Mini Project: World Indicator - Refuge Data Analysis & Visualization

```
In [1]: #Import Libraries
    import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    import seaborn as sns

In [2]: # Read the Dataset into a Dataframe
    WDI = pd.read_csv('WDIData.csv')

In [3]: #Explorin the data
    WDI.shape

Out[3]: (421080, 64)
```

In [4]: #Explorin the data
WDI.head()

Out[4]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	1963	1964	1965	
0	Arab World	ARB	2005 PPP conversion factor, GDP (LCU per inter	PA.NUS.PPP.05	NaN	NaN	NaN	NaN	NaN	NaN	
1	Arab World	ARB	2005 PPP conversion factor, private consumptio	PA.NUS.PRVT.PP.05	NaN	NaN	NaN	NaN	NaN	NaN	
2	Arab World	ARB	Access to clean fuels and technologies for coo	EG.CFT.ACCS.ZS	NaN	NaN	NaN	NaN	NaN	NaN	
3	Arab World	ARB	Access to electricity (% of population)	EG.ELC.ACCS.ZS	NaN	NaN	NaN	NaN	NaN	NaN	
4	Arab World	ARB	Access to electricity, rural (% of rural popul	EG.ELC.ACCS.RU.ZS	NaN	NaN	NaN	NaN	NaN	NaN	

5 rows × 64 columns

```
In [5]: #Explorin the data
WDI.columns
```

Data Cleaning / Transformation for analysis

1. column headers are values, not variable names

We will perform Data cleaning steps to rectify the issue

```
melted data = WDI.melt(id vars=['Country Name', 'Country Code', 'Indicator Nam
In [6]:
          e', 'Indicator Code'l
                                    ,var name='Year'
                                    ,value name='Value')
          melted_data = melted_data[melted_data.Year!='Unnamed: 63']
In [7]:
In [8]:
          melted data.head()
Out[8]:
                Country
                            Country
                                                      Indicator Name
                                                                           Indicator Code
                                                                                         Year Value
                  Name
                              Code
                                        2005 PPP conversion factor, GDP
              Arab World
                               ARB
                                                                          PA.NUS.PPP.05
                                                                                        1960
                                                                                                 NaN
                                                      (LCU per inter...
                                      2005 PPP conversion factor, private
              Arab World
                               ARB
                                                                      PA.NUS.PRVT.PP.05
                                                                                         1960
                                                                                                 NaN
                                                        consumptio...
                                              Access to clean fuels and
              Arab World
                               ARB
                                                                         EG.CFT.ACCS.ZS
                                                                                         1960
                                                                                                NaN
                                                 technologies for coo...
              Arab World
                               ARB
                                     Access to electricity (% of population)
                                                                        EG.ELC.ACCS.ZS
                                                                                         1960
                                                                                                 NaN
                                      Access to electricity, rural (% of rural
              Arab World
                               ARB
                                                                     EG.ELC.ACCS.RU.ZS
                                                                                         1960
                                                                                                NaN
                                                             popul...
In [9]:
          melted data.columns
Out[9]: Index(['Country Name', 'Country Code', 'Indicator Name', 'Indicator Code',
                   Year', 'Value'],
                 dtvpe='object')
```

