['metrics'][0]['valueBy'
                    if '2018' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2018.append(result['results'][0]['metrics'][0]['valueBy'
                if 'percentageByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['percentageByYear
                        percentage2014.append(result['results'][0]['metrics'][0]['per
                    if '2015' in result['results'][0]['metrics'][0]['percentageByYear
```

```
                            percentage2015.append(result['results'][0]['metrics'][0]['pe
                if '2016' in result['results'][0]['metrics'][0]['percentageByYea
                            percentage2016.append(result['results'][0]['metrics'][0]['pe
                if '2017' in result['results'][0]['metrics'][0]['percentageByYea
                            percentage2017.append(result['results'][0]['metrics'][0]['pe
                if '2018' in result['results'][0]['metrics'][0]['percentageByYea
                            percentage2018.append(result['results'][0]['metrics'][0]['pe
            else:
                percentage2014.append('')
                percentage2015.append('')
                percentage2016.append('')
                percentage2017.append('')
                percentage2018.append('')


    s1=pd.Series(inst_country, name='country')
    s2=pd.Series(inst_cc, name='countryCode')
    s3=pd.Series(inst_id, name='institution_id')
    s4=pd.Series(inst_link, name='link')
    s5=pd.Series(inst_name, name='institution_name')
    s6=pd.Series(metricType, name='metricType')
    s7=pd.Series(value2014, name='2014')
    s8=pd.Series(value2015, name='2015')
    s9=pd.Series(value2016, name='2016')
    s10=pd.Series(value2017, name='2017')
    s11=pd.Series(value2018, name='2018')
    #s12=pd.Series(percentage2014, name='percent2014')
    #s13=pd.Series(percentage2015, name='percent2015')
    #s14=pd.Series(percentage2016, name='percent2016')
    #s15=pd.Series(percentage2017, name='percent2017')
    #s16=pd.Series(percentage2018, name='percent2018')


    DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11], axis=1)
    DF.to_csv("THE_UNI_FWCI_11.csv", index=False)

In [146]: # CitedPublications

In [159]: import requests
    import json
    import pandas as pd
    import numpy as np
    from time import sleep
    sleep(2)

    inst_country=[]
    inst_cc=[]
    inst_id=[]
```

```python
inst_link=[]
inst_name=[]
metricType=[]
value2014=[]
value2015=[]
value2016=[]
value2017=[]
value2018=[]
percentage2014=[]
percentage2015=[]
percentage2016=[]
percentage2017=[]
percentage2018=[]


for line in data['University id'][1000:]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=C
 #  print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                         'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if 'results' in result:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#              if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#              if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#              if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#              if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#              if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType
                if 'valueByYear' in result['results'][0]['metrics'][0]:
                    if '2014' in result['results'][0]['metrics'][0]['valueByYear']:
                        value2014.append(result['results'][0]['metrics'][0]['valueBy'
```

```python
                            if '2015' in result['results'][0]['metrics'][0]['valueByYear']:
                                value2015.append(result['results'][0]['metrics'][0]['valueBy'
                            if '2016' in result['results'][0]['metrics'][0]['valueByYear']:
                                value2016.append(result['results'][0]['metrics'][0]['valueBy'
                            if '2017' in result['results'][0]['metrics'][0]['valueByYear']:
                                value2017.append(result['results'][0]['metrics'][0]['valueBy'
                            if '2018' in result['results'][0]['metrics'][0]['valueByYear']:
                                value2018.append(result['results'][0]['metrics'][0]['valueBy'
                        if 'percentageByYear' in result['results'][0]['metrics'][0]:
                            if '2014' in result['results'][0]['metrics'][0]['percentageByYea
                                percentage2014.append(result['results'][0]['metrics'][0]['pe
                            if '2015' in result['results'][0]['metrics'][0]['percentageByYea
                                percentage2015.append(result['results'][0]['metrics'][0]['pe
                            if '2016' in result['results'][0]['metrics'][0]['percentageByYea
                                percentage2016.append(result['results'][0]['metrics'][0]['pe
                            if '2017' in result['results'][0]['metrics'][0]['percentageByYea
                                percentage2017.append(result['results'][0]['metrics'][0]['pe
                            if '2018' in result['results'][0]['metrics'][0]['percentageByYea
                                percentage2018.append(result['results'][0]['metrics'][0]['pe
                    else:
                        percentage2014.append('')
                        percentage2015.append('')
                        percentage2016.append('')
                        percentage2017.append('')
                        percentage2018.append('')


s1=pd.Series(inst_country, name='country')
s2=pd.Series(inst_cc, name='countryCode')
s3=pd.Series(inst_id, name='institution_id')
s4=pd.Series(inst_link, name='link')
s5=pd.Series(inst_name, name='institution_name')
s6=pd.Series(metricType, name='metricType')
s7=pd.Series(value2014, name='2014')
s8=pd.Series(value2015, name='2015')
s9=pd.Series(value2016, name='2016')
s10=pd.Series(value2017, name='2017')
s11=pd.Series(value2018, name='2018')
s12=pd.Series(percentage2014, name='percent2014')
s13=pd.Series(percentage2015, name='percent2015')
s14=pd.Series(percentage2016, name='percent2016')
s15=pd.Series(percentage2017, name='percent2017')
s16=pd.Series(percentage2018, name='percent2018')


DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11,s12,s13,s14,s15,s16], axis=1)
DF.to_csv("THE_UNI_CitedPublications_11.csv", index=False)
```

```
In [160]:  #PublicationsInTopJournalPercentiles

In [186]:  import requests
           import json
           import pandas as pd
           import numpy as np
           from time import sleep
           sleep(2)

           inst_country=[]
           inst_cc=[]
           inst_id=[]
           inst_link=[]
           inst_name=[]
           metricType=[]
           threshold=[]
           t1_value2014=[]
           t1_value2015=[]
           t1_value2016=[]
           t1_value2017=[]
           t1_value2018=[]
           t1_percentage2014=[]
           t1_percentage2015=[]
           t1_percentage2016=[]
           t1_percentage2017=[]
           t1_percentage2018=[]
           t5_value2014=[]
           t5_value2015=[]
           t5_value2016=[]
           t5_value2017=[]
           t5_value2018=[]
           t5_percentage2014=[]
           t5_percentage2015=[]
           t5_percentage2016=[]
           t5_percentage2017=[]
           t5_percentage2018=[]
           t10_value2014=[]
           t10_value2015=[]
           t10_value2016=[]
           t10_value2017=[]
           t10_value2018=[]
           t10_percentage2014=[]
           t10_percentage2015=[]
           t10_percentage2016=[]
           t10_percentage2017=[]
           t10_percentage2018=[]
           t25_value2014=[]
           t25_value2015=[]
```

```python
t25_value2016=[]
t25_value2017=[]
t25_value2018=[]
t25_percentage2014=[]
t25_percentage2015=[]
t25_percentage2016=[]
t25_percentage2017=[]
t25_percentage2018=[]




for line in data['University id'][:2]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Pu
 #   print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                        'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if 'results' in result:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#              if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#              if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#              if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#              if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#              if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType
                if 'values' in result['results'][0]['metrics'][0]:
                    if 'threshold' in result['results'][0]['metrics'][0]['values']:
                        threshold.append(result['results'][0]['metrics'][0]['values']
                    if 'valueByYear' in result['results'][0]['metrics'][0]['values']
                        if '2014' in result['results'][0]['metrics'][0]['values']['va
                            t1_value2014.append(result['results'][0]['metrics'][0]['v
                        if '2015' in result['results'][0]['metrics'][0]['values']['va
```

```python
                        t1_value2015.append(result['results'][0]['metrics'][0]['
                    if '2016' in result['results'][0]['metrics'][0]['values']['va
                        t1_value2016.append(result['results'][0]['metrics'][0]['
                    if '2017' in result['results'][0]['metrics'][0]['values']['va
                        t1_value2017.append(result['results'][0]['metrics'][0]['
                    if '2018' in result['results'][0]['metrics'][0]['values']['va
                        t1_value2018.append(result['results'][0]['metrics'][0]['
                if 'percentageByYear' in result['results'][0]['metrics'][0]['valu
                    if '2014' in result['results'][0]['metrics'][0]['values'][0]
                        t1_percentage2014.append(result['results'][0]['metrics']
                    if '2015' in result['results'][0]['metrics'][0]['values'][0]
                        t1_percentage2015.append(result['results'][0]['metrics']
                    if '2016' in result['results'][0]['metrics'][0]['values'][0]
                        t1_percentage2016.append(result['results'][0]['metrics']
                    if '2017' in result['results'][0]['metrics'][0]['values'][0]
                        t1_percentage2017.append(result['results'][0]['metrics']
                    if '2018' in result['results'][0]['metrics'][0]['values'][0]
                        t1_percentage2018.append(result['results'][0]['metrics']
#                   else:
#                       t1_value2014.append('')
#                       t1_value2015.append('')
#                       t1_value2016.append('')
#                       t1_value2017.append('')
#                       t1_value2018.append('')
#                       t1_percentage2014.append('')
#                       t1_percentage2015.append('')
#                       t1_percentage2016.append('')
#                       t1_percentage2017.append('')
#                       t1_percentage2018.append('')

    s1=pd.Series(inst_country, name='country')
    s2=pd.Series(inst_cc, name='countryCode')
    s3=pd.Series(inst_id, name='institution_id')
    s4=pd.Series(inst_link, name='link')
    s5=pd.Series(inst_name, name='institution_name')
    s6=pd.Series(metricType, name='metricType')
    s7=pd.Series(threshold, name='threshold')
    s8=pd.Series(t1_value2014, name='2014')
    s9=pd.Series(t1_value2015, name='2015')
    s10=pd.Series(t1_value2016, name='2016')
    s11=pd.Series(t1_value2017, name='2017')
    s12=pd.Series(t1_value2018, name='2018')
    s13=pd.Series(t1_percentage2014, name='percent2014')
    s14=pd.Series(t1_percentage2015, name='percent2015')
    s15=pd.Series(t1_percentage2016, name='percent2016')
    s16=pd.Series(t1_percentage2017, name='percent2017')
    s17=pd.Series(t1_percentage2018, name='percent2018')
```

```
            DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11,s12,s13,s14,s15,s16, s17], axis=1)
            DF.to_csv("THE_UNI_PublicationsInTopJournalPercentiles_TEST_1.csv", index=False)

In [206]: metricType=[]
            threshold=[]
            value2014=[]
            value2015=[]
            value2016=[]
            value2017=[]
            value2018=[]
            percent2014=[]
            percent2015=[]
            percent2016=[]
            percent2017=[]
            percent2018=[]


            for line in data['University id'][:2]:
                url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Pu
             #   print(url.format(line))
                resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                     'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
                parsed=json.dumps(resp.json(),
                            sort_keys=True,
                            indent=4, separators=(',', ': '))
            #    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
            #        json.dump(resp.json(), jsonfile)
            #    print(parsed)
            #    data.update(a_dict)
                result=json.loads(parsed)
            print(result['results'][0]['metrics'][0]['values'][3]['percentageByYear'])

{'2014': 67.55675, '2015': 73.333336, '2016': 67.42509, '2017': 66.53675, '2018': 64.18532}


In [214]: import requests
            import json
            import pandas as pd
            import numpy as np
            from time import sleep
            sleep(2)

            inst_country=[]
            inst_cc=[]
            inst_id=[]
            inst_link=[]
            inst_name=[]
```

```python
metricType=[]
threshold=[]
t1_value2014=[]
t1_value2015=[]
t1_value2016=[]
t1_value2017=[]
t1_value2018=[]
t1_percentage2014=[]
t1_percentage2015=[]
t1_percentage2016=[]
t1_percentage2017=[]
t1_percentage2018=[]
t5_value2014=[]
t5_value2015=[]
t5_value2016=[]
t5_value2017=[]
t5_value2018=[]
t5_percentage2014=[]
t5_percentage2015=[]
t5_percentage2016=[]
t5_percentage2017=[]
t5_percentage2018=[]
t10_value2014=[]
t10_value2015=[]
t10_value2016=[]
t10_value2017=[]
t10_value2018=[]
t10_percentage2014=[]
t10_percentage2015=[]
t10_percentage2016=[]
t10_percentage2017=[]
t10_percentage2018=[]
t25_value2014=[]
t25_value2015=[]
t25_value2016=[]
t25_value2017=[]
t25_value2018=[]
t25_percentage2014=[]
t25_percentage2015=[]
t25_percentage2016=[]
t25_percentage2017=[]
t25_percentage2018=[]


for line in data['University id'][50:75]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Pu
  #   print(url.format(line))
```

```python
        resp = requests.get(url.format(line), headers={'Accept':'application/json',
                            'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
#     with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#         json.dump(resp.json(), jsonfile)
#     print(parsed)
#     data.update(a_dict)
        result=json.loads(parsed)
        if 'results' in result:
            if len(result['results'])>=1:
                if 'institution' in result['results'][0]:
#                     if 'country' in result['results'][0]['institution']:
                    inst_country.append(result['results'][0]['institution']['country'])
#                 if 'countryCode' in result['results'][0]['institution']:
                    inst_cc.append(result['results'][0]['institution']['countryCode'])
#                 if 'id' in result['results'][0]['institution']:
                    inst_id.append(result['results'][0]['institution']['id'])
#                 if 'link' in result['results'][0]['institution']:
                    inst_link.append(result['results'][0]['institution']['link'])
#                 if 'name' in result['results'][0]['institution']:
                    inst_name.append(result['results'][0]['institution']['name'])
                if 'metrics' in result['results'][0]:
#                 if len(result['results'][0]['metrics'])>=1:
                    if 'metricType' in result['results'][0]['metrics'][0]:
                        metricType.append(result['results'][0]['metrics'][0]['metricType'
                    if 'values' in result['results'][0]['metrics'][0]:
#                     print(result['results'][0]['metrics'][0]['values'][1]['threshol
                        for i in range(0, len(result['results'][0]['metrics'][0]['values
                            threshold.append(result['results'][0]['metrics'][0]['values']
                            if 'valueByYear' in result['results'][0]['metrics'][0]['value
#                         if i ==0:
                                if '2014' in result['results'][0]['metrics'][0]['values']
                                    t1_value2014.append(result['results'][0]['metrics'][0
                                if '2015' in result['results'][0]['metrics'][0]['values']
                                    t1_value2015.append(result['results'][0]['metrics'][0
                                if '2016' in result['results'][0]['metrics'][0]['values']
                                    t1_value2016.append(result['results'][0]['metrics'][0
                                if '2017' in result['results'][0]['metrics'][0]['values']
                                    t1_value2017.append(result['results'][0]['metrics'][0
                                if '2018' in result['results'][0]['metrics'][0]['values']
                                    t1_value2018.append(result['results'][0]['metrics'][0
#                         if i ==1:
                                if '2014' in result['results'][0]['metrics'][0]['values']
                                    t5_value2014.append(result['results'][0]['metrics'][0
                                if '2015' in result['results'][0]['metrics'][0]['values']
                                    t5_value2015.append(result['results'][0]['metrics'][0
```

```python
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t5_value2016.append(result['results'][0]['metrics'][0
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t5_value2017.append(result['results'][0]['metrics'][0
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t5_value2018.append(result['results'][0]['metrics'][0

#                 if i ==2:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t10_value2014.append(result['results'][0]['metrics']
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t10_value2015.append(result['results'][0]['metrics']
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t10_value2016.append(result['results'][0]['metrics']
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t10_value2017.append(result['results'][0]['metrics']
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t10_value2018.append(result['results'][0]['metrics']

#                 if i ==3:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t25_value2014.append(result['results'][0]['metrics']
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t25_value2015.append(result['results'][0]['metrics']
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t25_value2016.append(result['results'][0]['metrics']
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t25_value2017.append(result['results'][0]['metrics']
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t25_value2018.append(result['results'][0]['metrics']

                if 'percentageByYear' in result['results'][0]['metrics'][0][
#                 if i ==0:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2018.append(result['results'][0]['metri

#                 if i ==1:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
```

```python
                        t5_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2018.append(result['results'][0]['metri


#                 if i ==2:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2018.append(result['results'][0]['metri


#                 if i ==3:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2018.append(result['results'][0]['metri
#             else:
#                 t1_value2014.append('')
#                 t1_value2015.append('')
#                 t1_value2016.append('')
#                 t1_value2017.append('')
#                 t1_value2018.append('')
#                 t1_percentage2014.append('')
#                 t1_percentage2015.append('')
#                 t1_percentage2016.append('')
#                 t1_percentage2017.append('')
#                 t1_percentage2018.append('')

#             else:
#                 t1_value2014.append('')
#                 t1_value2015.append('')
#                 t1_value2016.append('')
#                 t1_value2017.append('')
```

```python
#                          t1_value2018.append('')
#                          t1_percentage2014.append('')
#                          t1_percentage2015.append('')
#                          t1_percentage2016.append('')
#                          t1_percentage2017.append('')
#                          t1_percentage2018.append('')

#                  if 'threshold' in result['results'][0]['metrics'][0]['values']:
#                      threshold.append(result['results'][0]['metrics'][0]['values

s1=pd.Series(inst_country, name='country')
s2=pd.Series(inst_cc, name='countryCode')
s3=pd.Series(inst_id, name='institution_id')
s4=pd.Series(inst_link, name='link')
s5=pd.Series(inst_name, name='institution_name')
s6=pd.Series(metricType, name='metricType')
s7=pd.Series(threshold, name='threshold')
s8=pd.Series(t1_value2014, name='t1_2014')
s9=pd.Series(t1_value2015, name='t1_2015')
s10=pd.Series(t1_value2016, name='t1_2016')
s11=pd.Series(t1_value2017, name='t1_2017')
s12=pd.Series(t1_value2018, name='t1_2018')
s13=pd.Series(t1_percentage2014, name='t1_percent2014')
s14=pd.Series(t1_percentage2015, name='t1_percent2015')
s15=pd.Series(t1_percentage2016, name='t1_percent2016')
s16=pd.Series(t1_percentage2017, name='t1_percent2017')
s17=pd.Series(t1_percentage2018, name='t1_percent2018')
s18=pd.Series(t5_value2014, name='t5_2014')
s19=pd.Series(t5_value2015, name='t5_2015')
s20=pd.Series(t5_value2016, name='t5_2016')
s21=pd.Series(t5_value2017, name='t5_2017')
s22=pd.Series(t5_value2018, name='t5_2018')
s23=pd.Series(t5_percentage2014, name='t5_percent2014')
s24=pd.Series(t5_percentage2015, name='t5_percent2015')
s25=pd.Series(t5_percentage2016, name='t5_percent2016')
s26=pd.Series(t5_percentage2017, name='t5_percent2017')
s27=pd.Series(t5_percentage2018, name='t5_percent2018')
s28=pd.Series(t10_value2014, name='t10_2014')
s29=pd.Series(t10_value2015, name='t10_2015')
s30=pd.Series(t10_value2016, name='t10_2016')
s31=pd.Series(t10_value2017, name='t10_2017')
s32=pd.Series(t10_value2018, name='t10_2018')
s33=pd.Series(t10_percentage2014, name='t10_percent2014')
s34=pd.Series(t10_percentage2015, name='t10_percent2015')
s35=pd.Series(t10_percentage2016, name='t10_percent2016')
s36=pd.Series(t10_percentage2017, name='t10_percent2017')
s37=pd.Series(t10_percentage2018, name='t10_percent2018')
```

```python
s38=pd.Series(t25_value2014, name='t25_2014')
s39=pd.Series(t25_value2015, name='t25_2015')
s40=pd.Series(t25_value2016, name='t25_2016')
s41=pd.Series(t25_value2017, name='t25_2017')
s42=pd.Series(t25_value2018, name='t25_2018')
s43=pd.Series(t25_percentage2014, name='t25_percent2014')
s44=pd.Series(t25_percentage2015, name='t25_percent2015')
s45=pd.Series(t25_percentage2016, name='t25_percent2016')
s46=pd.Series(t25_percentage2017, name='t25_percent2017')
s47=pd.Series(t25_percentage2018, name='t25_percent2018')


DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11,s12,s13,s14,s15,s16, s17,s18,s19,s20
            s28,s29,s30,s31,s32,s33,s34,s35,s36,s37,s38,s39,s40, s41,s42,s43,s44,s45


DF.to_csv("THE_UNI_PublicationsInTopJournalPercentiles_ALL_3.csv", index=False)  # 0.


#print(threshold)
```

In [233]:
```python
import requests
import json
import pandas as pd
import numpy as np
from time import sleep
sleep(2)

inst_country=[]
inst_cc=[]
inst_id=[]
inst_link=[]
inst_name=[]
metricType=[]
#threshold=[]
t1_value2014=[]
t1_value2015=[]
t1_value2016=[]
t1_value2017=[]
t1_value2018=[]
t1_percentage2014=[]
t1_percentage2015=[]
t1_percentage2016=[]
t1_percentage2017=[]
t1_percentage2018=[]
t5_value2014=[]
t5_value2015=[]
```

```python
t5_value2016=[]
t5_value2017=[]
t5_value2018=[]
t5_percentage2014=[]
t5_percentage2015=[]
t5_percentage2016=[]
t5_percentage2017=[]
t5_percentage2018=[]
t10_value2014=[]
t10_value2015=[]
t10_value2016=[]
t10_value2017=[]
t10_value2018=[]
t10_percentage2014=[]
t10_percentage2015=[]
t10_percentage2016=[]
t10_percentage2017=[]
t10_percentage2018=[]
t25_value2014=[]
t25_value2015=[]
t25_value2016=[]
t25_value2017=[]
t25_value2018=[]
t25_percentage2014=[]
t25_percentage2015=[]
t25_percentage2016=[]
t25_percentage2017=[]
t25_percentage2018=[]


for line in data['University id'][1000:]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Pu
 #   print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                        'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
    parsed=json.dumps(resp.json(),
              sort_keys=True,
              indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if 'results' in result:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                if 'country' in result['results'][0]['institution']:
```

```python
                    inst_country.append(result['results'][0]['institution']['country'])
#               if 'countryCode' in result['results'][0]['institution']:
                    inst_cc.append(result['results'][0]['institution']['countryCode'])
#               if 'id' in result['results'][0]['institution']:
                    inst_id.append(result['results'][0]['institution']['id'])
#               if 'link' in result['results'][0]['institution']:
                    inst_link.append(result['results'][0]['institution']['link'])
#               if 'name' in result['results'][0]['institution']:
                    inst_name.append(result['results'][0]['institution']['name'])
                if 'metrics' in result['results'][0]:
#                 if len(result['results'][0]['metrics'])>=1:
                    if 'metricType' in result['results'][0]['metrics'][0]:
                        metricType.append(result['results'][0]['metrics'][0]['metricType
                    if 'values' in result['results'][0]['metrics'][0]:
#                       print(result['results'][0]['metrics'][0]['values'][1]['threshol
#                       for i in range(0, len(result['results'][0]['metrics'][0]['value.
#                           threshold.append(result['results'][0]['metrics'][0]['values
                        if 'valueByYear' in result['results'][0]['metrics'][0]['values']
#                           if i ==0:
                            if '2014' in result['results'][0]['metrics'][0]['values'][0]
                                t1_value2014.append(result['results'][0]['metrics'][0]['
                            if '2015' in result['results'][0]['metrics'][0]['values'][0]
                                t1_value2015.append(result['results'][0]['metrics'][0]['
                            if '2016' in result['results'][0]['metrics'][0]['values'][0]
                                t1_value2016.append(result['results'][0]['metrics'][0]['
                            if '2017' in result['results'][0]['metrics'][0]['values'][0]
                                t1_value2017.append(result['results'][0]['metrics'][0]['
                            if '2018' in result['results'][0]['metrics'][0]['values'][0]
                                t1_value2018.append(result['results'][0]['metrics'][0]['
#                           if i ==1:
                        if 'valueByYear' in result['results'][0]['metrics'][0]['values']
                            if '2014' in result['results'][0]['metrics'][0]['values'][1]
                                t5_value2014.append(result['results'][0]['metrics'][0]['
                            if '2015' in result['results'][0]['metrics'][0]['values'][1]
                                t5_value2015.append(result['results'][0]['metrics'][0]['
                            if '2016' in result['results'][0]['metrics'][0]['values'][1]
                                t5_value2016.append(result['results'][0]['metrics'][0]['
                            if '2017' in result['results'][0]['metrics'][0]['values'][1]
                                t5_value2017.append(result['results'][0]['metrics'][0]['
                            if '2018' in result['results'][0]['metrics'][0]['values'][1]
                                t5_value2018.append(result['results'][0]['metrics'][0]['

#                           if i ==2:
                        if 'valueByYear' in result['results'][0]['metrics'][0]['values']
                            if '2014' in result['results'][0]['metrics'][0]['values'][2]
                                t10_value2014.append(result['results'][0]['metrics'][0][
                            if '2015' in result['results'][0]['metrics'][0]['values'][2]
                                t10_value2015.append(result['results'][0]['metrics'][0][
```

```python
                        if '2016' in result['results'][0]['metrics'][0]['values'][2]
                            t10_value2016.append(result['results'][0]['metrics'][0][
                        if '2017' in result['results'][0]['metrics'][0]['values'][2]
                            t10_value2017.append(result['results'][0]['metrics'][0][
                        if '2018' in result['results'][0]['metrics'][0]['values'][2]
                            t10_value2018.append(result['results'][0]['metrics'][0][


#                         if i ==3:
                    if 'valueByYear' in result['results'][0]['metrics'][0]['values']
                        if '2014' in result['results'][0]['metrics'][0]['values'][3]
                            t25_value2014.append(result['results'][0]['metrics'][0][
                        if '2015' in result['results'][0]['metrics'][0]['values'][3]
                            t25_value2015.append(result['results'][0]['metrics'][0][
                        if '2016' in result['results'][0]['metrics'][0]['values'][3]
                            t25_value2016.append(result['results'][0]['metrics'][0][
                        if '2017' in result['results'][0]['metrics'][0]['values'][3]
                            t25_value2017.append(result['results'][0]['metrics'][0][
                        if '2018' in result['results'][0]['metrics'][0]['values'][3]
                            t25_value2018.append(result['results'][0]['metrics'][0][


                    if 'percentageByYear' in result['results'][0]['metrics'][0]['valu
#                         if i ==0:
                        if '2014' in result['results'][0]['metrics'][0]['values'][0]
                            t1_percentage2014.append(result['results'][0]['metrics']
                        if '2015' in result['results'][0]['metrics'][0]['values'][0]
                            t1_percentage2015.append(result['results'][0]['metrics']
                        if '2016' in result['results'][0]['metrics'][0]['values'][0]
                            t1_percentage2016.append(result['results'][0]['metrics']
                        if '2017' in result['results'][0]['metrics'][0]['values'][0]
                            t1_percentage2017.append(result['results'][0]['metrics']
                        if '2018' in result['results'][0]['metrics'][0]['values'][0]
                            t1_percentage2018.append(result['results'][0]['metrics']


#                         if i ==1:
                    if 'percentageByYear' in result['results'][0]['metrics'][0]['valu
                        if '2014' in result['results'][0]['metrics'][0]['values'][1]
                            t5_percentage2014.append(result['results'][0]['metrics']
                        if '2015' in result['results'][0]['metrics'][0]['values'][1]
                            t5_percentage2015.append(result['results'][0]['metrics']
                        if '2016' in result['results'][0]['metrics'][0]['values'][1]
                            t5_percentage2016.append(result['results'][0]['metrics']
                        if '2017' in result['results'][0]['metrics'][0]['values'][1]
                            t5_percentage2017.append(result['results'][0]['metrics']
                        if '2018' in result['results'][0]['metrics'][0]['values'][1]
                            t5_percentage2018.append(result['results'][0]['metrics']


#                         if i ==2:
                    if 'percentageByYear' in result['results'][0]['metrics'][0]['valu
```

```python
            if '2014' in result['results'][0]['metrics'][0]['values'][2]
                t10_percentage2014.append(result['results'][0]['metrics']
            if '2015' in result['results'][0]['metrics'][0]['values'][2]
                t10_percentage2015.append(result['results'][0]['metrics']
            if '2016' in result['results'][0]['metrics'][0]['values'][2]
                t10_percentage2016.append(result['results'][0]['metrics']
            if '2017' in result['results'][0]['metrics'][0]['values'][2]
                t10_percentage2017.append(result['results'][0]['metrics']
            if '2018' in result['results'][0]['metrics'][0]['values'][2]
                t10_percentage2018.append(result['results'][0]['metrics']

#                    if i ==3:
                if 'percentageByYear' in result['results'][0]['metrics'][0]['valu
            if '2014' in result['results'][0]['metrics'][0]['values'][3]
                t25_percentage2014.append(result['results'][0]['metrics']
            if '2015' in result['results'][0]['metrics'][0]['values'][3]
                t25_percentage2015.append(result['results'][0]['metrics']
            if '2016' in result['results'][0]['metrics'][0]['values'][3]
                t25_percentage2016.append(result['results'][0]['metrics']
            if '2017' in result['results'][0]['metrics'][0]['values'][3]
                t25_percentage2017.append(result['results'][0]['metrics']
            if '2018' in result['results'][0]['metrics'][0]['values'][3]
                t25_percentage2018.append(result['results'][0]['metrics']
#                else:
#                    t1_value2014.append('')
#                    t1_value2015.append('')
#                    t1_value2016.append('')
#                    t1_value2017.append('')
#                    t1_value2018.append('')
#                    t1_percentage2014.append('')
#                    t1_percentage2015.append('')
#                    t1_percentage2016.append('')
#                    t1_percentage2017.append('')
#                    t1_percentage2018.append('')

#                else:
#                    t1_value2014.append('')
#                    t1_value2015.append('')
#                    t1_value2016.append('')
#                    t1_value2017.append('')
#                    t1_value2018.append('')
#                    t1_percentage2014.append('')
#                    t1_percentage2015.append('')
#                    t1_percentage2016.append('')
#                    t1_percentage2017.append('')
#                    t1_percentage2018.append('')

#                if 'threshold' in result['results'][0]['metrics'][0]['values']:
```

```python
#                            threshold.append(result['results'][0]['metrics'][0]['values

s1=pd.Series(inst_country, name='country')
s2=pd.Series(inst_cc, name='countryCode')
s3=pd.Series(inst_id, name='institution_id')
s4=pd.Series(inst_link, name='link')
s5=pd.Series(inst_name, name='institution_name')
s6=pd.Series(metricType, name='metricType')
#s7=pd.Series(threshold, name='threshold')
s8=pd.Series(t1_value2014, name='t1_2014')
s9=pd.Series(t1_value2015, name='t1_2015')
s10=pd.Series(t1_value2016, name='t1_2016')
s11=pd.Series(t1_value2017, name='t1_2017')
s12=pd.Series(t1_value2018, name='t1_2018')
s13=pd.Series(t1_percentage2014, name='t1_percent2014')
s14=pd.Series(t1_percentage2015, name='t1_percent2015')
s15=pd.Series(t1_percentage2016, name='t1_percent2016')
s16=pd.Series(t1_percentage2017, name='t1_percent2017')
s17=pd.Series(t1_percentage2018, name='t1_percent2018')
s18=pd.Series(t5_value2014, name='t5_2014')
s19=pd.Series(t5_value2015, name='t5_2015')
s20=pd.Series(t5_value2016, name='t5_2016')
s21=pd.Series(t5_value2017, name='t5_2017')
s22=pd.Series(t5_value2018, name='t5_2018')
s23=pd.Series(t5_percentage2014, name='t5_percent2014')
s24=pd.Series(t5_percentage2015, name='t5_percent2015')
s25=pd.Series(t5_percentage2016, name='t5_percent2016')
s26=pd.Series(t5_percentage2017, name='t5_percent2017')
s27=pd.Series(t5_percentage2018, name='t5_percent2018')
s28=pd.Series(t10_value2014, name='t10_2014')
s29=pd.Series(t10_value2015, name='t10_2015')
s30=pd.Series(t10_value2016, name='t10_2016')
s31=pd.Series(t10_value2017, name='t10_2017')
s32=pd.Series(t10_value2018, name='t10_2018')
s33=pd.Series(t10_percentage2014, name='t10_percent2014')
s34=pd.Series(t10_percentage2015, name='t10_percent2015')
s35=pd.Series(t10_percentage2016, name='t10_percent2016')
s36=pd.Series(t10_percentage2017, name='t10_percent2017')
s37=pd.Series(t10_percentage2018, name='t10_percent2018')
s38=pd.Series(t25_value2014, name='t25_2014')
s39=pd.Series(t25_value2015, name='t25_2015')
s40=pd.Series(t25_value2016, name='t25_2016')
s41=pd.Series(t25_value2017, name='t25_2017')
s42=pd.Series(t25_value2018, name='t25_2018')
s43=pd.Series(t25_percentage2014, name='t25_percent2014')
s44=pd.Series(t25_percentage2015, name='t25_percent2015')
s45=pd.Series(t25_percentage2016, name='t25_percent2016')
```

```
s46=pd.Series(t25_percentage2017, name='t25_percent2017')
s47=pd.Series(t25_percentage2018, name='t25_percent2018')


DF=pd.concat([s1,s2,s3,s4,s5,s6,s8,s9,s10,s11,s12,s13,s14,s15,s16, s17,s18,s19,s20,s2
             s28,s29,s30,s31,s32,s33,s34,s35,s36,s37,s38,s39,s40, s41,s42,s43,s44,s4


DF.to_csv("THE_UNI_PubPercentile_All_17.csv", index=False)  # OK



#print(threshold)
```

18   Combine all the subfiles and subset the USA universities

19   CitationCount

```
In [234]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\CitationCount"

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\CitationCount


In [235]: filename='THE_UNI_CitationCount_ALL_{}.csv'

In [237]: chucks=[]

          for i in range(1, 12):
              chucks.append(pd.read_csv(filename.format(i)))

          cc_data=pd.concat(chucks, ignore_index=True)

          cc_data.head()

Out[237]:          country countryCode  institution_id  \
          0  United Kingdom         GBR          315091
          1   United States         USA          508092
          2   United States         USA          508021
          3  United Kingdom         GBR          315068
          4   United States         USA          508219


                                              link  \
          0  {'@href': 'https://api.elsevier.com/analytics/...
          1  {'@href': 'https://api.elsevier.com/analytics/...
          2  {'@href': 'https://api.elsevier.com/analytics/...
          3  {'@href': 'https://api.elsevier.com/analytics/...
          4  {'@href': 'https://api.elsevier.com/analytics/...
```

```
                                institution_name       metricType       2014  \
0                            University of Oxford  CitationCount     362631.0
1    Jet Propulsion Laboratory, California Institut...  CitationCount      40303.0
2              California Institute of Technology  CitationCount     131650.0
3                       University of Cambridge    CitationCount     264596.0
4                           Stanford University    CitationCount     411975.0

        2015       2016       2017       2018
0  320264.0  245401.0  157032.0   82250.0
1   31088.0    33761.0    19335.0     9915.0
2   99103.0    92609.0    60850.0   31739.0
3  241231.0  203383.0  133380.0   70147.0
4  371956.0  290615.0  203160.0  103230.0
```

In [240]: cc_data.to_csv('THE_ALLUNI_CC.csv', index=True)

20 FWCI

In [241]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI"

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI

In [242]: filename='THE_UNI_FWCI_{}.csv'

In [244]: chucks=[]

```python
for i in range(1, 12):
    chucks.append(pd.read_csv(filename.format(i)))

fwci_data=pd.concat(chucks, ignore_index=True)

fwci_data.head()
```

```
Out[244]:           country countryCode  institution_id  \
        0  United Kingdom         GBR          315091
        1   United States         USA          508092
        2   United States         USA          508021
        3  United Kingdom         GBR          315068
        4   United States         USA          508219


                                                   link  \
        0  {'@href': 'https://api.elsevier.com/analytics/...
        1  {'@href': 'https://api.elsevier.com/analytics/...
        2  {'@href': 'https://api.elsevier.com/analytics/...
        3  {'@href': 'https://api.elsevier.com/analytics/...
        4  {'@href': 'https://api.elsevier.com/analytics/...
```

```
                                 institution_name  \
        0                       University of Oxford
        1   Jet Propulsion Laboratory, California Institut...
        2             California Institute of Technology
        3                   University of Cambridge
        4                       Stanford University


                          metricType      2014      2015      2016      2017  \
        0  FieldWeightedCitationImpact  2.232452  2.178834  2.202485  1.966025
        1  FieldWeightedCitationImpact  1.611136  1.462793  1.656759  1.470790
        2  FieldWeightedCitationImpact  1.890797  1.740487  1.921985  1.847315
        3  FieldWeightedCitationImpact  1.904510  1.990053  2.050378  1.946377
        4  FieldWeightedCitationImpact  2.445251  2.476393  2.568147  2.269981


              2018
        0  1.804821
        1  1.346227
        2  1.605074
        3  1.763683
        4  2.244260
```

In [245]: `fwci_data.to_csv("THE_ALLUNI_FWCI.csv", index=False)`

21   PercPublsCited

In [246]: `cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited`

`C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited`

In [247]: `filename='THE_UNI_CitedPublications_{}.csv'`

In [248]: `chucks=[]`

```
          for i in range(1, 12):
              chucks.append(pd.read_csv(filename.format(i)))

          cp_data=pd.concat(chucks, ignore_index=True)

          cp_data.head()
```

Out[248]:
```
                  country countryCode  institution_id  \
        0  United Kingdom         GBR          315091
        1   United States         USA          508092
        2   United States         USA          508021
        3  United Kingdom         GBR          315068
        4   United States         USA          508219
```

```
                                                   link  \
        0  {'@href': 'https://api.elsevier.com/analytics/...
        1  {'@href': 'https://api.elsevier.com/analytics/...
        2  {'@href': 'https://api.elsevier.com/analytics/...
        3  {'@href': 'https://api.elsevier.com/analytics/...
        4  {'@href': 'https://api.elsevier.com/analytics/...

                                     institution_name        metricType  \
        0                          University of Oxford  CitedPublications
        1  Jet Propulsion Laboratory, California Institut...  CitedPublications
        2              California Institute of Technology  CitedPublications
        3                       University of Cambridge  CitedPublications
        4                           Stanford University  CitedPublications

              2014     2015     2016     2017     2018  percent2014  percent2015  \
        0  10893.0  11679.0  11798.0  11474.0  10570.0    86.555420     85.53537
        1   1514.0   1451.0   1722.0   1588.0   1406.0    79.142710     80.61111
        2   3879.0   3770.0   3914.0   3779.0   3487.0    85.856575     86.72648
        3   9116.0   9238.0   9558.0   9125.0   8418.0    88.060280     86.17537
        4  11156.0  11846.0  11699.0  11642.0  10731.0    87.149445     86.74575

           percent2016  percent2017  percent2018
        0    84.115210     78.56213     70.69761
        1    78.954605     77.38792     63.90909
        2    85.965300     82.74578     71.39640
        3    84.330330     79.49991     71.42372
        4    85.619150     81.79583     72.85627
```

In [249]: cp_data.to_csv("THEUNI_CITEDPUBLS.csv",index=False)

22   PubTopJournalPercentile

In [250]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PubTopJournalP

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PubTopJournalPercentile

In [251]: filename='THE_UNI_PubPercentile_All_{}.csv'

In [252]: chucks=[]

```python
for i in range(1, 18):
    chucks.append(pd.read_csv(filename.format(i)))

pp_data=pd.concat(chucks, ignore_index=True)

pp_data.head()
```

```
Out[252]:           country countryCode  institution_id  \
        0  United Kingdom         GBR          315091
        1   United States         USA          508092
        2  United Kingdom         GBR          315091
        3   United States         USA          508092
        4   United States         USA          508021

                                                link  \
        0  {'@href': 'https://api.elsevier.com/analytics/...
        1  {'@href': 'https://api.elsevier.com/analytics/...
        2  {'@href': 'https://api.elsevier.com/analytics/...
        3  {'@href': 'https://api.elsevier.com/analytics/...
        4  {'@href': 'https://api.elsevier.com/analytics/...

                                       institution_name  \
        0                            University of Oxford
        1  Jet Propulsion Laboratory, California Institut...
        2                            University of Oxford
        3  Jet Propulsion Laboratory, California Institut...
        4               California Institute of Technology

                                 metricType  t1_2014  t1_2015  t1_2016  t1_2017  \
        0  PublicationsInTopJournalPercentiles    686.0    846.0    887.0    771.0
        1  PublicationsInTopJournalPercentiles     74.0     82.0     83.0     71.0
        2  PublicationsInTopJournalPercentiles    686.0    846.0    887.0    771.0
        3  PublicationsInTopJournalPercentiles     74.0     82.0     83.0     71.0
        4  PublicationsInTopJournalPercentiles    305.0    245.0    259.0    253.0

           ...  t25_2014  t25_2015  t25_2016  t25_2017  t25_2018  t25_percent2014  \
        0  ...    8098.0    8796.0    9089.0    9372.0   10096.0         73.77915
        1  ...    1012.0    1056.0    1215.0    1195.0    1233.0         67.55675
        2  ...    8098.0    8796.0    9089.0    9372.0   10096.0         73.77915
        3  ...    1012.0    1056.0    1215.0    1195.0    1233.0         67.55675
        4  ...    2948.0    2945.0    3094.0    3108.0    3251.0         76.41265

           t25_percent2015  t25_percent2016  t25_percent2017  t25_percent2018
        0        75.321110         73.55345        74.210150        74.923935
        1        73.333336         67.42509        66.536750        64.185320
        2        75.321110         73.55345        74.210150        74.923935
        3        73.333336         67.42509        66.536750        64.185320
        4        79.102875         77.93451        76.835594        74.752820

        [5 rows x 46 columns]

In [253]: pp_data.to_csv("THE_ALLUNI_PP.csv", index=False)
```

23 ScholarlyOutput

```
In [256]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\ScholarlyOutpu

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\ScholarlyOutput


In [257]: filename='THE_UNI_SCHOLAROUTPUT_ALL_{}.csv'

In [258]: chucks=[]

          for i in range(1, 15):
              chucks.append(pd.read_csv(filename.format(i)))

          so_data=pd.concat(chucks, ignore_index=True)

          so_data.head()

Out[258]:            country countryCode  institution_id  \
          0  United Kingdom         GBR          315091
          1   United States         USA          508092
          2   United States         USA          508021
          3  United Kingdom         GBR          315068
          4   United States         USA          508219

                                                        link  \
          0  {'@href': 'https://api.elsevier.com/analytics/...
          1  {'@href': 'https://api.elsevier.com/analytics/...
          2  {'@href': 'https://api.elsevier.com/analytics/...
          3  {'@href': 'https://api.elsevier.com/analytics/...
          4  {'@href': 'https://api.elsevier.com/analytics/...

                                         institution_name       metricType   2014  \
          0                           University of Oxford  ScholarlyOutput  12585
          1  Jet Propulsion Laboratory, California Institut...  ScholarlyOutput   1913
          2              California Institute of Technology  ScholarlyOutput   4518
          3                       University of Cambridge  ScholarlyOutput  10352
          4                           Stanford University  ScholarlyOutput  12801

              2015   2016   2017   2018
          0  13654  14026  14605  14951
          1   1800   2181   2052   2200
          2   4347   4553   4567   4884
          3  10720  11334  11478  11786
          4  13656  13664  14233  14729

In [259]: so_data.to_csv("THE_ALLUNI_SO.csv", index=False)
```

24 USA University Publication Output

25 Total

```
In [261]: so_data.head()
```

```
Out[261]:            country countryCode  institution_id  \
          0   United Kingdom        GBR          315091
          1    United States        USA          508092
          2    United States        USA          508021
          3   United Kingdom        GBR          315068
          4    United States        USA          508219


                                              link  \
          0  {'@href': 'https://api.elsevier.com/analytics/...
          1  {'@href': 'https://api.elsevier.com/analytics/...
          2  {'@href': 'https://api.elsevier.com/analytics/...
          3  {'@href': 'https://api.elsevier.com/analytics/...
          4  {'@href': 'https://api.elsevier.com/analytics/...


                                  institution_name       metricType   2014  \
          0                    University of Oxford  ScholarlyOutput  12585
          1  Jet Propulsion Laboratory, California Institut...  ScholarlyOutput   1913
          2        California Institute of Technology  ScholarlyOutput   4518
          3                University of Cambridge  ScholarlyOutput  10352
          4                    Stanford University  ScholarlyOutput  12801


              2015   2016   2017   2018
          0  13654  14026  14605  14951
          1   1800   2181   2052   2200
          2   4347   4553   4567   4884
          3  10720  11334  11478  11786
          4  13656  13664  14233  14729
```

```
In [303]: so_data[so_data.countryCode=='USA'].head()
          so_data_USA=so_data[so_data.countryCode=='USA']
```

```
In [263]: import seaborn as sns
          import matplotlib.pyplot as plt
          %matplotlib inline
```

```
In [316]: so_data_USA=so_data_USA.iloc[:,-7:]
```

```
In [317]: so_data_USA.head()
```

```
Out[317]:                         institution_name       metricType   2014  \
          1  Jet Propulsion Laboratory, California Institut...  ScholarlyOutput   1913
          2        California Institute of Technology  ScholarlyOutput   4518
          4                    Stanford University  ScholarlyOutput  12801
```

```
5                    Massachusetts Institute of Technology  ScholarlyOutput    9645
6                                    Princeton University  ScholarlyOutput    4335


         2015    2016    2017    2018
1        1800    2181    2052    2200
2        4347    4553    4567    4884
4       13656   13664   14233   14729
5        9957   10023   10191   10458
6        4629    4544    4635    4891
```

In [318]: **del** so_data_USA['metricType']

In [319]: so_data_USA.head()

```
Out[319]:                                institution_name   2014    2015    2016  \
          1  Jet Propulsion Laboratory, California Institut...   1913    1800    2181
          2              California Institute of Technology    4518    4347    4553
          4                             Stanford University   12801   13656   13664
          5           Massachusetts Institute of Technology    9645    9957   10023
          6                             Princeton University    4335    4629    4544


            2017    2018
          1  2052    2200
          2  4567    4884
          4 14233   14729
          5 10191   10458
          6  4635    4891
```

In [365]: so_data_USA=so_data_USA.set_index('institution_name')

In [366]: so_data_USA.agg('sum')

```
Out[366]: 2014    406395
          2015    418152
          2016    427558
          2017    443910
          2018    460523
          dtype: int64
```

In [379]: x=URpp.agg('sum')
          sns.distplot(x)

Out[379]: <matplotlib.axes._subplots.AxesSubplot at 0x23eefb89748>
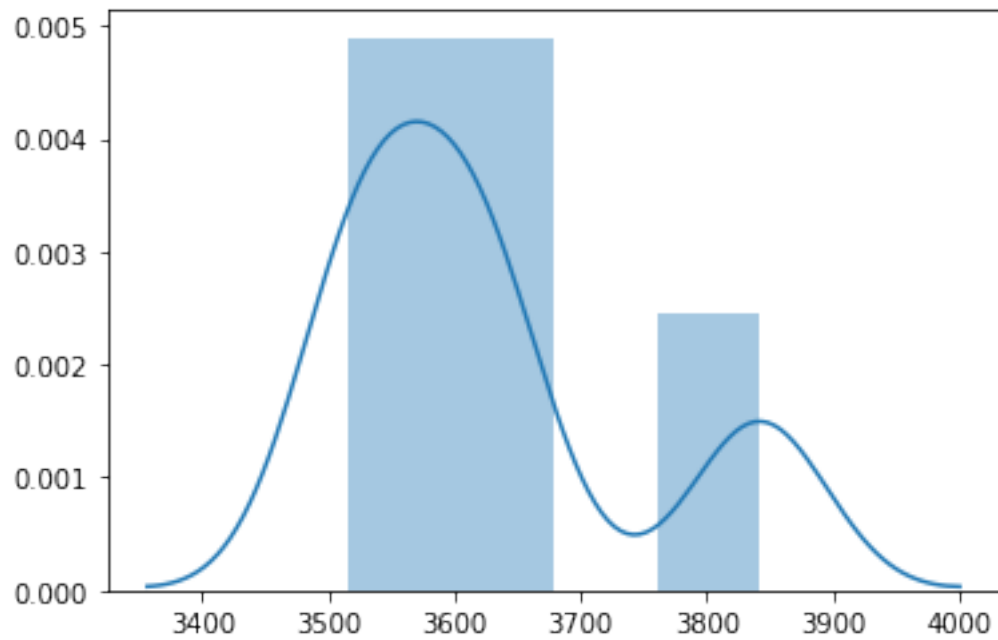
In [378]: sns.distplot(so_data_USA.agg('sum'))

Out[378]: <matplotlib.axes._subplots.AxesSubplot at 0x23eefb20c88>
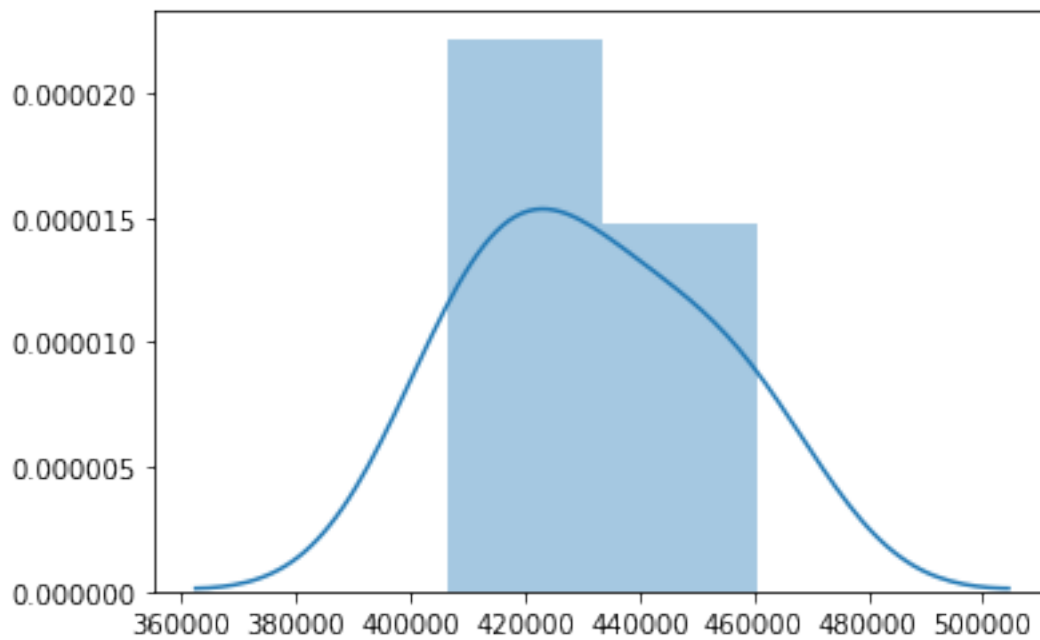
```
In [346]: len(so_data_USA) # 163 USA universities

Out[346]: 163

In [347]: so_data_USA=so_data_USA.set_index('institution_name')

In [349]: so_data_USA.agg('sum')

Out[349]: 2014    406395
          2015    418152
          2016    427558
          2017    443910
          2018    460523
          dtype: int64

In [411]: so_data_USA=so_data_USA.reset_index()

In [412]: so_data_USA.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 163 entries, 0 to 162
Data columns (total 7 columns):
institution_name    163 non-null object
2014                163 non-null int64
2015                163 non-null int64
2016                163 non-null int64
2017                163 non-null int64
2018                163 non-null int64
Total               0 non-null float64
dtypes: float64(1), int64(5), object(1)
memory usage: 9.0+ KB


In [391]: sep_sum=lambda x: x.agg('sum')

In [417]: so_data_USA['Total']=so_data_USA.sum(axis=1)

In [421]: so_data_USA['Total']=so_data_USA.Total.astype(int)
          so_data_USA.head()

Out[421]:                                   institution_name   2014   2015   2016  \
          0  Jet Propulsion Laboratory, California Institut...   1913   1800   2181
          1                   California Institute of Technology   4518   4347   4553
          2                                  Stanford University  12801  13656  13664
          3                Massachusetts Institute of Technology   9645   9957  10023
          4                                 Princeton University   4335   4629   4544

              2017   2018  Total
          0   2052   2200  10146
          1   4567   4884  22869
          2  14233  14729  69083
          3  10191  10458  50274
          4   4635   4891  23034
```

```
In [423]: URpp=URpp.reset_index()

In [424]: URpp['Total']=URpp.sum(axis=1)

In [425]: URpp

Out[425]:           institution_name  2014  2015  2016  2017  2018  Total
          0  University of Rochester  3602  3540  3515  3633  3842  18132

In [429]: # UR Publs Distribution
          inputdata=URpp[['2014','2015','2016','2017','2018']]
          sns.distplot(inputdata)

          # seems a bi-modal distribution but the overall trend is downward

Out[429]: <matplotlib.axes._subplots.AxesSubplot at 0x23eefd18ba8>
```
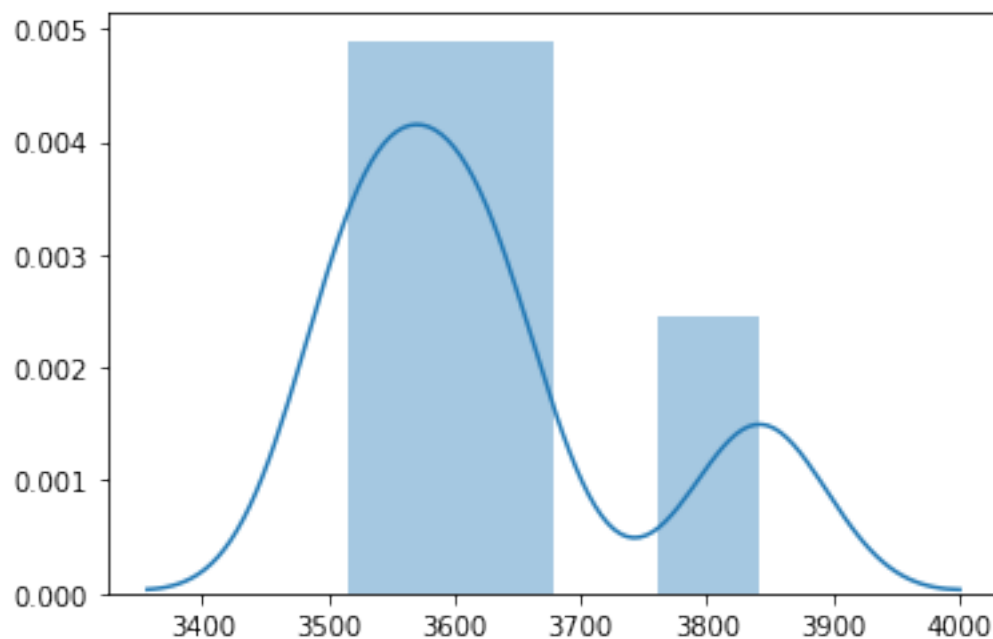

26   Top 1% and top 10% highly cited publications

```
In [436]: pp_data.head()

Out[436]:            country countryCode  institution_id  \
          0  United Kingdom         GBR          315091
          1   United States         USA          508092
          2  United Kingdom         GBR          315091
          3   United States         USA          508092
```

```
4    United States           USA              508021

                                               link  \
0  {'@href': 'https://api.elsevier.com/analytics/...
1  {'@href': 'https://api.elsevier.com/analytics/...
2  {'@href': 'https://api.elsevier.com/analytics/...
3  {'@href': 'https://api.elsevier.com/analytics/...
4  {'@href': 'https://api.elsevier.com/analytics/...


                                 institution_name  \
0                             University of Oxford
1  Jet Propulsion Laboratory, California Institut...
2                             University of Oxford
3  Jet Propulsion Laboratory, California Institut...
4                California Institute of Technology


                         metricType   t1_2014   t1_2015   t1_2016   t1_2017  \
0  PublicationsInTopJournalPercentiles   686.0     846.0     887.0     771.0
1  PublicationsInTopJournalPercentiles    74.0      82.0      83.0      71.0
2  PublicationsInTopJournalPercentiles   686.0     846.0     887.0     771.0
3  PublicationsInTopJournalPercentiles    74.0      82.0      83.0      71.0
4  PublicationsInTopJournalPercentiles   305.0     245.0     259.0     253.0


    ...   t25_2014   t25_2015   t25_2016   t25_2017   t25_2018   t25_percent2014  \
0  ...     8098.0     8796.0     9089.0     9372.0    10096.0          73.77915
1  ...     1012.0     1056.0     1215.0     1195.0     1233.0          67.55675
2  ...     8098.0     8796.0     9089.0     9372.0    10096.0          73.77915
3  ...     1012.0     1056.0     1215.0     1195.0     1233.0          67.55675
4  ...     2948.0     2945.0     3094.0     3108.0     3251.0          76.41265


    t25_percent2015   t25_percent2016   t25_percent2017   t25_percent2018
0         75.321110          73.55345         74.210150         74.923935
1         73.333336          67.42509         66.536750         64.185320
2         75.321110          73.55345         74.210150         74.923935
3         73.333336          67.42509         66.536750         64.185320
4         79.102875          77.93451         76.835594         74.752820


[5 rows x 46 columns]
```

In [437]: USA_pp=pp_data[pp_data.countryCode=='USA']

In [439]: len(USA_pp)

Out[439]: 164

In [441]: # we want t1 and t10 values

         USA_pp.head()

```
Out[441]:         country countryCode  institution_id  \
        1  United States         USA          508092
        3  United States         USA          508092
        4  United States         USA          508021
        6  United States         USA          508219
        7  United States         USA          508111


                                                      link  \
        1  {'@href': 'https://api.elsevier.com/analytics/...
        3  {'@href': 'https://api.elsevier.com/analytics/...
        4  {'@href': 'https://api.elsevier.com/analytics/...
        6  {'@href': 'https://api.elsevier.com/analytics/...
        7  {'@href': 'https://api.elsevier.com/analytics/...