Now Lets filter the Data set with indicators picked for analysis

Now Lets filter the Data set with Only Valid countries

```
In [13]:
         country Filter 1 = (Asylum Refugee Data['Country Name'].str.contains( 'Afghani
         stan')
         Asylum Refugee Data['Country Name'].str.contains( 'Albania') |
         Asylum Refugee Data['Country Name'].str.contains('Algeria') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'American Samoa') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Andorra') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Angola') |
         Asylum Refugee Data['Country Name'].str.contains( 'Antigua and Barbuda') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Argentina') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Armenia') |
         Asylum Refugee Data['Country Name'].str.contains('Aruba') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Australia') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Austria') |
         Asylum Refugee Data['Country Name'].str.contains('Azerbaijan') |
         Asylum Refugee Data['Country Name'].str.contains( 'Bahamas The') |
         Asylum_Refugee_Data['Country Name'].str.contains(
                                                            'Bahrain')
         Asylum Refugee Data['Country Name'].str.contains( 'Bangladesh') |
         Asylum Refugee Data['Country Name'].str.contains(
                                                            'Barbados')
         Asylum_Refugee_Data['Country Name'].str.contains(
                                                           'Belarus') |
         Asylum Refugee Data['Country Name'].str.contains( 'Belgium') |
         Asylum Refugee Data['Country Name'].str.contains(
                                                            'Belize') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Benin') |
         Asylum Refugee Data['Country Name'].str.contains(
                                                            'Bermuda')
         Asylum_Refugee_Data['Country Name'].str.contains( 'Bhutan') |
         Asylum Refugee Data['Country Name'].str.contains( 'Bolivia') |
         Asylum Refugee Data['Country Name'].str.contains('Bosnia and Herzegovina') |
         Asylum Refugee Data['Country Name'].str.contains( 'Botswana') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Brazil') |
         Asylum Refugee Data['Country Name'].str.contains( 'British Virgin Islands') |
         Asylum Refugee Data['Country Name'].str.contains( 'Brunei Darussalam') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Bulgaria') |
         Asylum Refugee Data['Country Name'].str.contains( 'Burkina Faso') |
         Asylum Refugee Data['Country Name'].str.contains( 'Burundi') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Cabo Verde') |
         Asylum_Refugee_Data['Country Name'].str.contains('Cambodia') |
         Asylum_Refugee_Data['Country Name'].str.contains('Cameroon') |
         Asylum Refugee Data['Country Name'].str.contains( 'Canada')
         Asylum_Refugee_Data['Country Name'].str.contains( 'Cayman Islands') |
         Asylum Refugee Data['Country Name'].str.contains( 'Central African Republic')
         Asylum_Refugee_Data['Country Name'].str.contains( 'Chad') |
         Asylum Refugee Data['Country Name'].str.contains( 'Channel Islands') |
         Asylum_Refugee_Data['Country Name'].str.contains('Chile')
         Asylum Refugee Data['Country Name'].str.contains( 'China') |
         Asylum Refugee Data['Country Name'].str.contains('Colombia') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Comoros') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Congo Dem. Rep.') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Congo Rep.')
         Asylum Refugee Data['Country Name'].str.contains( 'Costa Rica')
         Asylum_Refugee_Data['Country Name'].str.contains( "Cote d'Ivoire") |
         Asylum Refugee Data['Country Name'].str.contains('Croatia') |
         Asylum Refugee Data['Country Name'].str.contains('Cuba')
         Asylum_Refugee_Data['Country Name'].str.contains( 'Curacao') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Cyprus') |
         Asylum_Refugee_Data['Country Name'].str.contains( 'Czech Republic') |
         Asylum Refugee Data['Country Name'].str.contains( 'Denmark') |
```

```
Asylum Refugee Data['Country Name'].str.contains( 'Djibouti') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Dominica') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Dominican Republic') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Ecuador') |
Asylum Refugee Data['Country Name'].str.contains( 'Egypt Arab Rep.') |
Asylum_Refugee_Data['Country Name'].str.contains( 'El Salvador') |
Asylum Refugee Data['Country Name'].str.contains( 'Equatorial Guinea') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Eritrea') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Estonia') |
Asylum Refugee Data['Country Name'].str.contains( 'Eswatini') |
Asylum Refugee Data['Country Name'].str.contains( 'Ethiopia') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Faroe Islands') |
Asylum Refugee Data['Country Name'].str.contains( 'Fiji') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Finland') |
Asylum_Refugee_Data['Country Name'].str.contains( 'France') |
Asylum Refugee Data['Country Name'].str.contains( 'French Polynesia') |
Asylum Refugee Data['Country Name'].str.contains( 'Gabon') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Gambia The')
Asylum Refugee Data['Country Name'].str.contains('Georgia') |
Asylum Refugee Data['Country Name'].str.contains( 'Germany') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Ghana')
Asylum Refugee Data['Country Name'].str.contains( 'Gibraltar') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Greece')
Asylum_Refugee_Data['Country Name'].str.contains( 'Greenland') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Grenada')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Guam')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Guatemala') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Guinea')
Asylum Refugee Data['Country Name'].str.contains( 'Guinea-Bissau') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Guyana')
                                                  'Haiti') |
Asylum_Refugee_Data['Country Name'].str.contains(
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Honduras')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Hong Kong SAR China')
Asylum Refugee Data['Country Name'].str.contains( 'Hungary') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Iceland') |
Asylum_Refugee_Data['Country Name'].str.contains( 'India') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Indonesia')
Asylum_Refugee_Data['Country Name'].str.contains( 'Iran Islamic Rep.') |
Asylum Refugee Data['Country Name'].str.contains( 'Iraq') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Ireland') |
Asylum Refugee Data['Country Name'].str.contains( 'Isle of Man') |
Asylum Refugee Data['Country Name'].str.contains( 'Israel') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Italy') |
Asylum Refugee Data['Country Name'].str.contains( 'Jamaica') |
Asylum Refugee Data['Country Name'].str.contains( 'Japan') |
Asylum Refugee Data['Country Name'].str.contains( 'Jordan') |
Asylum_Refugee_Data['Country Name'].str.contains('Kazakhstan') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Kenya') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Kiribati') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Korea Dem. People's Rep.')
Asylum_Refugee_Data['Country Name'].str.contains( 'Korea Rep.') |