                                       institution_name  \
        1  Jet Propulsion Laboratory, California Institut...
        3  Jet Propulsion Laboratory, California Institut...
        4             California Institute of Technology
        6                            Stanford University
        7         Massachusetts Institute of Technology


                                metricType  t1_2014  t1_2015  t1_2016  t1_2017  \
        1  PublicationsInTopJournalPercentiles     74.0     82.0     83.0     71.0
        3  PublicationsInTopJournalPercentiles     74.0     82.0     83.0     71.0
        4  PublicationsInTopJournalPercentiles    305.0    245.0    259.0    253.0
        6  PublicationsInTopJournalPercentiles    954.0   1016.0   1073.0   1027.0
        7  PublicationsInTopJournalPercentiles    820.0    818.0    918.0    822.0


           ...  t25_2014  t25_2015  t25_2016  t25_2017  t25_2018  t25_percent2014  \
        1  ...    1012.0    1056.0    1215.0    1195.0    1233.0         67.55675
        3  ...    1012.0    1056.0    1215.0    1195.0    1233.0         67.55675
        4  ...    2948.0    2945.0    3094.0    3108.0    3251.0         76.41265
        6  ...    8211.0    8963.0    8819.0    9276.0    9716.0         75.16478
        7  ...    5930.0    6190.0    6450.0    6475.0    6957.0         75.70535


           t25_percent2015  t25_percent2016  t25_percent2017  t25_percent2018
        1        73.333336        67.425090        66.536750         64.18532
        3        73.333336        67.425090        66.536750         64.18532
        4        79.102875        77.934510        76.835594         74.75282
        6        76.541420        74.535164        75.279980         74.75571
        7        75.839260        76.813150        77.120056         78.15975

        [5 rows x 46 columns]

In [442]: USA_pp.columns

Out[442]: Index(['country', 'countryCode', 'institution_id', 'link', 'institution_name',
              'metricType', 't1_2014', 't1_2015', 't1_2016', 't1_2017', 't1_2018',
```

```
                'tl_percent2014', 'tl_percent2015', 'tl_percent2016', 'tl_percent2017',
                'tl_percent2018', 't5_2014', 't5_2015', 't5_2016', 't5_2017', 't5_2018',
                't5_percent2014', 't5_percent2015', 't5_percent2016', 't5_percent2017',
                't5_percent2018', 't10_2014', 't10_2015', 't10_2016', 't10_2017',
                't10_2018', 't10_percent2014', 't10_percent2015', 't10_percent2016',
                't10_percent2017', 't10_percent2018', 't25_2014', 't25_2015',
                't25_2016', 't25_2017', 't25_2018', 't25_percent2014',
                't25_percent2015', 't25_percent2016', 't25_percent2017',
                't25_percent2018'],
              dtype='object')
```

In [443]: USA_pp=USA_pp.loc[:][['institution_name','t1_2014','t1_2015','t1_2016','t1_2017','t1_

In [445]: USA_pp=USA_pp.drop_duplicates()

In [447]: USA_pp=USA_pp.reset_index()

In [449]: USA_pp=USA_pp.iloc[:,1:]

In [450]: USA_pp.head()

```
Out[450]:                               institution_name  t1_2014  t1_2015  \
         0  Jet Propulsion Laboratory, California Institut...     74.0     82.0
         1            California Institute of Technology    305.0    245.0
         2                        Stanford University    954.0   1016.0
         3          Massachusetts Institute of Technology    820.0    818.0
         4                        Princeton University    271.0    269.0

            t1_2016  t1_2017  t1_2018  t10_2014  t10_2015  t10_2016  t10_2017  t10_2018
         0     83.0     71.0    123.0     455.0     483.0     694.0     687.0     679.0
         1    259.0    253.0    293.0    1709.0    1579.0    2051.0    1906.0    1967.0
         2   1073.0   1027.0   1025.0    5558.0    6068.0    5974.0    6233.0    6307.0
         3    918.0    822.0    869.0    4401.0    4418.0    4689.0    4613.0    4781.0
         4    227.0    241.0    253.0    1810.0    1740.0    1916.0    1871.0    1990.0
```

In [451]: USA_pp['2014_Total']=USA_pp.loc[:][['t1_2014','t10_2014']].sum(axis=1)

In [452]: USA_pp.head()

```
Out[452]:                               institution_name  t1_2014  t1_2015  \
         0  Jet Propulsion Laboratory, California Institut...     74.0     82.0
         1            California Institute of Technology    305.0    245.0
         2                        Stanford University    954.0   1016.0
         3          Massachusetts Institute of Technology    820.0    818.0
         4                        Princeton University    271.0    269.0

            t1_2016  t1_2017  t1_2018  t10_2014  t10_2015  t10_2016  t10_2017  \
         0     83.0     71.0    123.0     455.0     483.0     694.0     687.0
         1    259.0    253.0    293.0    1709.0    1579.0    2051.0    1906.0
```

```
      2   1073.0   1027.0   1025.0    5558.0    6068.0    5974.0    6233.0
      3    918.0    822.0    869.0    4401.0    4418.0    4689.0    4613.0
      4    227.0    241.0    253.0    1810.0    1740.0    1916.0    1871.0


          t10_2018  2014_Total
      0    679.0       529.0
      1    1967.0      2014.0
      2    6307.0      6512.0
      3    4781.0      5221.0
      4    1990.0      2081.0
```

In [453]: USA_pp['2015_Total']=USA_pp.loc[:][['t1_2015','t10_2015']].sum(axis=1)
          USA_pp['2016_Total']=USA_pp.loc[:][['t1_2016','t10_2016']].sum(axis=1)
          USA_pp['2017_Total']=USA_pp.loc[:][['t1_2017','t10_2017']].sum(axis=1)
          USA_pp['2018_Total']=USA_pp.loc[:][['t1_2018','t10_2018']].sum(axis=1)

In [454]: USA_pp.head()

Out[454]:   institution_name t1_2014 t1_2015 \
      0 Jet Propulsion Laboratory, California Institut...   74.0   82.0
      1   California Institute of Technology   305.0   245.0
      2   Stanford University   954.0   1016.0
      3   Massachusetts Institute of Technology   820.0   818.0
      4   Princeton University   271.0   269.0

          t1_2016 t1_2017 t1_2018 t10_2014 t10_2015 t10_2016 t10_2017 \
      0   83.0   71.0   123.0   455.0   483.0   694.0   687.0
      1   259.0   253.0   293.0   1709.0   1579.0   2051.0   1906.0
      2   1073.0   1027.0   1025.0   5558.0   6068.0   5974.0   6233.0
      3   918.0   822.0   869.0   4401.0   4418.0   4689.0   4613.0
      4   227.0   241.0   253.0   1810.0   1740.0   1916.0   1871.0

          t10_2018 2014_Total 2015_Total 2016_Total 2017_Total 2018_Total
      0   679.0   529.0   565.0   777.0   758.0   802.0
      1   1967.0   2014.0   1824.0   2310.0   2159.0   2260.0
      2   6307.0   6512.0   7084.0   7047.0   7260.0   7332.0
      3   4781.0   5221.0   5236.0   5607.0   5435.0   5650.0
      4   1990.0   2081.0   2009.0   2143.0   2112.0   2243.0

In [455]: UR_percentile=USA_pp[USA_pp.institution_name=='University of Rochester']

In [457]: UR_percentile=UR_percentile.set_index('institution_name')

In [458]: UR_percentile

Out[458]:   t1_2014 t1_2015 t1_2016 t1_2017 t1_2018 \
          institution_name
          University of Rochester   162.0   164.0   143.0   138.0   133.0
```

```
                                    t10_2014   t10_2015   t10_2016   t10_2017   t10_2018   \
           institution_name
           University of Rochester    1404.0     1308.0     1310.0     1309.0     1318.0

                                    2014_Total   2015_Total   2016_Total   2017_Total   \
           institution_name
           University of Rochester     1566.0       1472.0       1453.0       1447.0

                                    2018_Total
           institution_name
           University of Rochester     1451.0
```

In [459]: basedata=UR_percentile[['2014_Total','2015_Total','2016_Total','2017_Total','2018_Tot

In [464]: basedata

```
Out[464]:                            2014_Total   2015_Total   2016_Total   2017_Total   \
           institution_name
           University of Rochester     1566.0       1472.0       1453.0       1447.0

                                    2018_Total
           institution_name
           University of Rochester     1451.0
```

In [462]: smalldata=UR_percentile.iloc[:,:10]

In [465]: smalldata1=smalldata.loc[:][['t1_2014','t1_2015','t1_2016','t1_2017','t1_2018']]

In [467]: smalldata1

```
Out[467]:                          t1_2014   t1_2015   t1_2016   t1_2017   t1_2018
           institution_name
           University of Rochester   162.0     164.0     143.0     138.0     133.0
```

In [466]: smalldata2=smalldata.loc[:][['t10_2014','t10_2015','t10_2016','t10_2017','t10_2018']]

In [468]: smalldata2

```
Out[468]:                          t10_2014   t10_2015   t10_2016   t10_2017   t10_2018
           institution_name
           University of Rochester   1404.0     1308.0     1310.0     1309.0     1318.0
```

In [478]: # UR's ScholarlyOutput

          so_data_USA.head()

```
Out[478]:                                     institution_name    2014    2015    2016   \
           0   Jet Propulsion Laboratory, California Institut...   1913    1800    2181
           1                 California Institute of Technology   4518    4347    4553
           2                                Stanford University  12801   13656   13664
```

```
       3            Massachusetts Institute of Technology   9645    9957   10023
       4                          Princeton University   4335    4629    4544

          2017    2018   Total
       0   2052    2200   10146
       1   4567    4884   22869
       2  14233   14729   69083
       3  10191   10458   50274
       4   4635    4891   23034
```

In [479]: UR_so=so_data_USA[so_data_USA.institution_name=='University of Rochester']

In [486]: UR_so
         del UR_so['Total']

In [513]: UR_so

Out[513]:   2014   2015   2016   2017   2018
         institution_name
         University of Rochester   3602   3540   3515   3633   3842

In [514]: combinedata=pd.DataFrame({'2014':[int(162.0),int(1404.0),3602], '2015':[int(164.0),in
                                    '2016':[int(143.0), int(1310.0),3515],
                                    '2017':[int(138.0),int(1309.0),3633],
                                    '2018':[int(133.0), int(1318.0),3842]})

In [515]: combinedata

Out[515]:   2014   2015   2016   2017   2018
         0   162   164   143   138   133
         1   1404   1308   1310   1309   1318
         2   3602   3540   3515   3633   3842

In [516]: data_1=combinedata.iloc[2,:]
         data_2=combinedata.iloc[1,:]
         data_3=combinedata.iloc[0,:]

In [532]: data_1

Out[532]: 2014   3602
         2015   3540
         2016   3515
         2017   3633
         2018   3842
         Name: 2, dtype: int64

In [533]: A=pd.DataFrame(data=[data_1[:5]], columns=['2014','2015','2016','2017','2018'])

In [534]: A

                                   73

```
Out[534]:       2014   2015   2016   2017   2018
           2    3602   3540   3515   3633   3842

In [535]: B=pd.DataFrame(data=[data_2[:5]], columns=['2014','2015','2016','2017','2018'])

In [536]: C=pd.DataFrame(data=[data_3[:5]], columns=['2014','2015','2016','2017','2018'])

In [538]: import seaborn as sns
          import matplotlib.pyplot as plt
          sns.set(style="whitegrid")
          sns.set_style("ticks", {"xtick.major.size": 10, "ytick.major.size": 8})

          # Initialize the matplotlib figure
          f, ax = plt.subplots(figsize=(6, 15))

          # Load the example car crash dataset
          #crashes = sns.load_dataset("car_crashes").sort_values("total", ascending=False)

          # Plot the total crashes
          sns.set_color_codes("pastel")
          sns.barplot(data=A,
                      label="Total", color="b")

          # Plot the crashes where alcohol was involved
          sns.set_color_codes("dark")
          sns.barplot(data=B,
                      label="Top 10%", color="b")

          # Plot the crashes where alcohol was involved
          sns.set_color_codes("muted")
          sns.barplot(data=C,
                      label="Top 1%", color="g")


          # Add a legend and informative axis label
          plt.yticks(np.arange(0, 4000, step=500))
          plt.xticks(np.arange(5), ('2014', '2015', '2016', '2017', '2018'))
          ax.legend(ncol=3, loc="upper right", frameon=True)
          ax.set(xlim=(0,5), ylabel="",
                 title="U of R publication output: total, top 1 % and top 10 % highly cited pul
          sns.despine(left=True, bottom=True)
```

U of R publication output: total, top 1 % and top 10 % highly cited publs

Legend: Total, Top 10%, Top 1%

75

27 From 2014-2018 ,our top 1% cited publs and top10% cited pulbs slightly dropped a little, but because our 2018 total publs increased a lot, our % pulb. cited would drop

28 Trends in FWCI values of total U of R publication output

```
In [539]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI"
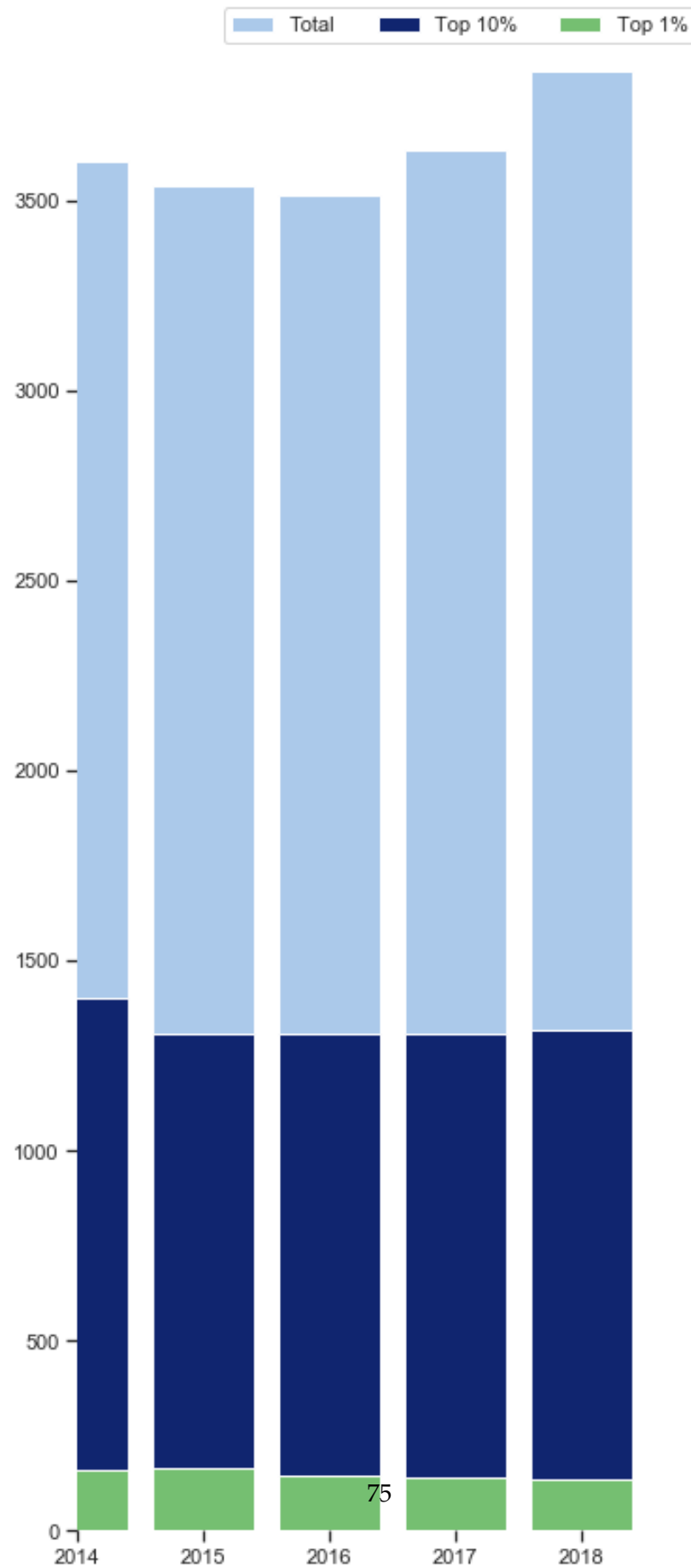
C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI


In [540]: FWCI_all=pd.read_csv('THE_ALLUNI_FWCI.csv')

In [541]: FWCI_all.head()

Out[541]:           country countryCode  institution_id  \
          0  United Kingdom         GBR          315091
          1   United States         USA          508092
          2   United States         USA          508021
          3  United Kingdom         GBR          315068
          4   United States         USA          508219


                                                     link  \
          0  {'@href': 'https://api.elsevier.com/analytics/...
          1  {'@href': 'https://api.elsevier.com/analytics/...
          2  {'@href': 'https://api.elsevier.com/analytics/...
          3  {'@href': 'https://api.elsevier.com/analytics/...
          4  {'@href': 'https://api.elsevier.com/analytics/...


                                      institution_name  \
          0                         University of Oxford
          1  Jet Propulsion Laboratory, California Institut...
          2            California Institute of Technology
          3                     University of Cambridge
          4                          Stanford University


                        metricType      2014      2015      2016      2017  \
          0  FieldWeightedCitationImpact  2.232452  2.178834  2.202485  1.966025
          1  FieldWeightedCitationImpact  1.611136  1.462793  1.656759  1.470790
          2  FieldWeightedCitationImpact  1.890797  1.740487  1.921985  1.847315
          3  FieldWeightedCitationImpact  1.904510  1.990053  2.050378  1.946377
          4  FieldWeightedCitationImpact  2.445251  2.476393  2.568147  2.269981


              2018
```

```
0   1.804821
1   1.346227
2   1.605074
3   1.763683
4   2.244260
```

In [548]: UR_FWCI=FWCI_all[FWCI_all.institution_name=='University of Rochester']

In [550]: UR_FWCI=UR_FWCI.iloc[:, -7:]

In [553]: del UR_FWCI['metricType']

In [556]: UR_FWCI

Out[556]:   institution_name   2014   2015   2016   2017   \
         1259   University of Rochester   1.827581   2.117681   1.646356   1.700714

                   2018
         1259   1.717541

29   UofR FWCI

In [573]: sns.barplot(data=UR_FWCI)
          plt.axhline(1.00, ls='-', color='r')
          plt.title('UofR FWCI 2014-2018 with World Average')
          plt.xlabel("UofR FWCI 2014-2018")
          plt.ylabel("Filed-weighted Cited Index")

Out[573]: Text(0, 0.5, 'Filed-weighted Cited Index')

30 Our FWCI have always been above global average which is 1.00

31 Comparator analysis: top 10 % highly cited publications for USA universities

```
In [574]: USA_pp.head()
```

```
Out[574]:                               institution_name  t1_2014  t1_2015  \
          0  Jet Propulsion Laboratory, California Institut...     74.0     82.0
          1              California Institute of Technology    305.0    245.0
          2                             Stanford University    954.0   1016.0
          3          Massachusetts Institute of Technology    820.0    818.0
          4                             Princeton University    271.0    269.0
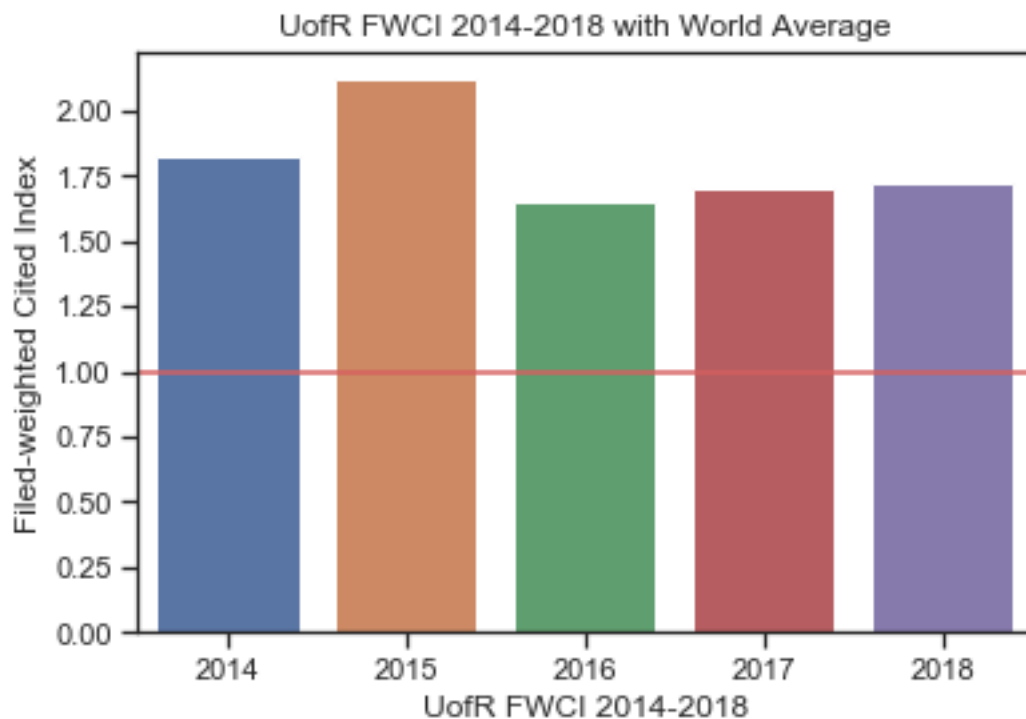
             t1_2016  t1_2017  t1_2018  t10_2014  t10_2015  t10_2016  t10_2017  \
          0     83.0     71.0    123.0     455.0     483.0     694.0     687.0
          1    259.0    253.0    293.0    1709.0    1579.0    2051.0    1906.0
          2   1073.0   1027.0   1025.0    5558.0    6068.0    5974.0    6233.0
          3    918.0    822.0    869.0    4401.0    4418.0    4689.0    4613.0
          4    227.0    241.0    253.0    1810.0    1740.0    1916.0    1871.0

             t10_2018  2014_Total  2015_Total  2016_Total  2017_Total  2018_Total
          0     679.0       529.0       565.0       777.0       758.0       802.0
          1    1967.0      2014.0      1824.0      2310.0      2159.0      2260.0
          2    6307.0      6512.0      7084.0      7047.0      7260.0      7332.0
          3    4781.0      5221.0      5236.0      5607.0      5435.0      5650.0
          4    1990.0      2081.0      2009.0      2143.0      2112.0      2243.0
```

```
In [575]: UR_peer=['Boston University','Carnegie Mellon University','Case Western Reserve Unive
                   'Northwestern University','Vanderbilt University','Washington University','Jo
                   'Stanford University','Tulane University','University of Chicago','University
```

```
In [581]: UR_peer_df=pd.DataFrame({'UR_Peer':UR_peer})
```

```
In [613]: UR_peer_df
```

```
Out[613]:                               UR_Peer
          0                     Boston University
          1            Carnegie Mellon University
          2        Case Western Reserve University
          3                       Duke University
          4                      Emory University
          5               Northwestern University
          6                  Vanderbilt University
          7                  Washington University
```

```
8                Johns Hopkins University
9                   New York University
10                   Stanford University
11                     Tulane University
12                University of Chicago
13           University of Pennsylvania
14  University of Southern California
```

In [616]: result=[]

```python
for name in UR_peer_df.UR_Peer:
    if USA_pp[USA_pp.institution_name==name] is not None:
        result.append(1)
    else:
        result.append(0)

len(result)
```

Out[616]: 15

In [595]: data=[]
```python
for name in UR_peer:
    if name in USA_pp.institution_name:
        data.append('T')
    else:
        data.append('F')

data
```

Out[595]: ['F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F', 'F']

In [588]: UR_peer_df.loc[:]['Result']=data

In [624]: UR_peer_df['UR_Peer']

```
Out[624]: 0                      Boston University
1                Carnegie Mellon University
2            Case Western Reserve University
3                          Duke University
4                         Emory University
5                  Northwestern University
6                     Vanderbilt University
7                     Washington University
8                  Johns Hopkins University
9                     New York University
10                     Stanford University
11                       Tulane University
12                  University of Chicago
13             University of Pennsylvania
14      University of Southern California
Name: UR_Peer, dtype: object
```

32 Get UofR's Global set's Publication in Top Journal Percentile

```
In [626]: chuck=[]
          for name in UR_peer_df['UR_Peer']:
              chuck.append(USA_pp[USA_pp.institution_name==name])
```

```
In [628]: DF=pd.concat(chuck, ignore_index=True)
```

```
In [629]: DF.head()
```

```
Out[629]:                      institution_name  t1_2014  t1_2015  t1_2016  t1_2017  \
          0                    Boston University    309.0    320.0    365.0    351.0
          1   Case Western Reserve University       174.0    172.0    206.0    198.0
          2                      Duke University    541.0    508.0    563.0    543.0
          3              Northwestern University    511.0    526.0    621.0    527.0
          4                Vanderbilt University    295.0    339.0    320.0    316.0

              t1_2018  t10_2014  t10_2015  t10_2016  t10_2017  t10_2018  2014_Total  \
          0    369.0    2219.0    2296.0    2421.0    2580.0    2564.0      2528.0
          1    163.0    1516.0    1551.0    1572.0    1594.0    1513.0      1690.0
          2    478.0    3823.0    3910.0    3747.0    3828.0    3875.0      4364.0
          3    603.0    3313.0    3412.0    3524.0    3682.0    3636.0      3824.0
          4    335.0    2301.0    2355.0    2516.0    2516.0    2492.0      2596.0

              2015_Total  2016_Total  2017_Total  2018_Total
          0       2616.0      2786.0      2931.0      2933.0
          1       1723.0      1778.0      1792.0      1676.0
          2       4418.0      4310.0      4371.0      4353.0
          3       3938.0      4145.0      4209.0      4239.0
          4       2694.0      2836.0      2832.0      2827.0
```

```
In [633]: UR_percentile=UR_percentile.reset_index()
```

```
In [632]: Global_top10=DF.loc[:][['institution_name','t10_2014','t10_2015','t10_2016','t10_201
```

```
In [634]: UR_pcer_top10=UR_percentile.loc[:][['institution_name','t10_2014','t10_2015','t10_20
```

```
In [635]: Global_top10.head()
```

```
Out[635]:                      institution_name  t10_2014  t10_2015  t10_2016  t10_2017  \
          0                    Boston University    2219.0    2296.0    2421.0    2580.0
          1   Case Western Reserve University       1516.0    1551.0    1572.0    1594.0
          2                      Duke University    3823.0    3910.0    3747.0    3828.0
          3              Northwestern University    3313.0    3412.0    3524.0    3682.0
          4                Vanderbilt University    2301.0    2355.0    2516.0    2516.0

              t10_2018
          0    2564.0
          1    1513.0
```

```
         2    3875.0
         3    3636.0
         4    2492.0

In [637]: Global_top10['Top10_Total']=Global_top10.sum(axis=1)

In [638]: Global_top10.head()

Out[638]:                   institution_name  t10_2014  t10_2015  t10_2016  t10_2017  \
          0                 Boston University    2219.0    2296.0    2421.0    2580.0
          1  Case Western Reserve University    1516.0    1551.0    1572.0    1594.0
          2                   Duke University    3823.0    3910.0    3747.0    3828.0
          3           Northwestern University    3313.0    3412.0    3524.0    3682.0
          4             Vanderbilt University    2301.0    2355.0    2516.0    2516.0

             t10_2018  Top10_Total
          0    2564.0      12080.0
          1    1513.0       7746.0
          2    3875.0      19183.0
          3    3636.0      17567.0
          4    2492.0      12180.0

In [661]: len(Global_top10)

Out[661]: 11

In [636]: UR_pcer_top10

Out[636]:         institution_name  t10_2014  t10_2015  t10_2016  t10_2017  t10_2018
          0  University of Rochester    1404.0    1308.0    1310.0    1309.0    1318.0

In [639]: UR_pcer_top10['Top10_Total']=UR_pcer_top10.sum(axis=1)

In [640]: UR_pcer_top10

Out[640]:         institution_name  t10_2014  t10_2015  t10_2016  t10_2017  t10_2018  \
          0  University of Rochester    1404.0    1308.0    1310.0    1309.0    1318.0

             Top10_Total
          0       6649.0

In [641]: Gall=pd.concat([Global_top10, UR_pcer_top10])

In [660]: len(Gall)

Out[660]: 12

In [647]: import re
```

```
In [658]: abb=[]
          for i in Gall.institution_name:
              abb.append(i.split("\t")[0].strip(" "))
          abb

Out[658]: ['Boston University',
           'Case Western Reserve University',
           'Duke University',
           'Northwestern University',
           'Vanderbilt University',
           'Johns Hopkins University',
           'New York University',
           'Stanford University',
           'Tulane University',
           'University of Chicago',
           'University of Pennsylvania',
           'University of Rochester']

In [682]: Gall['UniAbbr']=['Boston','CWRU','Duke','Northwestern','Vanderbilt','JohnsHopkins','N

In [684]: Gall=Gall.sort_values(by='Top10_Total', ascending=False)
```

33 Comparator analysis: top 10% highly cited publications UR and GlobalPeers

```
In [699]: for index, row in Gall.iterrows():
              print(row.UniAbbr)
              print(int(row.Top10_Total))

Stanford
30140
JohnsHopkins
26670
UofPenn
23969
Duke
19183
UofChicago
18983
NYU
18246
Northwestern
17567
Vanderbilt
12180
Boston
12080
CWRU
```

```
7746
UofR
6649
Tulane
3003
```

In [791]: `sns.set(style="whitegrid")`

```python
# Initialize the matplotlib figure
f, ax = plt.subplots(figsize=(25, 20))
sns.barplot(x=Gall.UniAbbr, y=Gall.Top10_Total, data=Gall)
plt.axhline(6649, ls='-', color='r')

#ax.text(Gall.UniAbbr, Gall.Top10_Total,color='black', ha="center")

# Add a legend and informative axis label
#ax.legend(ncol=12, loc="upper right", frameon=True)
ax.set(xlim=(0, 20),
        xlabel="University of Rochester and Global Peers", ylabel="Top 10% highly cite
sns.despine(left=True, bottom=True)
```
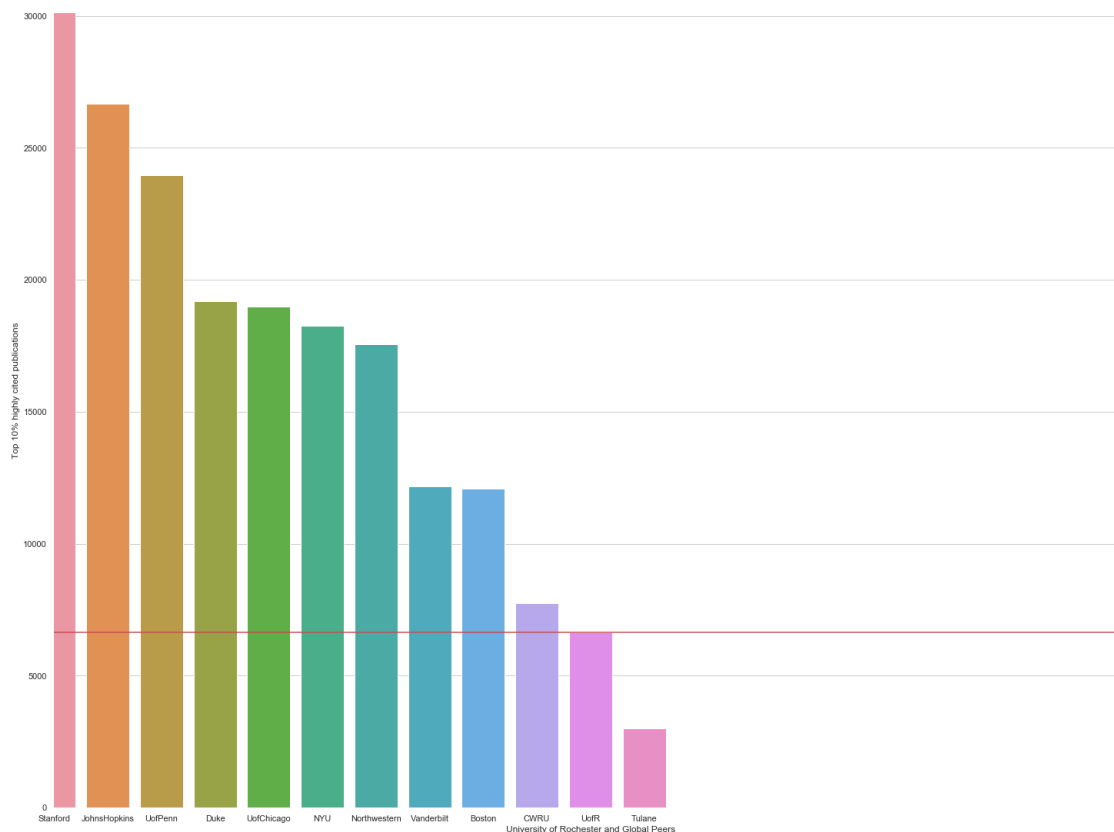
34 Among our other 11 USA peers, our top 10% highly-cited pulbs ranks behind

35 Comparator analysis: Field-weighted Citation Impact

```
In [709]: fwci_data.head()
```

```
Out[709]:          country countryCode  institution_id  \
         0  United Kingdom         GBR          315091
         1   United States         USA          508092
         2   United States         USA          508021
         3  United Kingdom         GBR          315068
         4   United States         USA          508219


                                                    link  \
         0  {'@href': 'https://api.elsevier.com/analytics/...
         1  {'@href': 'https://api.elsevier.com/analytics/...
         2  {'@href': 'https://api.elsevier.com/analytics/...
         3  {'@href': 'https://api.elsevier.com/analytics/...
         4  {'@href': 'https://api.elsevier.com/analytics/...


                                      institution_name  \
         0                          University of Oxford
         1  Jet Propulsion Laboratory, California Institut...
         2            California Institute of Technology
         3                       University of Cambridge
         4                           Stanford University


                          metricType      2014      2015      2016      2017  \
         0  FieldWeightedCitationImpact  2.232452  2.178834  2.202485  1.966025
         1  FieldWeightedCitationImpact  1.611136  1.462793  1.656759  1.470790
         2  FieldWeightedCitationImpact  1.890797  1.740487  1.921985  1.847315
         3  FieldWeightedCitationImpact  1.904510  1.990053  2.050378  1.946377
         4  FieldWeightedCitationImpact  2.445251  2.476393  2.568147  2.269981


              2018
         0  1.804821
         1  1.346227
         2  1.605074
         3  1.763683
         4  2.244260
```

```
In [711]: US_fwci=fwci_data[fwci_data.countryCode=='USA']
```

```
In [712]: US_fwci.head()
```

```
Out[712]:          country countryCode  institution_id  \
         1   United States         USA          508092
```

```
2  United States          USA            508021
4  United States          USA            508219
5  United States          USA            508111
6  United States          USA            508191


                                             link  \
1  {'@href': 'https://api.elsevier.com/analytics/...
2  {'@href': 'https://api.elsevier.com/analytics/...
4  {'@href': 'https://api.elsevier.com/analytics/...
5  {'@href': 'https://api.elsevier.com/analytics/...
6  {'@href': 'https://api.elsevier.com/analytics/...


                               institution_name  \
1  Jet Propulsion Laboratory, California Institut...
2               California Institute of Technology
4                              Stanford University
5          Massachusetts Institute of Technology
6                              Princeton University


                   metricType      2014      2015      2016      2017  \
1  FieldWeightedCitationImpact  1.611136  1.462793  1.656759  1.470790
2  FieldWeightedCitationImpact  1.890797  1.740487  1.921985  1.847315
4  FieldWeightedCitationImpact  2.445251  2.476393  2.568147  2.269981
5  FieldWeightedCitationImpact  2.271606  2.301666  2.355942  2.132760
6  FieldWeightedCitationImpact  2.111493  2.144071  2.101741  1.906495


       2018
1  1.346227
2  1.605074
4  2.244260
5  1.971292
6  1.919808

In [713]: UR_peer_df

Out[713]:                       UR_Peer
        0                Boston University
        1       Carnegie Mellon University
        2   Case Western Reserve University
        3                  Duke University
        4                 Emory University
        5          Northwestern University
        6             Vanderbilt University
        7            Washington University
        8          Johns Hopkins University
        9             New York University
        10             Stanford University
        11               Tulane University
```

```
                12             University of Chicago
                13         University of Pennsylvania
                14  University of Southern California
```

In [715]: `len(Gall.institution_name)` *# Global peers and UofR*

Out[715]: 12

In [759]:
```python
chuck=[]

for name in Gall.institution_name:
    if US_fwci[US_fwci.institution_name==name] is not None:
        chuck.append(US_fwci[US_fwci.institution_name==name])
```

In [760]: `UR_Peer_FWCI=pd.concat(chuck, ignore_index=True)`

In [761]: `UR_Peer_FWCI`

Out[761]:
```
            country  countryCode  institution_id  \
0     United States          USA          508219
1     United States          USA          508094
2     United States          USA          508331
3     United States          USA          508053
4     United States          USA          508270
5     United States          USA          508166
6     United States          USA          508166
7     United States          USA          508175
8     United States          USA          508175
9     United States          USA          508363
10    United States          USA          508013
11    United States          USA          508032
12    United States          USA          508335
13    United States          USA          508239

                                                 link  \
0    {'@href': 'https://api.elsevier.com/analytics/...
1    {'@href': 'https://api.elsevier.com/analytics/...
2    {'@href': 'https://api.elsevier.com/analytics/...
3    {'@href': 'https://api.elsevier.com/analytics/...
4    {'@href': 'https://api.elsevier.com/analytics/...
5    {'@href': 'https://api.elsevier.com/analytics/...
6    {'@href': 'https://api.elsevier.com/analytics/...
7    {'@href': 'https://api.elsevier.com/analytics/...
8    {'@href': 'https://api.elsevier.com/analytics/...
9    {'@href': 'https://api.elsevier.com/analytics/...
10   {'@href': 'https://api.elsevier.com/analytics/...
11   {'@href': 'https://api.elsevier.com/analytics/...
12   {'@href': 'https://api.elsevier.com/analytics/...
13   {'@href': 'https://api.elsevier.com/analytics/...
```

```
                     institution_name                    metricType      2014  \
0                  Stanford University  FieldWeightedCitationImpact  2.445251
1             Johns Hopkins University  FieldWeightedCitationImpact  2.039671
2          University of Pennsylvania  FieldWeightedCitationImpact  2.049064
3                     Duke University  FieldWeightedCitationImpact  2.060966
4               University of Chicago  FieldWeightedCitationImpact  1.899739
5                   New York University  FieldWeightedCitationImpact  2.036910
6                   New York University  FieldWeightedCitationImpact  2.036910
7              Northwestern University  FieldWeightedCitationImpact  1.814437
8              Northwestern University  FieldWeightedCitationImpact  1.814437
9               Vanderbilt University  FieldWeightedCitationImpact  1.935092
10                   Boston University  FieldWeightedCitationImpact  2.102325
11     Case Western Reserve University  FieldWeightedCitationImpact  1.785904
12             University of Rochester  FieldWeightedCitationImpact  1.827581
13                   Tulane University  FieldWeightedCitationImpact  1.272190

        2015      2016      2017      2018
0   2.476393  2.568147  2.269981  2.244260
1   2.063183  2.086808  1.941970  1.903996
2   2.078196  2.042546  1.896038  1.865539
3   2.188656  1.971610  1.903780  1.848280
4   1.866923  2.041074  1.860755  1.800015
5   2.071903  1.961854  1.787898  1.819667
6   2.071903  1.961854  1.787898  1.819667
7   2.036129  2.104611  2.028618  1.968102
8   2.036129  2.104611  2.028618  1.968102
9   2.053712  1.799374  1.751226  1.698510
10  2.017788  2.082099  1.699757  1.916557
11  1.952037  1.955858  1.773011  1.861512
12  2.117681  1.646356  1.700714  1.717541
13  1.784176  1.650411  1.381838  1.569006
```

In [719]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI"

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\FNCI

In [720]: UR_Peer_FWCI.to_csv('UR_Global_Peer_FWCI_Comparison.csv', index=False)

In [762]: UR_Peer_FWCI=UR_Peer_FWCI.iloc[:, -7:]

In [763]: UR_Peer_FWCI

```
Out[763]:                institution_name                    metricType      2014  \
0            Stanford University  FieldWeightedCitationImpact  2.445251
1       Johns Hopkins University  FieldWeightedCitationImpact  2.039671
2    University of Pennsylvania  FieldWeightedCitationImpact  2.049064
3               Duke University  FieldWeightedCitationImpact  2.060966
```

```
4              University of Chicago  FieldWeightedCitationImpact  1.899739
5                New York University  FieldWeightedCitationImpact  2.036910
6                New York University  FieldWeightedCitationImpact  2.036910
7             Northwestern University  FieldWeightedCitationImpact  1.814437
8             Northwestern University  FieldWeightedCitationImpact  1.814437
9               Vanderbilt University  FieldWeightedCitationImpact  1.935092
10                 Boston University  FieldWeightedCitationImpact  2.102325
11  Case Western Reserve University  FieldWeightedCitationImpact  1.785904
12           University of Rochester  FieldWeightedCitationImpact  1.827581
13                 Tulane University  FieldWeightedCitationImpact  1.272190


         2015      2016      2017      2018
0    2.476393  2.568147  2.269981  2.244260
1    2.063183  2.086808  1.941970  1.903996
2    2.078196  2.042546  1.896038  1.865539
3    2.188656  1.971610  1.903780  1.848280
4    1.866923  2.041074  1.860755  1.800015
5    2.071903  1.961854  1.787898  1.819667
6    2.071903  1.961854  1.787898  1.819667
7    2.036129  2.104611  2.028618  1.968102
8    2.036129  2.104611  2.028618  1.968102
9    2.053712  1.799374  1.751226  1.698510
10   2.017788  2.082099  1.699757  1.916557
11   1.952037  1.955858  1.773011  1.861512
12   2.117681  1.646356  1.700714  1.717541
13   1.784176  1.650411  1.381838  1.569006
```

In [741]: Gall.UniAbbr

Out[741]: 7   Stanford
          5   JohnsHopkins
          10   UofPenn
          2   Duke
          9   UofChicago
          6   NYU
          3   Northwestern
          4   Vanderbilt
          0   Boston
          1   CWRU
          0   UofR
          8   Tulane
          Name: UniAbbr, dtype: object

In [771]: abb=[]
          for name in Gall.UniAbbr:
              abb.append(name)
          abb

Out[771]: ['Stanford',
           'JohnsHopkins',

```
               'UofPenn',
               'Duke',
               'UofChicago',
               'NYU',
               'Northwestern',
               'Vanderbilt',
               'Boston',
               'CWRU',
               'UofR',
               'Tulane']

In [764]: UR_Peer_FWCI=UR_Peer_FWCI.drop_duplicates()

In [765]: UR_Peer_FWCI.reset_index(inplace=True, drop=True)

In [774]: UR_Peer_FWCI.loc[:]['UniAbbr']=abb

In [775]: UR_Peer_FWCI.head()

Out[775]:              institution_name                    metricType      2014  \
          0         Stanford University  FieldWeightedCitationImpact  2.445251
          1     Johns Hopkins University  FieldWeightedCitationImpact  2.039671
          2  University of Pennsylvania  FieldWeightedCitationImpact  2.049064
          3             Duke University  FieldWeightedCitationImpact  2.060966
          4       University of Chicago  FieldWeightedCitationImpact  1.899739

                 2015      2016      2017      2018      UniAbbr
          0  2.476393  2.568147  2.269981  2.244260     Stanford
          1  2.063183  2.086808  1.941970  1.903996   JohnsHopkins
          2  2.078196  2.042546  1.896038  1.865539      UofPenn
          3  2.188656  1.971610  1.903780  1.848280         Duke
          4  1.866923  2.041074  1.860755  1.800015   UofChicago

In [777]: UR_Peer_FWCI.loc[:]['AVERAGE_FWCI']=round(UR_Peer_FWCI[['2014','2015','2016','2017',

In [778]: UR_Peer_FWCI=UR_Peer_FWCI.sort_values(by='AVERAGE_FWCI', ascending=False)

In [779]: UR_Peer_FWCI.head()

Out[779]:              institution_name                    metricType      2014  \
          0         Stanford University  FieldWeightedCitationImpact  2.445251
          1     Johns Hopkins University  FieldWeightedCitationImpact  2.039671
          3             Duke University  FieldWeightedCitationImpact  2.060966
          6     Northwestern University  FieldWeightedCitationImpact  1.814437
          2  University of Pennsylvania  FieldWeightedCitationImpact  2.049064

                 2015      2016      2017      2018      UniAbbr  AVERAGE_FWCI
          0  2.476393  2.568147  2.269981  2.244260     Stanford        2.4008
          1  2.063183  2.086808  1.941970  1.903996   JohnsHopkins       2.0071
          3  2.188656  1.971610  1.903780  1.848280         Duke        1.9947
          6  2.036129  2.104611  2.028618  1.968102  Northwestern       1.9904
          2  2.078196  2.042546  1.896038  1.865539      UofPenn        1.9863
```

```
In [785]: UR_Peer_FWCI[UR_Peer_FWCI.UniAbbr=='UofR']
```

```
Out[785]:               institution_name               metricType      2014      2015  \
          10   University of Rochester  FieldWeightedCitationImpact  1.827581  2.117681


                2016      2017      2018 UniAbbr  AVERAGE_FWCI
          10  1.646356  1.700714  1.717541    UofR         1.802
```

36   Comparatory analysis: Field-weighted Citation Impact

```
In [790]: sns.set(style="whitegrid")

          # Initialize the matplotlib figure
          f, ax = plt.subplots(figsize=(25, 20))
          sns.barplot(x=UR_Peer_FWCI.UniAbbr, y=UR_Peer_FWCI.AVERAGE_FWCI, data=UR_Peer_FWCI)
          plt.axhline(1.802, ls='-', color='r')

          #ax.text(Gall.UniAbbr, Gall.Top10_Total,color='black', ha="center")

          # Add a legend and informative axis label
          #ax.legend(ncol=12, loc="upper right", frameon=True)
          plt.yticks(np.arange(0, 2.5, step=0.2))
          ax.set(xlim=(0, 25),
                 xlabel="University of Rochester and Global Peers", ylabel="Field-weighted Cita
          sns.despine(left=True, bottom=True)
```
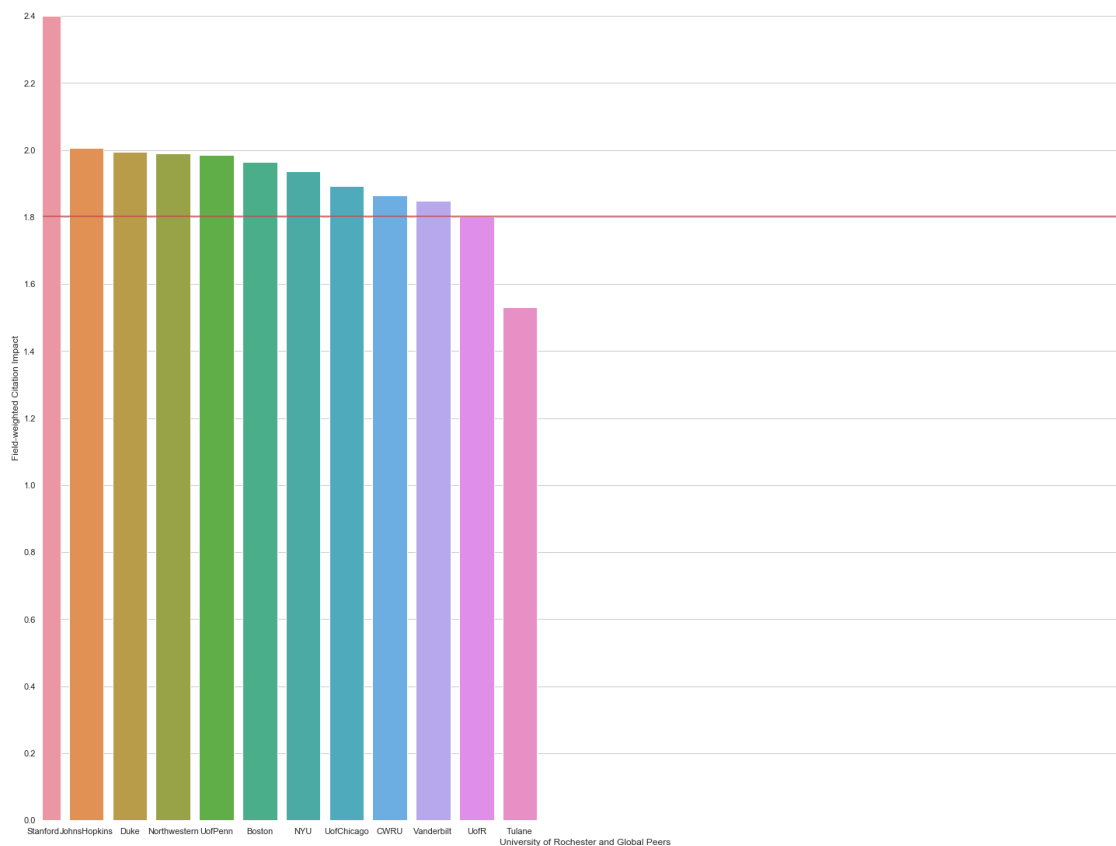
37 Our average FWCI 2014-2018 is 1.8, but most of our USA peers have higher FWCI, this may be the reason our overall score did not reflect our good FWCI

38 Comparatory analysis: research performance profile

```
In [793]: UR_Peer_FWCI.institution_name
```

```
Out[793]: 0                  Stanford University
          1            Johns Hopkins University
          3                      Duke University
          6              Northwestern University
          2           University of Pennsylvania
          8                    Boston University
          5                  New York University
          4                University of Chicago
          9       Case Western Reserve University
          7                 Vanderbilt University
```

```
         10            University of Rochester
         11               Tulane University
         Name: institution_name, dtype: object

In [794]: so_data_USA.head()

Out[794]:                          institution_name    2014   2015   2016  \
         0  Jet Propulsion Laboratory, California Institut...   1913   1800   2181
         1            California Institute of Technology   4518   4347   4553
         2                       Stanford University  12801  13656  13664
         3            Massachusetts Institute of Technology   9645   9957  10023
         4                       Princeton University   4335   4629   4544

            2017   2018  Total
         0   2052   2200  10146
         1   4567   4884  22869
         2  14233  14729  69083
         3  10191  10458  50274
         4   4635   4891  23034

In [800]: chuck=[]

         for name in UR_Peer_FWCI.institution_name:
             chuck.append(so_data_USA[so_data_USA.institution_name==name])

In [801]: Ttl_publs_output=pd.concat(chuck, ignore_index=True)

In [883]: A=Ttl_publs_output[['institution_name','Total']]

In [807]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited


In [808]: ALL_PP=pd.read_csv("THEUNI_CITEDPUBLS.csv")

In [809]: ALL_PP.head()

Out[809]:          country countryCode  institution_id  \
         0  United Kingdom         GBR          315091
         1   United States         USA          508092
         2   United States         USA          508021
         3  United Kingdom         GBR          315068
         4   United States         USA          508219

                                           link  \
         0  {'@href': 'https://api.elsevier.com/analytics/...
         1  {'@href': 'https://api.elsevier.com/analytics/...
         2  {'@href': 'https://api.elsevier.com/analytics/...
```

```
        3  {'@href': 'https://api.elsevier.com/analytics/...
        4  {'@href': 'https://api.elsevier.com/analytics/...


                                      institution_name        metricType  \
        0                          University of Oxford  CitedPublications
        1  Jet Propulsion Laboratory, California Institut...  CitedPublications
        2                California Institute of Technology  CitedPublications
        3                      University of Cambridge  CitedPublications
        4                          Stanford University  CitedPublications


              2014     2015     2016     2017     2018  percent2014  percent2015  \
        0  10893.0  11679.0  11798.0  11474.0  10570.0    86.555420     85.53537
        1   1514.0   1451.0   1722.0   1588.0   1406.0    79.142710     80.61111
        2   3879.0   3770.0   3914.0   3779.0   3487.0    85.856575     86.72648
        3   9116.0   9238.0   9558.0   9125.0   8418.0    88.060280     86.17537
        4  11156.0  11846.0  11699.0  11642.0  10731.0    87.149445     86.74575


           percent2016  percent2017  percent2018
        0    84.115210     78.56213     70.69761
        1    78.954605     77.38792     63.90909
        2    85.965300     82.74578     71.39640
        3    84.330330     79.49991     71.42372
        4    85.619150     81.79583     72.85627
```

In [810]: US_PP=ALL_PP[ALL_PP.countryCode=='USA']

In [811]: chuck=[]

        for name in UR_Peer_FWCI.institution_name:
            chuck.append(US_PP[US_PP.institution_name==name])

In [812]: UR_Peer_PP=pd.concat(chuck, ignore_index=True)

In [815]: UR_Peer_PP=UR_Peer_PP[['institution_name','percent2014','percent2015','percent2016',

In [818]: UR_Peer_PP=UR_Peer_PP.drop_duplicates()

In [819]: UR_Peer_PP.shape[0]

Out[819]: 12

In [821]: UR_Peer_PP.loc[:]['UniAbbr']=abb

In [824]: UR_Peer_PP.loc[:]['Mean_%PubCited']=UR_Peer_PP.iloc[:,1:5].mean(axis=1)

In [825]: UR_Peer_PP

Out[825]:
```
                     institution_name  percent2014  percent2015  percent2016  \
        0         Stanford University    87.149445    86.745750    85.619150
        1   Johns Hopkins University    89.002870    87.677800    86.510290
```

```
    2                  Duke University    88.075410    86.854250    85.007920
    3          Northwestern University    86.777405    86.313380    85.312300
    5      University of Pennsylvania    87.413540    85.737160    83.930275
    6                Boston University    86.645850    87.164610    84.995610
    7              New York University    85.079050    83.887920    81.683710
    9            University of Chicago    84.766730    82.955670    83.135560
   10  Case Western Reserve University    84.712010    83.535610    83.017590
   11            Vanderbilt University    88.025280    87.215770    85.106384
   12          University of Rochester    83.592450    83.022600    83.044090
   13                Tulane University    82.566730    83.222595    83.673470

        percent2017  percent2018        UniAbbr  Mean_%PubCited
    0     81.795830    72.856270       Stanford       85.327544
    1     82.894350    73.282555    JohnsHopkins       86.521328
    2     81.594154    71.465890         UofPenn       85.382933
    3     82.407074    71.779500            Duke       85.202540
    5     80.257805    69.561550       UofChicago       84.334695
    6     80.863884    71.050520             NYU       84.917488
    7     77.177086    66.417710    Northwestern       81.956941
    9     78.535040    71.705900       Vanderbilt       82.348250
   10     77.285620    67.933495          Boston       82.137707
   11     78.452440    68.441520            CWRU       84.699968
   12     76.912490    68.948460            UofR       81.642907
   13     77.565506    65.554360          Tulane       81.757075
```

In [826]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PercPublsCited

In [828]: UR_Peer_PP=UR_Peer_PP.sort_values(by='Mean_%PubCited', ascending=False)

In [830]: UR_Peer_PP.reset_index(inplace=True, drop=True)

In [882]: C=UR_Peer_PP[['institution_name','Mean_%PubCited']]

In [832]: UR_Peer_PP.to_csv("UofR_Global_Peers_Cited_Publs.csv", index=False)

In [836]: # Top 1 % cited

In [840]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PubTopJournall

C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\PubTopJournalPercentile

In [841]: Top1All=pd.read_csv("THE_ALLUNI_PP.csv")

In [843]: Top1All.columns

```
Out[843]: Index(['country', 'countryCode', 'institution_id', 'link', 'institution_name',
                'metricType', 't1_2014', 't1_2015', 't1_2016', 't1_2017', 't1_2018',
                't1_percent2014', 't1_percent2015', 't1_percent2016', 't1_percent2017',
                't1_percent2018', 't5_2014', 't5_2015', 't5_2016', 't5_2017', 't5_2018',
                't5_percent2014', 't5_percent2015', 't5_percent2016', 't5_percent2017',
                't5_percent2018', 't10_2014', 't10_2015', 't10_2016', 't10_2017',
                't10_2018', 't10_percent2014', 't10_percent2015', 't10_percent2016',
                't10_percent2017', 't10_percent2018', 't25_2014', 't25_2015',
                't25_2016', 't25_2017', 't25_2018', 't25_percent2014',
                't25_percent2015', 't25_percent2016', 't25_percent2017',
                't25_percent2018'],
              dtype='object')

In [846]: Top1=Top1All[['institution_name','t1_percent2014','t1_percent2015','t1_percent2016',

In [849]: Top1=Top1.drop_duplicates()

In [854]: Top1['Total_Top1']=Top1[['institution_name','t1_percent2014','t1_percent2015','t1_per

In [855]: Top1.head()

Out[855]:                                          institution_name  t1_percent2014  \
          0                           University of Oxford        6.250000
          1  Jet Propulsion Laboratory, California Institut...        4.939920
          4              California Institute of Technology        7.905651
          5                       University of Cambridge        7.298050
          6                          Stanford University        8.733065

             t1_percent2015  t1_percent2016  t1_percent2017  t1_percent2018  Total_Top1
          0        7.244391        7.178117        6.104996        6.456400    6.646781
          1        5.694445        4.605993        3.953229        6.402915    5.119300
          4        6.580714        6.523930        6.254635        6.737181    6.800422
          5        7.159152        7.903886        7.334815        6.474752    7.234131
          6        8.676345        9.068627        8.334686        7.886435    8.539832

In [856]: chuck=[]

          for name in UR_Peer_FWCI.institution_name:
              chuck.append(Top1[Top1.institution_name==name])

In [857]: UR_PEER_Top1=pd.concat(chuck, ignore_index=True)

In [862]: UR_PEER_Top1=UR_PEER_Top1.sort_values(by='Total_Top1', ascending=False)

In [876]: UR_PEER_Top1.reset_index(inplace=True, drop=True)

In [881]: D=UR_PEER_Top1[['institution_name','Total_Top1']] # top1%

In [865]: # top 10%

          Top10=Top1All[['institution_name','t10_percent2014','t10_percent2015','t10_percent20
```

```
In [866]: Top10=Top10.drop_duplicates()

In [867]: Top10['Total_Top10']=Top10[['institution_name','t10_percent2014','t10_percent2015','t

In [868]: Top10.head()

Out[868]:                                       institution_name  t10_percent2014  \
          0                          University of Oxford         48.004738
          1  Jet Propulsion Laboratory, California Institut...       30.373833
          4             California Institute of Technology         44.297565
          5                       University of Cambridge        48.022285
          6                          Stanford University         50.878800

             t10_percent2015  t10_percent2016  t10_percent2017  t10_percent2018  \
          0         49.169380        47.268753        47.715576        46.048240
          1         33.541668        38.512764        38.251670        35.346176
          4         42.412033        51.662468        47.119900        45.228786
          5         49.646930        50.010223        49.757526        47.258140
          6         51.818962        50.490196        50.584324        48.526580

             Total_Top10
          0    47.641337
          1    35.205222
          4    46.144150
          5    48.939021
          6    50.459772

In [869]: chuck=[]

          for name in UR_Peer_FWCI.institution_name:
              chuck.append(Top10[Top10.institution_name==name])

In [870]: UR_PEER_Top10=pd.concat(chuck, ignore_index=True)

In [873]: UR_PEER_Top10=UR_PEER_Top10.sort_values(by='Total_Top10', ascending=False)

In [874]: UR_PEER_Top10.reset_index(inplace=True, drop=True)

In [880]: E=UR_PEER_Top10[['institution_name','Total_Top10']]

In [889]: A=A.drop_duplicates()

In [895]: part1=A.join(C.set_index('institution_name'), on='institution_name')

In [896]: part2=part1.join(D.set_index('institution_name'), on='institution_name')

In [897]: part3=part2.join(E.set_index('institution_name'), on='institution_name')

In [898]: part3
```

```
Out[898]:                    institution_name  Total  Mean_%PubCited  Total_Top1  \
         0                Stanford University  69083       85.327544    8.539832
         1          Johns Hopkins University  66009       86.521328    5.689941
         2                   Duke University  45111       85.382933    6.461731
         3           Northwestern University  40315       85.202540    7.651071
         5         University of Pennsylvania  58573       84.334695    6.827791
         6                   Boston University  28873       84.917488    6.607170
         7                New York University  50734       81.956941    5.585733
         9              University of Chicago  44095       82.348250    7.156997
         10  Case Western Reserve University  22234       82.137707    4.582277
         11              Vanderbilt University  31056       84.699968    5.699216
         12            University of Rochester  18132       81.642907    4.659141
         13                 Tulane University   9021       81.757075    4.564512

             Total_Top10
         0     50.459772
         1     43.892943
         2     46.996039
         3     48.214202
         5     45.489412
         6     46.571934
         7     41.123320
         9     49.374273
         10    38.889898
         11    43.224036
         12    41.746732
         13    37.115668

In [901]: B=UR_Peer_FWCI[['institution_name','AVERAGE_FWCI']]

In [903]: part4=part3.join(B.set_index('institution_name'), on='institution_name')

In [904]: part4

Out[904]:                    institution_name  Total  Mean_%PubCited  Total_Top1  \
         0                Stanford University  69083       85.327544    8.539832
         1          Johns Hopkins University  66009       86.521328    5.689941
         2                   Duke University  45111       85.382933    6.461731
         3           Northwestern University  40315       85.202540    7.651071
         5         University of Pennsylvania  58573       84.334695    6.827791
         6                   Boston University  28873       84.917488    6.607170
         7                New York University  50734       81.956941    5.585733
         9              University of Chicago  44095       82.348250    7.156997
         10  Case Western Reserve University  22234       82.137707    4.582277
         11              Vanderbilt University  31056       84.699968    5.699216
         12            University of Rochester  18132       81.642907    4.659141
         13                 Tulane University   9021       81.757075    4.564512

             Total_Top10  AVERAGE_FWCI
```

```
0      50.459772      2.4008
1      43.892943      2.0071
2      46.996039      1.9947
3      48.214202      1.9904
5      45.489412      1.9863
6      46.571934      1.9637
7      41.123320      1.9356
9      49.374273      1.8937
10     38.889898      1.8657
11     43.224036      1.8476
12     41.746732      1.8020
13     37.115668      1.5315
```

```
In [905]: cd "C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\research_perfo
```

```
C:\Users\jchen148\THE Rankings\Report to Jane\OK Files\OUtput Data\research_performance_Profile
```

```
In [906]: part4.to_csv('UR_GloPeers_Research_Performance_Profile.csv', index=False)
```