Asylum_Refugee_Data['Country Name'].str.contains('Kosovo') |
Asylum Refugee Data['Country Name'].str.contains( 'Kuwait') |
Asylum_Refugee_Data['Country Name'].str.contains('Kyrgyz Republic') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Lao PDR') |
Asylum Refugee Data['Country Name'].str.contains( 'Latvia') |
```

```
Asylum Refugee Data['Country Name'].str.contains( 'Lebanon') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Lesotho')
Asylum_Refugee_Data['Country Name'].str.contains( 'Liberia') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Libya') |
Asylum Refugee Data['Country Name'].str.contains( 'Liechtenstein') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Lithuania') |
Asylum Refugee Data['Country Name'].str.contains( 'Luxembourg') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Macao SAR China') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Madagascar')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Malawi')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Malaysia')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Maldives')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Mali')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Malta')
Asylum_Refugee_Data['Country Name'].str.contains( 'Marshall Islands') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Mauritania') |
Asylum Refugee Data['Country Name'].str.contains( 'Mauritius') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Mexico')
                                                  'Micronesia Fed. Sts.')
Asylum Refugee Data['Country Name'].str.contains(
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Moldova')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Monaco')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Mongolia')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Montenegro')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Morocco')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Mozambique')
                                                  'Myanmar')
Asylum_Refugee_Data['Country Name'].str.contains(
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Namibia')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Nauru')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Nepal')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Netherlands')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'New Caledonia')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'New Zealand')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Nicaragua') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Niger')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Nigeria')
Asylum_Refugee_Data['Country Name'].str.contains( 'North Macedonia')
Asylum_Refugee_Data['Country Name'].str.contains( 'Northern Mariana Islands')
Asylum Refugee Data['Country Name'].str.contains( 'Norway') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Oman') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Pakistan') |
Asylum Refugee Data['Country Name'].str.contains( 'Palau') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Panama') |
Asylum Refugee Data['Country Name'].str.contains( 'Papua New Guinea') |
Asylum Refugee Data['Country Name'].str.contains( 'Paraguay') |
Asylum Refugee Data['Country Name'].str.contains( 'Peru') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Philippines')
Asylum Refugee Data['Country Name'].str.contains( 'Poland') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Portugal') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Puerto Rico') |
Asylum Refugee Data['Country Name'].str.contains('Qatar') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Romania') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Russian Federation') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Rwanda')
Asylum_Refugee_Data['Country Name'].str.contains( 'Samoa') |
Asylum_Refugee_Data['Country Name'].str.contains( 'San Marino') |
Asylum Refugee Data['Country Name'].str.contains( 'Sao Tome and Principe') |
```

```
Asylum Refugee Data['Country Name'].str.contains( 'Saudi Arabia') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Senegal') |
Asylum Refugee Data['Country Name'].str.contains( 'Serbia') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Seychelles') |
Asylum Refugee Data['Country Name'].str.contains( 'Sierra Leone') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Singapore') |
Asylum Refugee Data['Country Name'].str.contains( 'Sint Maarten (Dutch part)')
Asylum_Refugee_Data['Country Name'].str.contains( 'Slovak Republic') |
Asylum_Refugee_Data['Country Name'].str.contains('Slovenia') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Solomon Islands')
Asylum_Refugee_Data['Country Name'].str.contains( 'Somalia') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'South Africa')
Asylum_Refugee_Data['Country Name'].str.contains( 'South Sudan') |
Asylum Refugee Data['Country Name'].str.contains( 'Spain') |
Asylum Refugee Data['Country Name'].str.contains( 'Sri Lanka') |
Asylum Refugee Data['Country Name'].str.contains( 'St. Kitts and Nevis') |
Asylum Refugee Data['Country Name'].str.contains( 'St. Lucia') |
Asylum Refugee Data['Country Name'].str.contains( 'St. Martin (French part)')
Asylum Refugee Data['Country Name'].str.contains( 'St. Vincent and the Grenadi
nes')
Asylum Refugee Data['Country Name'].str.contains( 'Sudan') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Suriname') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Sweden')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Switzerland')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Syrian Arab Republic')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Tajikistan')
Asylum Refugee Data['Country Name'].str.contains('Tanzania')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Thailand')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Timor-Leste')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Togo')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Tonga')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Trinidad and Tobago')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Tunisia') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Turkey')
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Turkmenistan')
Asylum Refugee Data['Country Name'].str.contains( 'Turks and Caicos Islands')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Tuvalu')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Uganda')
Asylum Refugee Data['Country Name'].str.contains(
                                                  'Ukraine')
Asylum_Refugee_Data['Country Name'].str.contains( 'United Arab Emirates') |
Asylum Refugee Data['Country Name'].str.contains( 'United Kingdom') |
Asylum Refugee Data['Country Name'].str.contains(
                                                  'United States') |
Asylum Refugee Data['Country Name'].str.contains( 'Uruguay') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Uzbekistan')
Asylum Refugee Data['Country Name'].str.contains( 'Vanuatu') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Venezuela RB') |
Asylum_Refugee_Data['Country Name'].str.contains(
                                                  'Vietnam') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Virgin Islands (U.S.)') |
Asylum_Refugee_Data['Country Name'].str.contains( 'West Bank and Gaza') |
Asylum_Refugee_Data['Country Name'].str.contains( 'Yemen Rep.') |
Asylum Refugee Data['Country Name'].str.contains( 'Zambia')
Asylum_Refugee_Data['Country Name'].str.contains( 'Zimbabwe')
```

- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 6: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.
- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 6: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.
- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 6: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.

```
In [14]:
         country Filter 2 = (
         Origin_Refugee_Data['Country Name'].str.contains( 'Afghanistan') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Albania')
         Origin_Refugee_Data['Country Name'].str.contains( 'Algeria') |
         Origin_Refugee_Data['Country Name'].str.contains( 'American Samoa') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Andorra') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Angola') |
         Origin Refugee Data['Country Name'].str.contains( 'Antigua and Barbuda') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Argentina') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Armenia') |
         Origin Refugee Data['Country Name'].str.contains('Aruba') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Australia') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Austria') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Azerbaijan') |
         Origin Refugee Data['Country Name'].str.contains( 'Bahamas The') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Bahrain') |
         Origin Refugee Data['Country Name'].str.contains( 'Bangladesh') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Barbados') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Belarus') |
         Origin Refugee Data['Country Name'].str.contains( 'Belgium') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Belize') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Benin') |
         Origin Refugee Data['Country Name'].str.contains('Bermuda') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Bhutan') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Bolivia') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Bosnia and Herzegovina') |
         Origin Refugee Data['Country Name'].str.contains( 'Botswana') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Brazil') |
         Origin Refugee Data['Country Name'].str.contains( 'British Virgin Islands') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Brunei Darussalam') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Bulgaria') |
         Origin Refugee Data['Country Name'].str.contains( 'Burkina Faso') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Burundi') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cabo Verde') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cambodia') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cameroon') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Canada') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cayman Islands') |
         Origin Refugee Data['Country Name'].str.contains( 'Central African Republic')
         Origin_Refugee_Data['Country Name'].str.contains( 'Chad') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Channel Islands') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Chile') |
         Origin_Refugee_Data['Country Name'].str.contains('China') |
         Origin Refugee Data['Country Name'].str.contains('Colombia') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Comoros') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Congo Dem. Rep.') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Congo Rep.')
         Origin Refugee Data['Country Name'].str.contains( 'Costa Rica') |
         Origin_Refugee_Data['Country Name'].str.contains( "Cote d'Ivoire") |
         Origin Refugee Data['Country Name'].str.contains('Croatia') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cuba') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Curacao') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Cyprus') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Czech Republic') |
         Origin_Refugee_Data['Country Name'].str.contains( 'Denmark') |
```

```
Origin_Refugee_Data['Country Name'].str.contains( 'Djibouti') |
Origin_Refugee_Data['Country Name'].str.contains( 'Dominica') |
Origin_Refugee_Data['Country Name'].str.contains( 'Dominican Republic') |
Origin_Refugee_Data['Country Name'].str.contains( 'Ecuador') |
Origin Refugee Data['Country Name'].str.contains( 'Egypt Arab Rep.') |
Origin_Refugee_Data['Country Name'].str.contains( 'El Salvador') |
Origin_Refugee_Data['Country Name'].str.contains( 'Equatorial Guinea') |
Origin_Refugee_Data['Country Name'].str.contains( 'Eritrea') |
Origin_Refugee_Data['Country Name'].str.contains( 'Estonia') |
Origin Refugee Data['Country Name'].str.contains( 'Eswatini') |
Origin_Refugee_Data['Country Name'].str.contains( 'Ethiopia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Faroe Islands') |
Origin Refugee Data['Country Name'].str.contains( 'Fiji') |
Origin_Refugee_Data['Country Name'].str.contains( 'Finland') |
Origin_Refugee_Data['Country Name'].str.contains( 'France') |
Origin_Refugee_Data['Country Name'].str.contains( 'French Polynesia') |
Origin Refugee Data['Country Name'].str.contains( 'Gabon') |
Origin_Refugee_Data['Country Name'].str.contains( 'Gambia The') |
Origin Refugee Data['Country Name'].str.contains('Georgia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Germany') |
Origin_Refugee_Data['Country Name'].str.contains( 'Ghana') |
Origin Refugee Data['Country Name'].str.contains( 'Gibraltar') |
Origin_Refugee_Data['Country Name'].str.contains( 'Greece') |
Origin_Refugee_Data['Country Name'].str.contains( 'Greenland') |
Origin_Refugee_Data['Country Name'].str.contains( 'Grenada') |
Origin_Refugee_Data['Country Name'].str.contains( 'Guam') |
Origin_Refugee_Data['Country Name'].str.contains('Guatemala') |
Origin_Refugee_Data['Country Name'].str.contains( 'Guinea') |
Origin Refugee Data['Country Name'].str.contains( 'Guinea-Bissau') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Guyana')
Origin_Refugee_Data['Country Name'].str.contains( 'Haiti') |
Origin_Refugee_Data['Country Name'].str.contains( 'Honduras') |
Origin_Refugee_Data['Country Name'].str.contains( 'Hong Kong SAR China') |
Origin_Refugee_Data['Country Name'].str.contains( 'Hungary') |
Origin Refugee Data['Country Name'].str.contains(
                                                  'Iceland') |
Origin_Refugee_Data['Country Name'].str.contains( 'India') |
Origin_Refugee_Data['Country Name'].str.contains( 'Indonesia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Iran Islamic Rep.') |
Origin Refugee Data['Country Name'].str.contains( 'Iraq') |
Origin_Refugee_Data['Country Name'].str.contains( 'Ireland') |
Origin Refugee Data['Country Name'].str.contains( 'Isle of Man') |
Origin_Refugee_Data['Country Name'].str.contains( 'Israel') |
Origin_Refugee_Data['Country Name'].str.contains( 'Italy') |
Origin Refugee Data['Country Name'].str.contains( 'Jamaica') |
Origin_Refugee_Data['Country Name'].str.contains( 'Japan') |
Origin Refugee Data['Country Name'].str.contains( 'Jordan') |
Origin_Refugee_Data['Country Name'].str.contains('Kazakhstan') |
Origin_Refugee_Data['Country Name'].str.contains( 'Kenya') |
Origin_Refugee_Data['Country Name'].str.contains( 'Kiribati') |
Origin_Refugee_Data['Country Name'].str.contains( 'Korea Dem. People's Rep.')
Origin_Refugee_Data['Country Name'].str.contains( 'Korea Rep.') |
Origin_Refugee_Data['Country Name'].str.contains('Kosovo') |
Origin Refugee Data['Country Name'].str.contains('Kuwait') |