39 From the distribution plot below, we can see we are above 75% of the other USA Universities in publication 2014-2018

```python
In [427]: import pandas as pd
          fig, ax = plt.subplots(figsize=(12,8))
          x = pd.Series(so_data_USA['Total'], name="USA Universities Publs") # 163 universitie
          ax = sns.distplot(x)

          ax.set_xlabel("USA 163 Universities Publs",fontsize=16)
          ax.set_ylabel("Probability",fontsize=16)
          plt.axvline(18132, color='red') # this is where U of R
          plt.axvline(np.mean(so_data_USA['Total']), color='green') # this is the mean, 175882
          plt.axvline(np.percentile(so_data_USA['Total'], 25.0), color='blue') # Q1
          plt.axvline(np.percentile(so_data_USA['Total'], 75.0), color='orange') # Q3 very clo
          #plt.legend()
          plt.tight_layout()
```
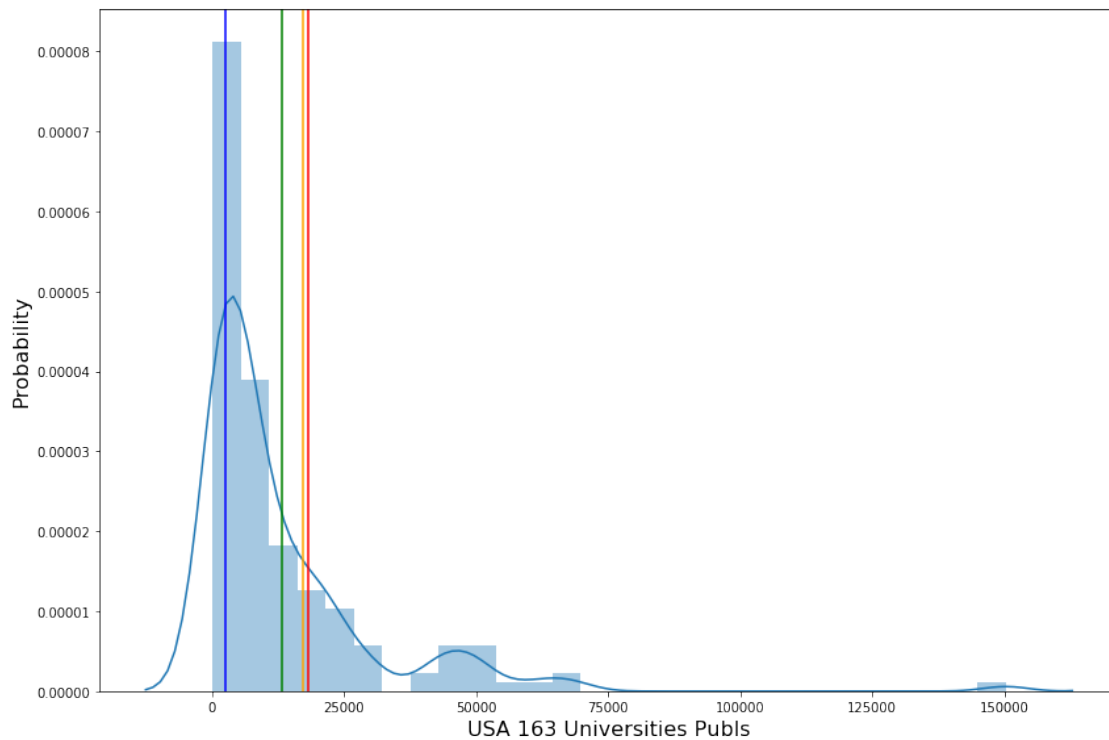
```
In [354]: so_data_USA=so_data_USA.reset_index()

In [355]: URpp=so_data_USA[so_data_USA.institution_name=='University of Rochester']
          URpp

Out[355]:         institution_name  2014  2015  2016  2017  2018
          162  University of Rochester  3602  3540  3515  3633  3842

In [356]: URpp=URpp.set_index('institution_name')

In [368]: URpp.agg('sum')

Out[368]: 2014    3602
          2015    3540
          2016    3515
          2017    3633
          2018    3842
          dtype: int64

In [340]: inputdata=pd.DataFrame(data.iloc[:,:6], columns=['2014','2015','2016','2017','2018'])

In [341]: inputdata.head()

Out[341]:                         2014  2015  2016  2017  2018
          institution_name
          University of Rochester  3602  3540  3515  3633  3842
```

```
In [342]: inputdata.reset_index(drop=True, inplace=True)

In [214]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import import sleep
          sleep(2)

          inst_country=[]
          inst_cc=[]
          inst_id=[]
          inst_link=[]
          inst_name=[]
          metricType=[]
          threshold=[]
          t1_value2014=[]
          t1_value2015=[]
          t1_value2016=[]
          t1_value2017=[]
          t1_value2018=[]
          t1_percentage2014=[]
          t1_percentage2015=[]
          t1_percentage2016=[]
          t1_percentage2017=[]
          t1_percentage2018=[]
          t5_value2014=[]
          t5_value2015=[]
          t5_value2016=[]
          t5_value2017=[]
          t5_value2018=[]
          t5_percentage2014=[]
          t5_percentage2015=[]
          t5_percentage2016=[]
          t5_percentage2017=[]
          t5_percentage2018=[]
          t10_value2014=[]
          t10_value2015=[]
          t10_value2016=[]
          t10_value2017=[]
          t10_value2018=[]
          t10_percentage2014=[]
          t10_percentage2015=[]
          t10_percentage2016=[]
          t10_percentage2017=[]
          t10_percentage2018=[]
          t25_value2014=[]
          t25_value2015=[]
```

```python
t25_value2016=[]
t25_value2017=[]
t25_value2018=[]
t25_percentage2014=[]
t25_percentage2015=[]
t25_percentage2016=[]
t25_percentage2017=[]
t25_percentage2018=[]




for line in data['University id'][50:75]:
    url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Pu
  #   print(url.format(line))
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                            'X-ELS-APIKey': "d3794058e2b24417b5dfd0ef8990e2dc"})
    parsed=json.dumps(resp.json(),
                  sort_keys=True,
                  indent=4, separators=(',', ': '))
#    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
#        json.dump(resp.json(), jsonfile)
#    print(parsed)
#    data.update(a_dict)
    result=json.loads(parsed)
    if 'results' in result:
        if len(result['results'])>=1:
            if 'institution' in result['results'][0]:
#                 if 'country' in result['results'][0]['institution']:
                inst_country.append(result['results'][0]['institution']['country'])
#              if 'countryCode' in result['results'][0]['institution']:
                inst_cc.append(result['results'][0]['institution']['countryCode'])
#              if 'id' in result['results'][0]['institution']:
                inst_id.append(result['results'][0]['institution']['id'])
#              if 'link' in result['results'][0]['institution']:
                inst_link.append(result['results'][0]['institution']['link'])
#              if 'name' in result['results'][0]['institution']:
                inst_name.append(result['results'][0]['institution']['name'])
            if 'metrics' in result['results'][0]:
#              if len(result['results'][0]['metrics'])>=1:
                if 'metricType' in result['results'][0]['metrics'][0]:
                    metricType.append(result['results'][0]['metrics'][0]['metricType
                if 'values' in result['results'][0]['metrics'][0]:
#                   print(result['results'][0]['metrics'][0]['values'][1]['threshol
                    for i in range(0, len(result['results'][0]['metrics'][0]['values
                        threshold.append(result['results'][0]['metrics'][0]['values'
                        if 'valueByYear' in result['results'][0]['metrics'][0]['value
#                         if i ==0:
                            if '2014' in result['results'][0]['metrics'][0]['values']
```

```python
                                t1_value2014.append(result['results'][0]['metrics'][
                            if '2015' in result['results'][0]['metrics'][0]['values']
                                t1_value2015.append(result['results'][0]['metrics'][
                            if '2016' in result['results'][0]['metrics'][0]['values']
                                t1_value2016.append(result['results'][0]['metrics'][
                            if '2017' in result['results'][0]['metrics'][0]['values']
                                t1_value2017.append(result['results'][0]['metrics'][
                            if '2018' in result['results'][0]['metrics'][0]['values']
                                t1_value2018.append(result['results'][0]['metrics'][
#                       if i ==1:
                            if '2014' in result['results'][0]['metrics'][0]['values']
                                t5_value2014.append(result['results'][0]['metrics'][
                            if '2015' in result['results'][0]['metrics'][0]['values']
                                t5_value2015.append(result['results'][0]['metrics'][
                            if '2016' in result['results'][0]['metrics'][0]['values']
                                t5_value2016.append(result['results'][0]['metrics'][
                            if '2017' in result['results'][0]['metrics'][0]['values']
                                t5_value2017.append(result['results'][0]['metrics'][
                            if '2018' in result['results'][0]['metrics'][0]['values']
                                t5_value2018.append(result['results'][0]['metrics'][

#                       if i ==2:
                            if '2014' in result['results'][0]['metrics'][0]['values']
                                t10_value2014.append(result['results'][0]['metrics']
                            if '2015' in result['results'][0]['metrics'][0]['values']
                                t10_value2015.append(result['results'][0]['metrics']
                            if '2016' in result['results'][0]['metrics'][0]['values']
                                t10_value2016.append(result['results'][0]['metrics']
                            if '2017' in result['results'][0]['metrics'][0]['values']
                                t10_value2017.append(result['results'][0]['metrics']
                            if '2018' in result['results'][0]['metrics'][0]['values']
                                t10_value2018.append(result['results'][0]['metrics']

#                       if i ==3:
                            if '2014' in result['results'][0]['metrics'][0]['values']
                                t25_value2014.append(result['results'][0]['metrics']
                            if '2015' in result['results'][0]['metrics'][0]['values']
                                t25_value2015.append(result['results'][0]['metrics']
                            if '2016' in result['results'][0]['metrics'][0]['values']
                                t25_value2016.append(result['results'][0]['metrics']
                            if '2017' in result['results'][0]['metrics'][0]['values']
                                t25_value2017.append(result['results'][0]['metrics']
                            if '2018' in result['results'][0]['metrics'][0]['values']
                                t25_value2018.append(result['results'][0]['metrics']

                        if 'percentageByYear' in result['results'][0]['metrics'][0][
#                       if i ==0:
                            if '2014' in result['results'][0]['metrics'][0]['values']
```

```python
                        t1_percentage2014.append(result['results'][0]['metric
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2015.append(result['results'][0]['metric
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2016.append(result['results'][0]['metric
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2017.append(result['results'][0]['metric
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t1_percentage2018.append(result['results'][0]['metric

#                   if i ==1:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2014.append(result['results'][0]['metric
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2015.append(result['results'][0]['metric
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2016.append(result['results'][0]['metric
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2017.append(result['results'][0]['metric
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t5_percentage2018.append(result['results'][0]['metric

#                   if i ==2:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t10_percentage2018.append(result['results'][0]['metri

#                   if i ==3:
                    if '2014' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2014.append(result['results'][0]['metri
                    if '2015' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2015.append(result['results'][0]['metri
                    if '2016' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2016.append(result['results'][0]['metri
                    if '2017' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2017.append(result['results'][0]['metri
                    if '2018' in result['results'][0]['metrics'][0]['values']
                        t25_percentage2018.append(result['results'][0]['metri
#               else:
#                   t1_value2014.append('')
#                   t1_value2015.append('')
```

```python
#                         t1_value2016.append('')
#                         t1_value2017.append('')
#                         t1_value2018.append('')
#                         t1_percentage2014.append('')
#                         t1_percentage2015.append('')
#                         t1_percentage2016.append('')
#                         t1_percentage2017.append('')
#                         t1_percentage2018.append('')

#                     else:
#                         t1_value2014.append('')
#                         t1_value2015.append('')
#                         t1_value2016.append('')
#                         t1_value2017.append('')
#                         t1_value2018.append('')
#                         t1_percentage2014.append('')
#                         t1_percentage2015.append('')
#                         t1_percentage2016.append('')
#                         t1_percentage2017.append('')
#                         t1_percentage2018.append('')

#                 if 'threshold' in result['results'][0]['metrics'][0]['values']:
#                     threshold.append(result['results'][0]['metrics'][0]['values


s1=pd.Series(inst_country, name='country')
s2=pd.Series(inst_cc, name='countryCode')
s3=pd.Series(inst_id, name='institution_id')
s4=pd.Series(inst_link, name='link')
s5=pd.Series(inst_name, name='institution_name')
s6=pd.Series(metricType, name='metricType')
s7=pd.Series(threshold, name='threshold')
s8=pd.Series(t1_value2014, name='t1_2014')
s9=pd.Series(t1_value2015, name='t1_2015')
s10=pd.Series(t1_value2016, name='t1_2016')
s11=pd.Series(t1_value2017, name='t1_2017')
s12=pd.Series(t1_value2018, name='t1_2018')
s13=pd.Series(t1_percentage2014, name='t1_percent2014')
s14=pd.Series(t1_percentage2015, name='t1_percent2015')
s15=pd.Series(t1_percentage2016, name='t1_percent2016')
s16=pd.Series(t1_percentage2017, name='t1_percent2017')
s17=pd.Series(t1_percentage2018, name='t1_percent2018')
s18=pd.Series(t5_value2014, name='t5_2014')
s19=pd.Series(t5_value2015, name='t5_2015')
s20=pd.Series(t5_value2016, name='t5_2016')
s21=pd.Series(t5_value2017, name='t5_2017')
s22=pd.Series(t5_value2018, name='t5_2018')
s23=pd.Series(t5_percentage2014, name='t5_percent2014')
```

```python
s24=pd.Series(t5_percentage2015, name='t5_percent2015')
s25=pd.Series(t5_percentage2016, name='t5_percent2016')
s26=pd.Series(t5_percentage2017, name='t5_percent2017')
s27=pd.Series(t5_percentage2018, name='t5_percent2018')
s28=pd.Series(t10_value2014, name='t10_2014')
s29=pd.Series(t10_value2015, name='t10_2015')
s30=pd.Series(t10_value2016, name='t10_2016')
s31=pd.Series(t10_value2017, name='t10_2017')
s32=pd.Series(t10_value2018, name='t10_2018')
s33=pd.Series(t10_percentage2014, name='t10_percent2014')
s34=pd.Series(t10_percentage2015, name='t10_percent2015')
s35=pd.Series(t10_percentage2016, name='t10_percent2016')
s36=pd.Series(t10_percentage2017, name='t10_percent2017')
s37=pd.Series(t10_percentage2018, name='t10_percent2018')
s38=pd.Series(t25_value2014, name='t25_2014')
s39=pd.Series(t25_value2015, name='t25_2015')
s40=pd.Series(t25_value2016, name='t25_2016')
s41=pd.Series(t25_value2017, name='t25_2017')
s42=pd.Series(t25_value2018, name='t25_2018')
s43=pd.Series(t25_percentage2014, name='t25_percent2014')
s44=pd.Series(t25_percentage2015, name='t25_percent2015')
s45=pd.Series(t25_percentage2016, name='t25_percent2016')
s46=pd.Series(t25_percentage2017, name='t25_percent2017')
s47=pd.Series(t25_percentage2018, name='t25_percent2018')


DF=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11,s12,s13,s14,s15,s16, s17,s18,s19,s2
              s28,s29,s30,s31,s32,s33,s34,s35,s36,s37,s38,s39,s40, s41,s42,s43,s44,s4


DF.to_csv("THE_UNI_PublicationsInTopJournalPercentiles_ALL_3.csv", index=False)  # 0


#print(threshold)
```

In [ ]:

```python
In [103]: for line in data['University id'][:2]:
              url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=S
          #   print(url.format(line))
              resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                         'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
              parsed=json.dumps(resp.json(),
                      sort_keys=True,
                      indent=4, separators=(',', ': '))
          #    with open("THE_UNI_ID_METRIC_ALL.json", 'w') as jsonfile:
          #        json.dump(resp.json(), jsonfile)
```

```python
#     print(parsed)
#     data.update(a_dict)
        result=json.loads(parsed)
    print(result['results'])
```

[{'institution': {'country': 'United States', 'countryCode': 'USA', 'id': 508092, 'link': {'@h

```python
In [66]: with open("THE_UNI_ID_METRIC_TEST.json") as outputfile:
            out=json.load(outputfile)

In [67]: out
```

Out[67]: {'link': {'@ref': 'self',
    '@href': 'https://api.elsevier.com/analytics/scival/institution/metrics?journalImpa
    '@type': 'application/json'},
  'dataSource': {'sourceName': 'Scopus', 'lastUpdated': '2020-01-01'},
  'results': [{'metrics': [{'metricType': 'ScholarlyOutput',
      'valueByYear': {'2014': 1913,
       '2015': 1800,
       '2016': 2181,
       '2017': 2052,
       '2018': 2200}}],
    'institution': {'link': {'@ref': 'self',
      '@href': 'https://api.elsevier.com/analytics/scival/institution/508092?apiKey=7a
      '@type': 'application/json'},
     'name': 'Jet Propulsion Laboratory, California Institute of Technology',
     'id': 508092,
     'uri': 'Institution/508092',
     'country': 'United States',
     'countryCode': 'USA'}}]}

```python
In [86]: import requests
         import json
         import pandas as pd
         import numpy as np
         from time import sleep
         sleep(2)

         university_name=[]
         university_id=[]
         country=[]
         countryCode=[]
         df=pd.DataFrame()

         for line in want_3[:4]:
         #     query = "name(school)"
             url= """https://api.elsevier.com/metrics/institution/search?query=name({})&start=(
             resp = requests.get(url.format(line), headers={'Accept':'application/json',
```

```python
                                       'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
            parsed=json.dumps(resp.json(),
                              sort_keys=True,
                              indent=4, separators=(',', ': '))
#     print(parsed)
#     data.update(a_dict)
            result=json.loads(parsed)
#     data=parsed[1]
#     print(result)
            data=result['results']
            print(data)
#     if (data[0]['country'] is not None):
```

```
[{'country': 'United Kingdom', 'countryCode': 'GBR', 'id': 315091, 'link': {'@href': 'https://a
[{'country': 'United States', 'countryCode': 'USA', 'id': 508092, 'link': {'@href': 'https://ap
[{'country': 'United Kingdom', 'countryCode': 'GBR', 'id': 315068, 'link': {'@href': 'https://a
[{'country': 'United States', 'countryCode': 'USA', 'id': 508219, 'link': {'@href': 'https://ap
```

```
In [3]: cd "C:\Users\jchen148\THE Rankings\Report to Jane"

C:\Users\jchen148\THE Rankings\Report to Jane
```

```python
In [94]: import requests
         import json
         import pandas as pd
         import numpy as np
         from time import sleep
         sleep(2)

         university_name=[]
         university_id=[]
         country=[]
         countryCode=[]
         df=pd.DataFrame()

         for line in want_3[:10]:
#             query = "name(school)"
             url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&c
             resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                     'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
             parsed=json.dumps(resp.json(),
                               sort_keys=True,
                               indent=4, separators=(',', ': '))
             result=json.loads(parsed)
             data=result['results']
             for i in data:
                 if i is not None:
```

```
                university_name.append(i['name'])
                university_id.append(i['id'])
                country.append(i['country'])
                countryCode.append(i['countryCode'])
                df=pd.DataFrame({'Country':country, 'Code': countryCode, 'Name': universi
                print(df)
```

```
         Country Code                 Name      id
0  United Kingdom  GBR  University of Oxford  315091
         Country Code                                               Name  \
0  United Kingdom  GBR                               University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...

       id
0  315091
1  508092
         Country Code                                               Name  \
0  United Kingdom  GBR                               University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA                   California Institute of Technology

       id
0  315091
1  508092
2  508021
         Country Code                                               Name  \
0  United Kingdom  GBR                               University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA                   California Institute of Technology
3  United Kingdom  GBR                            University of Cambridge

       id
0  315091
1  508092
2  508021
3  315068
         Country Code                                               Name  \
0  United Kingdom  GBR                               University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA                   California Institute of Technology
3  United Kingdom  GBR                            University of Cambridge
4   United States  USA                                Stanford University

       id
0  315091
1  508092
2  508021
3  315068
```

```
4  508219
       Country Code                                              Name  \
0  United Kingdom  GBR                           University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA            California Institute of Technology
3  United Kingdom  GBR                        University of Cambridge
4   United States  USA                           Stanford University
5   United States  USA          Massachusetts Institute of Technology

       id
0  315091
1  508092
2  508021
3  315068
4  508219
5  508111
       Country Code                                              Name  \
0  United Kingdom  GBR                           University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA            California Institute of Technology
3  United Kingdom  GBR                        University of Cambridge
4   United States  USA                           Stanford University
5   United States  USA          Massachusetts Institute of Technology
6   United States  USA                          Princeton University

       id
0  315091
1  508092
2  508021
3  315068
4  508219
5  508111
6  508191
       Country Code                                              Name  \
0  United Kingdom  GBR                           University of Oxford
1   United States  USA  Jet Propulsion Laboratory, California Institut...
2   United States  USA            California Institute of Technology
3  United Kingdom  GBR                        University of Cambridge
4   United States  USA                           Stanford University
5   United States  USA          Massachusetts Institute of Technology
6   United States  USA                          Princeton University
7   United States  USA                            Harvard University

       id
0  315091
1  508092
2  508021
3  315068
```

```
4   508219
5   508111
6   508191
7   508076
          Country Code                                               Name  \
0   United Kingdom  GBR                               University of Oxford
1    United States  USA  Jet Propulsion Laboratory, California Institut...
2    United States  USA                California Institute of Technology
3   United Kingdom  GBR                            University of Cambridge
4    United States  USA                               Stanford University
5    United States  USA          Massachusetts Institute of Technology
6    United States  USA                              Princeton University
7    United States  USA                                Harvard University
8    United States  USA                                   Yale University

       id
0   315091
1   508092
2   508021
3   315068
4   508219
5   508111
6   508191
7   508076
8   508383
          Country Code                                               Name  \
0   United Kingdom  GBR                               University of Oxford
1    United States  USA  Jet Propulsion Laboratory, California Institut...
2    United States  USA                California Institute of Technology
3   United Kingdom  GBR                            University of Cambridge
4    United States  USA                               Stanford University
5    United States  USA          Massachusetts Institute of Technology
6    United States  USA                              Princeton University
7    United States  USA                                Harvard University
8    United States  USA                                   Yale University
9    United States  USA                             University of Chicago

       id
0   315091
1   508092
2   508021
3   315068
4   508219
5   508111
6   508191
7   508076
8   508383
9   508270
```

```
        Country Code                                          Name  \
0    United Kingdom  GBR                          University of Oxford
1     United States  USA  Jet Propulsion Laboratory, California Institut...
2     United States  USA             California Institute of Technology
3    United Kingdom  GBR                       University of Cambridge
4     United States  USA                           Stanford University
5     United States  USA          Massachusetts Institute of Technology
6     United States  USA                          Princeton University
7     United States  USA                            Harvard University
8     United States  USA                               Yale University
9     United States  USA                         University of Chicago
10   United Kingdom  GBR                       Imperial College London

         id
0    315091
1    508092
2    508021
3    315068
4    508219
5    508111
6    508191
7    508076
8    508383
9    508270
10   315018
```

```python
In [97]: import requests
         import json
         import pandas as pd
         import numpy as np
         from time import sleep
         sleep(0.1)

         university_name=[]
         university_id=[]
         country=[]
         countryCode=[]
         df=pd.DataFrame()

         for line in want_3[:10]:
         #    query = "name(school)"
             url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
             resp = requests.get(url.format(line), headers={'Accept':'application/json',
                             'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
             parsed=json.dumps(resp.json(),
                     sort_keys=True,
                     indent=4, separators=(',', ': '))
```

```python
        result=json.loads(parsed)
        data=result['results']
        for i in data:
            if i is not None:
#    if data[0] is not None:
                countries=i['country']
                unames=i['name']
                uids=i['id']
                codes=i['countryCode']
                if (countries is not None):
                    country.append(countries)
                else:
                    country.append("")
                if (unames is not None):
                    university_name.append(unames)
                else:
                    university_name.append("")
                if (uids is not None):
                    university_id.append(uids)
                else:
                    university_id.append("")
                if (codes is not None):
                    countryCode.append(codes)
                else:
                    countryCode.append("")
        df=pd.DataFrame({'University Name':university_name, 'University id':univer
        df.to_csv("THE_CountryCode_Result_1202.csv")


In [98]: import requests
         import json
         import pandas as pd
         import numpy as np
         from time import sleep
         sleep(0.1)

         university_name=[]
         university_id=[]
         country=[]
         countryCode=[]
         df=pd.DataFrame()

         for line in want_3[10:20]:
#    query = "name(school)"
             url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
             resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                 'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
```

112

```python
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
        result=json.loads(parsed)
        data=result['results']
        for i in data:
            if i is not None:
#     if data[0] is not None:
                countries=i['country']
                unames=i['name']
                uids=i['id']
                codes=i['countryCode']
                if (countries is not None):
                    country.append(countries)
                else:
                    country.append("")
                if (unames is not None):
                    university_name.append(unames)
                else:
                    university_name.append("")
                if (uids is not None):
                    university_id.append(uids)
                else:
                    university_id.append("")
                if (codes is not None):
                    countryCode.append(codes)
                else:
                    countryCode.append("")
                df=pd.DataFrame({'University Name':university_name, 'University id':univer
                df.to_csv("THE_CountryCode_Result_1202_2.csv")


In [100]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(0.1)

          university_name=[]
          university_id=[]
          country=[]
          countryCode=[]
          df=pd.DataFrame()

          for line in want_3[20:30]:
#         query = "name(school)"
              url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
```

```python
            resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
            parsed=json.dumps(resp.json(),
                        sort_keys=True,
                        indent=4, separators=(',', ': '))
            result=json.loads(parsed)
            data=result['results']
            for i in data:
                if i is not None:
    #       if data[0] is not None:
                    countries=i['country']
                    unames=i['name']
                    uids=i['id']
                    codes=i['countryCode']
                    if (countries is not None):
                        country.append(countries)
                    else:
                        country.append("")
                    if (unames is not None):
                        university_name.append(unames)
                    else:
                        university_name.append("")
                    if (uids is not None):
                        university_id.append(uids)
                    else:
                        university_id.append("")
                    if (codes is not None):
                        countryCode.append(codes)
                    else:
                        countryCode.append("")
                    df=pd.DataFrame({'University Name':university_name, 'University id':univ
                    df.to_csv("THE_CountryCode_Result_1202_3.csv")


In [ ]: import requests
        import json
        import pandas as pd
        import numpy as np
        from time import sleep
        sleep(0.1)

        university_name=[]
        university_id=[]
        country=[]
        countryCode=[]
        df=pd.DataFrame()

        for line in want_3[20:30]:
```

```
#      query = "name(school)"
     url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&c
     resp = requests.get(url.format(line), headers={'Accept':'application/json',
                             'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
     parsed=json.dumps(resp.json(),
                 sort_keys=True,
                 indent=4, separators=(',', ': '))
     result=json.loads(parsed)
     data=result['results']
     for i in data:
         if i is not None:
#    if data[0] is not None:
             countries=i['country']
             unames=i['name']
             uids=i['id']
             codes=i['countryCode']
             if (countries is not None):
                 country.append(countries)
             else:
                 country.append("")
             if (unames is not None):
                 university_name.append(unames)
             else:
                 university_name.append("")
             if (uids is not None):
                 university_id.append(uids)
             else:
                 university_id.append("")
             if (codes is not None):
                 countryCode.append(codes)
             else:
                 countryCode.append("")
         df=pd.DataFrame({'University Name':university_name, 'University id':univers
         df.to_csv("THE_CountryCode_Result_1202_3.csv")

In [108]: import requests
     import json
     import pandas as pd
     import numpy as np
     from time import sleep
     sleep(0.1)

     university_name=[]
     university_id=[]
     country=[]
     countryCode=[]
     df=pd.DataFrame()
```

```python
for line in want_3[30:40]:
#    query = "name(school)"
    url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
    result=json.loads(parsed)
    data=result['results']
    print(data)
```

```
[{'country': 'Canada', 'countryCode': 'CAN', 'id': 501016, 'link': {'@href': 'https://api.else
[{'country': 'Germany', 'countryCode': 'DEU', 'id': 713505, 'link': {'@href': 'https://api.else
[{'country': 'Germany', 'countryCode': 'DEU', 'id': 309076, 'link': {'@href': 'https://api.else
[{'country': 'Taiwan', 'countryCode': 'TWN', 'id': 708670, 'link': {'@href': 'https://api.else
```

```
            349      if cls is None:
            350          cls = JSONDecoder


        C:\ProgramData\Anaconda3\lib\json\decoder.py in decode(self, s, _w)
            335
            336          """
    --> 337          obj, end = self.raw_decode(s, idx=_w(s, 0).end())
            338          end = _w(s, end).end()
            339          if end != len(s):


        C:\ProgramData\Anaconda3\lib\json\decoder.py in raw_decode(self, s, idx)
            353              obj, end = self.scan_once(s, idx)
            354          except StopIteration as err:
    --> 355              raise JSONDecodeError("Expecting value", s, err.value) from None
            356          return obj, end


        JSONDecodeError: Expecting value: line 1 column 1 (char 0)


In [151]: pwd

Out[151]: 'C:\\Users\\jchen148\\THE Rankings\\Report to Jane'

In [169]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(3)

          university_name=[]
          university_id=[]
          country=[]
          countryCode=[]
          df=pd.DataFrame()

          for line in want_3[75:]:
              line=re.sub('[^A-Za-z0-9]+',' ', line)
          #     query = "name(school)"
              url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
              resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                           'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
          #     try:
              parsed=json.dumps(resp.json(),
                              sort_keys=True,
```

```
                         indent=4, separators=(',', ': '))
        result=json.loads(parsed)
        data=result['results']
#     except ValueError:
#          pass
#           result=json.loads(parsed)
#            data=result['results']
    for i in data:
        if i is None:
            pass
        else:
#                    try:
#     if data[0] is not None:
            countries=i['country']
            unames=i['name']
            uids=i['id']
            codes=i['countryCode']
            if (countries is not None):
                country.append(countries)
            else:
                country.append("")
            if (unames is not None):
                university_name.append(unames)
            else:
                university_name.append("")
            if (uids is not None):
                university_id.append(uids)
            else:
                university_id.append("")
            if (codes is not None):
                countryCode.append(codes)
            else:
                countryCode.append("")
#                  except (RuntimeError, TypeError, NameError,JSONDecodeError):
#                      pass
            df=pd.DataFrame({'University Name':university_name, 'University id':unive
            df.to_csv("THE_CountryCode_Result_1202_12.csv")
#     except ValueError:
#         continue

In [153]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(3)

          university_name=[]
```

```python
university_id=[]
country=[]
countryCode=[]
df=pd.DataFrame()

for line in want_3[47:50]:
#     query = "name(school)"
    url= "https://api.elsevier.com/metrics/institution/search?query=name({})&start=0&
    resp = requests.get(url.format(line), headers={'Accept':'application/json',
                            'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
    try:
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
        result=json.loads(parsed)
        data=result['results']
        for i in data:
            if i is None:
                pass
            else:
                try:
#     if data[0] is not None:
                    countries=i['country']
                    unames=i['name']
                    uids=i['id']
                    codes=i['countryCode']
                    if (countries is not None):
                        country.append(countries)
                    else:
                        country.append("")
                    if (unames is not None):
                        university_name.append(unames)
                    else:
                        university_name.append("")
                    if (uids is not None):
                        university_id.append(uids)
                    else:
                        university_id.append("")
                    if (codes is not None):
                        countryCode.append(codes)
                    else:
                        countryCode.append("")
                except (RuntimeError, TypeError, NameError,JSONDecodeError):
                    pass
                df=pd.DataFrame({'University Name':university_name, 'Universi
                df.to_csv("THE_CountryCode_Result_1202_8.csv")
    except ValueError:
        continue
```

119

```
In [1]: cd "C:\Users\jchen148\THE Rankings\Report to Jane"

C:\Users\jchen148\THE Rankings\Report to Jane


In [126]: for line in want_3[38:40]:
              print(re.sub('[^A-Za-z0-9]+',' ', line))

North Carolina at Chapel Hill
Wageningen University Research


In [133]: for line in want_3[38:40]:
              line=re.sub('[^A-Za-z0-9]+',' ', line)
          #    query = "name(school)"
              url= """https://api.elsevier.com/metrics/institution/search?query=name("{}")&star
          #    resp = requests.get(url.format(line), headers={'Accept':'application/json',
          #                              'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
              print(url.format(line))

https://api.elsevier.com/metrics/institution/search?query=name("North Carolina at Chapel Hill")
https://api.elsevier.com/metrics/institution/search?query=name("Wageningen University Research"


In [135]: pwd

Out[135]: 'C:\\Users\\jchen148\\THE Rankings\\Report to Jane'

In [137]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(3)

          university_name=[]
          university_id=[]
          country=[]
          countryCode=[]
          df=pd.DataFrame()

          for line in want_3[40:50]:
          #    line=re.sub('[^A-Za-z0-9]+',' ', line)
          #    query = "name(school)"
              url= """https://api.elsevier.com/metrics/institution/search?query=name("{}")&star
              resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                  'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
```

```python
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
        result=json.loads(parsed)
        data=result['results']
        for i in data:
            if i is not None:
#     if data[0] is not None:
                countries=i['country']
                unames=i['name']
                uids=i['id']
                codes=i['countryCode']
                if (countries is not None):
                    country.append(countries)
                else:
                    country.append("")
                if (unames is not None):
                    university_name.append(unames)
                else:
                    university_name.append("")
                if (uids is not None):
                    university_id.append(uids)
                else:
                    university_id.append("")
                if (codes is not None):
                    countryCode.append(codes)
                else:
                    countryCode.append("")
                df=pd.DataFrame({'University Name':university_name, 'University id':unive
                df.to_csv("THE_CountryCode_Result_1202_6.csv")


In [117]: import requests
        import json
        import pandas as pd
        import numpy as np
        from time import sleep
        sleep(3)

        university_name=[]
        university_id=[]
        country=[]
        countryCode=[]
        df=pd.DataFrame()

        #for line in want_3[40:50]:
        #    line=re.sub('[^A-Za-z0-9]+',' ', line)
```

```python
#       query = "name(school)"
#name="University of Rochester"
url= """https://api.elsevier.com/metrics/institution/search?query=name(University%20
resp = requests.get(url, headers={'Accept':'application/json',
                                  'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
parsed=json.dumps(resp.json(),
                  sort_keys=True,
                  indent=4, separators=(',', ': '))
result=json.loads(parsed)
data=result['results']
#print(data)
for i in data:
    if i is not None:
#     if data[0] is not None:
        countries=i['country']
        unames=i['name']
        uids=i['id']
        codes=i['countryCode']
        if (countries is not None):
            country.append(countries)
        else:
            country.append("")
        if (unames is not None):
            university_name.append(unames)
        else:
            university_name.append("")
        if (uids is not None):
            university_id.append(uids)
        else:
            university_id.append("")
        if (codes is not None):
            countryCode.append(codes)
        else:
            countryCode.append("")
        df=pd.DataFrame({'University Name':university_name, 'University id':universit
        df.to_csv("THE_CountryCode_Result_1202_13.csv")

In [110]: import requests
import json
import pandas as pd
import numpy as np
from time import sleep
sleep(3)

university_name=[]
university_id=[]
country=[]
countryCode=[]
```

```python
        df=pd.DataFrame()

        #for line in want_3[40:50]:
        #    line=re.sub('[^A-Za-z0-9]+',' ', line)
        #    query = "name(school)"
        name="University of Rochester"
        url= """https://api.elsevier.com/metrics/institution/search?query=name("{}")&start=0&
        resp = requests.get(url.format(name), headers={'Accept':'application/json',
                                    'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
        result=json.loads(parsed)
        data=result['results']
        for i in data:
            if i is not None:
        #    if data[0] is not None:
                countries=i['country']
                unames=i['name']
                uids=i['id']
                codes=i['countryCode']
                if (countries is not None):
                    country.append(countries)
                else:
                    country.append("")
                if (unames is not None):
                    university_name.append(unames)
                else:
                    university_name.append("")
                if (uids is not None):
                    university_id.append(uids)
                else:
                    university_id.append("")
                if (codes is not None):
                    countryCode.append(codes)
                else:
                    countryCode.append("")
                df=pd.DataFrame({'University Name':university_name, 'University id':universit
                df.to_csv("THE_CountryCode_Result_1202_13.csv")


In [28]: import requests
        import json
        import pandas as pd
        import numpy as np
        from time import sleep
        sleep(2)
```

```python
            university_name=[]
            university_id=[]
            country=[]
            countryCode=[]

            for line in want_3:
            #    query = "name(school)"
                url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&count=2
                resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                        'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
                parsed=json.dumps(resp.json(),
                            sort_keys=True,
                            indent=4, separators=(',', ': '))
                print(parsed)
```

```
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
```

```
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
```

```
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
```

```json
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?name(Harvard Uni
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
```

```
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
```

```json
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
```

```json
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
                "@ref": "self",
                "@type": "application/json"
```

```
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
```

```json
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&name(U
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
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        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
```

```
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?name(Abdulaziz U
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
```

```
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
```

```
                    "uri": "Institution/508076"
                }
            ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?name(Lincoln Uni
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
```

```
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&name(Ma
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
```

```json
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
```

```
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
}
{
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "country": "United States",
            "countryCode": "USA",
            "id": 508076,
            "link": {
                "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                "@ref": "self",
                "@type": "application/json"
            },
            "name": "Harvard University",
            "uri": "Institution/508076"
        }
    ]
```

```
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
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                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
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            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
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                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&name(Na
            "@ref": "self",
            "@type": "application/json"
```

```
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
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                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
                    "link": {
                        "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                        "@ref": "self",
                        "@type": "application/json"
                    },
                    "name": "Harvard University",
                    "uri": "Institution/508076"
                }
            ]
        }
        {
            "link": {
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                "@ref": "self",
                "@type": "application/json"
            },
            "results": [
                {
                    "country": "United States",
                    "countryCode": "USA",
                    "id": 508076,
```

```
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&name(Ne
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
    {
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            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
```

```
                    "uri": "Institution/508076"
                }
            ]
        }
    }
    {
        "link": {
            "@href": "https://api.elsevier.com/analytics/scival/institution/search?cursor=*&apiKey=
            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
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                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
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            "@ref": "self",
            "@type": "application/json"
        },
        "results": [
            {
                "country": "United States",
                "countryCode": "USA",
                "id": 508076,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/508076?apiKey=
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "Harvard University",
                "uri": "Institution/508076"
            }
        ]
    }
```

```
    --------------------------------------------------------------------------------

    TypeError                                 Traceback (most recent call last)

    C:\ProgramData\Anaconda3\lib\site-packages\urllib3\connectionpool.py in _make_request(
    376                 try:  # Python 2.7, use buffering of HTTP responses
--> 377                     httplib_response = conn.getresponse(buffering=True)
    378                 except TypeError:  # Python 3


    TypeError: getresponse() got an unexpected keyword argument 'buffering'


During handling of the above exception, another exception occurred:


    KeyboardInterrupt                         Traceback (most recent call last)

    <ipython-input-28-5a502f313dee> in <module>
    15      url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&cou
    16      resp = requests.get(url.format(line), headers={'Accept':'application/json',
---> 17                            'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
    18      parsed=json.dumps(resp.json(),
    19                  sort_keys=True,


    C:\ProgramData\Anaconda3\lib\site-packages\requests\api.py in get(url, params, **kwarg
    73
    74      kwargs.setdefault('allow_redirects', True)
---> 75      return request('get', url, params=params, **kwargs)
    76
    77


    C:\ProgramData\Anaconda3\lib\site-packages\requests\api.py in request(method, url, **k
    58      # cases, and look like a memory leak in others.
    59      with sessions.Session() as session:
---> 60          return session.request(method=method, url=url, **kwargs)
    61
    62


    C:\ProgramData\Anaconda3\lib\site-packages\requests\sessions.py in request(self, metho
    531           }
    532           send_kwargs.update(settings)
--> 533           resp = self.send(prep, **send_kwargs)
    534
```

```
    535          return resp


   C:\ProgramData\Anaconda3\lib\site-packages\requests\sessions.py in send(self, request,
    644
    645          # Send the request
--> 646          r = adapter.send(request, **kwargs)
    647
    648          # Total elapsed time of the request (approximately)


   C:\ProgramData\Anaconda3\lib\site-packages\requests\adapters.py in send(self, request,
    447                  decode_content=False,
    448                  retries=self.max_retries,
--> 449                  timeout=timeout
    450              )
    451


   C:\ProgramData\Anaconda3\lib\site-packages\urllib3\connectionpool.py in urlopen(self, r
    598                                  timeout=timeout_obj,
    599                                  body=body, headers=headers,
--> 600                                  chunked=chunked)
    601
    602              # If we're going to release the connection in ``finally:``, then


   C:\ProgramData\Anaconda3\lib\site-packages\urllib3\connectionpool.py in _make_request(s
    378              except TypeError:  # Python 3
    379                  try:
--> 380                      httplib_response = conn.getresponse()
    381                  except Exception as e:
    382                      # Remove the TypeError from the exception chain in Python 3;


   C:\ProgramData\Anaconda3\lib\http\client.py in getresponse(self)
   1319          try:
   1320              try:
-> 1321                  response.begin()
   1322              except ConnectionError:
   1323                  self.close()


   C:\ProgramData\Anaconda3\lib\http\client.py in begin(self)
    294          # read until we get a non-100 response
    295          while True:
--> 296              version, status, reason = self._read_status()
    297              if status != CONTINUE:
```

```
298                    break


C:\ProgramData\Anaconda3\lib\http\client.py in _read_status(self)
255
256     def _read_status(self):
--> 257         line = str(self.fp.readline(_MAXLINE + 1), "iso-8859-1")
258         if len(line) > _MAXLINE:
259             raise LineTooLong("status line")


C:\ProgramData\Anaconda3\lib\socket.py in readinto(self, b)
587         while True:
588             try:
--> 589                 return self._sock.recv_into(b)
590             except timeout:
591                 self._timeout_occurred = True


C:\ProgramData\Anaconda3\lib\site-packages\urllib3\contrib\pyopenssl.py in recv_into(se
295     def recv_into(self, *args, **kwargs):
296         try:
--> 297             return self.connection.recv_into(*args, **kwargs)
298         except OpenSSL.SSL.SysCallError as e:
299             if self.suppress_ragged_eofs and e.args == (-1, 'Unexpected EOF'):


C:\ProgramData\Anaconda3\lib\site-packages\OpenSSL\SSL.py in recv_into(self, buffer, nl
1819            result = _lib.SSL_peek(self._ssl, buf, nbytes)
1820        else:
-> 1821            result = _lib.SSL_read(self._ssl, buf, nbytes)
1822        self._raise_ssl_error(self._ssl, result)
1823


KeyboardInterrupt:


In [11]: cd "C:\Users\jchen148\THE Rankings\Report to Jane"

C:\Users\jchen148\THE Rankings\Report to Jane


In [39]: pd.read_csv(r"C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_120

Out[39]:     Unnamed: 0                                      University Name  \
      0           0                                    University of Oxford
      1           1   Jet Propulsion Laboratory, California Institut...
      2           2                        California Institute of Technology
```

325

```
3          3                          University of Cambridge
4          4                          Stanford University
5          5          Massachusetts Institute of Technology
6          6                         Princeton University
7          7                          Harvard University
8          8                            Yale University
9          9                      University of Chicago
10        10                     Imperial College London

       University id        Country Country Code
0           315091  United Kingdom          GBR
1           508092   United States          USA
2           508021   United States          USA
3           315068  United Kingdom          GBR
4           508219   United States          USA
5           508111   United States          USA
6           508191   United States          USA
7           508076   United States          USA
8           508383   United States          USA
9           508270   United States          USA
10          315018  United Kingdom          GBR
```

40   concatenate all files

```python
In [22]: link =r"C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_{}.

         for i in range(0, 12):
             i+=1
             print(link.format(i))

C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_1.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_2.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_3.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_4.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_5.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_6.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_7.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_8.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_9.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_10.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_11.csv
C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_12.csv


In [71]: for i in range(0, 12):
             i+=1
             name='data{}'
             print(name.format(i))
```

326

```
data1
data2
data3
data4
data5
data6
data7
data8
data9
data10
data11
data12
```

```
In [5]: import pandas as pd

In [118]: filename='THE_CountryCode_Result_1202_{}.csv'
          for i in range(0, 13):
              i+=1
              print(filename.format(i))
```

```
THE_CountryCode_Result_1202_1.csv
THE_CountryCode_Result_1202_2.csv
THE_CountryCode_Result_1202_3.csv
THE_CountryCode_Result_1202_4.csv
THE_CountryCode_Result_1202_5.csv
THE_CountryCode_Result_1202_6.csv
THE_CountryCode_Result_1202_7.csv
THE_CountryCode_Result_1202_8.csv
THE_CountryCode_Result_1202_9.csv
THE_CountryCode_Result_1202_10.csv
THE_CountryCode_Result_1202_11.csv
THE_CountryCode_Result_1202_12.csv
THE_CountryCode_Result_1202_13.csv
```

```
In [4]: chucks=[]

        filename='THE_CountryCode_Result_1202_{}.csv'
        for i in range(0, 13):
            i+=1
            print(filename.format(i))
        #    chucks.append(filename.format(i))
```

```
THE_CountryCode_Result_1202_1.csv
THE_CountryCode_Result_1202_2.csv
THE_CountryCode_Result_1202_3.csv
THE_CountryCode_Result_1202_4.csv
THE_CountryCode_Result_1202_5.csv
```

```
THE_CountryCode_Result_1202_6.csv
THE_CountryCode_Result_1202_7.csv
THE_CountryCode_Result_1202_8.csv
THE_CountryCode_Result_1202_9.csv
THE_CountryCode_Result_1202_10.csv
THE_CountryCode_Result_1202_11.csv
THE_CountryCode_Result_1202_12.csv
THE_CountryCode_Result_1202_13.csv
```

In [5]: **import pandas as pd**

```
filename='THE_CountryCode_Result_1202_{}.csv'

chucks=[]
for i in range(0, 13):
    i+=1
    chucks.append(pd.read_csv(filename.format(i)))

namedata=pd.concat(chucks, ignore_index=True)

namedata.head()
```

Out[5]:   Unnamed: 0   University Name \
        0   0   University of Oxford
        1   1   Jet Propulsion Laboratory, California Institut...
        2   2   California Institute of Technology
        3   3   University of Cambridge
        4   4   Stanford University

           University id   Country Country Code
        0   315091   United Kingdom   GBR
        1   508092   United States   USA
        2   508021   United States   USA
        3   315068   United Kingdom   GBR
        4   508219   United States   USA

In [6]: namedata.reset_index()

```
namedata2=namedata[:]

namedata2.head()

namedata2=namedata.iloc[:,1:] # delete the first column

namedata2.head()
```

Out[6]:   University Name University id \
        0   University of Oxford   315091

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```
1  Jet Propulsion Laboratory, California Institut...         508092
2              California Institute of Technology           508021
3                       University of Cambridge            315068
4                          Stanford University            508219


       Country Country Code
0  United Kingdom          GBR
1   United States          USA
2   United States          USA
3  United Kingdom          GBR
4   United States          USA
```

```python
In [137]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(3)

          university_name=[]
          university_id=[]
          country=[]
          countryCode=[]
          df=pd.DataFrame()

          for line in want_3[40:50]:
          #    line=re.sub('[^A-Za-z0-9]+',' ', line)
          #    query = "name(school)"
              url= """https://api.elsevier.com/metrics/institution/search?query=name("{}")&star
              resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                  'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
              parsed=json.dumps(resp.json(),
                          sort_keys=True,
                          indent=4, separators=(',', ': '))
              result=json.loads(parsed)
              data=result['results']
              for i in data:
                  if i is not None:
          #        if data[0] is not None:
                          countries=i['country']
                          unames=i['name']
                          uids=i['id']
                          codes=i['countryCode']
                          if (countries is not None):
                              country.append(countries)
                          else:
                              country.append("")
                          if (unames is not None):
```

```python
                    university_name.append(unames)
                else:
                    university_name.append("")
                if (uids is not None):
                    university_id.append(uids)
                else:
                    university_id.append("")
                if (codes is not None):
                    countryCode.append(codes)
                else:
                    countryCode.append("")
        df=pd.DataFrame({'University Name':university_name, 'University id':unive
        df.to_csv("THE_CountryCode_Result_1202_6.csv")
```

In [7]: Uidlist=namedata2['University id']
        Uidlist.head()

Out[7]: 0   315091
        1   508092
        2   508021
        3   315068
        4   508219
        Name: University id, dtype: int64

In [8]: import requests
        import requests_oauthlib
        import pandas as pd
        import numpy as np

In [ ]: import time
        time.sleep(2)

        url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citatio

        resp = requests.get(url.format(line), headers={'Accept':'application/json',
                                    'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
        parsed=json.dumps(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '))
        result=json.loads(parsed)

In [9]: len(Uidlist)

Out[9]: 1272

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```
In [125]: import requests
          import requests_oauthlib
          import json
          import pandas as pd
          import numpy as np

          import time
          time.sleep(2)

          country=[]
          countryCode=[]
          Uid=[]
          uname=[]
          uri=[]
          metric=[]
          CitationCount2014=[]
          CitationCount2015=[]
          CitationCount2016=[]
          CitationCount2017=[]
          CitationCount2018=[]

          url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citat

          for uid in Uidlist[1270:]:
          #    print(url.format(uid))
              resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                        'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
              parsed=json.dumps(resp.json(),
                          sort_keys=True,
                          indent=4, separators=(',', ': '))
              result=json.loads(parsed)
          #    print(result)
              if 'results' not in result:
                  pass
              else:
                  if list(result['results']) is None:
                      pass
                  else:
          #         if list(result['results'])[0] is None:
          #             pass
          #         else:
          #         data=result['results']
                      if len(list(result['results']))<1:
                          pass
                      else:
                          if 'institution' not in list(result['results'])[0]:
                              pass
                          else:
```

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```python
            if 'country' in result['results'][0]['institution']:
                country.append(result['results'][0]['institution']['country']
            else:
                country.append("")
            if 'countryCode' in result['results'][0]['institution']:
                countryCode.append(result['results'][0]['institution']['count
            else:
                countryCode.append("")
            if 'id' in result['results'][0]['institution']:
                Uid.append(result['results'][0]['institution']['id'])
            else:
                Uid.append("")
            if 'name' in result['results'][0]['institution']:
                uname.append(result['results'][0]['institution']['name'])
            else:
                uname.append("")
            if 'uri' in result['results'][0]:
                uri.append(result['results'][0]['institution']['uri'])
            else:
                uri.append("")
    if 'metrics' not in result['results'][0]:
        pass
    else:
        if 'metricType' not in result['results'][0]['metrics'][0]:
            pass
        else:
            metric.append(result['results'][0]['metrics'][0]['metricType
            if 'valueByYear' in result['results'][0]['metrics'][0]:
                if '2014' in result['results'][0]['metrics'][0]['valueBy'
                    CitationCount2014.append(result['results'][0]['metri
                else:
                    CitationCount2014.append("")
                if '2015' in result['results'][0]['metrics'][0]['valueBy'
                    CitationCount2015.append(result['results'][0]['metri
                else:
                    CitationCount2015.append("")
                if '2016' in result['results'][0]['metrics'][0]['valueBy'
                    CitationCount2016.append(result['results'][0]['metri
                else:
                    CitationCount2016.append("")
                if '2017' in result['results'][0]['metrics'][0]['valueBy'
                    CitationCount2017.append(result['results'][0]['metri
                else:
                    CitationCount2017.append("")
                if '2018' in result['results'][0]['metrics'][0]['valueBy'
                    CitationCount2018.append(result['results'][0]['metri
                else:
                    CitationCount2018.append("")
```

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```python
            else:
                CitationCount2014.append("")
                CitationCount2015.append("")
                CitationCount2016.append("")
                CitationCount2017.append("")
                CitationCount2018.append("")
#            else:
#                metric.append("")

    s1=pd.Series(country, name='Country')
    s2=pd.Series(countryCode, name='CountryCode')
    s3=pd.Series(Uid, name='Uid')
    s4=pd.Series(uname, name='UniversityName')
    s5=pd.Series(uri, name='uri')
    s6=pd.Series(metric, name='metric')
    s7=pd.Series(CitationCount2014, name='Citation2014')
    s8=pd.Series(CitationCount2015, name='Citation2015')
    s9=pd.Series(CitationCount2016, name='Citation2016')
    s10=pd.Series(CitationCount2017, name='Citation2017')
    s11=pd.Series(CitationCount2018, name='Citation2018')

    Times_df=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11], axis=1)
    Times_df.to_csv("Times_11.csv",index=False)
#    df=pd.DataFrame(pd.DataFrame(result['results'][0]['metrics']))
#    df.to_csv("1213_THE.csv", index=False)
```

41   Save data dictionary

```python
In [38]: import requests
         import requests_oauthlib
         import json
         import pandas as pd
         import numpy as np

         import time
         time.sleep(2)


         url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

         for uid in Uidlist[:5]:
#            print(url.format(uid))
             resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                 'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
#            parsed=json.dumps(resp.json(),
#                    sort_keys=True,
#                    indent=4, separators=(',', ': '))
#            print(parsed)
```

```python
        #result=json.loads(parsed)
    with open("Uni_Metric_Data_Dictionary_Test4.json", 'w') as jsonfile:
        json.dump(resp.json(),
                    sort_keys=True,
                    indent=4, separators=(',', ': '), fp=jsonfile)

In [49]: import requests
        import requests_oauthlib
        import json
        import pandas as pd
        import numpy as np

        import time
        time.sleep(2)


        url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citatio

        for uid in Uidlist[:2]:
        #    print(url.format(uid))
            resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                    'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
            parsed=json.dumps(resp.json(),
                        sort_keys=True,
                        indent=4, separators=(',', ': '))
        #    print(parsed)
        #    parsed = json.loads(resp.text)
        #    print(parsed)
            result=json.loads(parsed)
            print(result)
        #    with open("Uni_Metric_Data_Dictionary_2.txt", 'a') as text_file:
        #        print(parsed, file=text_file)
        #        json.dump(resp.json(),
        #                sort_keys=True,
        #                indent=4, separators=(',', ': '), fp=jsonfile)

{'dataSource': {'lastUpdated': '2019-12-11', 'sourceName': 'Scopus'}, 'link': {'@href': 'https
{'dataSource': {'lastUpdated': '2019-12-11', 'sourceName': 'Scopus'}, 'link': {'@href': 'https


In [24]: import requests
        import requests_oauthlib
        import json
        import pandas as pd
        import numpy as np

        import time
        time.sleep(2)
```

```python
url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citatio

for uid in Uidlist[25:]:
#    print(url.format(uid))
    resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                          'X-ELS-APIKey': "dcfb521197bf15867d12c3c86c46c69b"})
    parsed=json.dumps(resp.json(),
                 sort_keys=True,
                 indent=4, separators=(',', ': '))
#    print(parsed)
    #result=json.loads(parsed)
with open("Uni_Metric_Data_Dic_2.json", 'w') as jsonfile:
    json.dump(parsed, jsonfile)
```

```python
In [125]: import requests
          import requests_oauthlib
          import json
          import pandas as pd
          import numpy as np

          import time
          time.sleep(2)

          country=[]
          countryCode=[]
          Uid=[]
          uname=[]
          uri=[]
          metric=[]
          CitationCount2014=[]
          CitationCount2015=[]
          CitationCount2016=[]
          CitationCount2017=[]
          CitationCount2018=[]

          url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

          for uid in Uidlist[1270:]:
          #    print(url.format(uid))
              resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                    'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
              parsed=json.dumps(resp.json(),
                           sort_keys=True,
                           indent=4, separators=(',', ': '))
              result=json.loads(parsed)
          #    print(result)
              if 'results' not in result:
                  pass
```

```python
        else:
            if list(result['results']) is None:
                pass
            else:
#           if list(result['results'])[0] is None:
#               pass
#           else:
#           data=result['results']
                if len(list(result['results']))<1:
                    pass
                else:
                    if 'institution' not in list(result['results'])[0]:
                        pass
                    else:
                        if 'country' in result['results'][0]['institution']:
                            country.append(result['results'][0]['institution']['country']
                        else:
                            country.append("")
                        if 'countryCode' in result['results'][0]['institution']:
                            countryCode.append(result['results'][0]['institution']['count
                        else:
                            countryCode.append("")
                        if 'id' in result['results'][0]['institution']:
                            Uid.append(result['results'][0]['institution']['id'])
                        else:
                            Uid.append("")
                        if 'name' in result['results'][0]['institution']:
                            uname.append(result['results'][0]['institution']['name'])
                        else:
                            uname.append("")
                        if 'uri' in result['results'][0]:
                            uri.append(result['results'][0]['institution']['uri'])
                        else:
                            uri.append("")
                    if 'metrics' not in result['results'][0]:
                        pass
                    else:
                        if 'metricType' not in result['results'][0]['metrics'][0]:
                            pass
                        else:
                            metric.append(result['results'][0]['metrics'][0]['metricType
                            if 'valueByYear' in result['results'][0]['metrics'][0]:
                                if '2014' in result['results'][0]['metrics'][0]['valueBy'
                                    CitationCount2014.append(result['results'][0]['metric
                                else:
                                    CitationCount2014.append("")
                                if '2015' in result['results'][0]['metrics'][0]['valueBy'
                                    CitationCount2015.append(result['results'][0]['metric
```

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```
                                        else:
                                            CitationCount2015.append("")
                                        if '2016' in result['results'][0]['metrics'][0]['valueBy'
                                            CitationCount2016.append(result['results'][0]['metri
                                        else:
                                            CitationCount2016.append("")
                                        if '2017' in result['results'][0]['metrics'][0]['valueBy'
                                            CitationCount2017.append(result['results'][0]['metri
                                        else:
                                            CitationCount2017.append("")
                                        if '2018' in result['results'][0]['metrics'][0]['valueBy'
                                            CitationCount2018.append(result['results'][0]['metri
                                        else:
                                            CitationCount2018.append("")
                               else:
                                   CitationCount2014.append("")
                                   CitationCount2015.append("")
                                   CitationCount2016.append("")
                                   CitationCount2017.append("")
                                   CitationCount2018.append("")
        #               else:
        #                   metric.append("")

        s1=pd.Series(country, name='Country')
        s2=pd.Series(countryCode, name='CountryCode')
        s3=pd.Series(Uid, name='Uid')
        s4=pd.Series(uname, name='UniversityName')
        s5=pd.Series(uri, name='uri')
        s6=pd.Series(metric, name='metric')
        s7=pd.Series(CitationCount2014, name='Citation2014')
        s8=pd.Series(CitationCount2015, name='Citation2015')
        s9=pd.Series(CitationCount2016, name='Citation2016')
        s10=pd.Series(CitationCount2017, name='Citation2017')
        s11=pd.Series(CitationCount2018, name='Citation2018')

        Times_df=pd.concat([s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11], axis=1)
        Times_df.to_csv("Times_11.csv",index=False)
        #    df=pd.DataFrame(pd.DataFrame(result['results'][0]['metrics']))
        #    df.to_csv("1213_THE.csv", index=False)
```

42   Combine all subfiles

```
In [126]: filename='Times_{}.csv'

          for i in range(1,12):
              print(filename.format(i))

Times_1.csv
```

```
Times_2.csv
Times_3.csv
Times_4.csv
Times_5.csv
Times_6.csv
Times_7.csv
Times_8.csv
Times_9.csv
Times_10.csv
Times_11.csv
```

In [127]: `chuck=[]`
        `for i in range(1,12):`
            `chuck.append(pd.read_csv(filename.format(i)))`

        `total=pd.concat(chuck, ignore_index=True)`

        `total.head()`

Out[127]:
```
        Country CountryCode     Uid  \
0  United Kingdom         GBR  315091
1   United States         USA  508092
2   United States         USA  508021
3  United Kingdom         GBR  315068
4   United States         USA  508219


                                 UniversityName  uri       metric  \
0                           University of Oxford  NaN  CitationCount
1  Jet Propulsion Laboratory, California Institut...  NaN  CitationCount
2              California Institute of Technology  NaN  CitationCount
3                       University of Cambridge  NaN  CitationCount
4                           Stanford University  NaN  CitationCount


   Citation2014  Citation2015  Citation2016  Citation2017  Citation2018
0      355751.0      313129.0      238271.0      149907.0       75747.0
1       39797.0       30488.0       32933.0       18670.0        9264.0
2      129593.0       97259.0       90365.0       58679.0       29486.0
3      260407.0      236169.0      197754.0      127682.0       64830.0
4      404346.0      363567.0      282005.0      194136.0       95069.0
```

In [128]: `del total['uri']`

In [129]: `total.head()`

        `total.to_csv("THE_Ranked_University_CitationCount_2014_2018.csv", index=False)`

In [130]: `total.head()`

```
Out[130]:          Country CountryCode      Uid  \
         0  United Kingdom        GBR   315091
         1   United States        USA   508092
         2   United States        USA   508021
         3  United Kingdom        GBR   315068
         4   United States        USA   508219


                                     UniversityName        metric  \
         0                        University of Oxford  CitationCount
         1  Jet Propulsion Laboratory, California Institut...  CitationCount
         2            California Institute of Technology  CitationCount
         3                   University of Cambridge  CitationCount
         4                         Stanford University  CitationCount


            Citation2014  Citation2015  Citation2016  Citation2017  Citation2018
         0      355751.0      313129.0      238271.0      149907.0       75747.0
         1       39797.0       30488.0       32933.0       18670.0        9264.0
         2      129593.0       97259.0       90365.0       58679.0       29486.0
         3      260407.0      236169.0      197754.0      127682.0       64830.0
         4      404346.0      363567.0      282005.0      194136.0       95069.0

In [132]: ranked=total.sort_values(by='Citation2018', ascending=False)


          ranked.to_csv("THE_Ranked_Universites_CitationCounts_2014_2018.csv", index=False)

In [135]: ranked=ranked.drop_duplicates()
          ranked.to_csv("Updated_THE_Ranked_Universites_CitationCounts_2014_2018.csv", index=Fa

In [97]: url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

         for uid in Uidlist[:1]:
         #    print(url.format(uid))
             resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                 'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
             parsed=json.dumps(resp.json(),
                       sort_keys=True,
                       indent=4, separators=(',', ': '))
             result=json.loads(parsed)
             print(result['results'][0])

{'institution': {'country': 'United Kingdom', 'countryCode': 'GBR', 'id': 315091, 'link': {'@h