Origin_Refugee_Data['Country Name'].str.contains( 'Kyrgyz Republic') |
Origin_Refugee_Data['Country Name'].str.contains( 'Lao PDR') |
Origin_Refugee_Data['Country Name'].str.contains( 'Latvia') |
```

```
Origin_Refugee_Data['Country Name'].str.contains( 'Lebanon') |
Origin_Refugee_Data['Country Name'].str.contains( 'Lesotho') |
Origin_Refugee_Data['Country Name'].str.contains( 'Liberia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Libya') |
Origin_Refugee_Data['Country Name'].str.contains( 'Liechtenstein') |
Origin_Refugee_Data['Country Name'].str.contains( 'Lithuania') |
Origin_Refugee_Data['Country Name'].str.contains( 'Luxembourg') |
Origin_Refugee_Data['Country Name'].str.contains( 'Macao SAR China') |
Origin_Refugee_Data['Country Name'].str.contains( 'Madagascar') |
Origin_Refugee_Data['Country Name'].str.contains( 'Malawi') |
Origin_Refugee_Data['Country Name'].str.contains( 'Malaysia')
Origin_Refugee_Data['Country Name'].str.contains( 'Maldives') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Mali')
Origin_Refugee_Data['Country Name'].str.contains( 'Malta') |
Origin_Refugee_Data['Country Name'].str.contains( 'Marshall Islands') |
Origin_Refugee_Data['Country Name'].str.contains( 'Mauritania') |
Origin_Refugee_Data['Country Name'].str.contains( 'Mauritius') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Mexico')
Origin_Refugee_Data['Country Name'].str.contains( 'Micronesia Fed. Sts.') |
Origin_Refugee_Data['Country Name'].str.contains( 'Moldova') |
Origin_Refugee_Data['Country Name'].str.contains( 'Monaco') |
Origin_Refugee_Data['Country Name'].str.contains( 'Mongolia') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Montenegro')
Origin_Refugee_Data['Country Name'].str.contains( 'Morocco') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Mozambique')
Origin_Refugee_Data['Country Name'].str.contains( 'Myanmar') |
Origin_Refugee_Data['Country Name'].str.contains( 'Namibia') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Nauru')
Origin_Refugee_Data['Country Name'].str.contains( 'Nepal') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Netherlands')
Origin_Refugee_Data['Country Name'].str.contains( 'New Caledonia') |
Origin_Refugee_Data['Country Name'].str.contains( 'New Zealand') |
Origin_Refugee_Data['Country Name'].str.contains( 'Nicaragua') |
Origin_Refugee_Data['Country Name'].str.contains( 'Niger') |
Origin_Refugee_Data['Country Name'].str.contains( 'Nigeria') |
Origin_Refugee_Data['Country Name'].str.contains( 'North Macedonia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Northern Mariana Islands')
Origin_Refugee_Data['Country Name'].str.contains( 'Norway') |
Origin_Refugee_Data['Country Name'].str.contains( 'Oman') |
Origin_Refugee_Data['Country Name'].str.contains( 'Pakistan') |
Origin_Refugee_Data['Country Name'].str.contains( 'Palau') |
Origin_Refugee_Data['Country Name'].str.contains( 'Panama') |
Origin_Refugee_Data['Country Name'].str.contains( 'Papua New Guinea') |
Origin_Refugee_Data['Country Name'].str.contains( 'Paraguay') |
Origin_Refugee_Data['Country Name'].str.contains( 'Peru') |
Origin_Refugee_Data['Country Name'].str.contains( 'Philippines') |
Origin_Refugee_Data['Country Name'].str.contains( 'Poland') |
Origin_Refugee_Data['Country Name'].str.contains( 'Portugal') |
Origin_Refugee_Data['Country Name'].str.contains( 'Puerto Rico') |
Origin_Refugee_Data['Country Name'].str.contains( 'Qatar') |
Origin_Refugee_Data['Country Name'].str.contains('Romania') |
Origin_Refugee_Data['Country Name'].str.contains( 'Russian Federation') |
Origin_Refugee_Data['Country Name'].str.contains( 'Rwanda') |
Origin_Refugee_Data['Country Name'].str.contains( 'Samoa') |
Origin_Refugee_Data['Country Name'].str.contains( 'San Marino') |
Origin_Refugee_Data['Country Name'].str.contains( 'Sao Tome and Principe') |
```

```
Origin Refugee Data['Country Name'].str.contains( 'Saudi Arabia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Senegal') |
Origin_Refugee_Data['Country Name'].str.contains( 'Serbia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Seychelles') |
Origin Refugee Data['Country Name'].str.contains( 'Sierra Leone') |
Origin_Refugee_Data['Country Name'].str.contains( 'Singapore') |
Origin Refugee Data['Country Name'].str.contains( 'Sint Maarten (Dutch part)')
Origin_Refugee_Data['Country Name'].str.contains( 'Slovak Republic') |
Origin Refugee Data['Country Name'].str.contains( 'Slovenia') |
Origin Refugee Data['Country Name'].str.contains(
                                                  'Solomon Islands') |
Origin_Refugee_Data['Country Name'].str.contains( 'Somalia') |
Origin Refugee Data['Country Name'].str.contains( 'South Africa') |
Origin_Refugee_Data['Country Name'].str.contains( 'South Sudan') |
Origin_Refugee_Data['Country Name'].str.contains( 'Spain') |
Origin_Refugee_Data['Country Name'].str.contains( 'Sri Lanka') |
Origin Refugee Data['Country Name'].str.contains( 'St. Kitts and Nevis') |
Origin_Refugee_Data['Country Name'].str.contains( 'St. Lucia') |
Origin Refugee Data['Country Name'].str.contains( 'St. Martin (French part)')
Origin_Refugee_Data['Country Name'].str.contains( 'St. Vincent and the Grenadi
nes')
Origin Refugee Data['Country Name'].str.contains( 'Sudan') |
Origin_Refugee_Data['Country Name'].str.contains( 'Suriname') |
Origin_Refugee_Data['Country Name'].str.contains('Sweden') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Switzerland')
Origin Refugee Data['Country Name'].str.contains( 'Syrian Arab Republic') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Tajikistan') |
Origin Refugee Data['Country Name'].str.contains( 'Tanzania') |
Origin Refugee Data['Country Name'].str.contains(
                                                  'Thailand')
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Timor-Leste')
Origin Refugee Data['Country Name'].str.contains(
                                                  'Togo')
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Tonga')
Origin_Refugee_Data['Country Name'].str.contains( 'Trinidad and Tobago') |
Origin Refugee Data['Country Name'].str.contains(
                                                  'Tunisia')
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Turkey')
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Turkmenistan') |
Origin_Refugee_Data['Country Name'].str.contains( 'Turks and Caicos Islands')
Origin Refugee Data['Country Name'].str.contains( 'Tuvalu') |
Origin Refugee Data['Country Name'].str.contains( 'Uganda') |
Origin Refugee Data['Country Name'].str.contains('Ukraine') |
Origin_Refugee_Data['Country Name'].str.contains( 'United Arab Emirates') |
Origin Refugee Data['Country Name'].str.contains( 'United Kingdom') |
Origin_Refugee_Data['Country Name'].str.contains( 'United States') |
Origin Refugee Data['Country Name'].str.contains( 'Uruguay') |
Origin_Refugee_Data['Country Name'].str.contains(
                                                  'Uzbekistan')
Origin_Refugee_Data['Country Name'].str.contains( 'Vanuatu') |
Origin_Refugee_Data['Country Name'].str.contains( 'Venezuela RB') |
Origin_Refugee_Data['Country Name'].str.contains( 'Vietnam') |
Origin_Refugee_Data['Country Name'].str.contains( 'Virgin Islands (U.S.)') |
Origin_Refugee_Data['Country Name'].str.contains( 'West Bank and Gaza') |
Origin_Refugee_Data['Country Name'].str.contains( 'Yemen Rep.') |
Origin Refugee Data['Country Name'].str.contains('Zambia') |
Origin_Refugee_Data['Country Name'].str.contains( 'Zimbabwe')
```