In [4]: link =r"C:\Users\jchen148\THE Rankings\Report to Jane\THE_CountryCode_Result_1202_{}.cs

        for i in range(0, 12):
            i+=1
        #    print(link.format(i))
```

```
        name = 'data{}'
        want = name.format(i)
        want = pd.read_csv(link.format(i))
    want
```

Out[4]:   Unnamed: 0   University Name \
        0   0   The American University of Paris
        1   1   Vrije Universiteit Amsterdam
        2   2   Pompeu Fabra University
        3   3   Trinity College Dublin
        4   4   University of Liverpool
        5   5   Hong Kong Polytechnic University
        6   6   University of Alabama at Birmingham
        7   7   University of East Anglia
        8   8   University of Canberra
        9   9   Aalborg University
        10   10   University of Barcelona
        11   11   Autonomous University of Barcelona
        12   12   University of Bergen
        13   13   Brandeis University
        14   14   University of Calgary
        15   15   Copenhagen Business School
        16   16   University of Dundee
        17   17   Griffith University Queensland
        18   18   Hebrew University of Jerusalem
        19   19   University of Hohenheim
        20   20   Howard University
        21   21   University of Iowa
        22   22   James Cook University Queensland
        23   23   King Abdulaziz University
        24   24   University of Konstanz
        25   25   University of Luxembourg
        26   26   Macquarie University
        27   27   University of Massachusetts Dartmouth
        28   28   University of Massachusetts Boston
        29   29   University of Massachusetts Medical School
        ...   .
        1114   1114   University of Fukui
        1115   1115   Bursa Orhan Gazi University
        1116   1116   Gazi University
        1117   1117   Osmangazi University
        1118   1118   Gaziantep University
        1119   1119   Gebze Technical University
        1120   1120   Gifu University
        1121   1121   Government College University Lahore
        1122   1122   Iuliu Hatieganu University of Medicine and Pha...
        1123   1123   Grigore T. Popa University of Medicine and Pha...
        1124   1124   Carol Davila University of Medicine and Pharmacy

```
1125      1125    University of Medicine and Pharmacy of Tirgu M...
1126      1126     Victor Babes University of Medicine and Pharmacy
1127      1127             Guangxi University for Nationalities
1128      1128               Guangxi University of Technology
1129      1129                             Guangxi University
1130      1130    I. M. Gubkin Russian State University of Oil a...
1131      1131    Ivano-Frankivsk National Technical University ...
1132      1132                               Gunma University
1133      1133                              Hallym University
1134      1134                            Hashemite University
1135      1135                           University of Havana
1136      1136                              Helwan University
1137      1137                               Hosei University
1138      1138                             Huaqiao University
1139      1139                            University of Hyogo
1140      1140                             Ibaraki University
1141      1141           Imam Abdulrahman Bin Faisal University
1142      1142                     Istanbul Medipol University
1143      1143    Ivane Javakhishvili Tbilisi State University
```

	University id	Country	Country Code
0	703235	France	FRA
1	325016	Netherlands	NLD
2	312052	Spain	ESP
3	319006	Ireland	IRL
4	315086	United Kingdom	GBR
5	205004	Hong Kong	HKG
6	508253	United States	USA
7	315072	United Kingdom	GBR
8	201024	Australia	AUS
9	310001	Denmark	DNK
10	312046	Spain	ESP
11	312045	Spain	ESP
12	326006	Norway	NOR
13	508015	United States	USA
14	501037	Canada	CAN
15	310002	Denmark	DNK
16	315070	United Kingdom	GBR
17	201011	Australia	AUS
18	403004	Israel	ISR
19	309077	Germany	DEU
20	508079	United States	USA
21	508286	United States	USA
22	201012	Australia	AUS
23	409001	Saudi Arabia	SAU
24	309081	Germany	DEU
25	336001	Luxembourg	LUX
26	201014	Australia	AUS

```
     27             508297        United States            USA
     28             508296        United States            USA
     29             508299        United States            USA
     ...                ...                  ...            ...
   1114             208174                Japan            JPN
   1115             705106               Turkey            TUR
   1116             410022               Turkey            TUR
   1117             410044               Turkey            TUR
   1118             410052               Turkey            TUR
   1119             410024               Turkey            TUR
   1120             208024                Japan            JPN
   1121             214010             Pakistan            PAK
   1122             329015              Romania            ROU
   1123             329007              Romania            ROU
   1124             329003              Romania            ROU
   1125             705035              Romania            ROU
   1126             329025              Romania            ROU
   1127             704848                China            CHN
   1128             703985                China            CHN
   1129             203069                China            CHN
   1130             331030   Russian Federation            RUS
   1131             714884              Ukraine            UKR
   1132             208026                Japan            JPN
   1133             209022          South Korea            KOR
   1134             405002               Jordan            JOR
   1135             503001                 Cuba            CUB
   1136             104007                Egypt            EGY
   1137             208035                Japan            JPN
   1138             203097                China            CHN
   1139             208030                Japan            JPN
   1140             208038                Japan            JPN
   1141             703099         Saudi Arabia            SAU
   1142             705124               Turkey            TUR
   1143             204001              Georgia            GEO

   [1144 rows x 5 columns]

In [5]: data=want.sort_values(by='Country Code')
        data.head()

Out[5]:        Unnamed: 0                              University Name  University id  \
        291           291        American University of Afghanistan         715769
        189           189                United Arab Emirates University         401002
        285           285        American University of Ras Al Khaimah         709859
       1077          1077  Al Ain University of Science and Technology         700486
       1035          1035                             Amity University         712406

                       Country Country Code
```

```
         291              Afghanistan            AFG
         189    United Arab Emirates            ARE
         285    United Arab Emirates            ARE
        1077    United Arab Emirates            ARE
        1035    United Arab Emirates            ARE
```

In [29]: `len(data) # 1144`

Out[29]: 1144

In [32]: `# want to get the CitationCount for top 300 universities`

```
         want.head(300)

         len(want)
```

Out[32]: 1144

In [59]:
```python
test_data = want[:2]
test_data = test_data['University id']

test_data

df_id = pd.DataFrame({'uid':test_data})

df_id
```

Out[59]:
```
             uid
         0   703235
         1   325016
```

In [60]:
```python
for uid in df_id['uid']:
    print(uid)
```

```
703235
325016
```

In [61]: `url='https://api.elsevier.com/analytics/scival/institutionGroup/metrics/metrics?metric`

```python
for uid in df_id['uid']:
    print(url.format(uid))
```

```
https://api.elsevier.com/analytics/scival/institutionGroup/metrics/metrics?metricTypes=Citatior
https://api.elsevier.com/analytics/scival/institutionGroup/metrics/metrics?metricTypes=Citatior
```

In [14]:
```python
import requests
import json
import pandas as pd
```

```python
import numpy as np
from time import import sleep
sleep(2)


country=[]
code=[]
uid=[]
name=[]




url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

for uid in df['uid']:
#     query = "name(school)"
#     url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&count=

    resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed = json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#     print(parsed)
    result = parsed['results']
    data = result[0]
    for i in data:
        if i is None:
            pass
        else:
            countries = i['country']
            codes = i['countryCode']
            uids = i['id']
            names = i['name']

            if countries is not None:
                country.append(countries)
            else:
                country.append("")
            if codes is not None:
                code.append(codes)
            else:
                code.append("")
            if uids is not None:
                uid.append(uids)
            else:
                uid.append("")
            if names is not None:
                name.append(names)
```

```python
            else:
                name.append("")
```

```json
{
    "dataSource": {
        "lastUpdated": "2019-11-27",
        "sourceName": "Scopus"
    },
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/metrics?cursor=*&apiKey
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "institution": {
                "country": "France",
                "countryCode": "FRA",
                "id": 703235,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/703235?apiK
                    "@ref": "self",
                    "@type": "application/json"
                },
                "name": "The American University of Paris",
                "uri": "Institution/703235"
            },
            "metrics": [
                {
                    "metricType": "CitationCount",
                    "valueByYear": {
                        "2014": 110,
                        "2015": 94,
                        "2016": 72,
                        "2017": 32,
                        "2018": 17
                    }
                },
                {
                    "metricType": "CitedPublications",
                    "percentageByYear": {
                        "2014": 53.571426,
                        "2015": 51.724136,
                        "2016": 43.243244,
```

```
                    "2017": 27.272728,
                    "2018": 39.130436
                },
                "valueByYear": {
                    "2014": 15,
                    "2015": 15,
                    "2016": 16,
                    "2017": 9,
                    "2018": 9
                }
            },
            {
                "metricType": "ScholarlyOutput",
                "valueByYear": {
                    "2014": 28,
                    "2015": 29,
                    "2016": 37,
                    "2017": 33,
                    "2018": 23
                }
            },
            {
                "impactType": "CiteScore",
                "metricType": "PublicationsInTopJournalPercentiles",
                "values": [
                    {
                        "percentageByYear": {
                            "2014": 0.0,
                            "2015": 0.0,
                            "2016": 0.0,
                            "2017": 0.0,
                            "2018": 0.0
                        },
                        "threshold": 1,
                        "valueByYear": {
                            "2014": 0,
                            "2015": 0,
                            "2016": 0,
                            "2017": 0,
                            "2018": 0
                        }
                    },
                    {
                        "percentageByYear": {
                            "2014": 20.0,
                            "2015": 9.523809,
                            "2016": 0.0,
                            "2017": 11.764706,
```

```
                    "2018": 22.222223
                },
                "threshold": 5,
                "valueByYear": {
                    "2014": 3,
                    "2015": 2,
                    "2016": 0,
                    "2017": 2,
                    "2018": 4
                }
            },
            {

                "percentageByYear": {
                    "2014": 26.666668,
                    "2015": 14.285715,
                    "2016": 13.636364,
                    "2017": 35.294117,
                    "2018": 27.777779
                },
                "threshold": 10,
                "valueByYear": {
                    "2014": 4,
                    "2015": 3,
                    "2016": 3,
                    "2017": 6,
                    "2018": 5
                }
            },
            {

                "percentageByYear": {
                    "2014": 46.666668,
                    "2015": 33.333336,
                    "2016": 22.727274,
                    "2017": 41.17647,
                    "2018": 61.11111
                },
                "threshold": 25,
                "valueByYear": {
                    "2014": 7,
                    "2015": 7,
                    "2016": 5,
                    "2017": 7,
                    "2018": 11
                }
            }
        ]
    },
    {
```

```
"metricType": "OutputsInTopCitationPercentiles",
"values": [
    {
        "percentageByYear": {
            "2014": 0.0,
            "2015": 0.0,
            "2016": 0.0,
            "2017": 0.0,
            "2018": 0.0
        },
        "threshold": 1,
        "valueByYear": {
            "2014": 0,
            "2015": 0,
            "2016": 0,
            "2017": 0,
            "2018": 0
        }
    },
    {
        "percentageByYear": {
            "2014": 0.0,
            "2015": 0.0,
            "2016": 0.0,
            "2017": 0.0,
            "2018": 0.0
        },
        "threshold": 5,
        "valueByYear": {
            "2014": 0,
            "2015": 0,
            "2016": 0,
            "2017": 0,
            "2018": 0
        }
    },
    {
        "percentageByYear": {
            "2014": 7.1428576,
            "2015": 3.4482758,
            "2016": 2.7027028,
            "2017": 3.030303,
            "2018": 0.0
        },
        "threshold": 10,
        "valueByYear": {
            "2014": 2,
            "2015": 1,
```

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```json
                    "2016": 1,
                    "2017": 1,
                    "2018": 0
                }
            },
            {
                "percentageByYear": {
                    "2014": 10.714286,
                    "2015": 10.344828,
                    "2016": 5.4054055,
                    "2017": 6.060606,
                    "2018": 8.695652
                },
                "threshold": 25,
                "valueByYear": {
                    "2014": 3,
                    "2015": 3,
                    "2016": 2,
                    "2017": 2,
                    "2018": 2
                }
            }
        ]
    }
    ]
}
}
{
    "dataSource": {
        "lastUpdated": "2019-11-27",
        "sourceName": "Scopus"
    },
    "link": {
        "@href": "https://api.elsevier.com/analytics/scival/institution/metrics?cursor=*&apiKe
        "@ref": "self",
        "@type": "application/json"
    },
    "results": [
        {
            "institution": {
                "country": "Netherlands",
                "countryCode": "NLD",
                "id": 325016,
                "link": {
                    "@href": "https://api.elsevier.com/analytics/scival/institution/325016?apiK
                    "@ref": "self",
                    "@type": "application/json"
```

```
        },
        "name": "Vrije Universiteit Amsterdam",
        "uri": "Institution/325016"
    },
    "metrics": [
        {
            "metricType": "CitationCount",
            "valueByYear": {
                "2014": 132029,
                "2015": 106954,
                "2016": 94463,
                "2017": 63858,
                "2018": 30634
            }
        },
        {
            "metricType": "CitedPublications",
            "percentageByYear": {
                "2014": 88.249916,
                "2015": 89.27775,
                "2016": 86.946266,
                "2017": 82.32695,
                "2018": 71.49466
            },
            "valueByYear": {
                "2014": 5325,
                "2015": 5204,
                "2016": 5162,
                "2017": 5031,
                "2018": 4482
            }
        },
        {
            "metricType": "ScholarlyOutput",
            "valueByYear": {
                "2014": 6034,
                "2015": 5829,
                "2016": 5937,
                "2017": 6111,
                "2018": 6269
            }
        },
        {
            "impactType": "CiteScore",
            "metricType": "PublicationsInTopJournalPercentiles",
            "values": [
                {
                    "percentageByYear": {
```

```json
            "2014": 6.2649713,
            "2015": 6.302044,
            "2016": 5.5244627,
            "2017": 5.284625,
            "2018": 5.3676596
        },
        "threshold": 1,
        "valueByYear": {
            "2014": 340,
            "2015": 333,
            "2016": 306,
            "2017": 298,
            "2018": 319
        }
    },
    {

        "percentageByYear": {
            "2014": 25.594252,
            "2015": 25.832705,
            "2016": 28.037552,
            "2017": 24.809364,
            "2018": 25.593134
        },
        "threshold": 5,
        "valueByYear": {
            "2014": 1389,
            "2015": 1365,
            "2016": 1553,
            "2017": 1399,
            "2018": 1521
        }
    },
    {

        "percentageByYear": {
            "2014": 46.41607,
            "2015": 45.003784,
            "2016": 45.531685,
            "2017": 45.025715,
            "2018": 43.378765
        },
        "threshold": 10,
        "valueByYear": {
            "2014": 2519,
            "2015": 2378,
            "2016": 2522,
            "2017": 2539,
            "2018": 2578
        }
```

```
                },
                {
                    "percentageByYear": {
                        "2014": 73.52128,
                        "2015": 73.7131,
                        "2016": 74.43582,
                        "2017": 72.17592,
                        "2018": 73.63285
                    },
                    "threshold": 25,
                    "valueByYear": {
                        "2014": 3990,
                        "2015": 3895,
                        "2016": 4123,
                        "2017": 4070,
                        "2018": 4376
                    }
                }
            ]
        },
        {
            "metricType": "OutputsInTopCitationPercentiles",
            "values": [
                {
                    "percentageByYear": {
                        "2014": 3.0659595,
                        "2015": 3.2767198,
                        "2016": 3.6045141,
                        "2017": 3.3055146,
                        "2018": 3.3019621
                    },
                    "threshold": 1,
                    "valueByYear": {
                        "2014": 185,
                        "2015": 191,
                        "2016": 214,
                        "2017": 202,
                        "2018": 207
                    }
                },
                {
                    "percentageByYear": {
                        "2014": 11.650646,
                        "2015": 10.876651,
                        "2016": 11.790466,
                        "2017": 11.667485,
                        "2018": 10.559897
                    },
```

```
                            "threshold": 5,
                            "valueByYear": {
                                "2014": 703,
                                "2015": 634,
                                "2016": 700,
                                "2017": 713,
                                "2018": 662
                            }
                        },
                        {
                            "percentageByYear": {
                                "2014": 21.52801,
                                "2015": 20.55241,
                                "2016": 20.36382,
                                "2017": 19.80036,
                                "2018": 21.024088
                            },
                            "threshold": 10,
                            "valueByYear": {
                                "2014": 1299,
                                "2015": 1198,
                                "2016": 1209,
                                "2017": 1210,
                                "2018": 1318
                            }
                        },
                        {
                            "percentageByYear": {
                                "2014": 47.447796,
                                "2015": 45.119232,
                                "2016": 43.894222,
                                "2017": 44.624447,
                                "2018": 40.788002
                            },
                            "threshold": 25,
                            "valueByYear": {
                                "2014": 2863,
                                "2015": 2630,
                                "2016": 2606,
                                "2017": 2727,
                                "2018": 2557
                            }
                        }
                    ]
                }
            ]
        }
    ]
```

```
    }


In [62]: df_id

Out[62]:      uid
         0  703235
         1  325016


In [167]: url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

          for uid in df_id['uid']:
          #     query = "name(school)"
          #     url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&coun

              resp = requests.get(url.format(uid), headers={'Accept':'application/json',
                                    'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
              parsed=json.dumps(resp.json(),
                          sort_keys=True,
                          indent=4, separators=(',', ': '))
          #     print(parsed)
              result=json.loads(parsed)
          #     result=parsed[2]
              data=result['results']
          #     print(data[0])
              for i in data:
          #         print(i['metrics'][2]) # ScholarlyOutput
          #         print(i['metrics'][0]) # CitationCount
          #         print(i['metrics'][1]) # CitedPublications
          #         print(i['metrics'][3]['impactType'])# impactType
                  print(i['metrics'][3]) # CiteScore and PublicationsInTopJournalPercentiles
          #         print(i['metrics'][3]['values'])
          #         print(i['metrics'][3]['values'][0]['percentageByYear'])
          #         print(i['metrics'][3]['values'][0]['valueByYear'])

{'impactType': 'CiteScore', 'metricType': 'PublicationsInTopJournalPercentiles', 'values': [{'
{'impactType': 'CiteScore', 'metricType': 'PublicationsInTopJournalPercentiles', 'values': [{'


In [176]: want.columns=['Index','UniversityName', 'Universityid','Country','CountryCode']

          want

Out[176]:     Index                              UniversityName  Universityid  \
          0       0           The American University of Paris        703235
          1       1               Vrije Universiteit Amsterdam        325016
          2       2                   Pompeu Fabra University        312052
          3       3                     Trinity College Dublin        319006
          4       4                    University of Liverpool        315086
```

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5	5	Hong Kong Polytechnic University	205004
6	6	University of Alabama at Birmingham	508253
7	7	University of East Anglia	315072
8	8	University of Canberra	201024
9	9	Aalborg University	310001
10	10	University of Barcelona	312046
11	11	Autonomous University of Barcelona	312045
12	12	University of Bergen	326006
13	13	Brandeis University	508015
14	14	University of Calgary	501037
15	15	Copenhagen Business School	310002
16	16	University of Dundee	315070
17	17	Griffith University Queensland	201011
18	18	Hebrew University of Jerusalem	403004
19	19	University of Hohenheim	309077
20	20	Howard University	508079
21	21	University of Iowa	508286
22	22	James Cook University Queensland	201012
23	23	King Abdulaziz University	409001
24	24	University of Konstanz	309081
25	25	University of Luxembourg	336001
26	26	Macquarie University	201014
27	27	University of Massachusetts Dartmouth	508297
28	28	University of Massachusetts Boston	508296
29	29	University of Massachusetts Medical School	508299
...	...	...	...
1114	1114	University of Fukui	208174
1115	1115	Bursa Orhan Gazi University	705106
1116	1116	Gazi University	410022
1117	1117	Osmangazi University	410044
1118	1118	Gaziantep University	410052
1119	1119	Gebze Technical University	410024
1120	1120	Gifu University	208024
1121	1121	Government College University Lahore	214010
1122	1122	Iuliu Hatieganu University of Medicine and Pha...	329015
1123	1123	Grigore T. Popa University of Medicine and Pha...	329007
1124	1124	Carol Davila University of Medicine and Pharmacy	329003
1125	1125	University of Medicine and Pharmacy of Tirgu M...	705035
1126	1126	Victor Babes University of Medicine and Pharmacy	329025
1127	1127	Guangxi University for Nationalities	704848
1128	1128	Guangxi University of Technology	703985
1129	1129	Guangxi University	203069
1130	1130	I. M. Gubkin Russian State University of Oil a...	331030
1131	1131	Ivano-Frankivsk National Technical University ...	714884
1132	1132	Gunma University	208026
1133	1133	Hallym University	209022
1134	1134	Hashemite University	405002
1135	1135	University of Havana	503001

1136	1136	Helwan University	104007
1137	1137	Hosei University	208035
1138	1138	Huaqiao University	203097
1139	1139	University of Hyogo	208030
1140	1140	Ibaraki University	208038
1141	1141	Imam Abdulrahman Bin Faisal University	703099
1142	1142	Istanbul Medipol University	705124
1143	1143	Ivane Javakhishvili Tbilisi State University	204001

	Country	CountryCode
0	France	FRA
1	Netherlands	NLD
2	Spain	ESP
3	Ireland	IRL
4	United Kingdom	GBR
5	Hong Kong	HKG
6	United States	USA
7	United Kingdom	GBR
8	Australia	AUS
9	Denmark	DNK
10	Spain	ESP
11	Spain	ESP
12	Norway	NOR
13	United States	USA
14	Canada	CAN
15	Denmark	DNK
16	United Kingdom	GBR
17	Australia	AUS
18	Israel	ISR
19	Germany	DEU
20	United States	USA
21	United States	USA
22	Australia	AUS
23	Saudi Arabia	SAU
24	Germany	DEU
25	Luxembourg	LUX
26	Australia	AUS
27	United States	USA
28	United States	USA
29	United States	USA
...	...	...
1114	Japan	JPN
1115	Turkey	TUR
1116	Turkey	TUR
1117	Turkey	TUR
1118	Turkey	TUR
1119	Turkey	TUR
1120	Japan	JPN

```
1121          Pakistan          PAK
1122           Romania          ROU
1123           Romania          ROU
1124           Romania          ROU
1125           Romania          ROU
1126           Romania          ROU
1127             China          CHN
1128             China          CHN
1129             China          CHN
1130  Russian Federation        RUS
1131           Ukraine          UKR
1132             Japan          JPN
1133        South Korea         KOR
1134            Jordan          JOR
1135              Cuba          CUB
1136             Egypt          EGY
1137             Japan          JPN
1138             China          CHN
1139             Japan          JPN
1140             Japan          JPN
1141      Saudi Arabia          SAU
1142            Turkey          TUR
1143           Georgia          GEO

[1144 rows x 5 columns]
```

In [178]: inputdata=want['Universityid']

```python
for item in inputdata:
    print(item)
```

```
703235
325016
312052
319006
315086
205004
508253
315072
201024
310001
312046
312045
326006
508015
501037
310002
315070
```

201011
403004
309077
508079
508286
201012
409001
309081
336001
201014
508297
508296
508299
508298
508295
301005
301006
508302
335013
331007
716245
315089
212007
315094
325011
325014
319008
508355
508366
303014
508367
501051
501052
700605
508781
705308
700603
508175
703057
714879
201037
700905
212001
315063
706781
332001
508271
201006

501007
508277
315075
201009
508065
508069
700882
508284
201013
704944
209064
207019
217008
203440
203156
203162
508310
705686
203166
706710
209059
203460
716239
707792
702149
110013
203212
203213
217037
205005
715462
217039
700347
715710
312058
508330
508183
313011
309212
309090
315051
309047
501025
201030
310008
309065
315102
315109

508227
313012
208148
208154
201036
315117
203013
508012
212006
508044
703170
201007
306013
309071
704944
209064
207019
217008
203440
203156
203162
508310
705686
203166
706710
209059
203460
716239
707792
702149
110013
203212
203213
217037
205005
715462
217039
700347
715710
703166
207028
709835
706805
706106
706105
703434
309161
301015

209053
715870
224001
211009
309045
319004
321018
321055
321150
715051
208093
201028
508169
508176
208126
208300
706979
321018
508200
508225
332015
311002
201033
508228
508346
321069
508239
208075
401002
319007
212009
201038
508255
407001
201042
704946
309057
315002
309067
508727
328013
508037
508275
316008
316011
714817
508278
321049

209025
303005
508077
703807
320001
708580
703232
508088
704944
209064
207019
217008
203440
203156
203162
508310
705686
203166
706710
209059
203460
716239
707792
702149
110013
203212
203213
217037
205005
715462
217039
700347
715710
309022
315083
508288
700347
705248
315036
501040
203135
321057
217047
315042
508184
321061
321062
321032

315099
201021
217054
313013
301014
701373
701282
701281
508369
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```

In [11]: import json

In [22]: url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citatic

```python
#for uid in df_id['uid']:
for item in Uidlist[100:]:
#    query = "name(school)"
#    url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&count=

    resp = requests.get(url.format(item), headers={'Accept':'application/json',
                            'X-ELS-APIKey': "ba88a424c653ea37282b6a4cdf423a1d"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    print(parsed)
#    result=json.loads(parsed)
with open("Data_Dic_1218_6.txt", "a") as text_file:
    print(parsed, file=text_file)
#    result=parsed[2]
```

In [180]: import requests
          import json
          import pandas as pd

```python
import numpy as np
from time import sleep
sleep(2)

country=[]
countryCode=[]
universityid=[]
uniname=[]
metricType=[]
percentage2014=[]
percentage2015=[]
percentage2016=[]
percentage2017=[]
percentage2018=[]
value2014=[]
value2015=[]
value2016=[]
value2017=[]
value2018=[]
ScholarlyOutput2014=[]
ScholarlyOutput2015=[]
ScholarlyOutput2016=[]
ScholarlyOutput2017=[]
ScholarlyOutput2018=[]
CitationCount2014=[]
CitationCount2015=[]
CitationCount2016=[]
CitationCount2017=[]
CitationCount2018=[]
CitedPublicationsValue2014=[]
CitedPublicationsValue2015=[]
CitedPublicationsValue2016=[]
CitedPublicationsValue2017=[]
CitedPublicationsValue2018=[]
CitedPublicationspercentage2014=[]
CitedPublicationspercentage2015=[]
CitedPublicationspercentage2016=[]
CitedPublicationspercentage2017=[]
CitedPublicationspercentage2018=[]
impactType=[]
CiteScorepercentage2014=[]
CiteScorepercentage2015=[]
CiteScorepercentage2016=[]
CiteScorepercentage2017=[]
CiteScorepercentage2018=[]
CiteScorevalue2014=[]
CiteScorevalue2015=[]
CiteScorevalue2016=[]
```

```python
CiteScorevalue2017=[]
CiteScorevalue2018=[]
PublicationsInTopJournalPercentilespercentage2014=[]
PublicationsInTopJournalPercentilespercentage2015=[]
PublicationsInTopJournalPercentilespercentage2016=[]
PublicationsInTopJournalPercentilespercentage2017=[]
PublicationsInTopJournalPercentilespercentage2018=[]
PublicationsInTopJournalPercentilesvalue2014=[]
PublicationsInTopJournalPercentilesvalue2015=[]
PublicationsInTopJournalPercentilesvalue2016=[]
PublicationsInTopJournalPercentilesvalue2017=[]
PublicationsInTopJournalPercentilesvalue2018=[]

PublicationsInTopJournalPercentByYear2014=[]
PublicationsInTopJournalPercentByYear2015=[]
PublicationsInTopJournalPercentByYear2016=[]
PublicationsInTopJournalPercentByYear2017=[]
PublicationsInTopJournalPercentByYear2018=[]

url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citati

#for uid in df_id['uid']:
for item in inputdata:
#    query = "name(school)"
#    url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&coun

    resp = requests.get(url.format(item), headers={'Accept':'application/json',
                            'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed=json.dumps(resp.json(),
                sort_keys=True,
                indent=4, separators=(',', ': '))
#    print(parsed)
    result=json.loads(parsed)
#    result=parsed[2]
    data=result['results']
#    print(data[0])
    for i in data:
        if i is None:
            pass
        else:
            if i['institution'] is None:
                pass
            else:
                if i['institution']['country'] is not None:
                    country.append(i['institution']['country'])
                else:
                    country.append("")
                if i['institution']['countryCode'] is not None:
```

```python
                    countryCode.append(i['institution']['countryCode'])
                else:
                    countryCode.append("")
                if i['institution']['id'] is not None:
                    universityid.append(i['institution']['id'])
                else:
                    universityid.append("")
                if i['institution']['name'] is not None:
                    uniname.append(i['institution']['name'])
                else:
                    uniname.append("")
        if i['metrics'] is None:
            pass
        else:
            if i['metrics'][0] is None:
                pass
            else:
                if i['metrics'][0]['metricType'] is not None:
                    metricType.append(i['metrics'][0]['metricType'])
                else:
                    metricType.append("")
                if i['metrics'][0]['valueByYear'] is None:
                    pass
                else:
                    if i['metrics'][0]['valueByYear']['2014'] is not None:
                        CitationCount2014.append(i['metrics'][0]['valueByYear'][
                    else:
                        CitationCount2014.append("")
                    if i['metrics'][0]['valueByYear']['2015'] is not None:
                        CitationCount2015.append(i['metrics'][0]['valueByYear'][
                    else:
                        CitationCount2015.append("")
                    if i['metrics'][0]['valueByYear']['2016'] is not None:
                        CitationCount2016.append(i['metrics'][0]['valueByYear'][
                    else:
                        CitationCount2016.append("")
                    if i['metrics'][0]['valueByYear']['2017'] is not None:
                        CitationCount2017.append(i['metrics'][0]['valueByYear'][
                    else:
                        CitationCount2017.append("")
                    if i['metrics'][0]['valueByYear']['2018'] is not None:
                        CitationCount2018.append(i['metrics'][0]['valueByYear'][
                    else:
                        CitationCount2018.append("")
            if i['metrics'][1] is None:
                pass
            else:
                if i['metrics'][1]['metricType'] is not None:
```

```python
            metricType.append(i['metrics'][1]['metricType'])
        else:
            metricType.append("")
        if i['metrics'][1]['percentageByYear'] is None:
            pass
        else:
            if i['metrics'][1]['percentageByYear']['2014'] is not None:
                CitedPublicationspercentage2014.append(i['metrics'][1]['
            else:
                CitedPublicationspercentage2014.append("")
            if i['metrics'][1]['percentageByYear']['2015'] is not None:
                CitedPublicationspercentage2015.append(i['metrics'][1]['
            else:
                CitedPublicationspercentage2015.append("")
            if i['metrics'][1]['percentageByYear']['2016'] is not None:
                CitedPublicationspercentage2016.append(i['metrics'][1]['
            else:
                CitedPublicationspercentage2016.append("")
            if i['metrics'][1]['percentageByYear']['2017'] is not None:
                CitedPublicationspercentage2017.append(i['metrics'][1]['
            else:
                CitedPublicationspercentage2017.append("")
            if i['metrics'][1]['percentageByYear']['2018'] is not None:
                CitedPublicationspercentage2018.append(i['metrics'][1]['
            else:
                CitedPublicationspercentage2018.append("")
        if i['metrics'][1]['valueByYear'] is None:
            pass
        else:
            if i['metrics'][1]['valueByYear']['2014'] is not None:
                CitedPublicationsValue2014.append(i['metrics'][1]['valueB
            else:
                CitedPublicationsValue2014.append("")
            if i['metrics'][1]['valueByYear']['2015'] is not None:
                CitedPublicationsValue2015.append(i['metrics'][1]['valueB
            else:
                CitedPublicationsValue2015.append("")
            if i['metrics'][1]['valueByYear']['2016'] is not None:
                CitedPublicationsValue2016.append(i['metrics'][1]['valueB
            else:
                CitedPublicationsValue2016.append("")
            if i['metrics'][1]['valueByYear']['2017'] is not None:
                CitedPublicationsValue2017.append(i['metrics'][1]['valueB
            else:
                CitedPublicationsValue2017.append("")
            if i['metrics'][1]['valueByYear']['2018'] is not None:
                CitedPublicationsValue2018.append(i['metrics'][1]['valueB
            else:
```

```python
                             CitedPublicationsValue2018.append("")
                 if i['metrics'][2] is None:
                     pass
                 else:
                     if i['metrics'][2]['metricType'] is not None:
                         metricType.append(i['metrics'][2]['metricType'])
#                         ScholarlyOutput2014.append(i['metrics'][2]['valueByYear']['2
                     else:
                         metricType.append("")
                     if i['metrics'][2]['valueByYear'] is None:
                         pass
                     else:
                         if i['metrics'][2]['valueByYear']['2014'] is not None:
                             ScholarlyOutput2014.append(i['metrics'][2]['valueByYear']
                         else:
                             ScholarlyOutput2014.append("")
                         if i['metrics'][2]['valueByYear']['2015'] is not None:
                             ScholarlyOutput2015.append(i['metrics'][2]['valueByYear']
                         else:
                             ScholarlyOutput2015.append("")
                         if i['metrics'][2]['valueByYear']['2016'] is not None:
                             ScholarlyOutput2016.append(i['metrics'][2]['valueByYear']
                         else:
                             ScholarlyOutput2016.append("")
                         if i['metrics'][2]['valueByYear']['2017'] is not None:
                             ScholarlyOutput2017.append(i['metrics'][2]['valueByYear']
                         else:
                             ScholarlyOutput2017.append("")
                         if i['metrics'][2]['valueByYear']['2018'] is not None:
                             ScholarlyOutput2018.append(i['metrics'][2]['valueByYear']
                         else:
                             ScholarlyOutput2018.append("")
                 if i['metrics'][3] is None:
                     pass
                 else:
                     if i['metrics'][3]['impactType'] is not None:
                         impactType.append(i['metrics'][3]['impactType'])
                     else:
                         impactType.append("")
                     if i['metrics'][3]['metricType'] is not None:
                         metricType.append(i['metrics'][3]['metricType'])
                     else:
                         metricType.append("")
                     if i['metrics'][3]['values'] is None:
                         pass
                     else:
                         if i['metrics'][3]['values'][0]['percentageByYear'] is None:
                             pass
```

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```python
                                else:
                                    if i['metrics'][3]['values'][0]['percentageByYear']['2014
                                        CiteScorepercentage2014.append(i['metrics'][3]['value
                                    else:
                                        CiteScorepercentage2014.append("")
                                    if i['metrics'][3]['values'][0]['percentageByYear']['2015
                                        CiteScorepercentage2015.append(i['metrics'][3]['value
                                    else:
                                        CiteScorepercentage2015.append("")
                                    if i['metrics'][3]['values'][0]['percentageByYear']['2016
                                        CiteScorepercentage2016.append(i['metrics'][3]['value
                                    else:
                                        CiteScorepercentage2016.append("")
                                    if i['metrics'][3]['values'][0]['percentageByYear']['2017
                                        CiteScorepercentage2017.append(i['metrics'][3]['value
                                    else:
                                        CiteScorepercentage2017.append("")
                                    if i['metrics'][3]['values'][0]['percentageByYear']['2018
                                        CiteScorepercentage2018.append(i['metrics'][3]['value
                                    else:
                                        CiteScorepercentage2018.append("")
                            if i['metrics'][3]['values'][0]['percentageByYear'] is None:
                                pass
                            else:
                                if i['metrics'][3]['values'][0]['valueByYear']['2014'] is
                                    CiteScorevalue2014.append(i['metrics'][3]['values'][0
                                else:
                                    CiteScorevalue2014.append("")
                                if i['metrics'][3]['values'][0]['valueByYear']['2015'] is
                                    CiteScorevalue2015.append(i['metrics'][3]['values'][0
                                else:
                                    CiteScorevalue2015.append("")
                                if i['metrics'][3]['values'][0]['valueByYear']['2016'] is
                                    CiteScorevalue2016.append(i['metrics'][3]['values'][0
                                else:
                                    CiteScorevalue2016.append("")
                                if i['metrics'][3]['values'][0]['valueByYear']['2017'] is
                                    CiteScorevalue2017.append(i['metrics'][3]['values'][0
                                else:
                                    CiteScorevalue2017.append("")
                                if i['metrics'][3]['values'][0]['valueByYear']['2018'] is
                                    CiteScorevalue2018.append(i['metrics'][3]['values'][0
                                else:
                                    CiteScorevalue2018.append("")


        testfile= pd.DataFrame({'country': country, 'countryCode': countryCode, 'universityid
                        'uniname':uniname, 'CitationCount2014':CitationCount2014,
                        'CitationCount2015':CitationCount2015, 'CitationCount2016':Cit
```

```python
                            'CitationCount2017':CitationCount2017, 'CitationCount2018':Cit
                             'CitedPublicationspercentage2014':CitedPublicationspercentage
                             'CitedPublicationspercentage2015':CitedPublicationspercentage
                             'CitedPublicationspercentage2016':CitedPublicationspercentage
                             'CitedPublicationspercentage2017':CitedPublicationspercentage
                             'CitedPublicationspercentage2018':CitedPublicationspercentage
                             'CitedPublicationsValue2014':CitedPublicationsValue2014,
                             'CitedPublicationsValue2015':CitedPublicationsValue2015,
                             'CitedPublicationsValue2016':CitedPublicationsValue2016,
                             'CitedPublicationsValue2017':CitedPublicationsValue2017,
                             'CitedPublicationsValue2018':CitedPublicationsValue2018,
                             'ScholarlyOutput2014':ScholarlyOutput2014, 'ScholarlyOutput20
                             'ScholarlyOutput2016': ScholarlyOutput2016, 'ScholarlyOutput2
                             'ScholarlyOutput2018':ScholarlyOutput2018,
                             'CiteScorepercentage2014':CiteScorepercentage2014,
                             'CiteScorepercentage2015':CiteScorepercentage2015,
                             'CiteScorepercentage2016':CiteScorepercentage2016,
                             'CiteScorepercentage2017':CiteScorepercentage2017,
                             'CiteScorepercentage2018':CiteScorepercentage2018,
                             'CiteScorevalue2014':CiteScorevalue2014,
                             'CiteScorevalue2015':CiteScorevalue2015,
                             'CiteScorevalue2016':CiteScorevalue2016,
                             'CiteScorevalue2017':CiteScorevalue2017,
                             'CiteScorevalue2018':CiteScorevalue2018})


    testfile.to_csv("testfile_01.csv", index=False)

    #     data_dict = data[0]['institution']
    #     data_dict_2 = data[0]['institution']
    #     df_file_2=pd.DataFrame(data_dict_2)
    #     df_file_2.to_csv("File_3.csv", index=False)
    #     data_df=pd.DataFrame(data=data_dict.value())
    #     data_df.to_csv("File.csv", index=False)
    #     print(data[0]['institution']['name'])
    #     print(data[0]) # get 'MetricsType'
    #     inst=data[0]['institution']
    #     metrics=data[0]['metrics']
    #     df_test = pd.DataFrame({'institution':inst, 'metrics':metrics})
    #     df_test.to_csv("Test_Inst.csv", index=False)
    #     df=pd.DataFrame(data[0]['metrics'][0])
    #     df.to_csv("Test_MetricsType.csv", index=False)
    #     metrics=result[1]['metrics']

    #     print(data)
    #     print(data)
    #     df=pd.DataFrame(parsed)
    #     df.to_csv("Test_DataFrame.csv", index=False)
```

```
In [141]: import requests
          import json
          import pandas as pd
          import numpy as np
          from time import sleep
          sleep(2)

          country=[]
          countryCode=[]
          universityid=[]
          uniname=[]
          metricType=[]
          percentage2014=[]
          percentage2015=[]
          percentage2016=[]
          percentage2017=[]
          percentage2018=[]
          value2014=[]
          value2015=[]
          value2016=[]
          value2017=[]
          value2018=[]
          ScholarlyOutput2014=[]
          ScholarlyOutput2015=[]
          ScholarlyOutput2016=[]
          ScholarlyOutput2017=[]
          ScholarlyOutput2018=[]
          CitationCount2014=[]
          CitationCount2015=[]
          CitationCount2016=[]
          CitationCount2017=[]
          CitationCount2018=[]
          CitedPublicationsValue2014=[]
          CitedPublicationsValue2015=[]
          CitedPublicationsValue2016=[]
          CitedPublicationsValue2017=[]
          CitedPublicationsValue2018=[]
          CitedPublicationspercentage2014=[]
          CitedPublicationspercentage2015=[]
          CitedPublicationspercentage2016=[]
          CitedPublicationspercentage2017=[]
          CitedPublicationspercentage2018=[]
          impactType=[]
          CiteScorepercentage2014=[]
          CiteScorepercentage2015=[]
          CiteScorepercentage2016=[]
          CiteScorepercentage2017=[]
          CiteScorepercentage2018=[]
```

```python
CiteScorevalue2014=[]
CiteScorevalue2015=[]
CiteScorevalue2016=[]
CiteScorevalue2017=[]
CiteScorevalue2018=[]
PublicationsInTopJournalPercentilespercentage2014=[]
PublicationsInTopJournalPercentilespercentage2015=[]
PublicationsInTopJournalPercentilespercentage2016=[]
PublicationsInTopJournalPercentilespercentage2017=[]
PublicationsInTopJournalPercentilespercentage2018=[]
PublicationsInTopJournalPercentilesvalue2014=[]
PublicationsInTopJournalPercentilesvalue2015=[]
PublicationsInTopJournalPercentilesvalue2016=[]
PublicationsInTopJournalPercentilesvalue2017=[]
PublicationsInTopJournalPercentilesvalue2018=[]


PublicationsInTopJournalPercentByYear2014=[]
PublicationsInTopJournalPercentByYear2015=[]
PublicationsInTopJournalPercentByYear2016=[]
PublicationsInTopJournalPercentByYear2017=[]
PublicationsInTopJournalPercentByYear2018=[]


url='https://api.elsevier.com/analytics/scival/institution/metrics?metricTypes=Citat:

#for uid in df_id['uid']:
for item in Uidlist[100:]:
#    query = "name(school)"
#    url= "https://api.elsevier.com/metrics/institution/search?name({})&start=0&coun

    resp = requests.get(url.format(item), headers={'Accept':'application/json',
                             'X-ELS-APIKey': "a464321ef5063d696ada17f8c159a44c"})
    parsed=json.dumps(resp.json(),
                 sort_keys=True,
                 indent=4, separators=(',', ': '))
#    print(parsed)
    result=json.loads(parsed)
#    result=parsed[2]
    data=result['results']
#    print(data[0])
    for i in data:
        if i is None:
            pass
        else:
            if i['institution'] is None:
                pass
            else:
                if i['institution']['country'] is not None:
                    country.append(i['institution']['country'])
```

```python
            else:
                country.append("")
            if i['institution']['countryCode'] is not None:
                countryCode.append(i['institution']['countryCode'])
            else:
                countryCode.append("")
            if i['institution']['id'] is not None:
                universityid.append(i['institution']['id'])
            else:
                universityid.append("")
            if i['institution']['name'] is not None:
                uniname.append(i['institution']['name'])
            else:
                uniname.append("")
    if i['metrics'] is None:
        pass
    else:
        if i['metrics'][0] is None:
            pass
        else:
            if i['metrics'][0]['metricType'] is not None:
                metricType.append(i['metrics'][0]['metricType'])
            else:
                metricType.append("")
            if i['metrics'][0]['valueByYear'] is None:
                pass
            else:
                if i['metrics'][0]['valueByYear']['2014'] is not None:
                    CitationCount2014.append(i['metrics'][0]['valueByYear'][
                else:
                    CitationCount2014.append("")
                if i['metrics'][0]['valueByYear']['2015'] is not None:
                    CitationCount2015.append(i['metrics'][0]['valueByYear'][
                else:
                    CitationCount2015.append("")
                if i['metrics'][0]['valueByYear']['2016'] is not None:
                    CitationCount2016.append(i['metrics'][0]['valueByYear'][
                else:
                    CitationCount2016.append("")
                if i['metrics'][0]['valueByYear']['2017'] is not None:
                    CitationCount2017.append(i['metrics'][0]['valueByYear'][
                else:
                    CitationCount2017.append("")
                if i['metrics'][0]['valueByYear']['2018'] is not None:
                    CitationCount2018.append(i['metrics'][0]['valueByYear'][
                else:
                    CitationCount2018.append("")
            if i['metrics'][1] is None:
```

```python
                    pass
                else:
                    if i['metrics'][1]['metricType'] is not None:
                        metricType.append(i['metrics'][1]['metricType'])
                    else:
                        metricType.append("")
                    if i['metrics'][1]['percentageByYear'] is None:
                        pass
                    else:
                        if i['metrics'][1]['percentageByYear']['2014'] is not None:
                            CitedPublicationspercentage2014.append(i['metrics'][1]['
                        else:
                            CitedPublicationspercentage2014.append("")
                        if i['metrics'][1]['percentageByYear']['2015'] is not None:
                            CitedPublicationspercentage2015.append(i['metrics'][1]['
                        else:
                            CitedPublicationspercentage2015.append("")
                        if i['metrics'][1]['percentageByYear']['2016'] is not None:
                            CitedPublicationspercentage2016.append(i['metrics'][1]['
                        else:
                            CitedPublicationspercentage2016.append("")
                        if i['metrics'][1]['percentageByYear']['2017'] is not None:
                            CitedPublicationspercentage2017.append(i['metrics'][1]['
                        else:
                            CitedPublicationspercentage2017.append("")
                        if i['metrics'][1]['percentageByYear']['2018'] is not None:
                            CitedPublicationspercentage2018.append(i['metrics'][1]['
                        else:
                            CitedPublicationspercentage2018.append("")
                    if i['metrics'][1]['valueByYear'] is None:
                        pass
                    else:
                        if i['metrics'][1]['valueByYear']['2014'] is not None:
                            CitedPublicationsValue2014.append(i['metrics'][1]['value
                        else:
                            CitedPublicationsValue2014.append("")
                        if i['metrics'][1]['valueByYear']['2015'] is not None:
                            CitedPublicationsValue2015.append(i['metrics'][1]['value
                        else:
                            CitedPublicationsValue2015.append("")
                        if i['metrics'][1]['valueByYear']['2016'] is not None:
                            CitedPublicationsValue2016.append(i['metrics'][1]['value
                        else:
                            CitedPublicationsValue2016.append("")
                        if i['metrics'][1]['valueByYear']['2017'] is not None:
                            CitedPublicationsValue2017.append(i['metrics'][1]['value
                        else:
                            CitedPublicationsValue2017.append("")
```

```python
                            if i['metrics'][1]['valueByYear']['2018'] is not None:
                                CitedPublicationsValue2018.append(i['metrics'][1]['valuel
                            else:
                                CitedPublicationsValue2018.append("")
                    if i['metrics'][2] is None:
                        pass
                    else:
                        if i['metrics'][2]['metricType'] is not None:
                            metricType.append(i['metrics'][2]['metricType'])
#                             ScholarlyOutput2014.append(i['metrics'][2]['valueByYear'][':
                        else:
                            metricType.append("")
                        if i['metrics'][2]['valueByYear'] is None:
                            pass
                        else:
                            if i['metrics'][2]['valueByYear']['2014'] is not None:
                                ScholarlyOutput2014.append(i['metrics'][2]['valueByYear']
                            else:
                                ScholarlyOutput2014.append("")
                            if i['metrics'][2]['valueByYear']['2015'] is not None:
                                ScholarlyOutput2015.append(i['metrics'][2]['valueByYear']
                            else:
                                ScholarlyOutput2015.append("")
                            if i['metrics'][2]['valueByYear']['2016'] is not None:
                                ScholarlyOutput2016.append(i['metrics'][2]['valueByYear']
                            else:
                                ScholarlyOutput2016.append("")
                            if i['metrics'][2]['valueByYear']['2017'] is not None:
                                ScholarlyOutput2017.append(i['metrics'][2]['valueByYear']
                            else:
                                ScholarlyOutput2017.append("")
                            if i['metrics'][2]['valueByYear']['2018'] is not None:
                                ScholarlyOutput2018.append(i['metrics'][2]['valueByYear']
                            else:
                                ScholarlyOutput2018.append("")
                    if i['metrics'][3] is None:
                        pass
                    else:
                        if i['metrics'][3]['impactType'] is not None:
                            impactType.append(i['metrics'][3]['impactType'])
                        else:
                            impactType.append("")
                        if i['metrics'][3]['metricType'] is not None:
                            metricType.append(i['metrics'][3]['metricType'])
                        else:
                            metricType.append("")
                        if i['metrics'][3]['values'] is None:
                            pass
```

```python
                else:
                    if i['metrics'][3]['values'][0]['percentageByYear'] is None:
                        pass
                    else:
                        if i['metrics'][3]['values'][0]['percentageByYear']['2014
                            CiteScorepercentage2014.append(i['metrics'][3]['value
                        else:
                            CiteScorepercentage2014.append("")
                        if i['metrics'][3]['values'][0]['percentageByYear']['2015
                            CiteScorepercentage2015.append(i['metrics'][3]['value
                        else:
                            CiteScorepercentage2015.append("")
                        if i['metrics'][3]['values'][0]['percentageByYear']['2016
                            CiteScorepercentage2016.append(i['metrics'][3]['value
                        else:
                            CiteScorepercentage2016.append("")
                        if i['metrics'][3]['values'][0]['percentageByYear']['2017
                            CiteScorepercentage2017.append(i['metrics'][3]['value
                        else:
                            CiteScorepercentage2017.append("")
                        if i['metrics'][3]['values'][0]['percentageByYear']['2018
                            CiteScorepercentage2018.append(i['metrics'][3]['value
                        else:
                            CiteScorepercentage2018.append("")
                if i['metrics'][3]['values'][0]['percentageByYear'] is None:
                    pass
                else:
                    if i['metrics'][3]['values'][0]['valueByYear']['2014'] is
                        CiteScorevalue2014.append(i['metrics'][3]['values'][
                    else:
                        CiteScorevalue2014.append("")
                    if i['metrics'][3]['values'][0]['valueByYear']['2015'] is
                        CiteScorevalue2015.append(i['metrics'][3]['values'][
                    else:
                        CiteScorevalue2015.append("")
                    if i['metrics'][3]['values'][0]['valueByYear']['2016'] is
                        CiteScorevalue2016.append(i['metrics'][3]['values'][
                    else:
                        CiteScorevalue2016.append("")
                    if i['metrics'][3]['values'][0]['valueByYear']['2017'] is
                        CiteScorevalue2017.append(i['metrics'][3]['values'][
                    else:
                        CiteScorevalue2017.append("")
                    if i['metrics'][3]['values'][0]['valueByYear']['2018'] is
                        CiteScorevalue2018.append(i['metrics'][3]['values'][
                    else:
                        CiteScorevalue2018.append("")
```

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```python
testfile= pd.DataFrame({'country': country, 'countryCode': countryCode, 'universityi
                        'uniname':uniname, 'CitationCount2014':CitationCount2014,
                        'CitationCount2015':CitationCount2015, 'CitationCount2016':Cit
                        'CitationCount2017':CitationCount2017, 'CitationCount2018':Cit
                        'CitedPublicationspercentage2014':CitedPublicationspercentag
                        'CitedPublicationspercentage2015':CitedPublicationspercentag
                        'CitedPublicationspercentage2016':CitedPublicationspercentag
                        'CitedPublicationspercentage2017':CitedPublicationspercentag
                        'CitedPublicationspercentage2018':CitedPublicationspercentag
                        'CitedPublicationsValue2014':CitedPublicationsValue2014,
                        'CitedPublicationsValue2015':CitedPublicationsValue2015,
                        'CitedPublicationsValue2016':CitedPublicationsValue2016,
                        'CitedPublicationsValue2017':CitedPublicationsValue2017,
                        'CitedPublicationsValue2018':CitedPublicationsValue2018,
                        'ScholarlyOutput2014':ScholarlyOutput2014, 'ScholarlyOutput2(
                        'ScholarlyOutput2016': ScholarlyOutput2016, 'ScholarlyOutput2
                        'ScholarlyOutput2018':ScholarlyOutput2018,
                        'CiteScorepercentage2014':CiteScorepercentage2014,
                        'CiteScorepercentage2015':CiteScorepercentage2015,
                        'CiteScorepercentage2016':CiteScorepercentage2016,
                        'CiteScorepercentage2017':CiteScorepercentage2017,
                        'CiteScorepercentage2018':CiteScorepercentage2018,
                        'CiteScorevalue2014':CiteScorevalue2014,
                        'CiteScorevalue2015':CiteScorevalue2015,
                        'CiteScorevalue2016':CiteScorevalue2016,
                        'CiteScorevalue2017':CiteScorevalue2017,
                        'CiteScorevalue2018':CiteScorevalue2018})

testfile.to_csv("1213_THE_4.csv", index=False)

#     data_dict = data[0]['institution']
#     data_dict_2 = data[0]['institution']
#     df_file_2=pd.DataFrame(data_dict_2)
#     df_file_2.to_csv("File_3.csv", index=False)
#     data_df=pd.DataFrame(data=data_dict.value())
#     data_df.to_csv("File.csv", index=False)
#     print(data[0]['institution']['name'])
#     print(data[0]) # get 'MetricsType'
#     inst=data[0]['institution']
#     metrics=data[0]['metrics']
#     df_test = pd.DataFrame({'institution':inst, 'metrics':metrics})
#     df_test.to_csv("Test_Inst.csv", index=False)
#     df=pd.DataFrame(data[0]['metrics'][0])
#     df.to_csv("Test_MetricsType.csv", index=False)
#     metrics=result[1]['metrics']

#     print(data)
#     print(data)
```

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```
#    df=pd.DataFrame(parsed)
#    df.to_csv("Test_DataFrame.csv", index=False)
```

In [143]: filename='1213_THE_{}.csv'

```
for i in range(1,5):
    print(filename.format(i))
```

1213_THE_1.csv
1213_THE_2.csv
1213_THE_3.csv
1213_THE_4.csv

In [185]: chuck=[]

```
filename='1213_THE_{}.csv'

for i in range(1,5):
    chuck.append(pd.read_csv(filename.format(i)))

total_df2=pd.concat(chuck, ignore_index=True)

total_df2.head()

total_df2.to_csv("Updated_Uni_Metrics.csv", index=False)
```

In [170]: chuck=[]

```
filename='1213_THE_{}.csv'

for i in range(1,5):
    chuck.append(pd.read_csv(filename.format(i)))

total_df=pd.concat(chuck, axis=1)

total_df.head()

changedtype=lambda x: int(x[:])
```

In [181]: total_df.universityid.fillna(0)

Out[181]:   universityid universityid universityid universityid
        0   315091.0   701361.0   215004.0   208081
        1   508092.0   713898.0   508358.0   201029
        2   508021.0   705322.0   508166.0   325003
```

3	315068.0	705181.0	707593.0	501017
4	508219.0	314260.0	315074.0	325013
5	508111.0	703778.0	501036.0	309021
6	508191.0	602005.0	706768.0	315110
7	508076.0	327071.0	205001.0	508305
8	508383.0	708434.0	205002.0	702176
9	508270.0	331086.0	708595.0	508122
10	315018.0	403020.0	205006.0	501028
11	508331.0	505039.0	332004.0	309072
12	714942.0	704702.0	501016.0	315067
13	706736.0	329013.0	713505.0	306016
14	508529.0	701110.0	309054.0	310021
15	714855.0	508726.0	712082.0	310011
16	714951.0	715459.0	309076.0	508256
17	508094.0	602050.0	708670.0	203060
18	702506.0	508046.0	701758.0	315064
19	303017.0	501048.0	708669.0	310010
20	706609.0	508047.0	713788.0	508363
21	331048.0	508053.0	708668.0	508032
22	203307.0	508175.0	701761.0	315097
23	700850.0	203209.0	701759.0	303004
24	331052.0	203152.0	700486.0	508272
25	0.0	0.0	708677.0	205002
26	0.0	0.0	700483.0	325006
27	0.0	0.0	704842.0	703235
28	0.0	0.0	708681.0	325016
29	0.0	0.0	714057.0	312052
...	...	...	...	...
1132	0.0	0.0	0.0	705106
1133	0.0	0.0	0.0	410022
1134	0.0	0.0	0.0	410044
1135	0.0	0.0	0.0	410052
1136	0.0	0.0	0.0	410024
1137	0.0	0.0	0.0	208024
1138	0.0	0.0	0.0	214010
1139	0.0	0.0	0.0	329015
1140	0.0	0.0	0.0	329007
1141	0.0	0.0	0.0	329003
1142	0.0	0.0	0.0	705035
1143	0.0	0.0	0.0	329025
1144	0.0	0.0	0.0	704848
1145	0.0	0.0	0.0	703985
1146	0.0	0.0	0.0	203069
1147	0.0	0.0	0.0	331030
1148	0.0	0.0	0.0	714884
1149	0.0	0.0	0.0	208026
1150	0.0	0.0	0.0	209022
1151	0.0	0.0	0.0	405002

```
1152              0.0            0.0            0.0       503001
1153              0.0            0.0            0.0       104007
1154              0.0            0.0            0.0       208035
1155              0.0            0.0            0.0       203097
1156              0.0            0.0            0.0       208030
1157              0.0            0.0            0.0       208038
1158              0.0            0.0            0.0       703099
1159              0.0            0.0            0.0       705124
1160              0.0            0.0            0.0       204001
1161              0.0            0.0            0.0       508335

[1162 rows x 4 columns]

In [182]: total_df.head()

Out[182]:          country countryCode  universityid  \
         0  United Kingdom         GBR       315091.0
         1   United States         USA       508092.0
         2   United States         USA       508021.0
         3  United Kingdom         GBR       315068.0
         4   United States         USA       508219.0


                                              uniname  CitationCount2014  \
         0                         University of Oxford          355751.0
         1  Jet Propulsion Laboratory, California Institut...      39797.0
         2              California Institute of Technology        129593.0
         3                    University of Cambridge          260407.0
         4                        Stanford University          404346.0

            CitationCount2015  CitationCount2016  CitationCount2017  CitationCount2018  \
         0           313129.0           238271.0           149907.0            75747.0
         1            30488.0            32933.0            18670.0             9264.0
         2            97259.0            90365.0            58679.0            29486.0
         3           236169.0           197754.0           127682.0            64830.0
         4           363567.0           282005.0           194136.0            95069.0

            CitedPublicationspercentage2014  ...  CiteScorepercentage2014  \
         0                        86.504585  ...                 3.975581
         1                        78.933620  ...                 5.387561
         2                        85.711120  ...                 7.383966
         3                        87.955536  ...                 3.898226
         4                        87.081640  ...                 6.278291

            CiteScorepercentage2015  CiteScorepercentage2016  CiteScorepercentage2017  \
         0                 2.919932                 3.363425                 3.181687
         1                 4.998725                 5.137615                 4.487027
         2                 7.643185                 6.673326                 6.509327
         3                 3.769248                 4.672479                 4.187925
```

```
4                      5.832855                    5.982447                      5.228088

   CiteScorepercentage2018  CiteScorevalue2014  CiteScorevalue2015  \
0                 3.027766               267.0               190.0
1                 5.246510               408.0               392.0
2                 6.352154               350.0               383.0
3                 4.584467               167.0               164.0
4                 5.670861               319.0               305.0

   CiteScorevalue2016  CiteScorevalue2017  CiteScorevalue2018
0               231.0               221.0               217.0
1               420.0               377.0               481.0
2               334.0               342.0               342.0
3               209.0               197.0               219.0
4               334.0               306.0               347.0

[5 rows x 136 columns]
```

In [183]: total_df.to_csv("Updated_THE_Uni_Metrics.csv", index=False)

In [26]: from sklearn.cluster import KMeans

In [11]: import requests
         url = "https://api.elsevier.com/metrics/institution/scopus_id/60027165?apiKey=dcfb521
         #url = "https://api.elsevier.com/content/abstract/scopus_id/60027165?apiKey=2bbd32fdf
         response = requests.get(url)
         print(response.headers)

{'allow': 'GET', 'Content-Encoding': 'gzip', 'Content-Type': 'text/html;charset=utf-8', 'Date'

In [36]: ## read in all the spreadsheets

         import pandas as pd

         First_5 = pd.read_csv(r"C:\Users\jchen148\THE Rankings\THE_Uni_First5.csv", delimiter=
         print(type(First_5))

         Start_6 = pd.read_csv(r"C:\Users\jchen148\THE Rankings\THE_Uni_6.csv", delimiter=",")

         Start_11 = pd.read_csv(r"C:\Users\jchen148\THE Rankings\THE_Uni_11.csv", delimiter=",'

         Start_311 = pd.read_csv(r"C:\Users\jchen148\THE Rankings\THE_Uni_311.csv", delimiter="

         combined_df =pd.concat([First_5,Start_6,Start_11,Start_311])

<class 'pandas.core.frame.DataFrame'>
```

```
In [25]: cd "C:\Users\jchen148\THE Rankings\Json files"

C:\Users\jchen148\THE Rankings\Json files


In [27]: import json

         with open("Test_THE_Country", 'w') as fd:
             fd.write(json.dumps(data_loaded, sort_keys=True, indent=4, separators=(',', ': ')]

In [29]: with open("Test_THE_Country", 'r') as fd:
             University_data=json.load(fd)

In [13]: # University SciVal institution id
         print(u_id)

['203212', '203166', '706710', '203440', '209064', '207019', '331008', '207104', '217090', '217

In [14]: # countryCode

         print(country)

['BWA', 'IND', 'KEN', 'ARE', 'ARE', 'CHN', 'SDN', 'IND', 'CHN', 'IND', 'ARE', 'TWN']
```