)

- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 7: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.
- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 7: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.
- C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:21
- 7: UserWarning: This pattern has match groups. To actually get the groups, us e str.extract.
- In [15]: Asylum_Refugee_Data_country_Filter = Asylum_Refugee_Data[country_Filter_1]
 Origin_Refugee_Data_country_Filter = Origin_Refugee_Data[country_Filter_2]
- In [16]: Asylum_Refugee_Data_country_Filter.head()

Out[16]:

	Country Name	Country Code	Indicator Name	Indicator Code	Year	Value
76284	Afghanistan	AFG	Refugee population by country or territory of	SM.POP.REFG	1960	NaN
77879	Albania	ALB	Refugee population by country or territory of	SM.POP.REFG	1960	NaN
79474	Algeria	DZA	Refugee population by country or territory of	SM.POP.REFG	1960	NaN
81069	American Samoa	ASM	Refugee population by country or territory of	SM.POP.REFG	1960	NaN
82664	Andorra	AND	Refugee population by country or territory of	SM.POP.REFG	1960	NaN

In [17]: Origin_Refugee_Data_country_Filter.head()

Out[17]:

	Country Name	Country Code	Indicator Name	Indicator Code	Year	Value
76285	Afghanistan	AFG	Refugee population by country or territory of	SM.POP.REFG.OR	1960	NaN
77880	Albania	ALB	Refugee population by country or territory of	SM.POP.REFG.OR	1960	NaN
79475	Algeria	DZA	Refugee population by country or territory of	SM.POP.REFG.OR	1960	NaN
81070	American Samoa	ASM	Refugee population by country or territory of	SM.POP.REFG.OR	1960	NaN
82665	Andorra	AND	Refugee population by country or territory of	SM.POP.REFG.OR	1960	NaN

Now Lets Filter the Data as > 1989

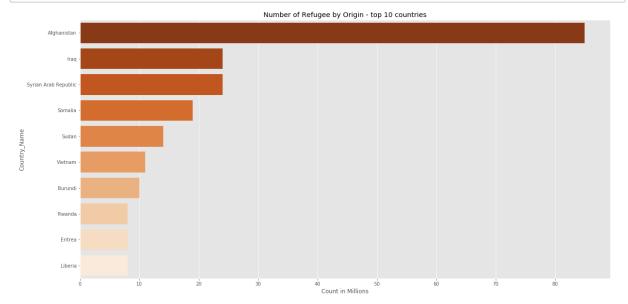
```
In [18]: Origin Refugee Data final = Origin Refugee Data country Filter[Origin Refugee
          Data country Filter. Year > '1989']
In [19]: Asylum Refugee Data final = Asylum Refugee Data country Filter[Asylum Refugee
          Data country Filter. Year > '1989']
In [20]: Origin Refugee Data final.isnull().sum()
Out[20]: Country Name
         Country Code
                               0
         Indicator Name
                               0
         Indicator Code
                               0
         Year
                               0
         Value
                            1190
         dtype: int64
In [21]: Origin Refugee Data final = Origin Refugee Data final.dropna()
In [22]: Asylum_Refugee_Data_final = Asylum_Refugee_Data_final.dropna()
In [23]: | Origin_Refugee_Data_final.isnull().sum()
Out[23]: Country Name
         Country Code
         Indicator Name
                            0
         Indicator Code
                            0
         Year
                            0
         Value
                            0
         dtype: int64
In [24]: Asylum Refugee Data final.isnull().sum()
Out[24]: Country Name
                            0
         Country Code
                            0
         Indicator Name
                            0
         Indicator Code
         Year
                            0
         Value
                            0
         dtype: int64
```

(1) Visualization - count of refugee by Million by country - Top 10

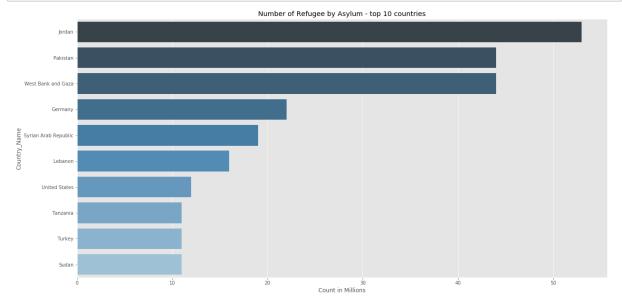
```
In [25]: del Origin_Refugee_Data_final['Country Code']
    del Origin_Refugee_Data_final['Indicator Name']
    del Origin_Refugee_Data_final['Indicator Code']
```

```
In [26]: del Asylum_Refugee_Data_final['Country Code']
    del Asylum_Refugee_Data_final['Indicator Name']
    del Asylum_Refugee_Data_final['Indicator Code']
```

- In [28]: Origin_Refugee_Data_by_country['Val_in_M'] = Origin_Refugee_Data_by_country['V
 alue'] // 1000000
- In [29]: Asylum_Refugee_Data_by_country = Asylum_Refugee_Data_final.groupby(['Country N
 ame'],as_index=False).sum().sort_values('Value',ascending=False)
- In [30]: Asylum_Refugee_Data_by_country['Val_in_M'] = Asylum_Refugee_Data_by_country['V
 alue'] // 1000000
- In [31]: plt.style.use('ggplot')
 plt.figure(figsize=(20,10))
 plt.title("Number of Refugee by Origin top 10 countries")
 ax = sns.barplot(x="Val_in_M",y="Country Name",data=Origin_Refugee_Data_by_country.head(10),palette="Oranges_r")
 ax.set(xlabel='Count in Millions',ylabel='Country_Name')
 plt.show()



```
In [32]: plt.style.use('ggplot')
   plt.figure(figsize=(20,10))
   plt.title("Number of Refugee by Asylum - top 10 countries")
   ax = sns.barplot(x="Val_in_M",y="Country Name",data=Asylum_Refugee_Data_by_country.head(10),palette="Blues_d")
   ax.set(xlabel='Count in Millions',ylabel='Country_Name')
   plt.show()
```



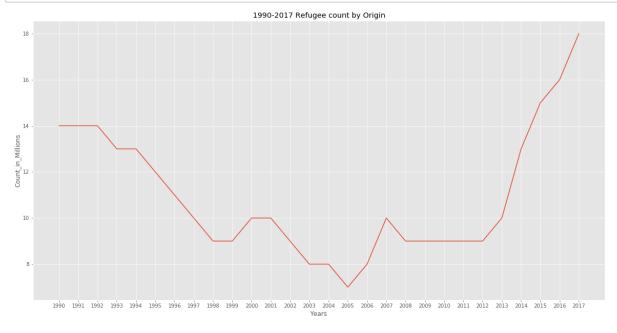
(2) Visualization - Trend of Refugee count in Millions

```
In [33]: Origin_Refugee_Data_by_Year = Origin_Refugee_Data_final.groupby(['Year'],as_in
    dex=False).sum().sort_values('Year',ascending=True)
In [34]: Origin_Refugee_Data_by_Year['Val_in_M'] = Origin_Refugee_Data_by_Year['Value']
// 1000000

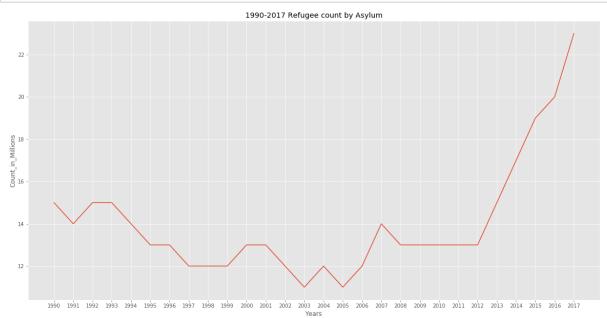
In [35]: Asylum_Refugee_Data_by_Year = Asylum_Refugee_Data_final.groupby(['Year'],as_in
    dex=False).sum().sort_values('Year',ascending=True)

In [36]: Asylum_Refugee_Data_by_Year['Val_in_M'] = Asylum_Refugee_Data_by_Year['Value']
// 1000000
```

```
In [37]: plt.style.use('ggplot')
    plt.figure(figsize=(20,10))
    plt.title("1990-2017 Refugee count by Origin")
    ax = sns.lineplot(x='Year',y='Val_in_M',data=Origin_Refugee_Data_by_Year,palet
    te="Blues_d")
    ax.set(xlabel='Years',ylabel='Count_in_Millions')
    plt.show()
```



```
In [38]: plt.style.use('ggplot')
    plt.figure(figsize=(20,10))
    plt.title("1990-2017 Refugee count by Asylum")
    ax = sns.lineplot(x='Year',y='Val_in_M',data=Asylum_Refugee_Data_by_Year,palet
    te="Blues_d")
    ax.set(xlabel='Years',ylabel='Count_in_Millions')
    plt.show()
```



```
In [40]: Origin_Refugee_Data_final.head()
```

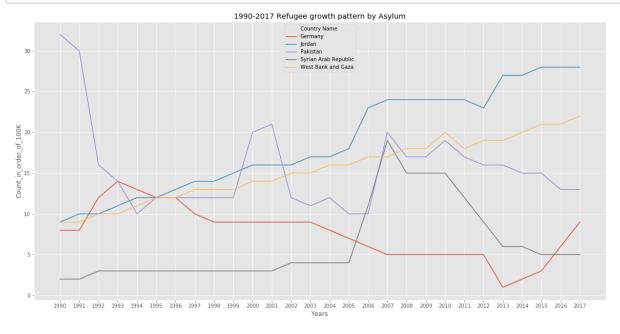
Out[40]:

	Country Name	Year	Value
12708685	Afghanistan	1990	6339095.0
12710280	Albania	1990	1822.0
12711875	Algeria	1990	19.0
12716660	Angola	1990	407760.0
12719850	Argentina	1990	334.0

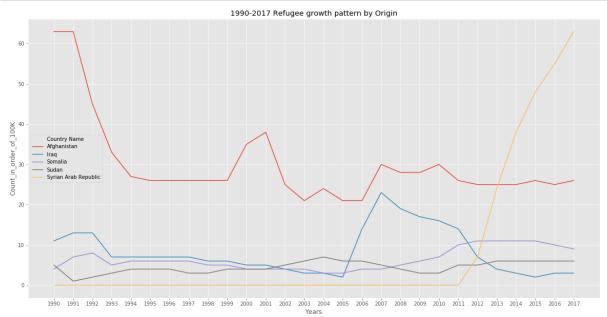
(3) Visualization - Trend of Refugee count in Top 5 countries

```
In [41]: Top 5 counties by Origin = Origin Refugee Data by country.head(5)['Country Nam
         e'].tolist()
         Top 5 counties by Asylum = Asylum Refugee Data by country.head(5)['Country Nam
In [42]:
         e'].tolist()
         Yearly data top5 by origin= Origin Refugee Data final[Origin Refugee Data fina
In [43]:
         1['Country Name'].isin(Top 5 counties by Origin)]
         Yearly data top5 by asyslum= Asylum Refugee Data final[Asylum Refugee Data fin
In [44]:
         al['Country Name'].isin(Top_5_counties_by_Asylum)]
In [58]:
         Yearly_data_top5_by_asyslum['Val_in_M'] = Yearly_data_top5_by_asyslum['Value']
         // 100000
         Yearly_data_top5_by_origin['Val_in_M'] = Yearly_data_top5_by_origin['Value']
         // 100000
         C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:1:
         SettingWithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row indexer,col indexer] = value instead
         See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/st
         able/indexing.html#indexing-view-versus-copy
           """Entry point for launching an IPython kernel.
         C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel launcher.py:2:
         SettingWithCopyWarning:
         A value is trying to be set on a copy of a slice from a DataFrame.
         Try using .loc[row indexer,col indexer] = value instead
         See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/st
         able/indexing.html#indexing-view-versus-copy
```

```
In [66]: plt.style.use('ggplot')
    plt.figure(figsize=(20,10))
    plt.title("1990-2017 Refugee growth pattern by Asylum")
    ax = sns.lineplot(x='Year',y='Val_in_M',hue='Country Name',data=Yearly_data_to
    p5_by_asyslum)
    ax.set(xlabel='Years',ylabel='Count_in_order_of_100K')
    plt.show()
```

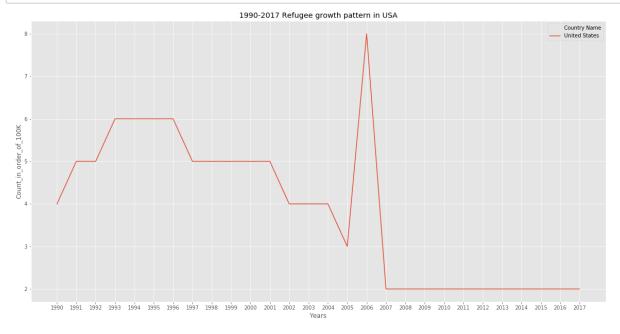


```
In [65]: plt.style.use('ggplot')
    plt.figure(figsize=(20,10))
    plt.title("1990-2017 Refugee growth pattern by Origin")
    ax = sns.lineplot(x='Year',y='Val_in_M',hue='Country Name',data=Yearly_data_to
    p5_by_origin)
    ax.set(xlabel='Years',ylabel='Count_in_order_of_100K')
    plt.show()
```



(4) Visualization - USA

```
In [64]: plt.style.use('ggplot')
    plt.figure(figsize=(20,10))
    plt.title("1990-2017 Refugee growth pattern in USA")
    ax = sns.lineplot(x='Year',y='Val_in_M',hue='Country Name',data=Yearly_data_US
    A)
    ax.set(xlabel='Years',ylabel='Count_in_order_of_100K')
    plt.show()
```



How Much % Refugees coming to USA vs Genrmany?

```
In [49]: Total_Refugee_count = Asylum_Refugee_Data_by_country['Value'].sum()
```

```
In [50]: Total_Refugee_count
```

Out[50]: 404293880.0

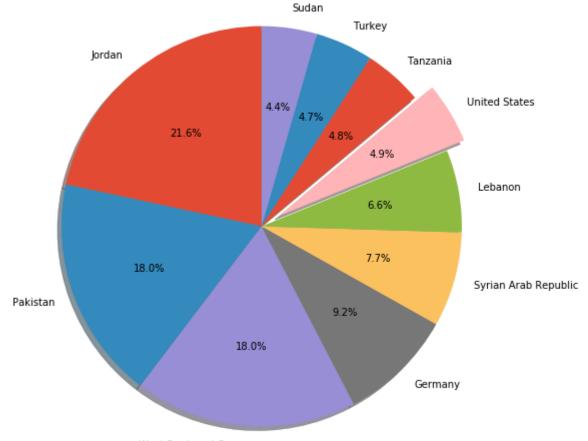
```
In [51]: #Lets Cals the % for top 10 countries
Top_10_Asylum = Asylum_Refugee_Data_by_country.head(10)
```

```
In [52]: Top_10_Asylum['pctg'] = (Top_10_Asylum['Value'] / Total_Refugee_count)*100
```

C:\Users\SoumyaBukaiHome\Anaconda3\lib\site-packages\ipykernel_launcher.py:1:
SettingWithCopyWarning:

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

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/st able/indexing.html#indexing-view-versus-copy
"""Entry point for launching an IPython kernel.



In []: