

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

df =pd.read_csv(r'/content/drive/MyDrive/Prodigy-InfoTech/Task-1/API_SP.POP.TOTL_DS2_en_csv_v2_84031 - API_SP.POP.TOTL_DS2_en_csv_v2_84031.csv')

df
```

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0
...	...	...	...	...	...	...	...
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0

266 rows × 68 columns

```
df.head()
```

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0

5 rows × 68 columns

```
df.tail()
```

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0	1
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4

5 rows × 68 columns

```
df.shape

(266, 68)
```

```
df.columns

Index(['Country Name', 'Country Code', 'Indicator Name', 'Indicator Code',
      '1960', '1961', '1962', '1963', '1964', '1965', '1966', '1967', '1968',
      '1969', '1970', '1971', '1972', '1973', '1974', '1975', '1976', '1977',
      '1978', '1979', '1980', '1981', '1982', '1983', '1984', '1985', '1986',
      '1987', '1988', '1989', '1990', '1991', '1992', '1993', '1994', '1995',
      '1996', '1997', '1998', '1999', '2000', '2001', '2002', '2003', '2004',
      '2005', '2006', '2007', '2008', '2009', '2010', '2011', '2012', '2013',
      '2014', '2015', '2016', '2017', '2018', '2019', '2020', '2021', '2022',
      '2023'],
      dtype='object')
```

```
df.dtypes

Country Name      object
Country Code      object
Indicator Name     object
Indicator Code     object
1960              float64
...
2019              float64
2020              float64
2021              float64
2022              float64
2023              float64
Length: 68, dtype: object
```

```
df.info()

12  1968          264 non-null  float64
13  1969          264 non-null  float64
14  1970          264 non-null  float64
15  1971          264 non-null  float64
16  1972          264 non-null  float64
17  1973          264 non-null  float64
18  1974          264 non-null  float64
19  1975          264 non-null  float64
20  1976          264 non-null  float64
21  1977          264 non-null  float64
22  1978          264 non-null  float64
23  1979          264 non-null  float64
24  1980          264 non-null  float64
25  1981          264 non-null  float64
```

```

43 1999      265 non-null float64
44 2000      265 non-null float64
45 2001      265 non-null float64
46 2002      265 non-null float64
47 2003      265 non-null float64
48 2004      265 non-null float64
49 2005      265 non-null float64
50 2006      265 non-null float64
51 2007      265 non-null float64
52 2008      265 non-null float64
53 2009      265 non-null float64
54 2010      265 non-null float64
55 2011      265 non-null float64
56 2012      265 non-null float64
57 2013      265 non-null float64
58 2014      265 non-null float64
59 2015      265 non-null float64
60 2016      265 non-null float64
61 2017      265 non-null float64
62 2018      265 non-null float64
63 2019      265 non-null float64
64 2020      265 non-null float64
65 2021      265 non-null float64
66 2022      265 non-null float64
67 2023      0 non-null float64

```

```

dtypes: float64(64), object(4)
memory usage: 141.4+ KB

```

```
df.describe()
```

	1960	1961	1962	1963	1964	19
<b>count</b>	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+
<b>mean</b>	1.172860e+08	1.188956e+08	1.210661e+08	1.237484e+08	1.264530e+08	1.291965e+
<b>std</b>	3.695500e+08	3.740958e+08	3.808121e+08	3.895098e+08	3.982497e+08	4.071209e+
<b>min</b>	2.646000e+03	2.888000e+03	3.171000e+03	3.481000e+03	3.811000e+03	4.161000e+
<b>25%</b>	5.132212e+05	5.231345e+05	5.337595e+05	5.449288e+05	5.566630e+05	5.651150e+
<b>50%</b>	3.757486e+06	3.887144e+06	4.023896e+06	4.139356e+06	4.224612e+06	4.277636e+
<b>75%</b>	2.670606e+07	2.748694e+07	2.830289e+07	2.914708e+07	3.001684e+07	3.084892e+
<b>max</b>	3.031474e+09	3.072422e+09	3.126850e+09	3.193429e+09	3.260442e+09	3.328209e+

8 rows × 64 columns

```
df.duplicated().sum()
```

```
0
```

```
df.isna().sum().any()
```

```
True
```

```
df=df.fillna(method='ffill')
df.head()
```

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962
<b>0</b>	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0
<b>1</b>	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0
<b>2</b>	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0
<b>3</b>	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0
<b>4</b>	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0

5 rows × 68 columns

```
df.isna().sum().any()
```

True

```
df['Country Name'].unique()

'Europe & Central Asia (excluding high income)',
'Europe & Central Asia', 'Ecuador', 'Egypt, Arab Rep.',
'Euro area', 'Eritrea', 'Spain', 'Estonia', 'Ethiopia',
'European Union', 'Fragile and conflict affected situations',
'Finland', 'Fiji', 'France', 'Faroe Islands',
'Micronesia, Fed. Sts.', 'Gabon', 'United Kingdom', 'Georgia',
'Ghana', 'Gibraltar', 'Guinea', 'Gambia, The', 'Guinea-Bissau',
'Equatorial Guinea', 'Greece', 'Grenada', 'Greenland', 'Guatemala',
'Guam', 'Guyana', 'High income', 'Hong Kong SAR, China',
'Honduras', 'Heavily indebted poor countries (HIPC)', 'Croatia',
'Haiti', 'Hungary', 'IBRD only', 'IDA & IBRD total', 'IDA total',
'IDA blend', 'Indonesia', 'IDA only', 'Isle of Man', 'India',
'Not classified', 'Ireland', 'Iran, Islamic Rep.', 'Iraq',
'Iceland', 'Israel', 'Italy', 'Jamaica', 'Jordan', 'Japan',
'Kazakhstan', 'Kenya', 'Kyrgyz Republic', 'Cambodia', 'Kiribati',
'St. Kitts and Nevis', 'Korea, Rep.', 'Kuwait',
'Latin America & Caribbean (excluding high income)', 'Lao PDR',
'Lebanon', 'Liberia', 'Libya', 'St. Lucia',
'Latin America & Caribbean',
'Least developed countries: UN classification', 'Low income',
'Liechtenstein', 'Sri Lanka', 'Lower middle income',
'Low & middle income', 'Lesotho', 'Late-demographic dividend',
'Lithuania', 'Luxembourg', 'Latvia', 'Macao SAR, China',
'St. Martin (French part)', 'Morocco', 'Monaco', 'Moldova',
'Madagascar', 'Maldives', 'Middle East & North Africa', 'Mexico',
'Marshall Islands', 'Middle income', 'North Macedonia', 'Mali',
'Malta', 'Myanmar',
'Middle East & North Africa (excluding high income)', 'Montenegro',
'Mongolia', 'Northern Mariana Islands', 'Mozambique', 'Mauritania',
'Mauritius', 'Malawi', 'Malaysia', 'North America', 'Namibia',
'New Caledonia', 'Niger', 'Nigeria', 'Nicaragua', 'Netherlands',
'Norway', 'Nepal', 'Nauru', 'New Zealand', 'OECD members', 'Oman',
'Other small states', 'Pakistan', 'Panama', 'Peru', 'Philippines',
'Palau', 'Papua New Guinea', 'Poland', 'Pre-demographic dividend',
'Puerto Rico', 'Korea, Dem. People's Rep.', 'Portugal', 'Paraguay',
'West Bank and Gaza', 'Pacific island small states',
'Post-demographic dividend', 'French Polynesia', 'Qatar',
'Romania', 'Russian Federation', 'Rwanda', 'South Asia',
'Saudi Arabia', 'Sudan', 'Senegal', 'Singapore', 'Solomon Islands',
'Sierra Leone', 'El Salvador', 'San Marino', 'Somalia', 'Serbia',
'Sub-Saharan Africa (excluding high income)', 'South Sudan',
'Sub-Saharan Africa', 'Small states', 'Sao Tome and Principe',
'Suriname', 'Slovak Republic', 'Slovenia', 'Sweden', 'Eswatini',
'Sint Maarten (Dutch part)', 'Seychelles', 'Syrian Arab Republic',
'Turks and Caicos Islands', 'Chad',
'East Asia & Pacific (IDA & IBRD countries)',
'Europe & Central Asia (IDA & IBRD countries)', 'Togo', 'Thailand',
'Tajikistan', 'Turkmenistan',
'Latin America & the Caribbean (IDA & IBRD countries)',
'Timor-Leste', 'Middle East & North Africa (IDA & IBRD countries)',
'Tonga', 'South Asia (IDA & IBRD)',
'Sub-Saharan Africa (IDA & IBRD countries)', 'Trinidad and Tobago',
'Tunisia', 'Turkiye', 'Tuvalu', 'Tanzania', 'Uganda', 'Ukraine',
'Upper middle income', 'Uruguay', 'United States', 'Uzbekistan',
'St. Vincent and the Grenadines', 'Venezuela, RB',
'British Virgin Islands', 'Virgin Islands (U.S.)', 'Viet Nam',
'Vanuatu', 'World', 'Samoa', 'Kosovo', 'Yemen, Rep.',
'South Africa', 'Zambia', 'Zimbabwe'], dtype=object)

df['Indicator Name'].unique()

array(['Population, total'], dtype=object)

df['Indicator Code'].unique()

array(['SP.POP.TOTL'], dtype=object)

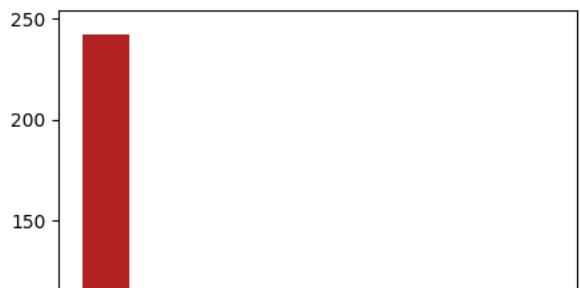
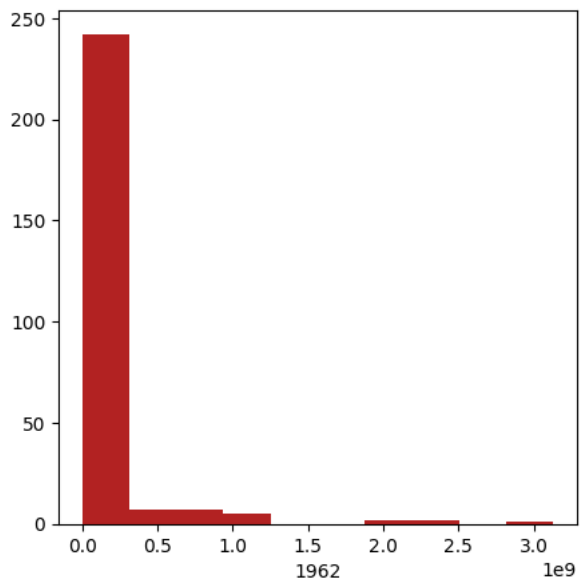
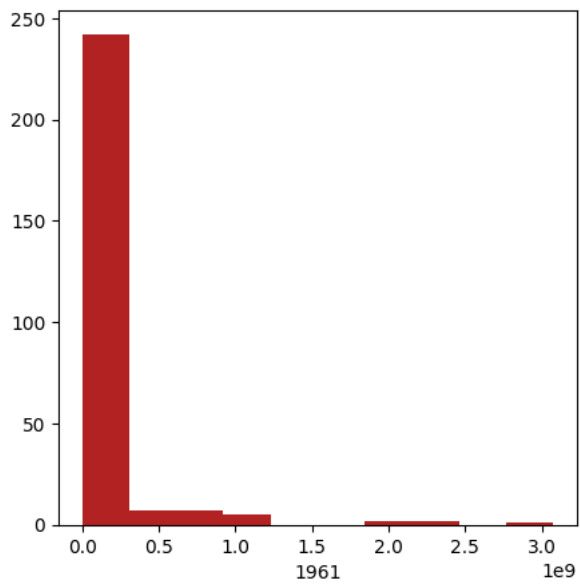
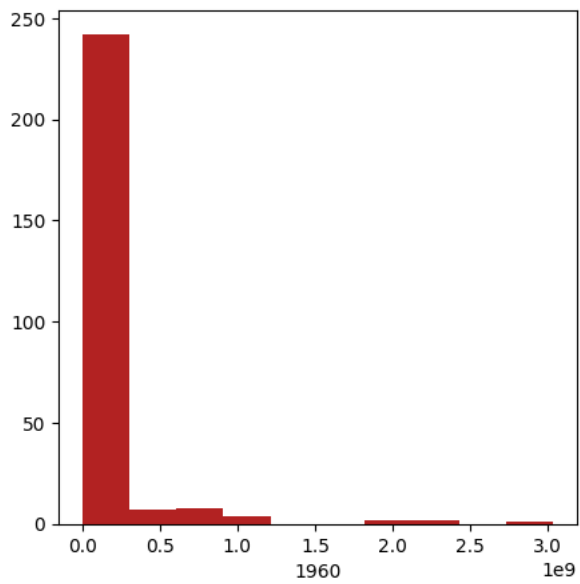
df.drop(['Indicator Name', 'Indicator Code', 'Country Code'], axis = 1, inplace = True)

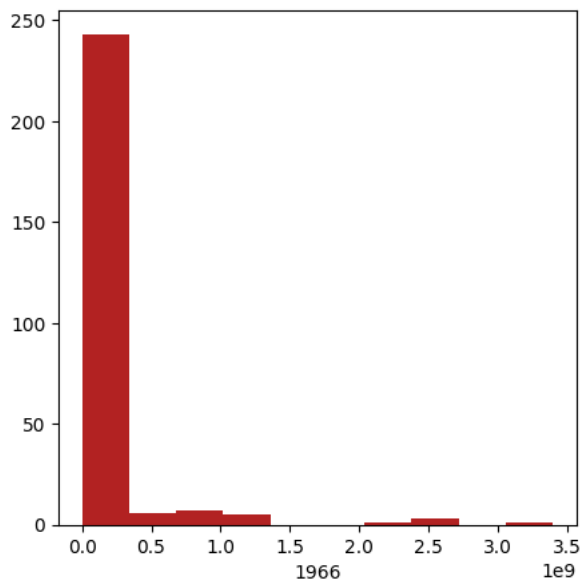
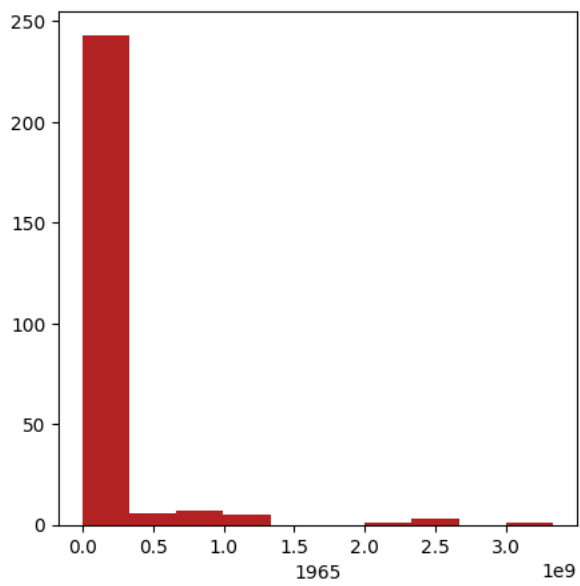
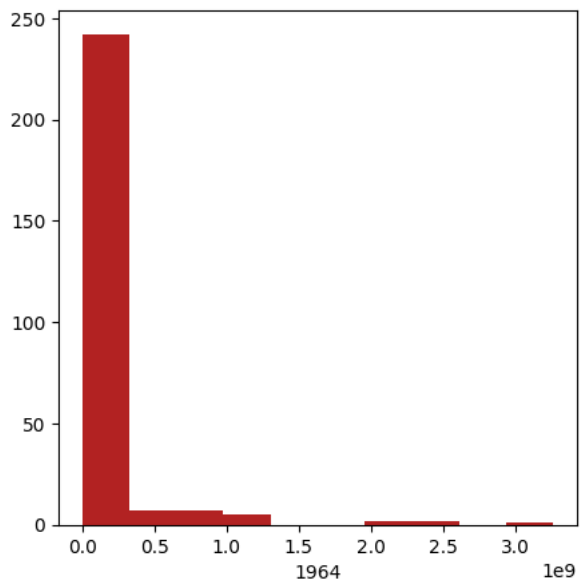
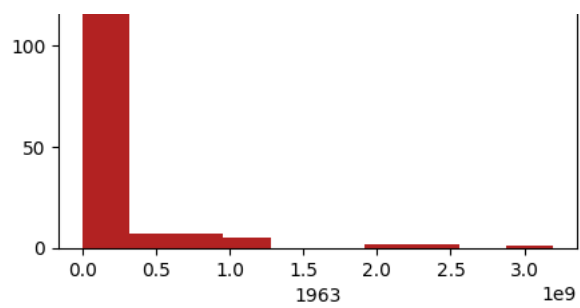
df.columns

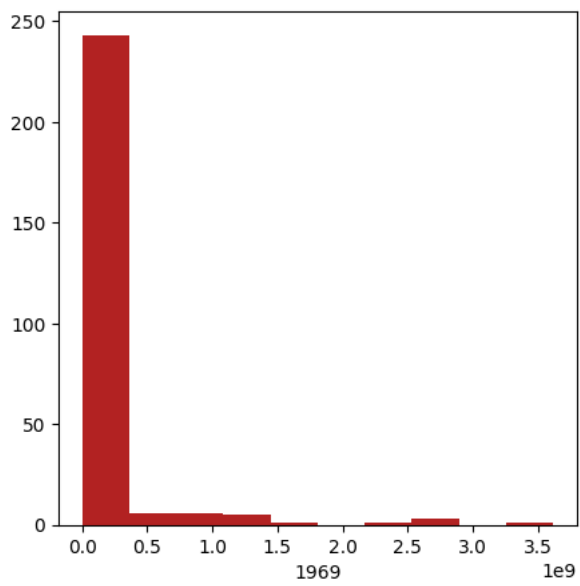
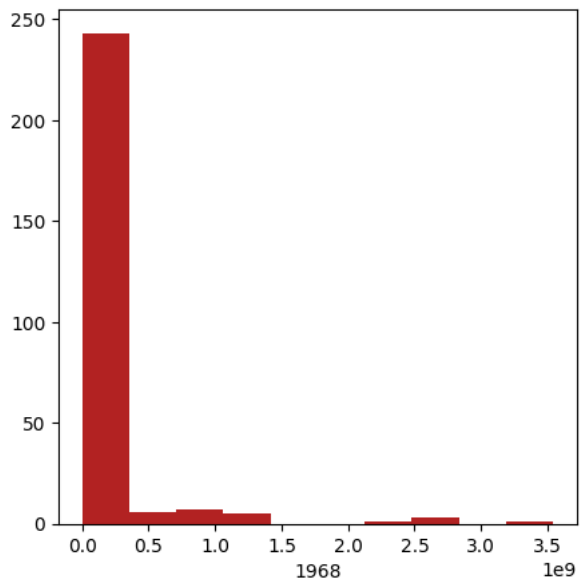
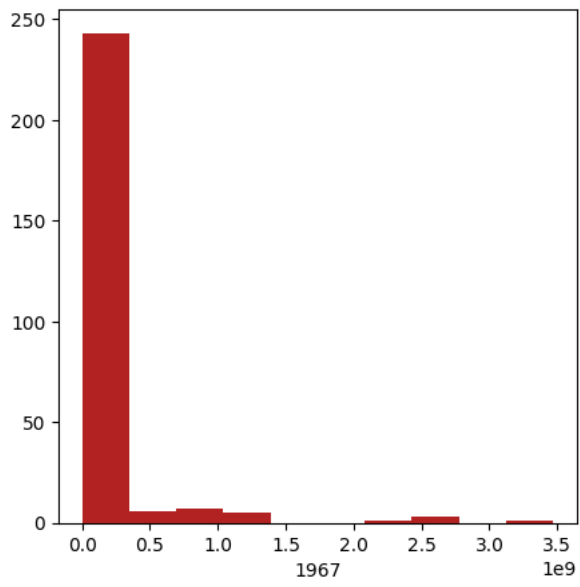
Index(['Country Name', '1960', '1961', '1962', '1963', '1964', '1965', '1966',
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      '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983', '1984',
      '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992', '1993',
      '1994', '1995', '1996', '1997', '1998', '1999', '2000', '2001', '2002',
      '2003', '2004', '2005', '2006', '2007', '2008', '2009', '2010', '2011',
      '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '2020',
      '2021', '2022', '2023'],
      dtype='object')
```

```
cols = ['1960', '1961', '1962', '1963', '1964', '1965', '1966',
        '1967', '1968', '1969', '1970', '1971', '1972', '1973', '1974', '1975',
        '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983', '1984',
        '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992', '1993',
        '1994', '1995', '1996', '1997', '1998', '1999', '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007',
        '2008', '2009', '2010', '2011', '2012', '2013', '2014', '2015', '2016',
        '2017', '2018', '2019', '2020', '2021', '2022']

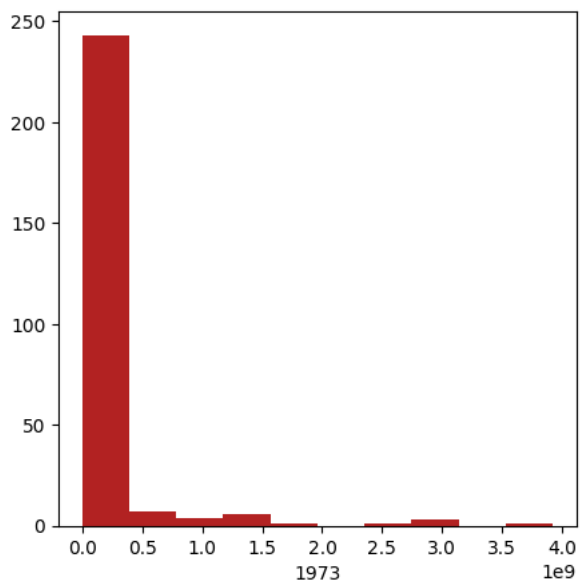
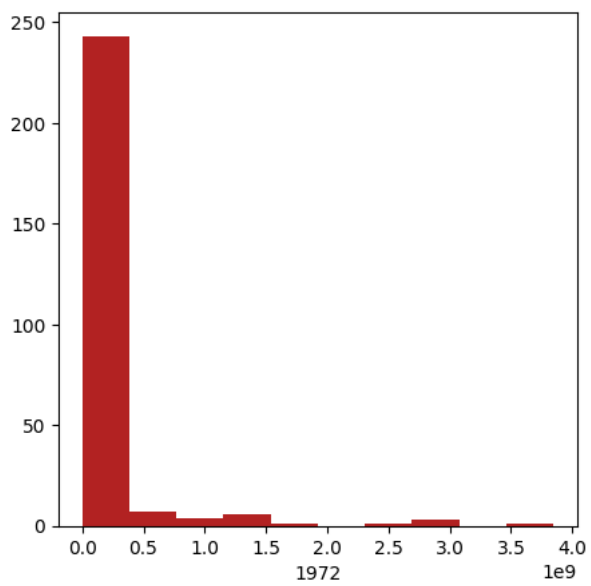
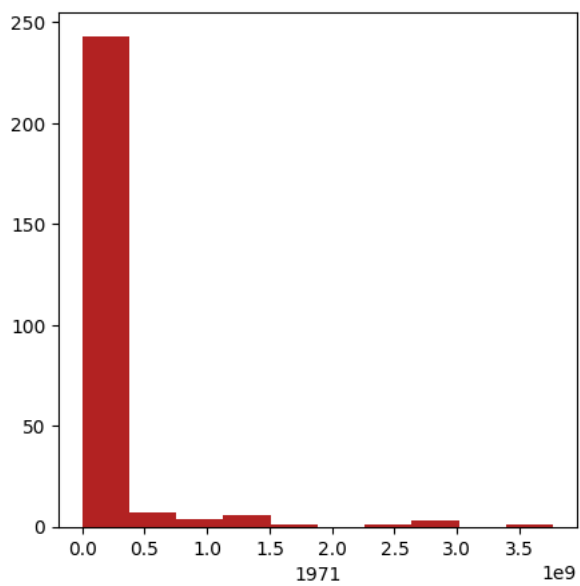
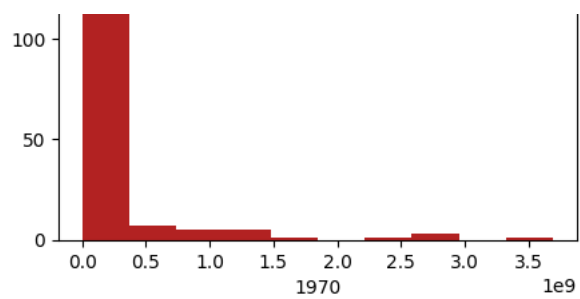
for i in cols:
    fig = plt.figure(figsize=(5,5))
    plt.hist(df[i],color='#B22222',bins=10)
    plt.xlabel(i)
    plt.show()
```

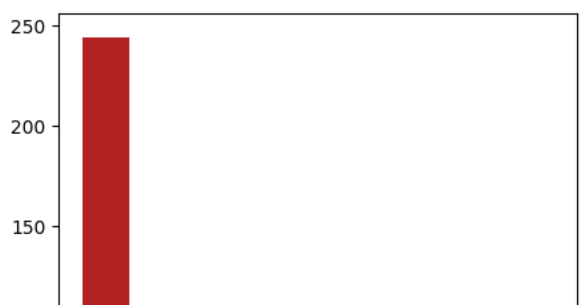
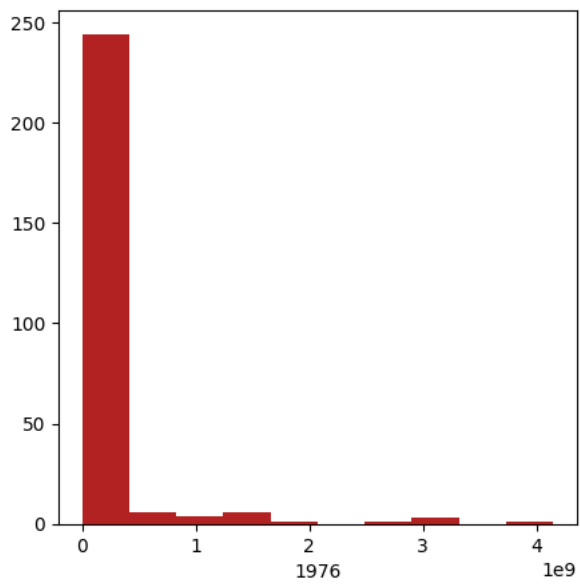
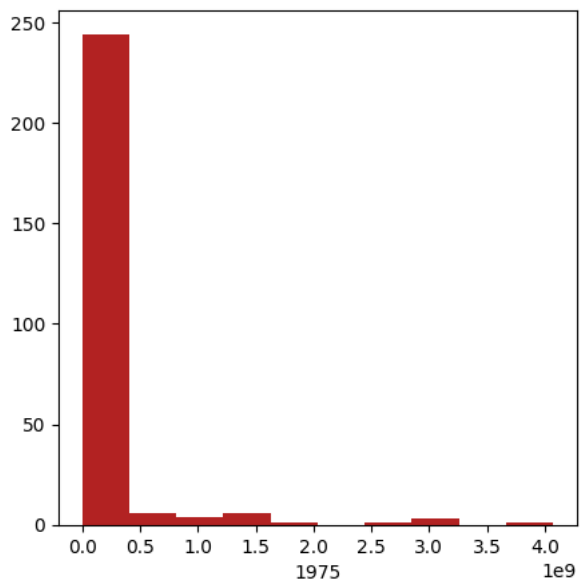
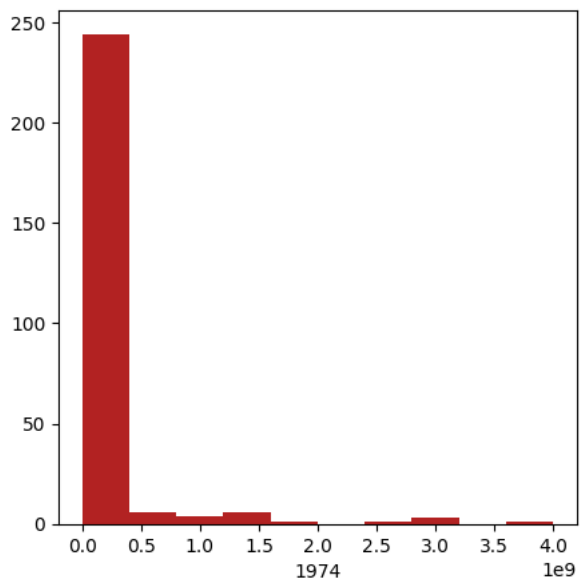


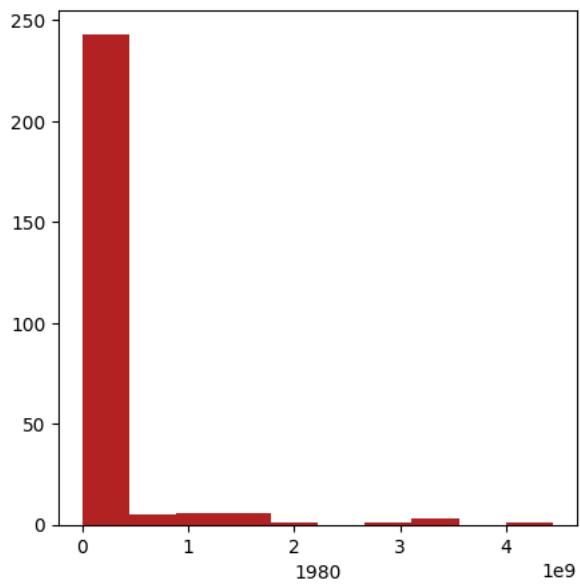
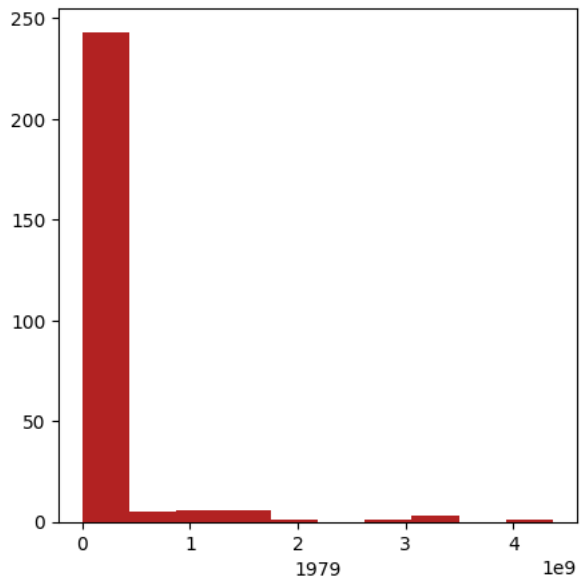
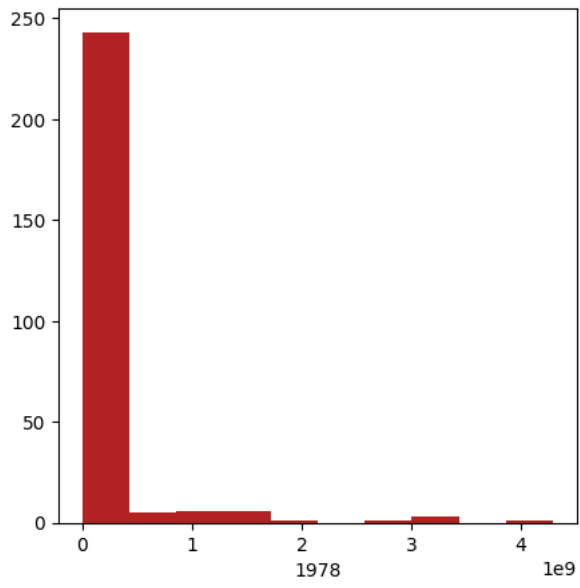
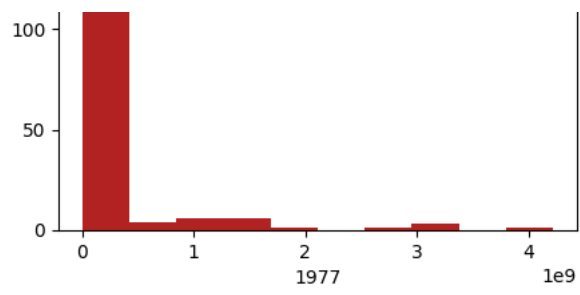


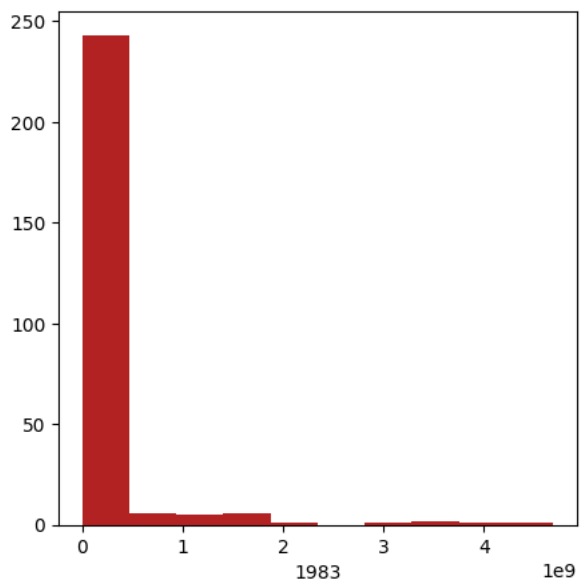
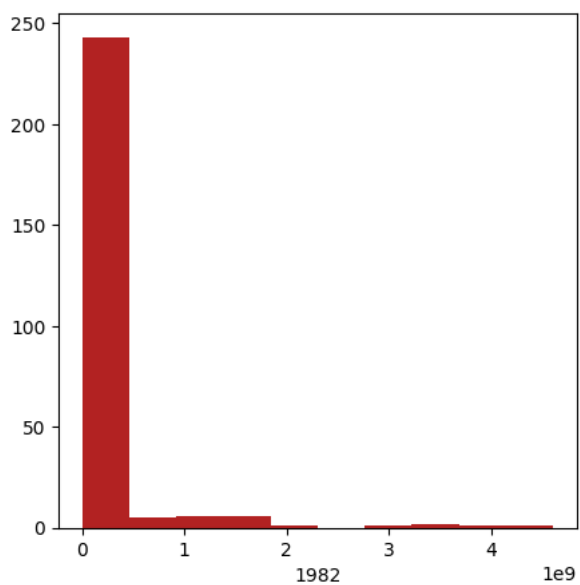
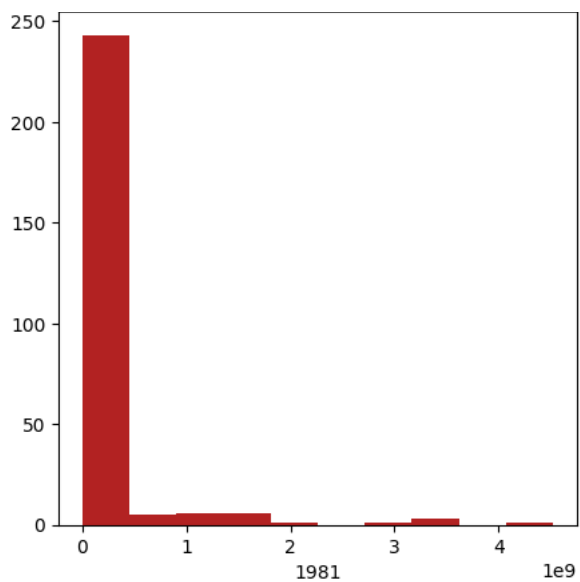


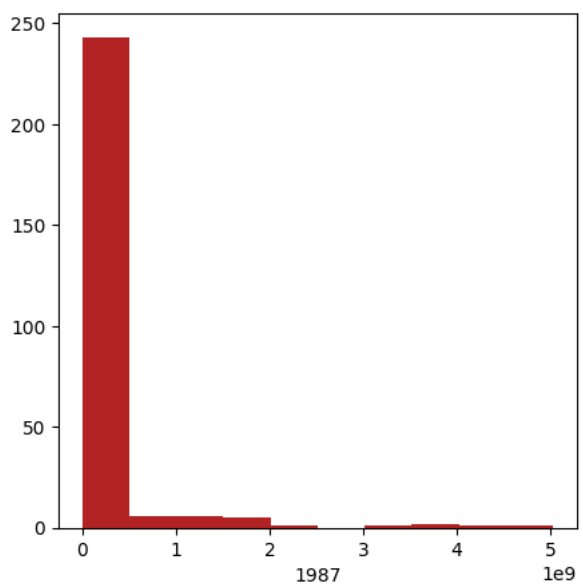
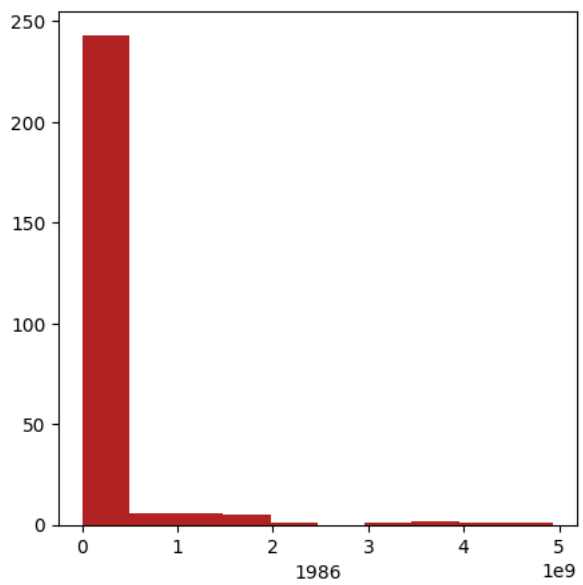
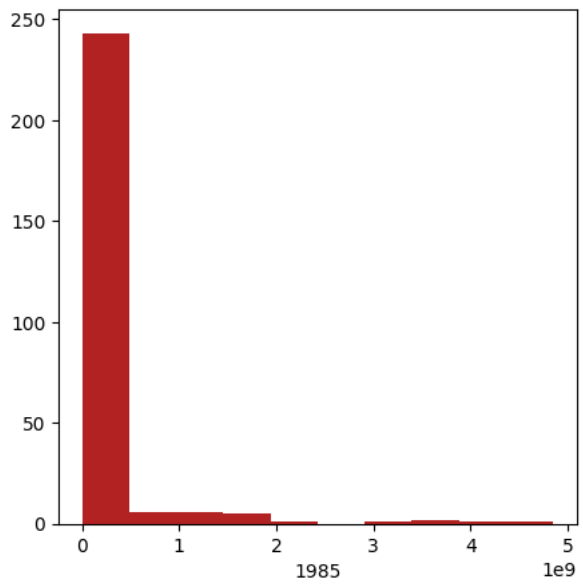
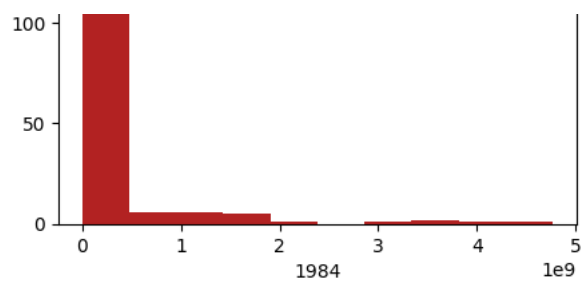


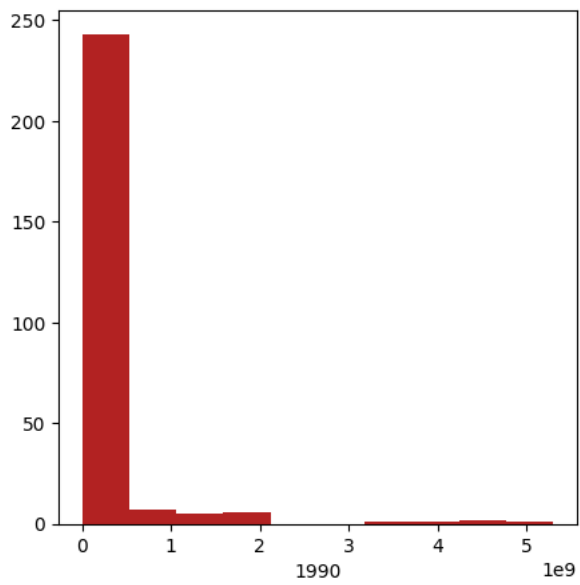
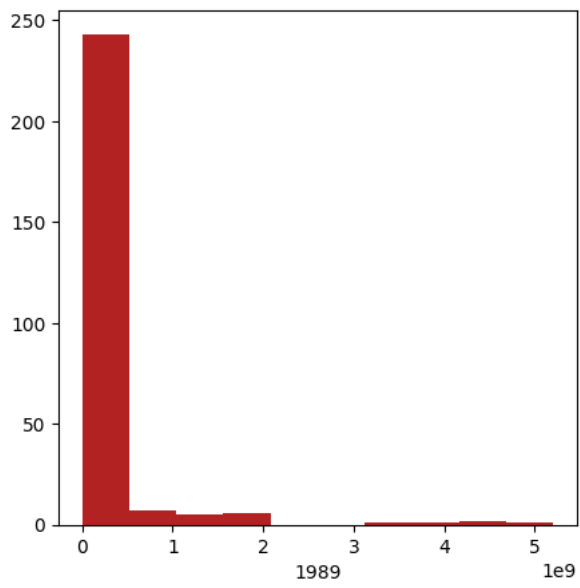
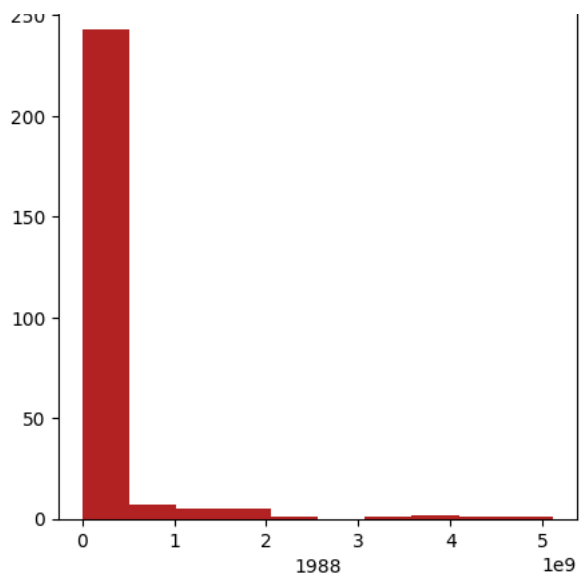


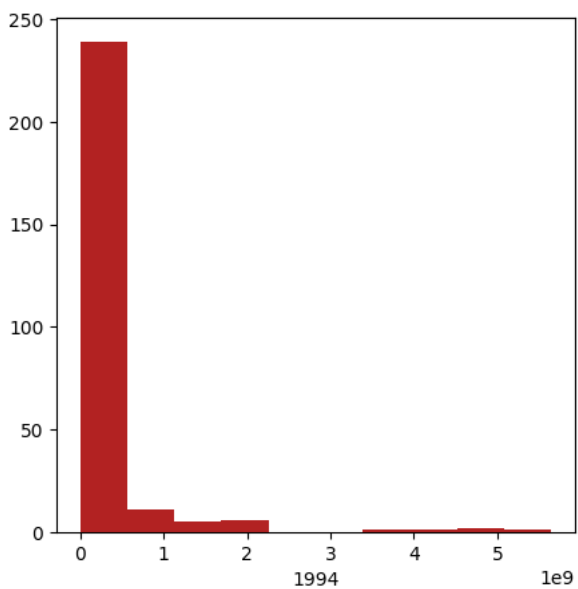
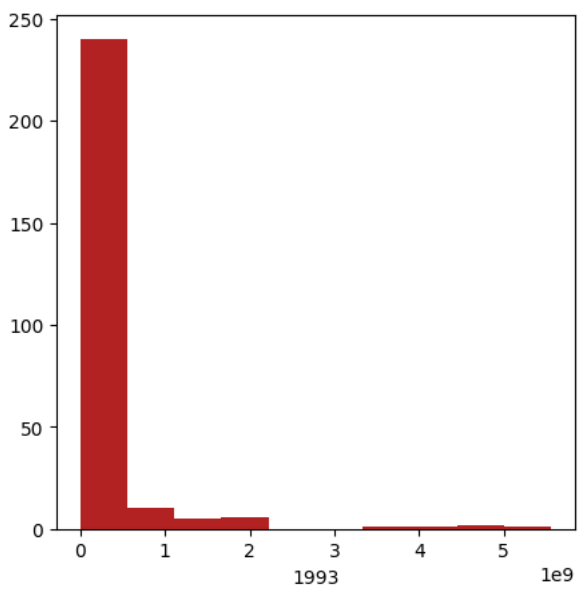
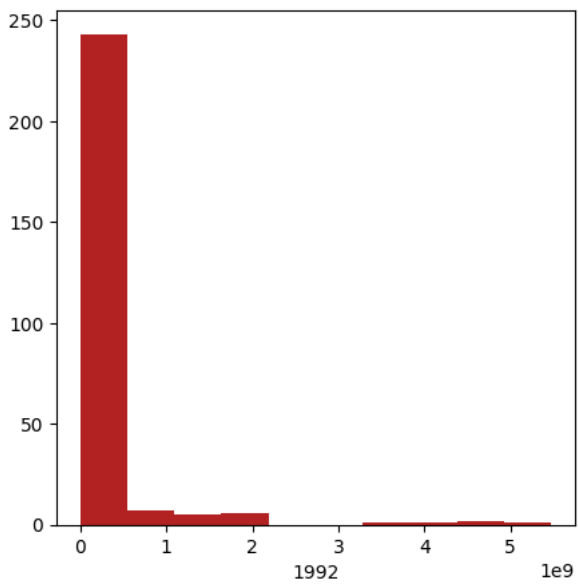
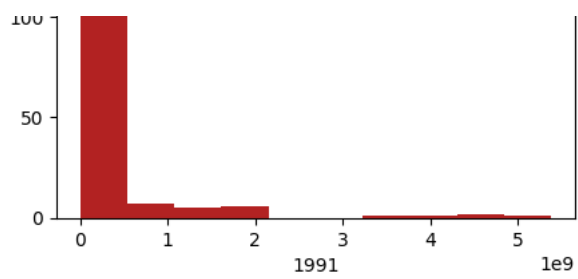


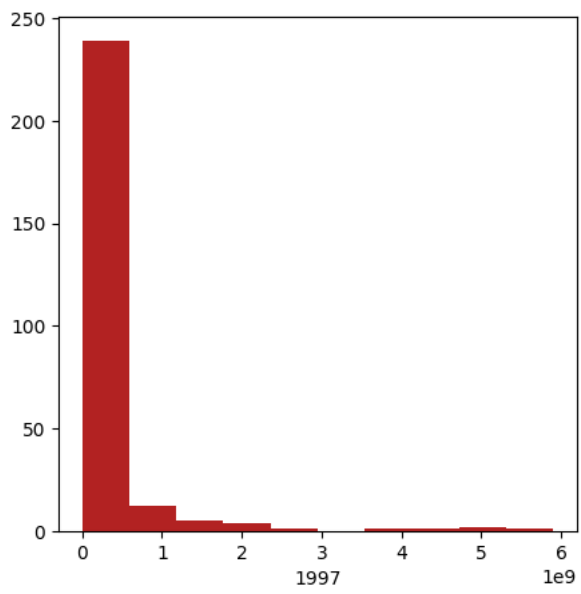
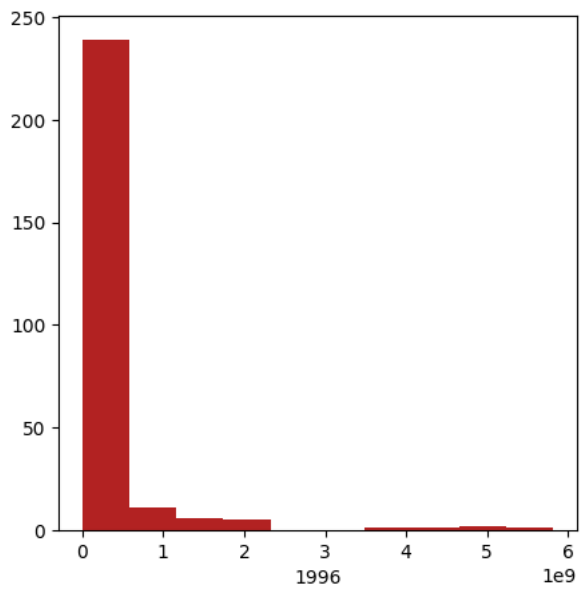
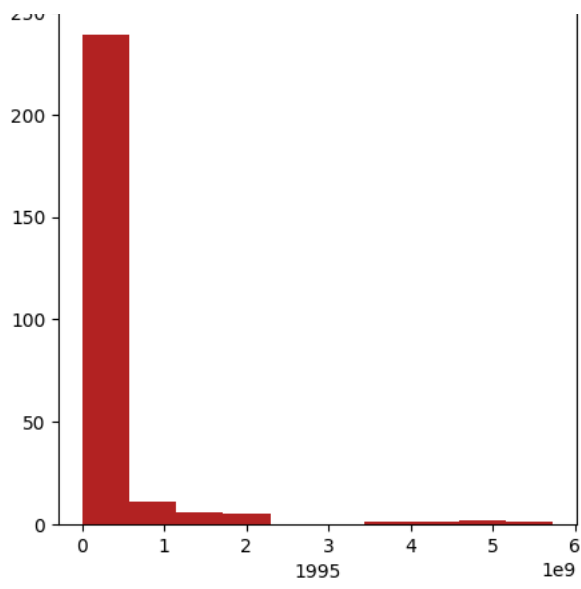




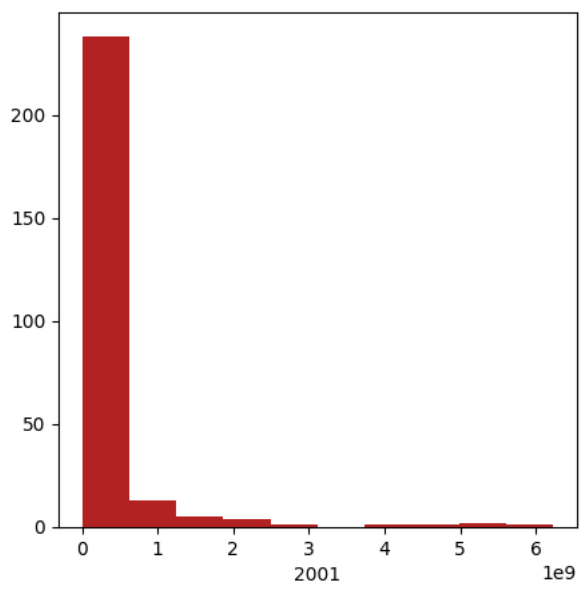
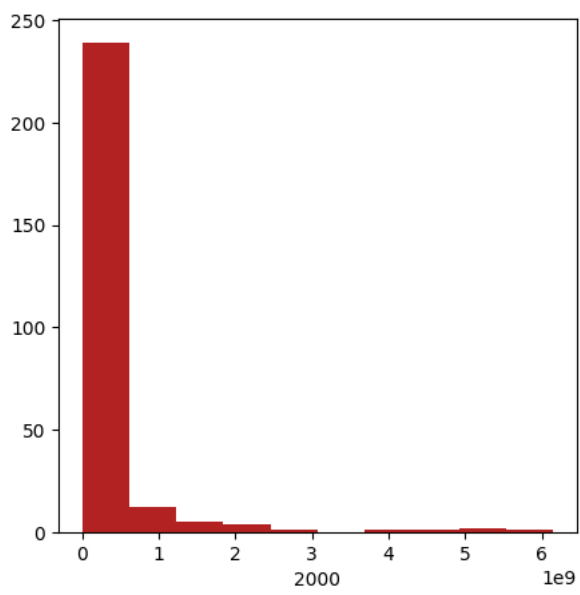
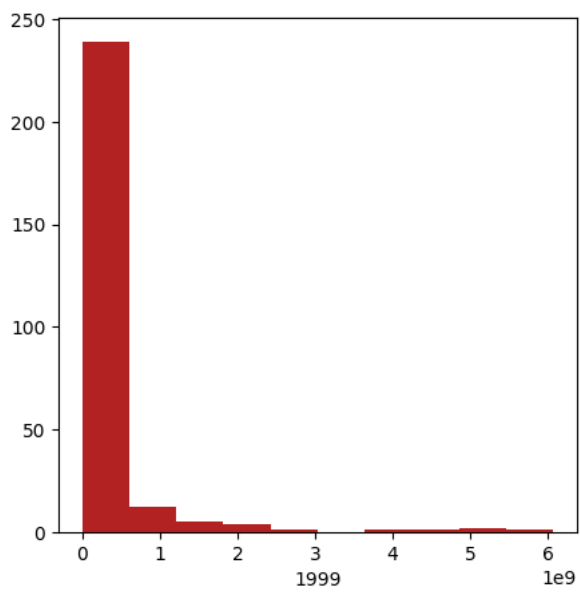
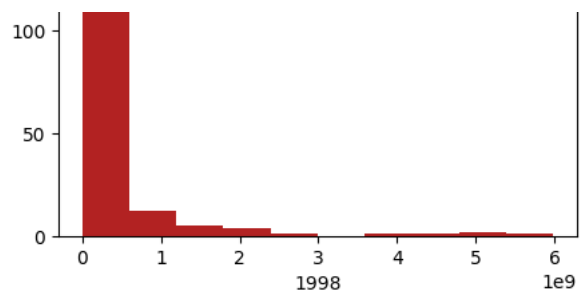


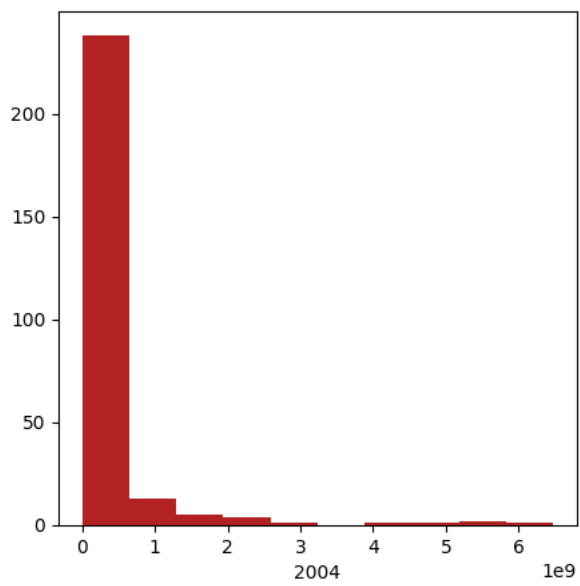
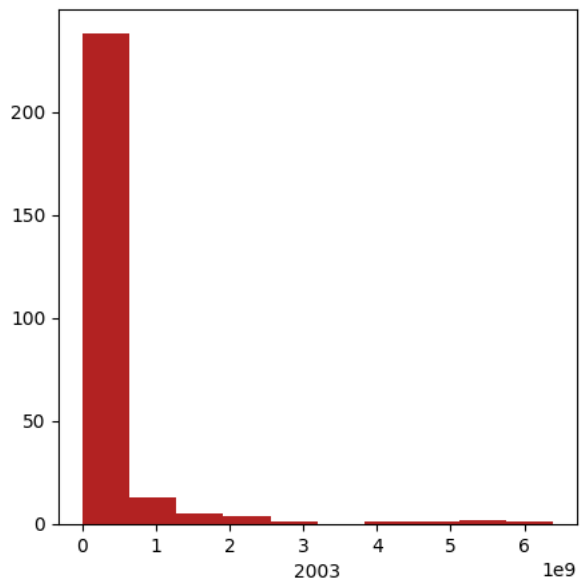
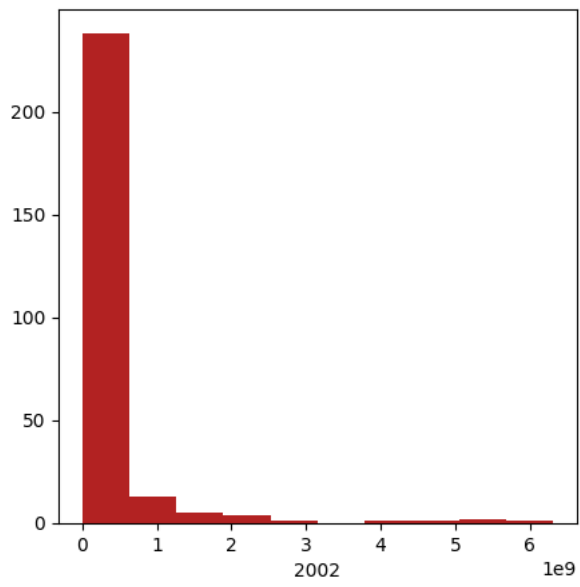


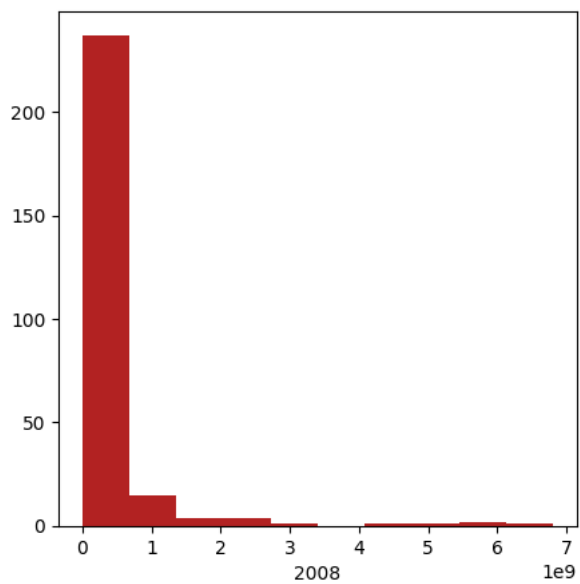
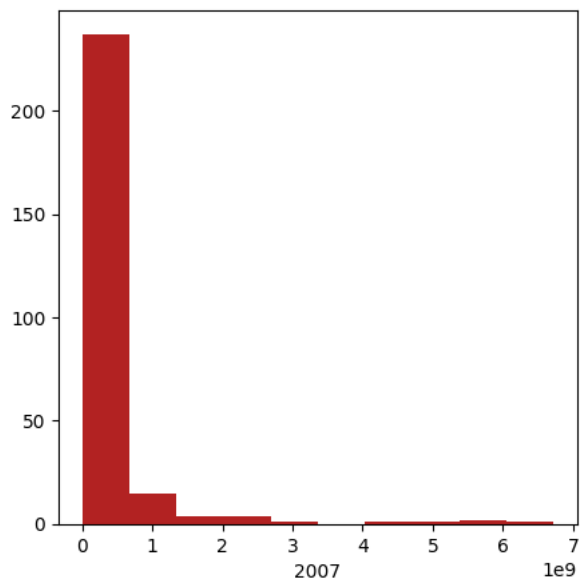
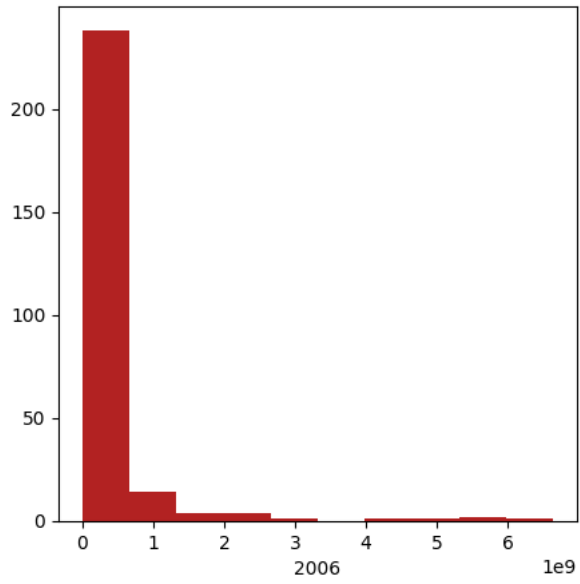
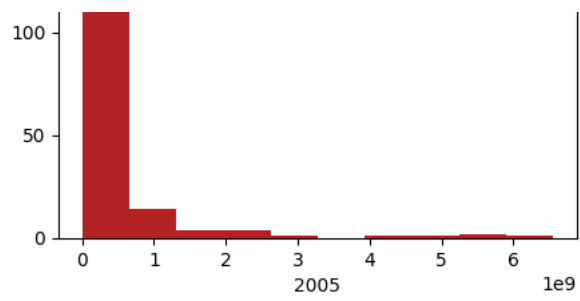


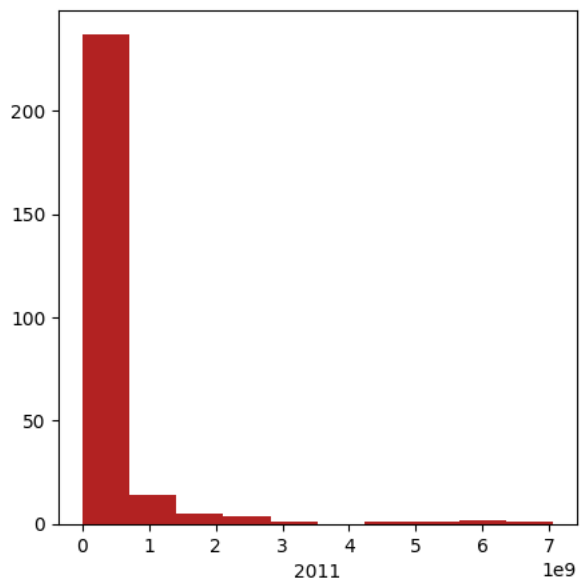
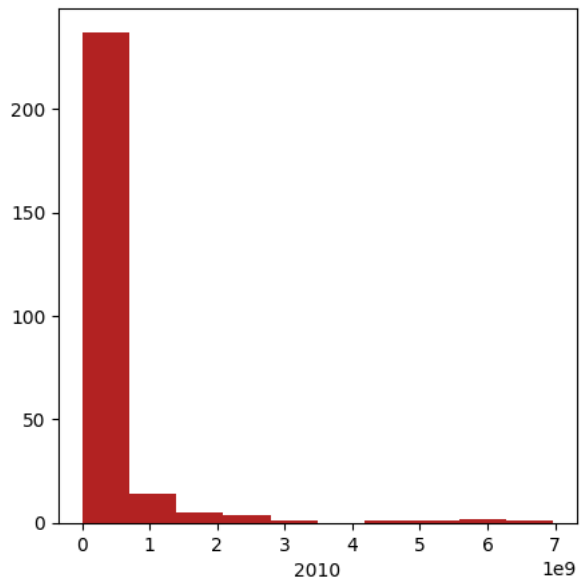
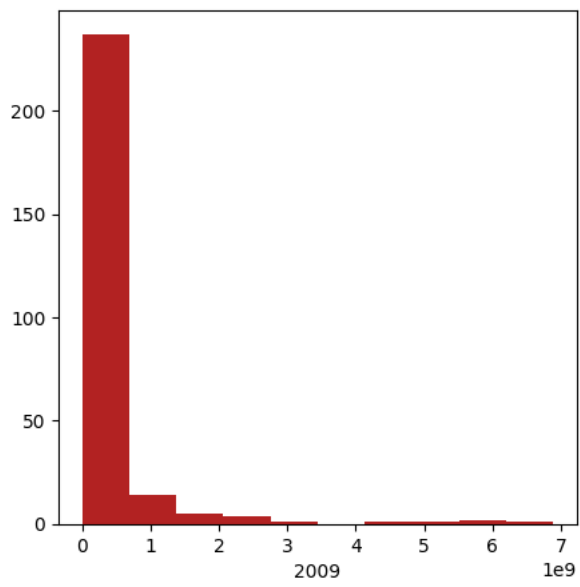


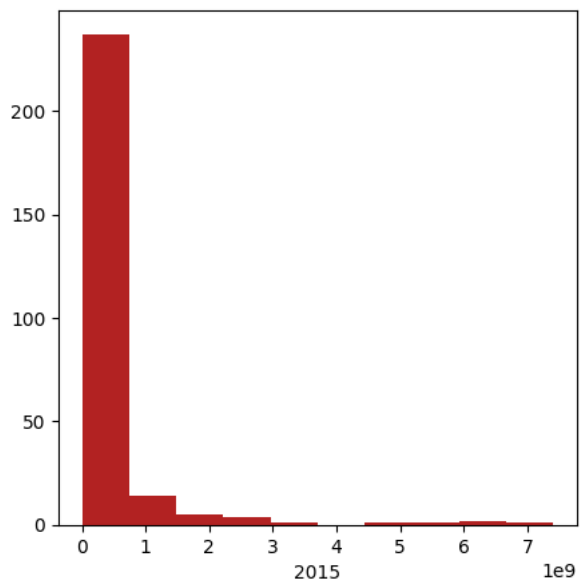
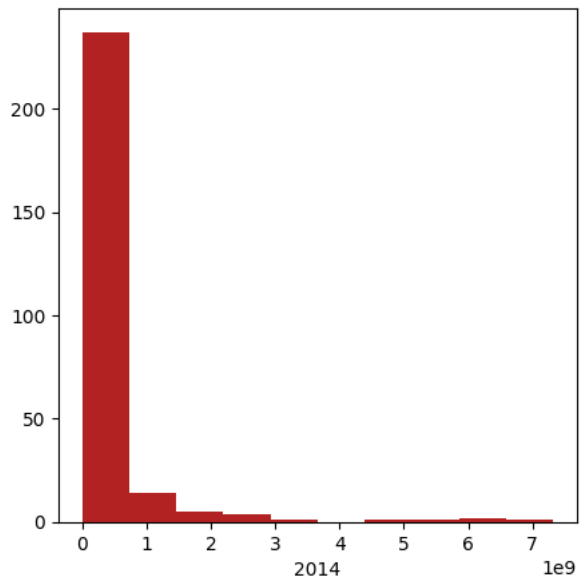
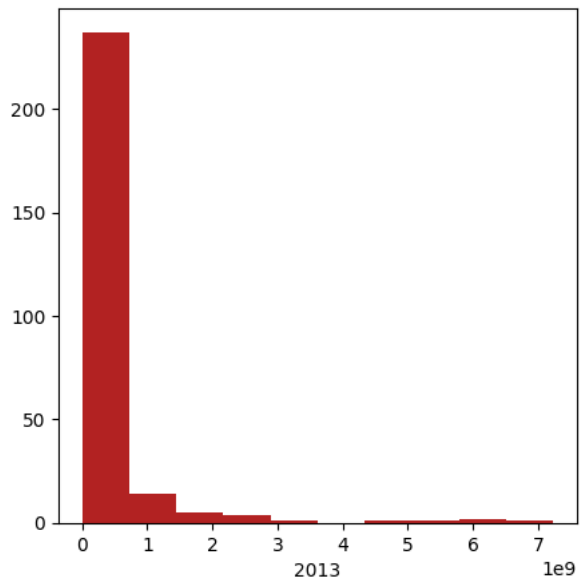
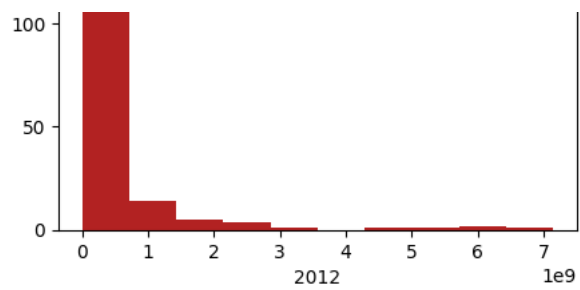


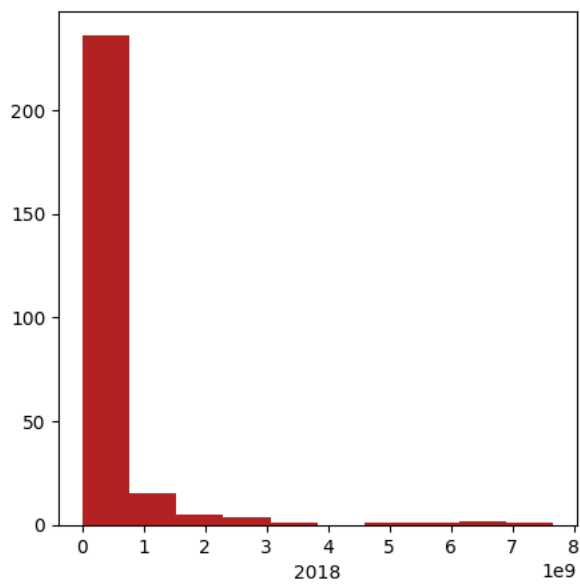
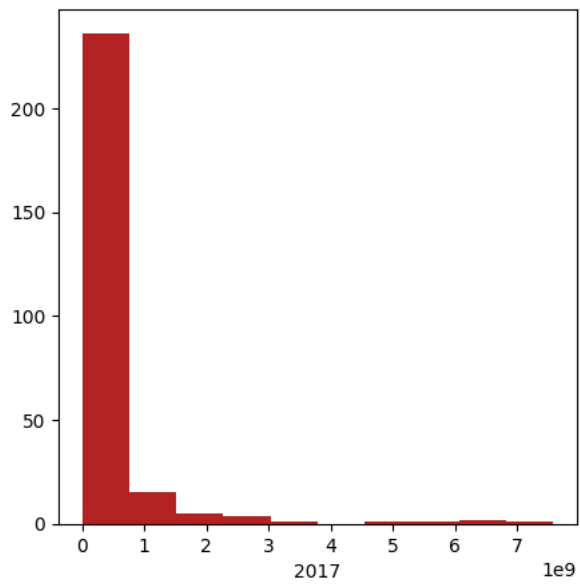
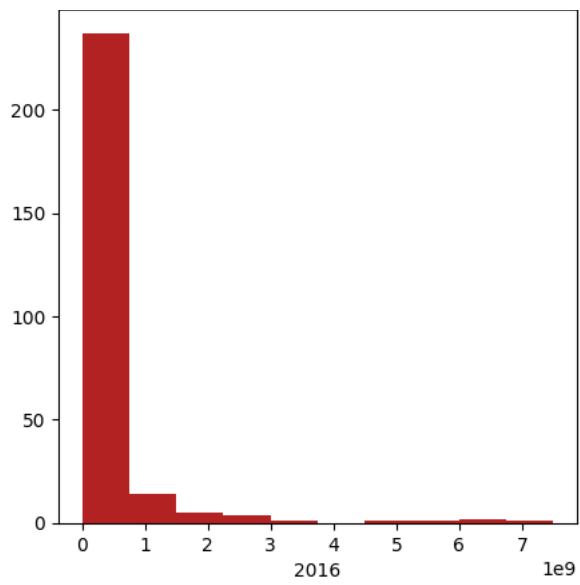


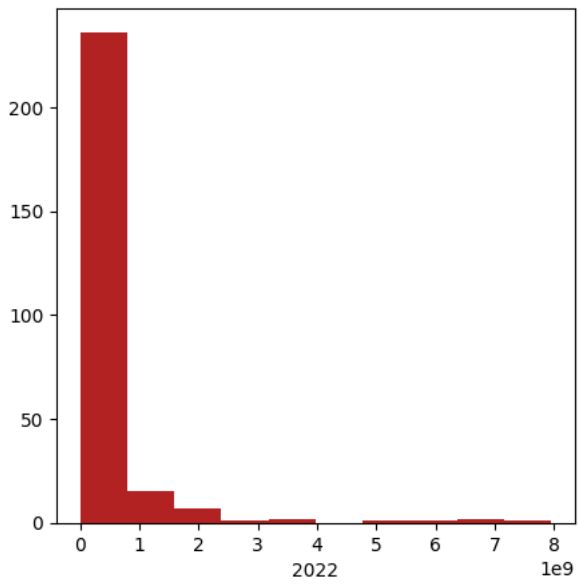
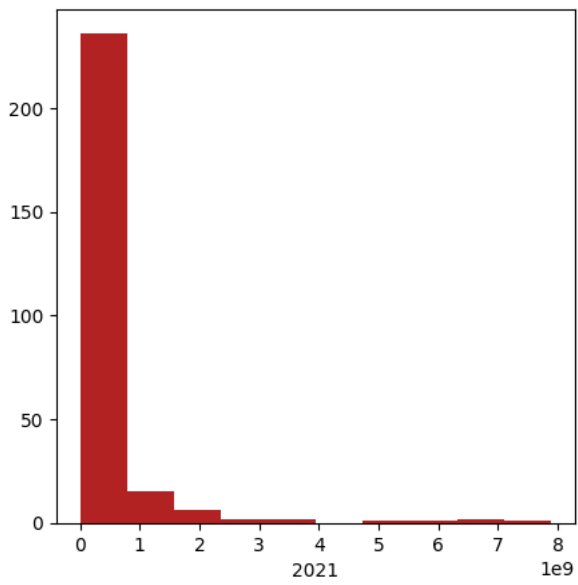
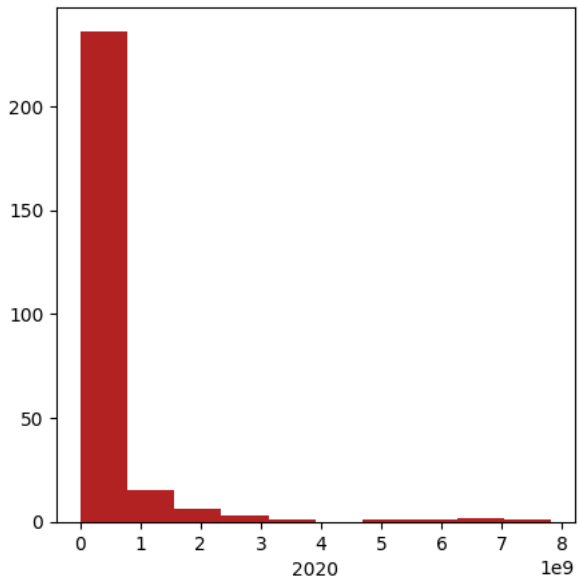
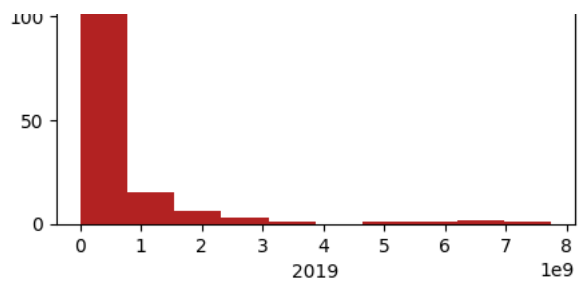










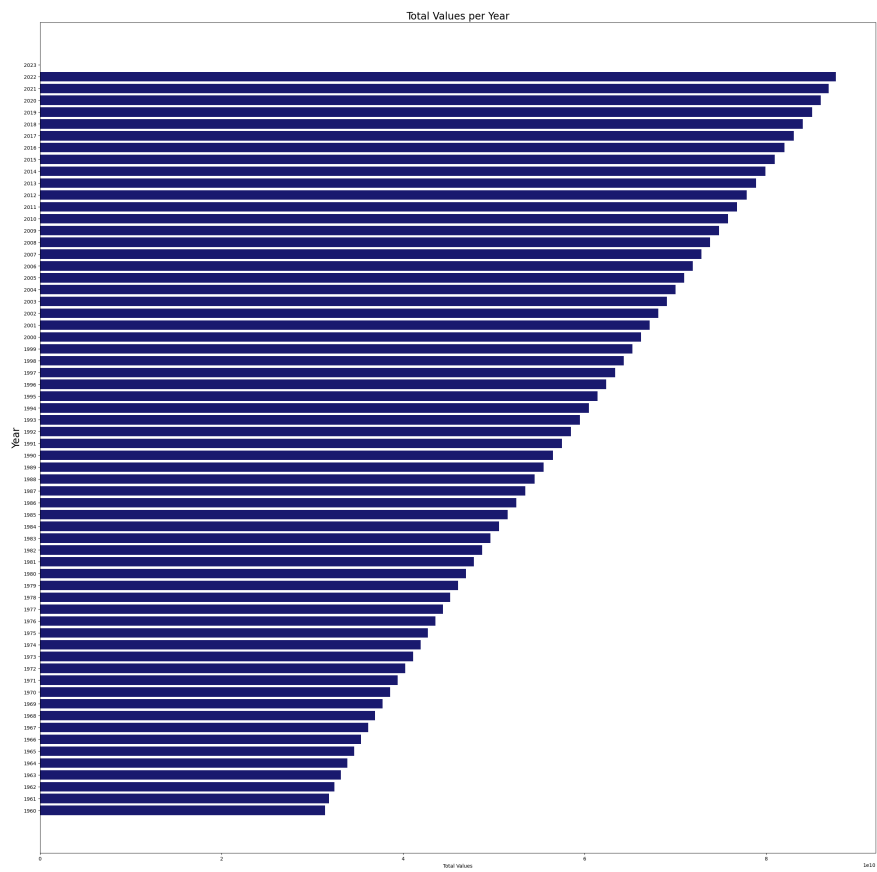


```
years = df.columns[1:]

total_values = df[years].sum()

plt.figure(figsize=(30, 30))
plt.barh(years, total_values,color='#191970')
plt.xlabel('Total Values')
plt.ylabel('Year', size=20)
plt.title('Total Values per Year', size=20)
plt.show()
```



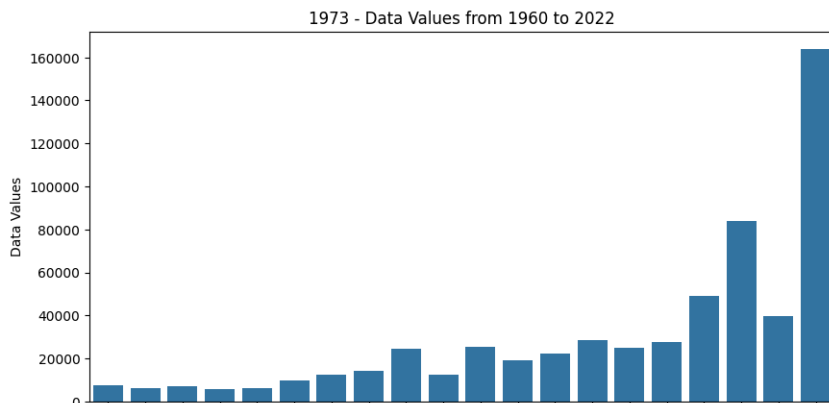
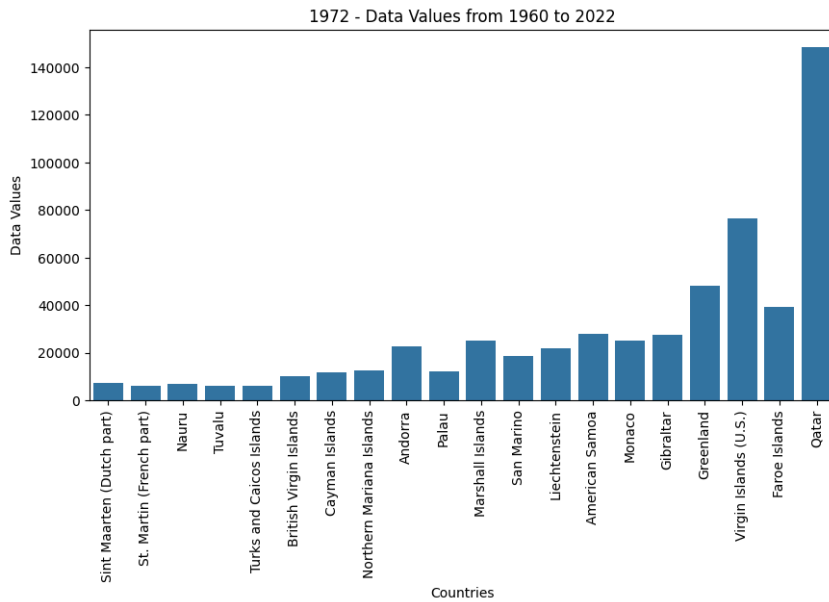
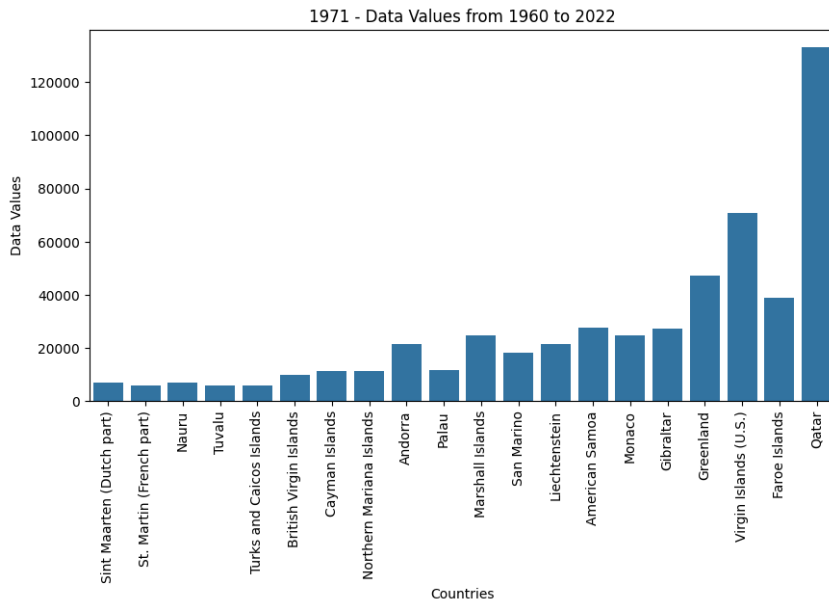
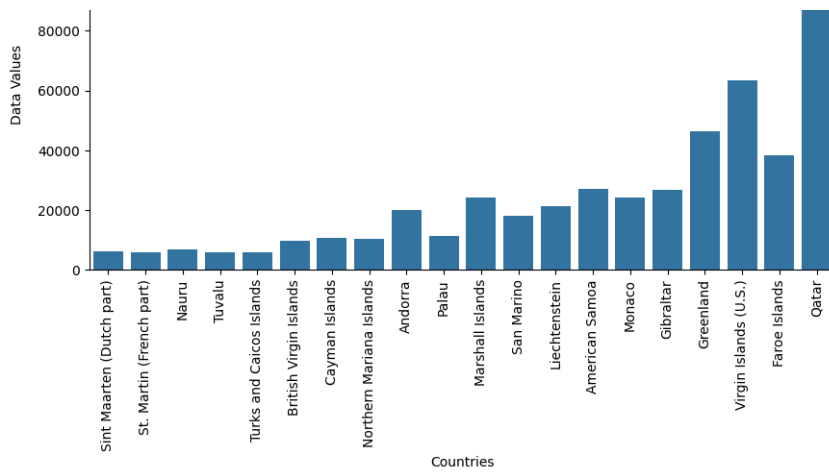


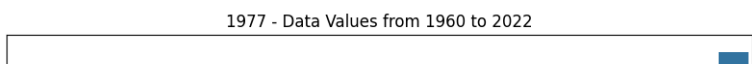
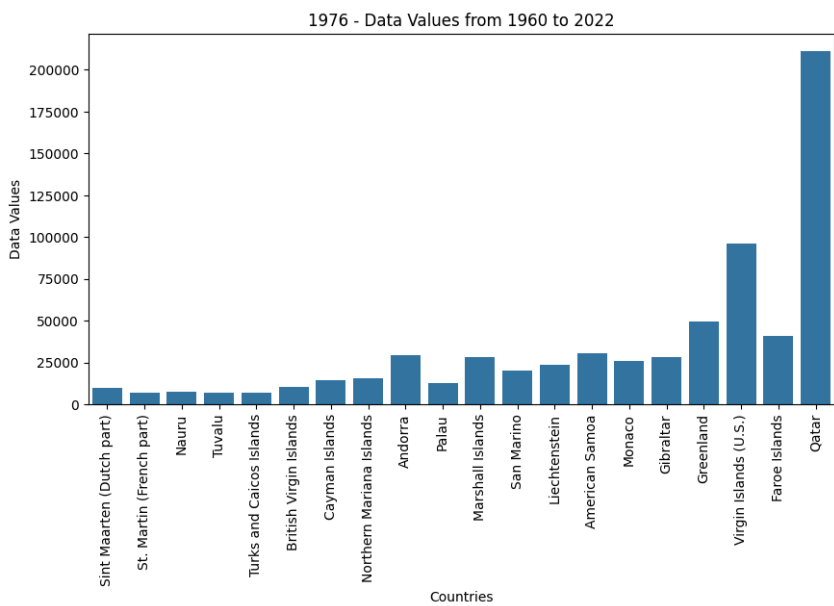
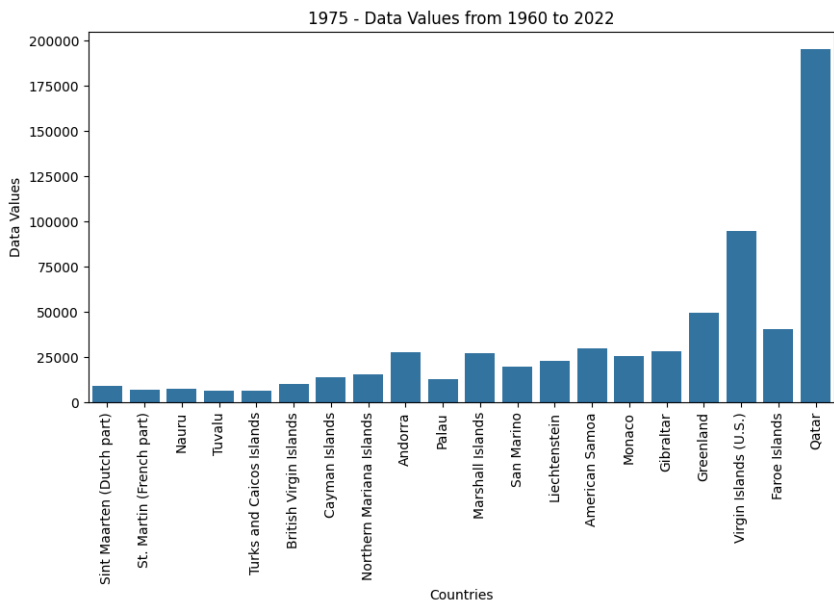
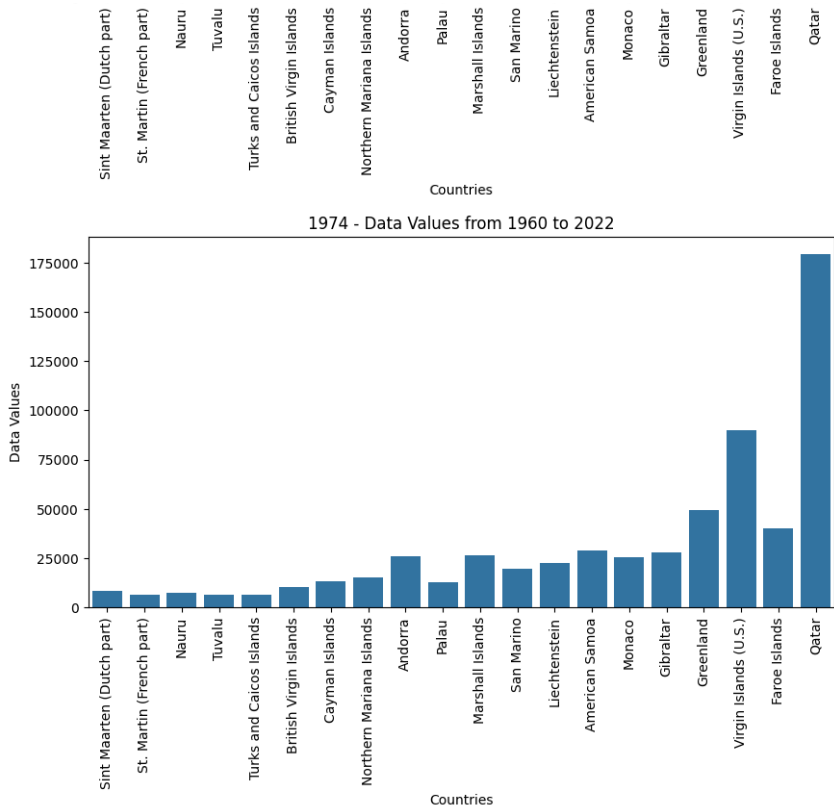
```
country_by_1960 = df.sort_values(by='1960').head(20)
country_by_1960
```

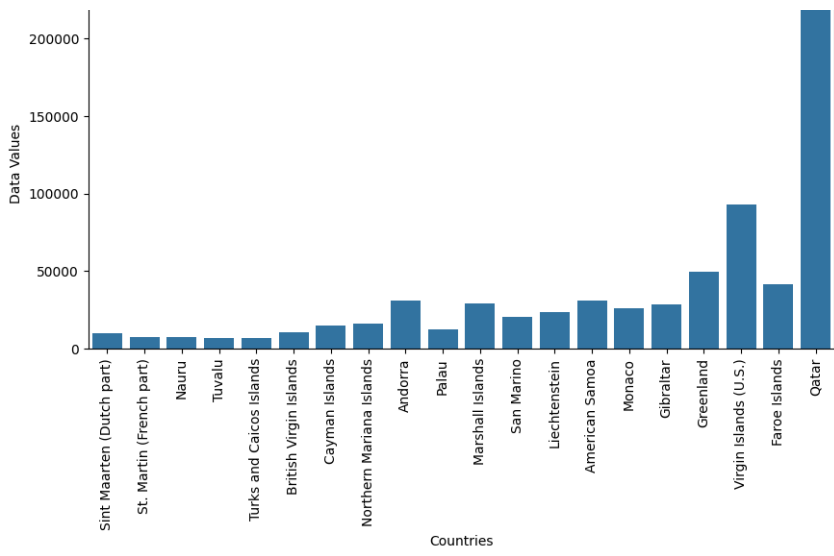
	Country Name	1960	1961	1962	1963	1964	1965	1966	1967
225	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0	3481.0	3811.0	4161.0	4531.0	4930.0
147	St. Martin (French part)	4135.0	4258.0	4388.0	4524.0	4666.0	4832.0	5044.0	5294.0
179	Nauru	4582.0	4753.0	4950.0	5198.0	5484.0	5804.0	6021.0	6114.0
245	Tuvalu	5404.0	5436.0	5471.0	5503.0	5525.0	5548.0	5591.0	5657.0
228	Turks and Caicos Islands	5604.0	5625.0	5633.0	5634.0	5642.0	5650.0	5652.0	5662.0
255	British Virgin Islands	7850.0	7885.0	7902.0	7919.0	7949.0	8018.0	8139.0	8337.0
52	Cayman Islands	8473.0	8626.0	8799.0	8985.0	9172.0	9366.0	9566.0	9771.0
164	Northern Mariana Islands	8702.0	8965.0	9252.0	9561.0	9890.0	10229.0	10577.0	10720.0
6	Andorra	9443.0	10216.0	11014.0	11839.0	12690.0	13563.0	14546.0	15745.0
188	Palau	9446.0	9639.0	9851.0	10076.0	10318.0	10563.0	10813.0	10992.0
155	Marshall Islands	15374.0	15867.0	16387.0	16947.0	17537.0	18154.0	18794.0	19665.0
212	San Marino	15556.0	15895.0	16242.0	16583.0	16926.0	17273.0	17588.0	17907.0
137	Liechtenstein	16472.0	16834.0	17221.0	17625.0	18058.0	18500.0	18957.0	19467.0
11	American Samoa	20085.0	20626.0	21272.0	21949.0	22656.0	23391.0	24122.0	24848.0
149	Monaco	21797.0	21907.0	22106.0	22442.0	22766.0	23022.0	23198.0	23281.0
84	Gibraltar	21822.0	21907.0	22249.0	22796.0	23347.0	23910.0	24477.0	25047.0
91	Greenland	32500.0	33700.0	35000.0	36400.0	37600.0	39200.0	40500.0	41900.0
256	Virgin Islands (U.S.)	32500.0	34300.0	35000.0	39800.0	40800.0	43500.0	46200.0	49100.0
78	Faroe Islands	34154.0	34572.0	34963.0	35385.0	35841.0	36346.0	36825.0	37234.0
200	Qatar	36385.0	40111.0	45123.0	50950.0	57531.0	64843.0	73102.0	82517.0

20 rows × 65 columns

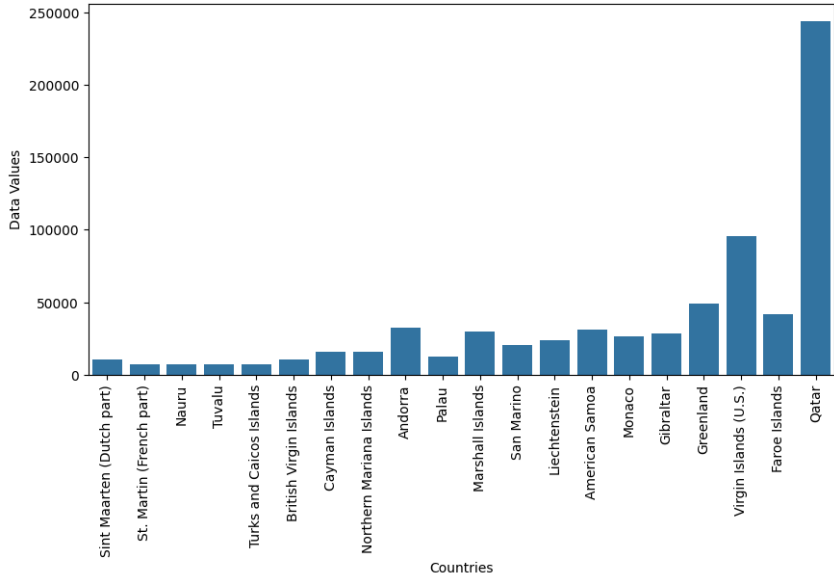
```
country_by_1960_t = country_by_1960.set_index('Country Name').T
for country_name, data_values in country_by_1960_t.iterrows():
    fig = plt.figure(figsize=(10, 5))
    sns.barplot(x=data_values.index, y=data_values.values)
    plt.xlabel('Countries')
    plt.ylabel('Data Values')
    plt.title(f"{country_name} - Data Values from 1960 to 2022")
    plt.xticks(rotation=90)
    plt.show()
```



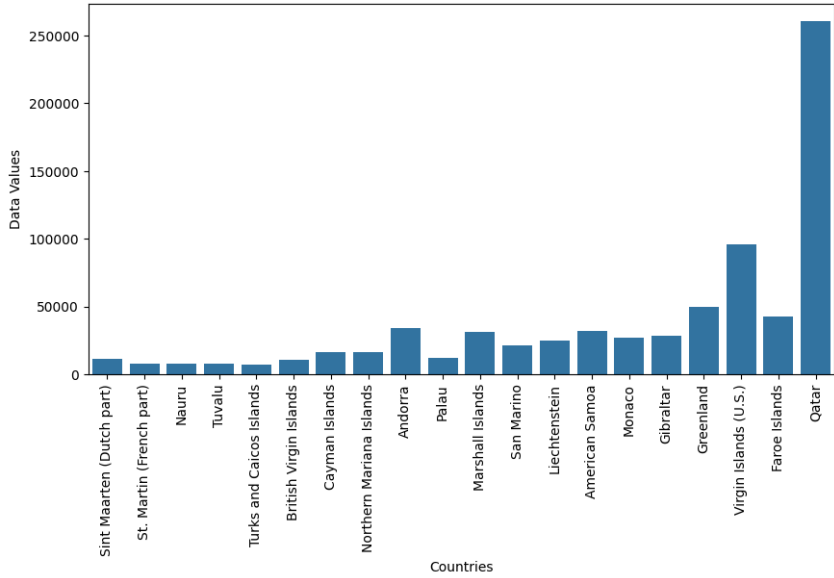




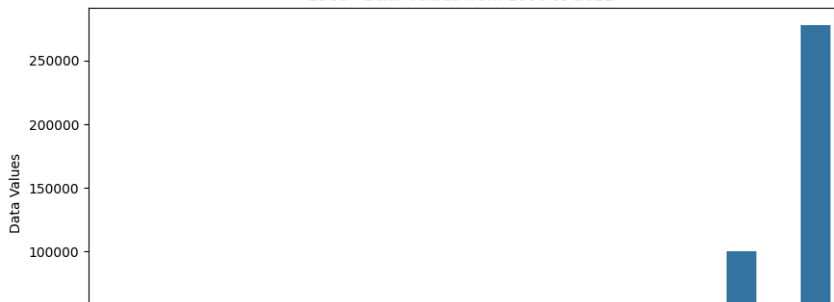
1978 - Data Values from 1960 to 2022

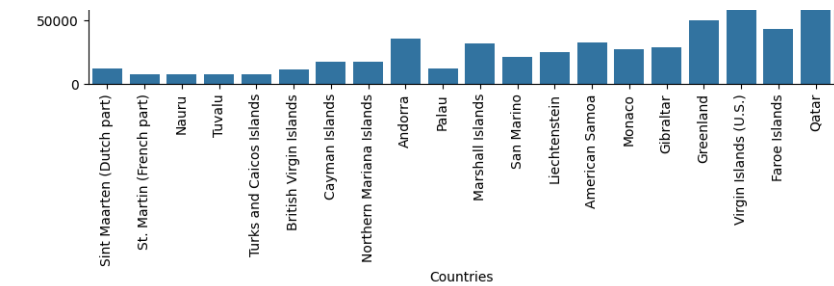


1979 - Data Values from 1960 to 2022

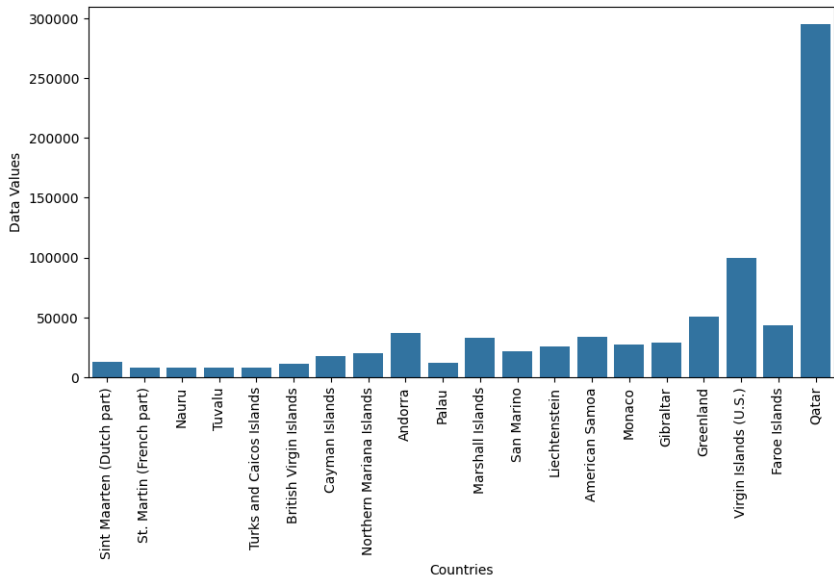


1980 - Data Values from 1960 to 2022

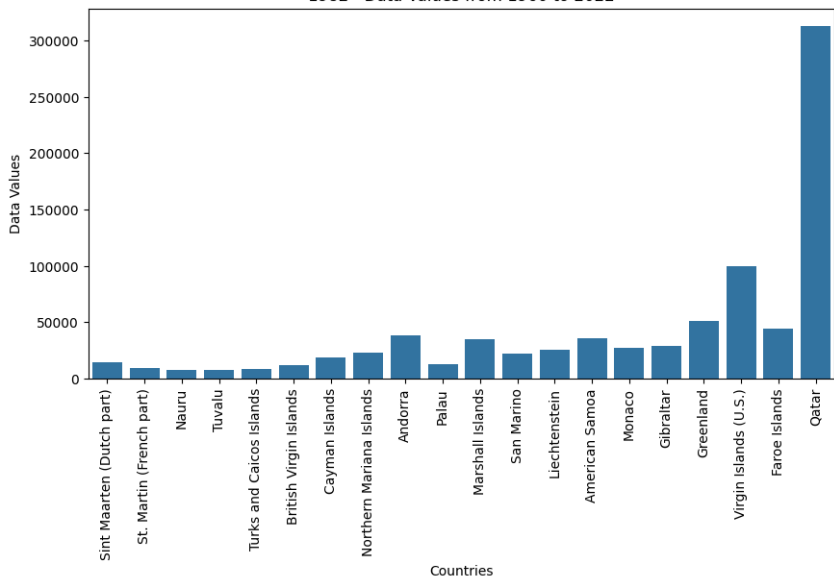




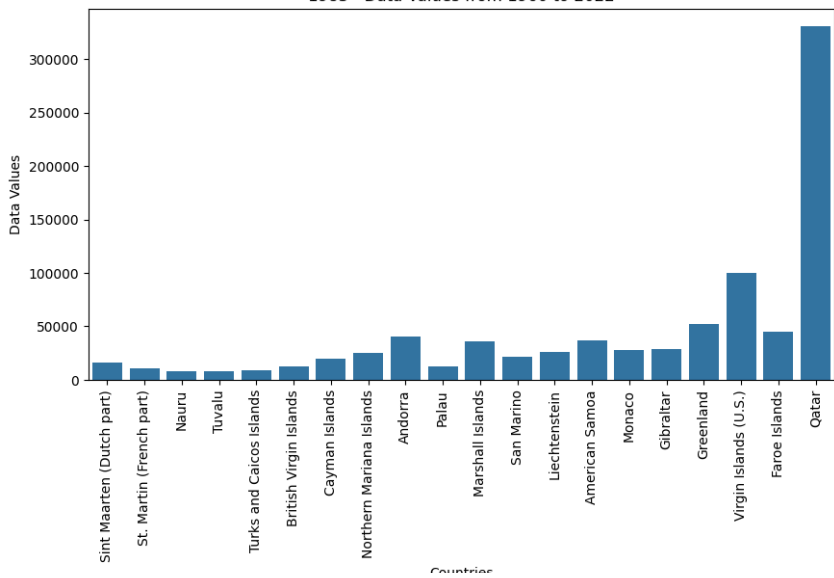
1981 - Data Values from 1960 to 2022

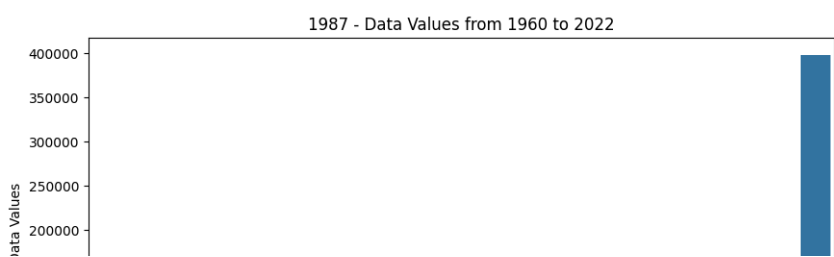
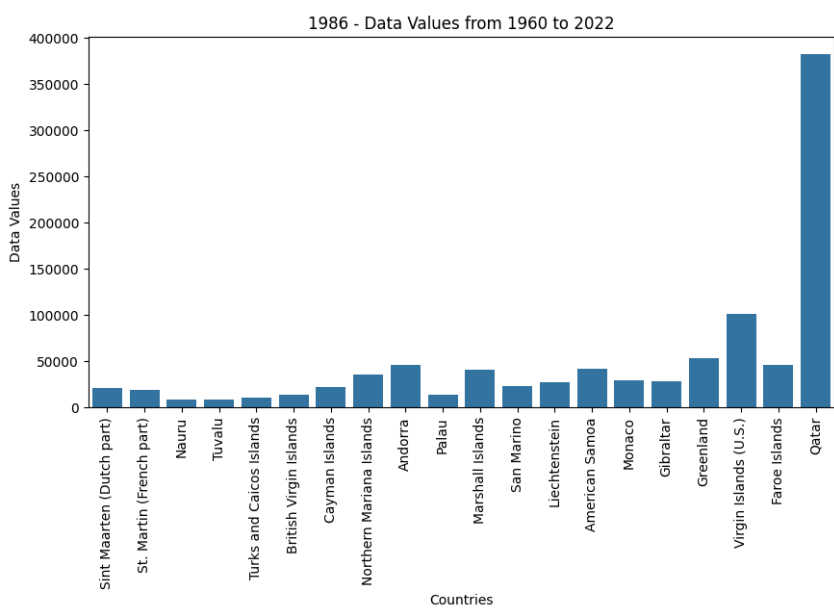
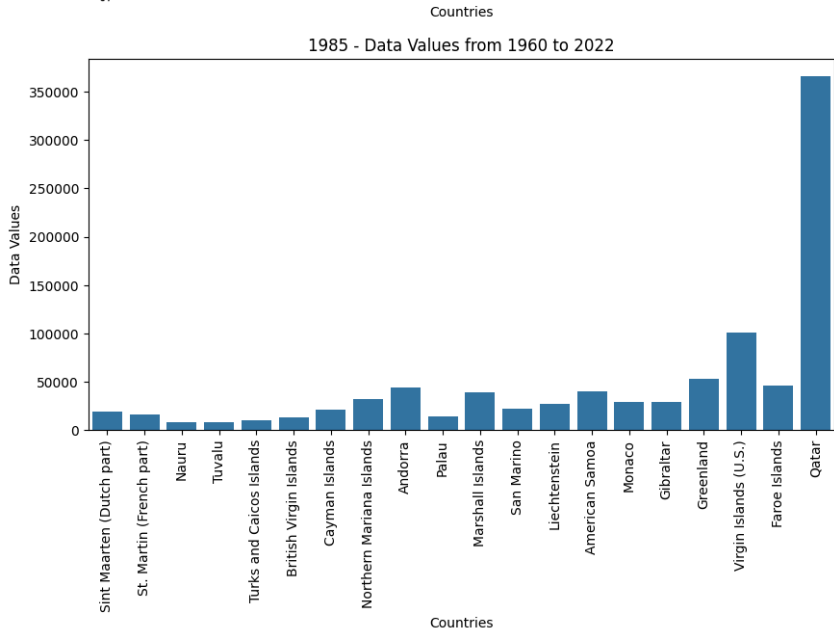
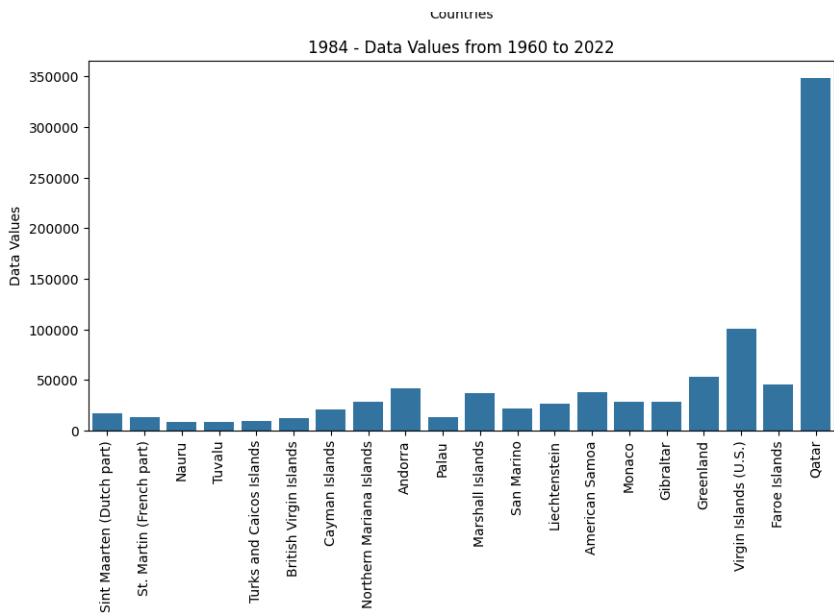


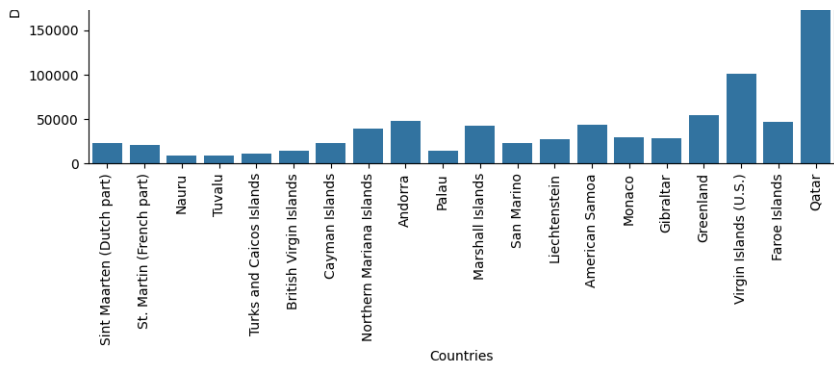
1982 - Data Values from 1960 to 2022



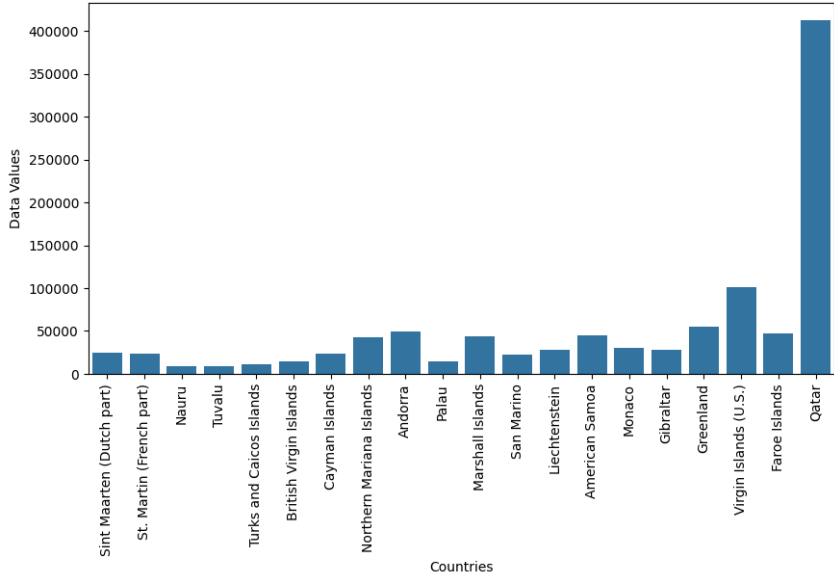
1983 - Data Values from 1960 to 2022



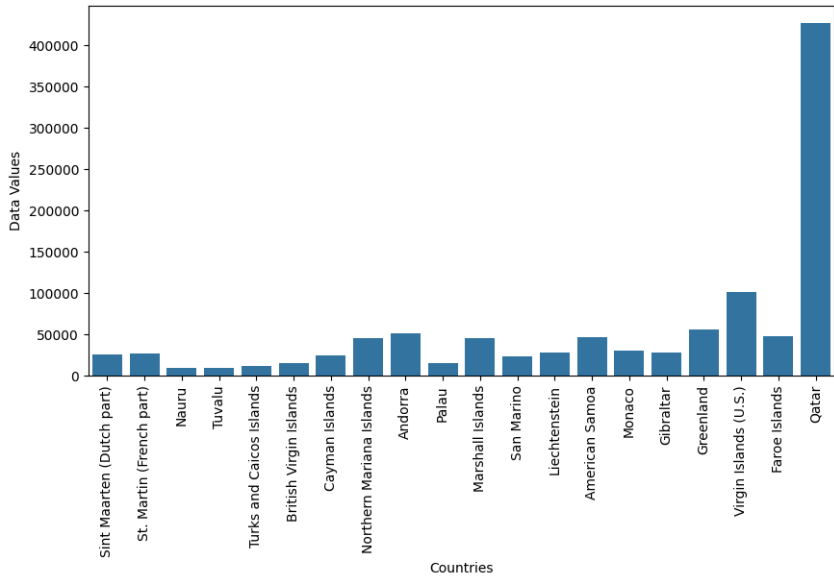




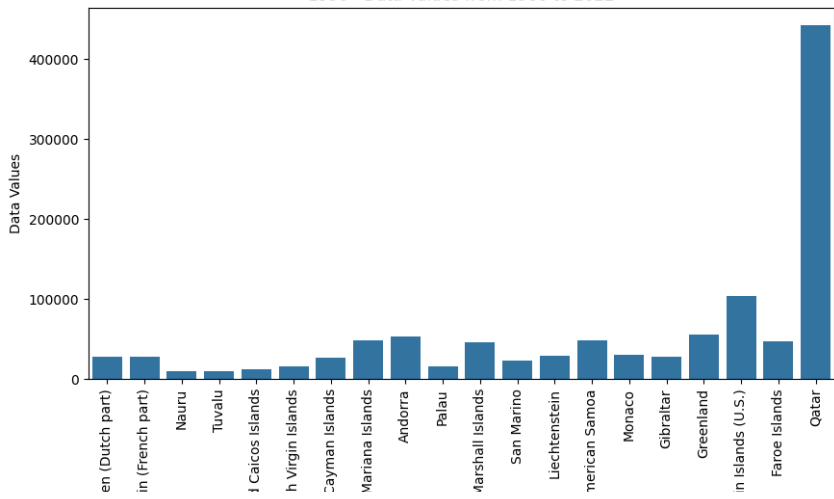
1988 - Data Values from 1960 to 2022



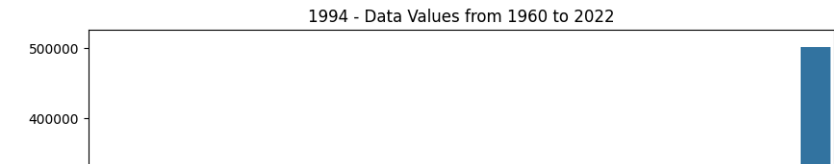
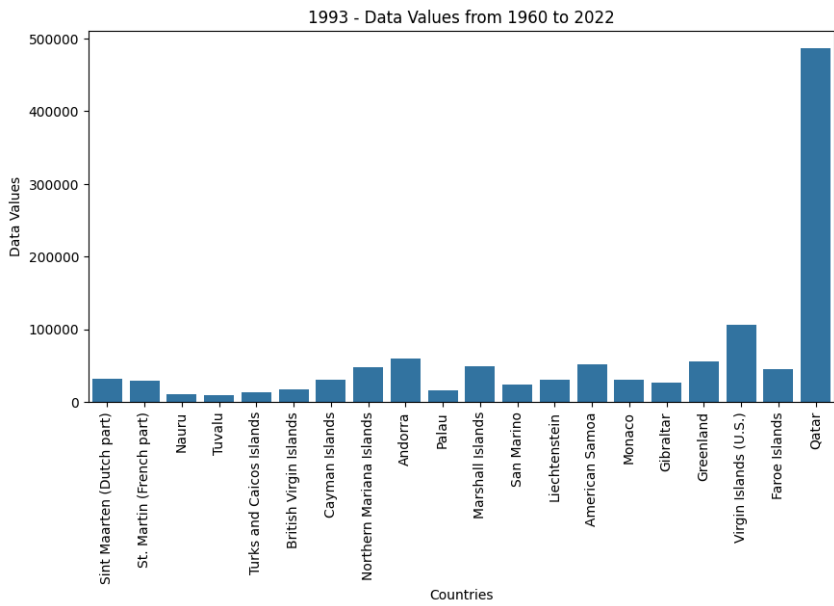
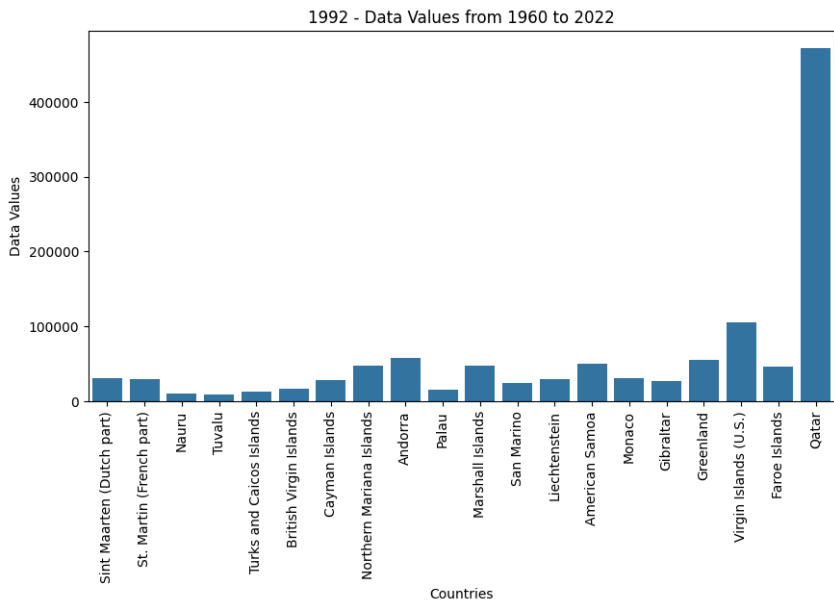
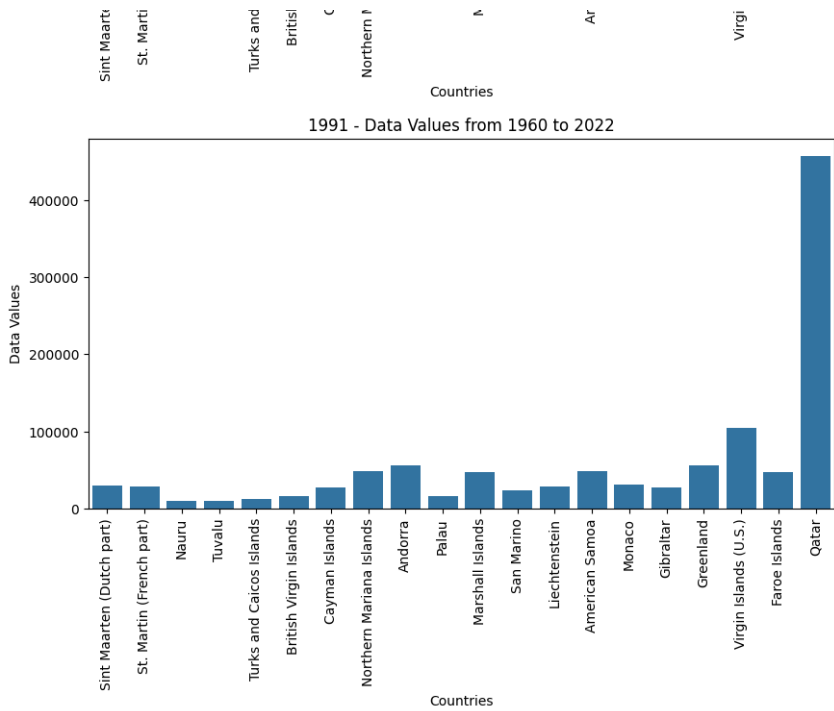
1989 - Data Values from 1960 to 2022

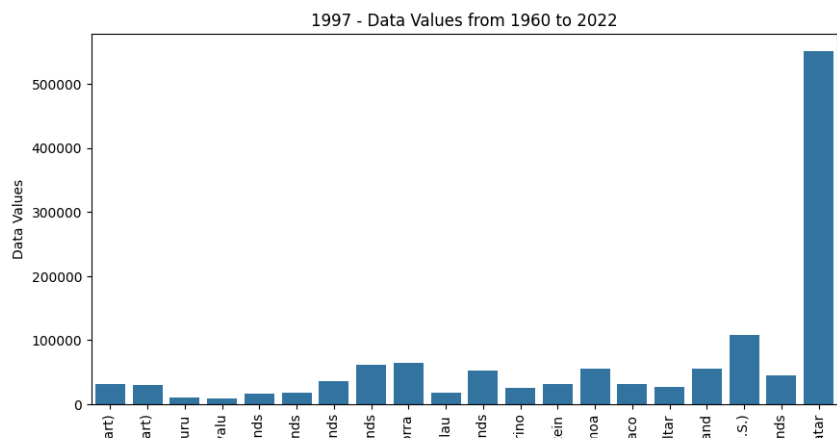
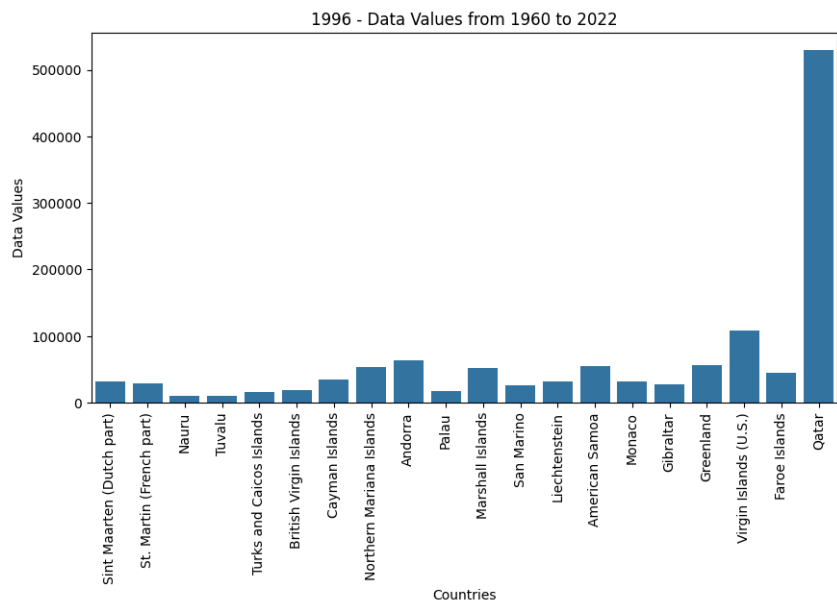
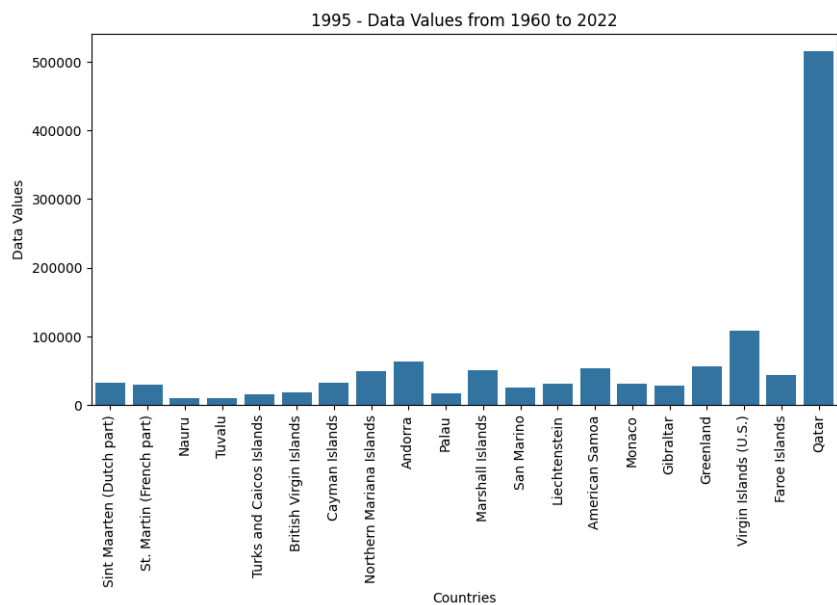
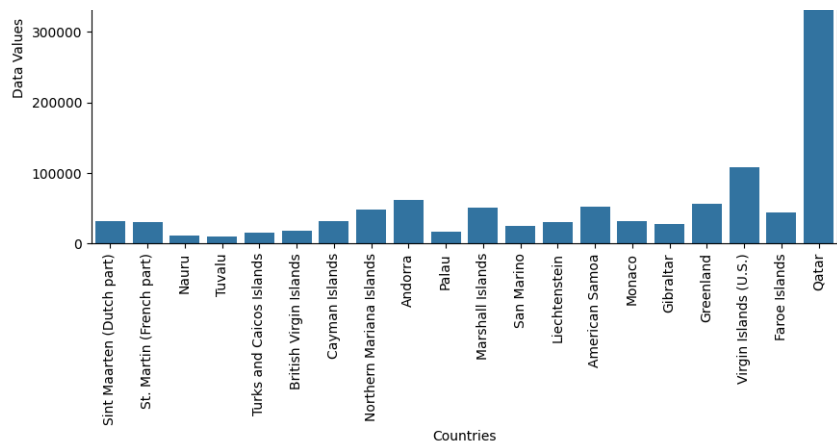


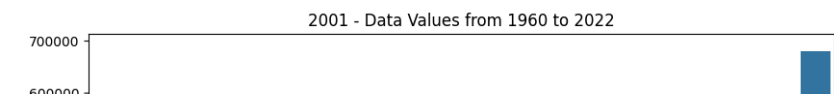
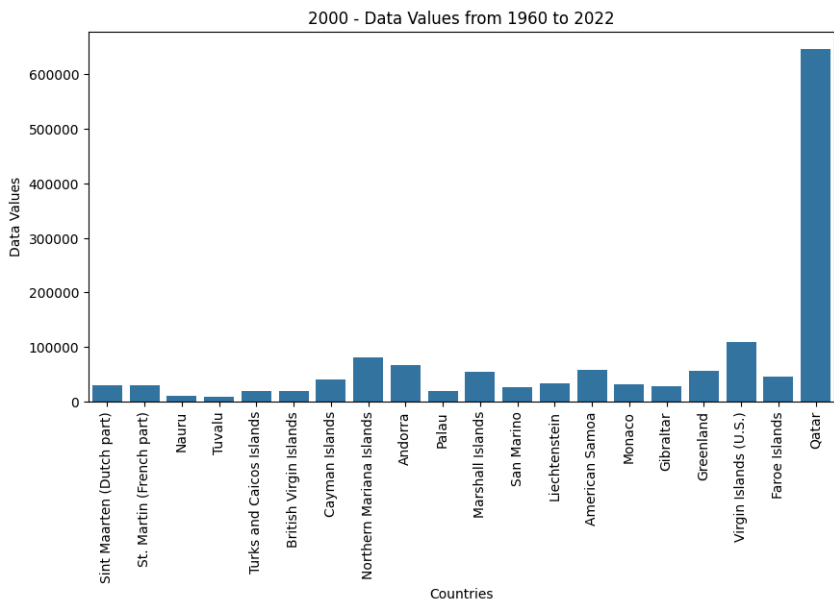
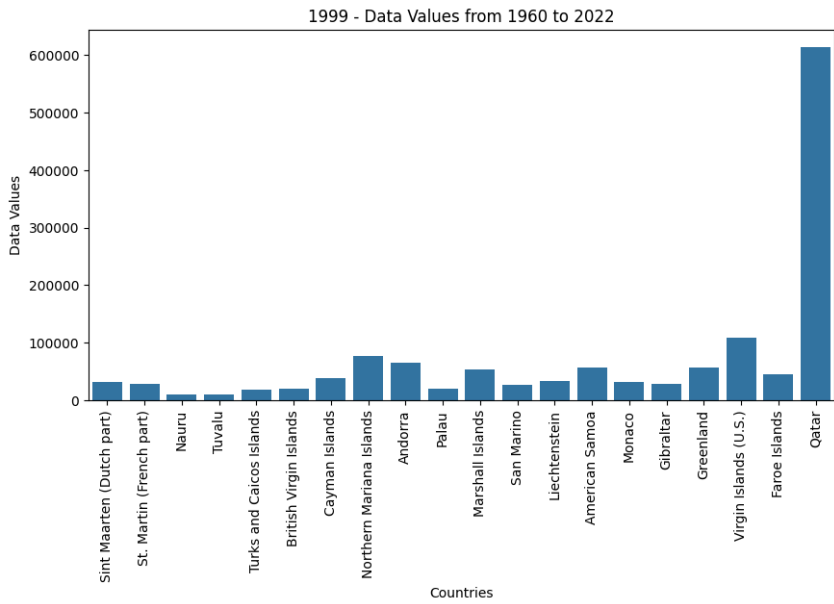
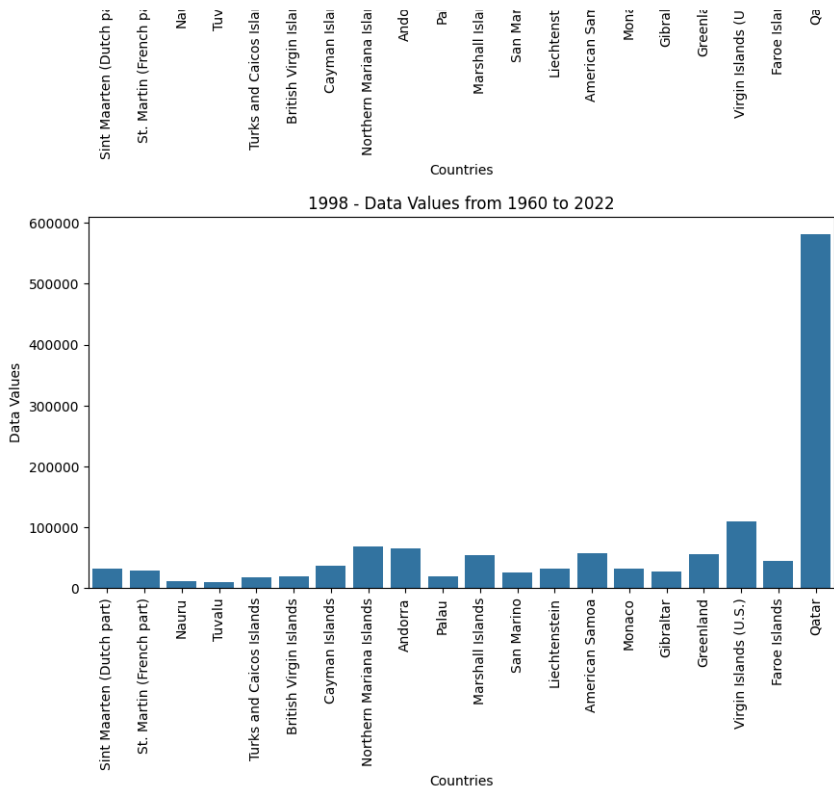
1990 - Data Values from 1960 to 2022

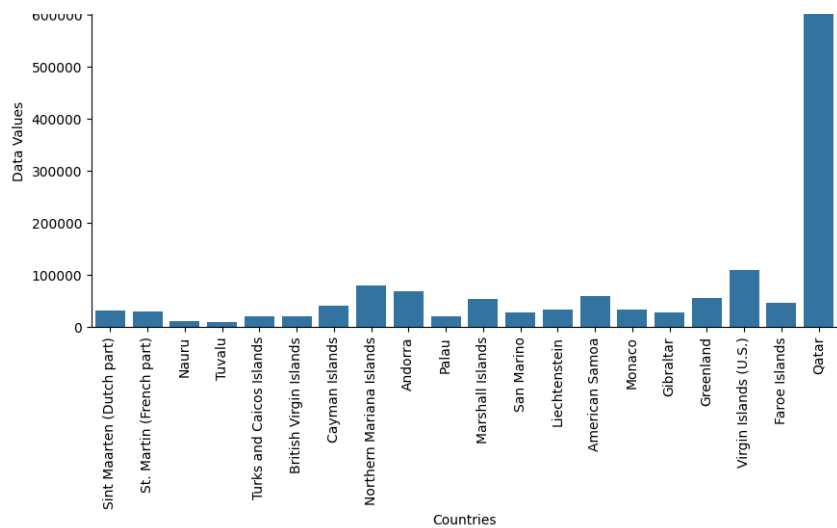




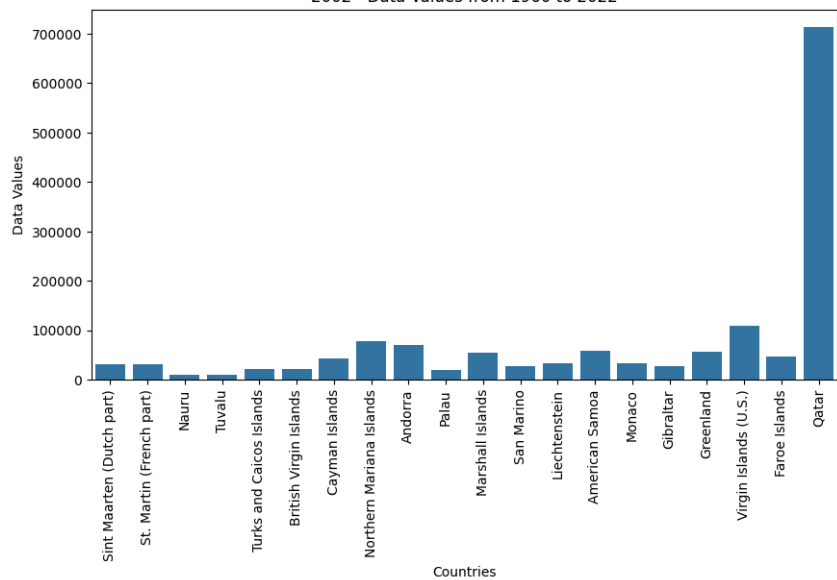




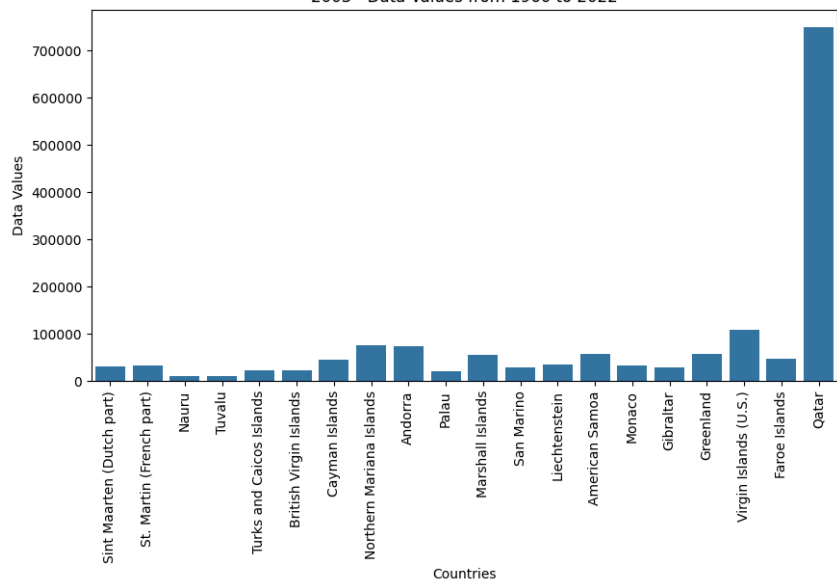




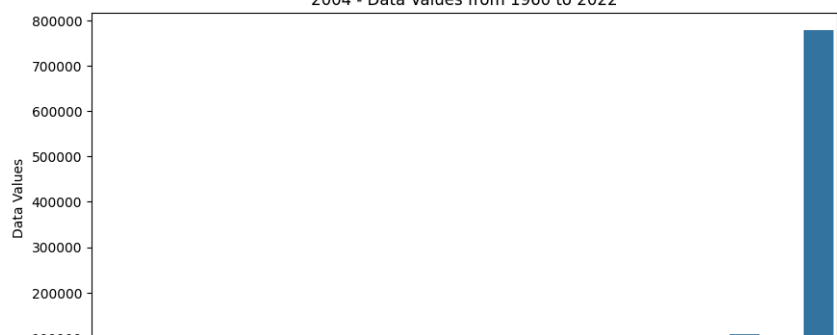
2002 - Data Values from 1960 to 2022

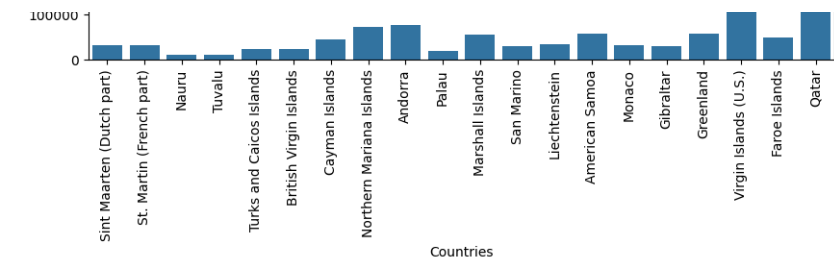


2003 - Data Values from 1960 to 2022

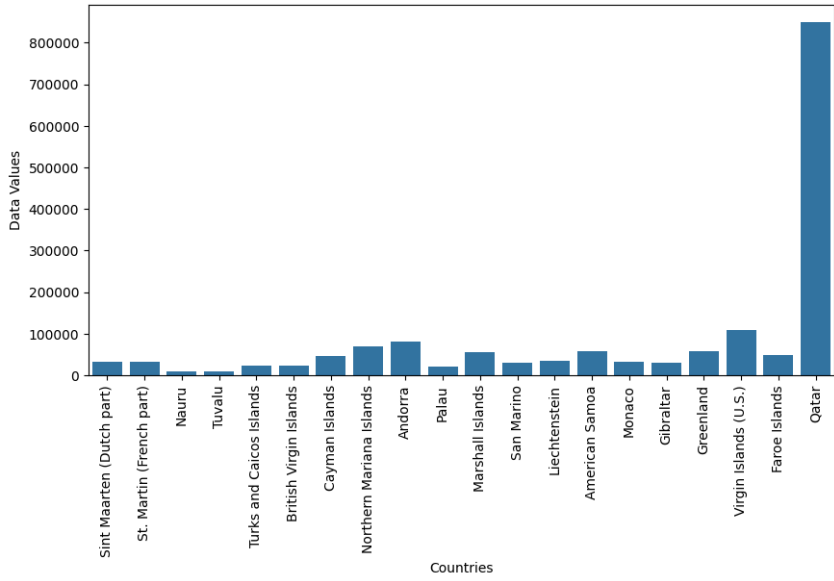


2004 - Data Values from 1960 to 2022

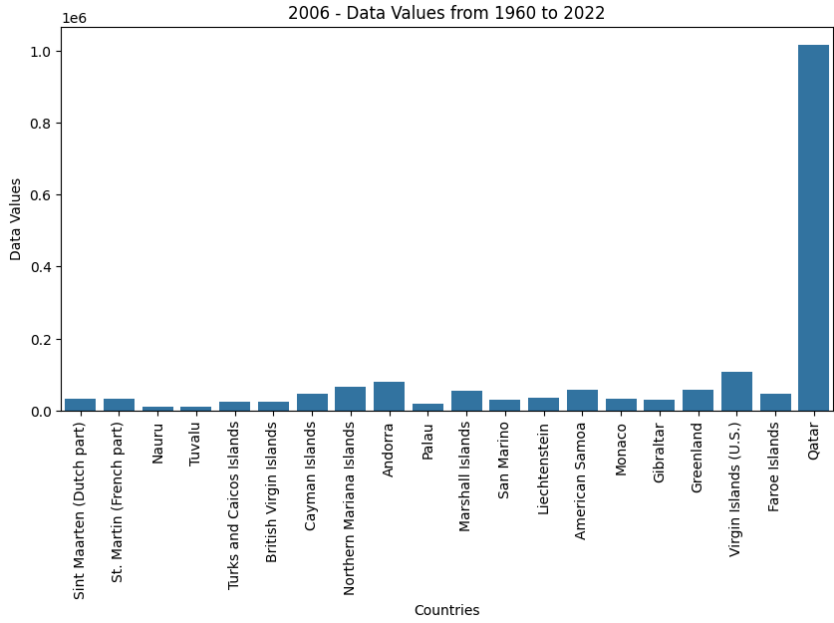




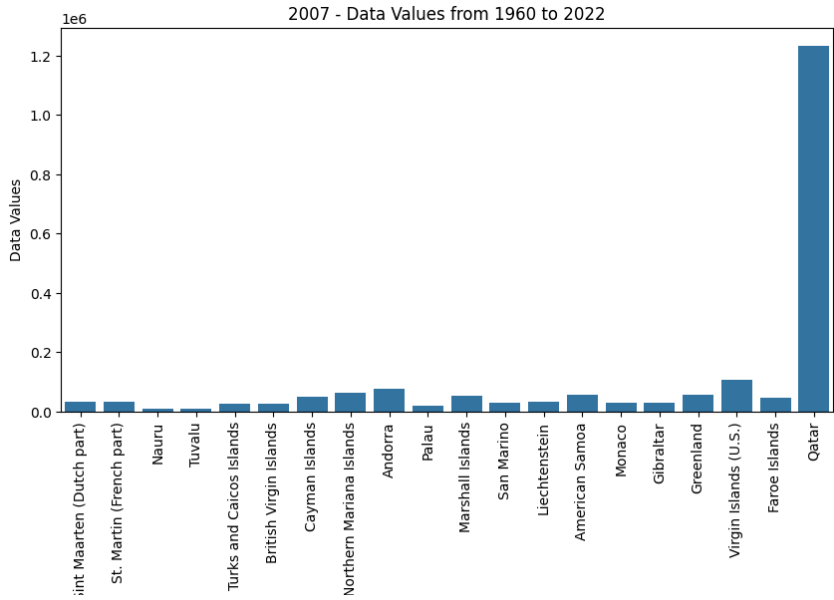
2005 - Data Values from 1960 to 2022

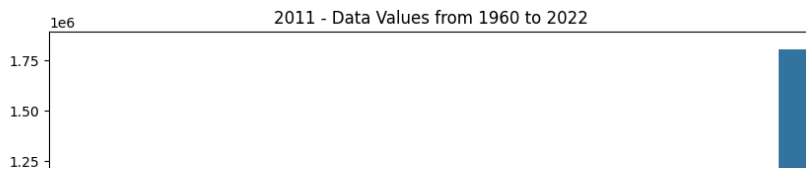
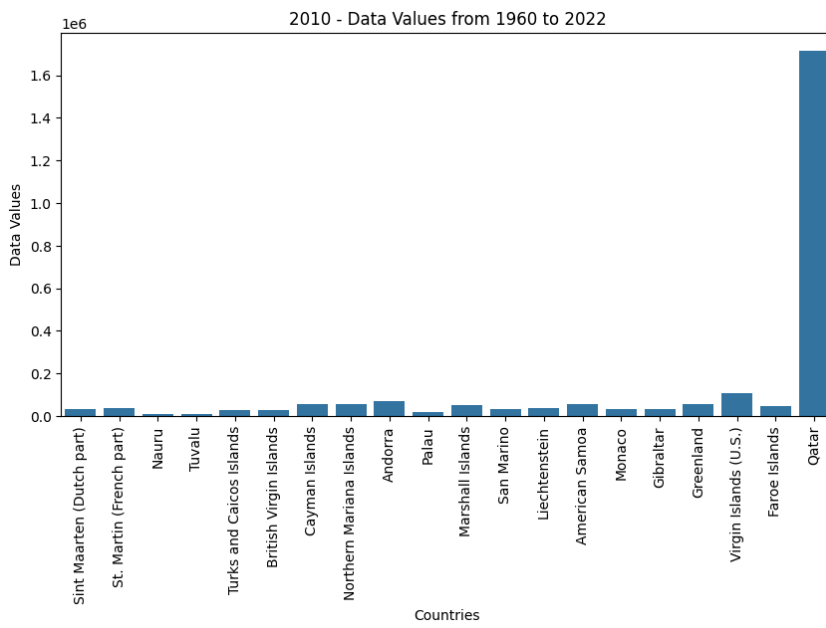
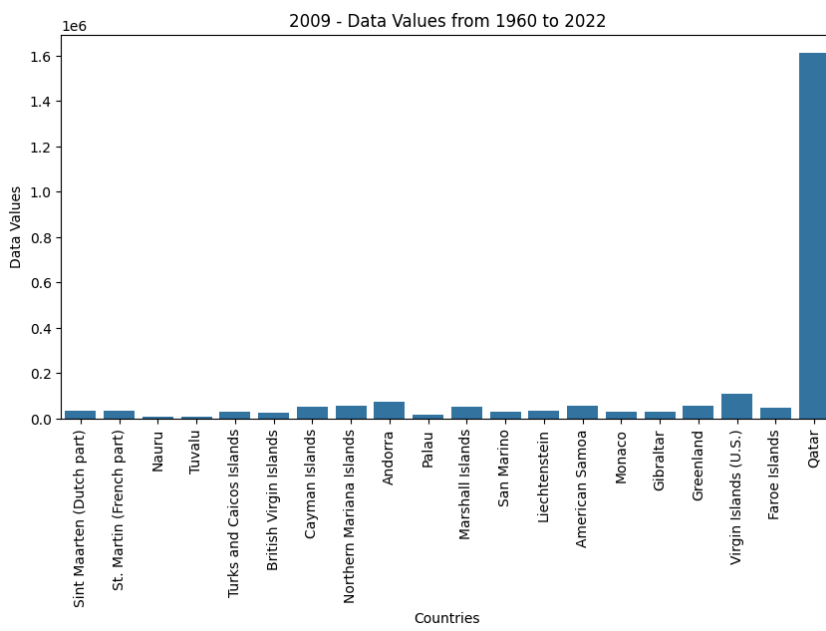
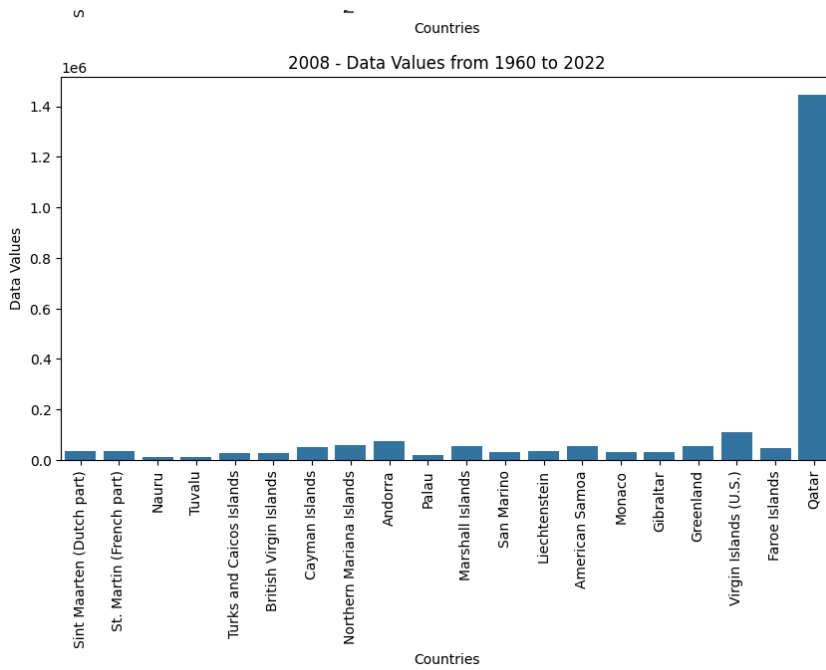


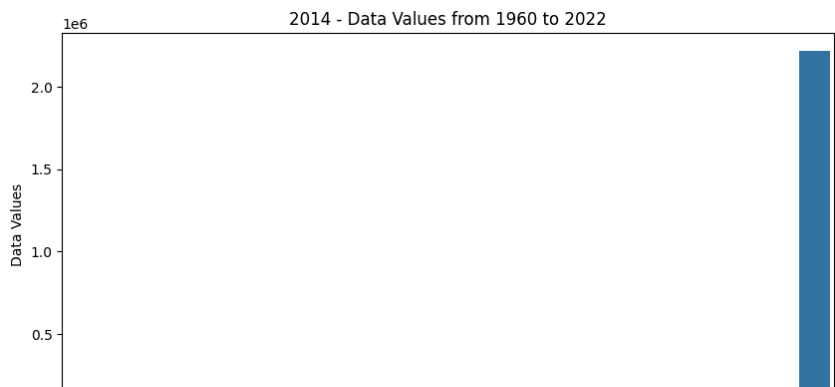
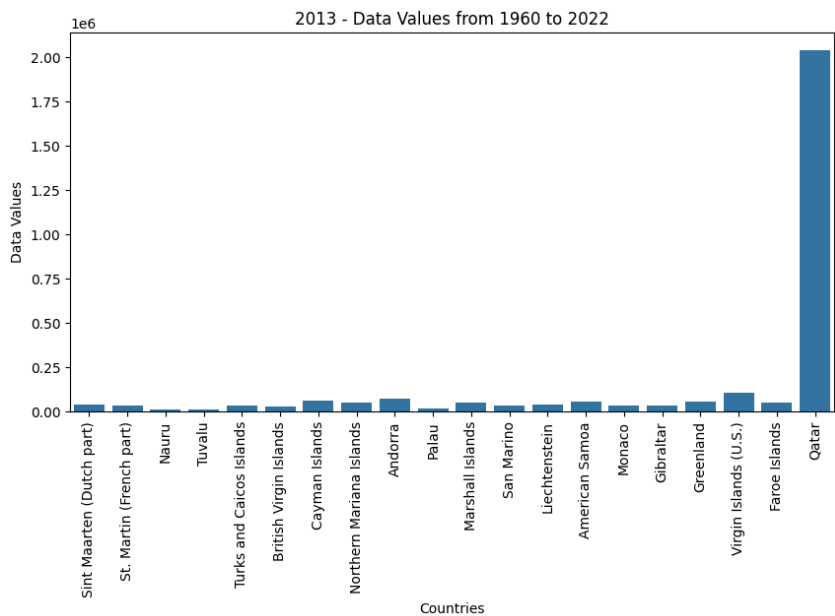
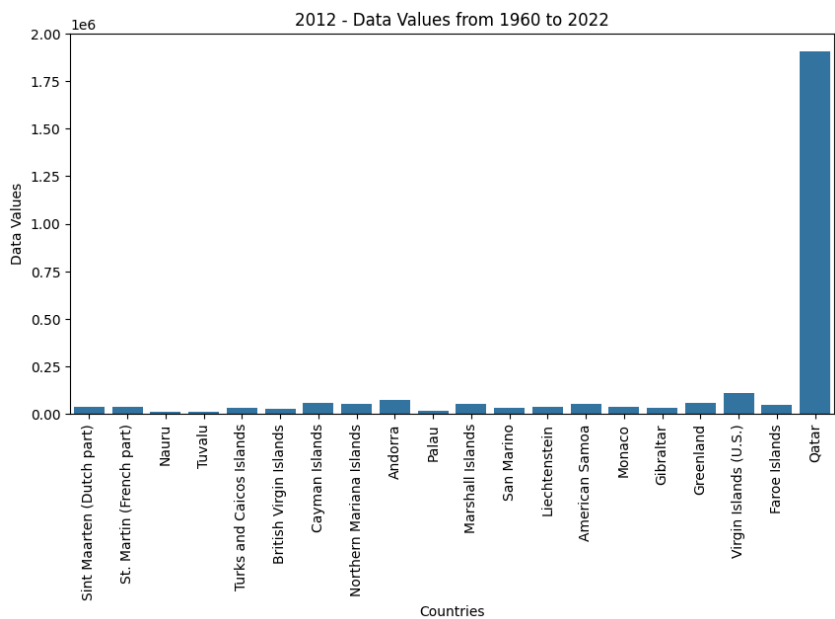
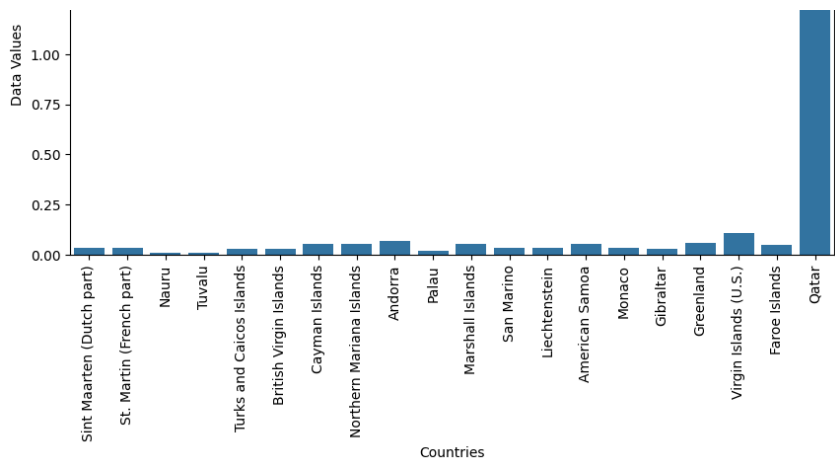
2006 - Data Values from 1960 to 2022

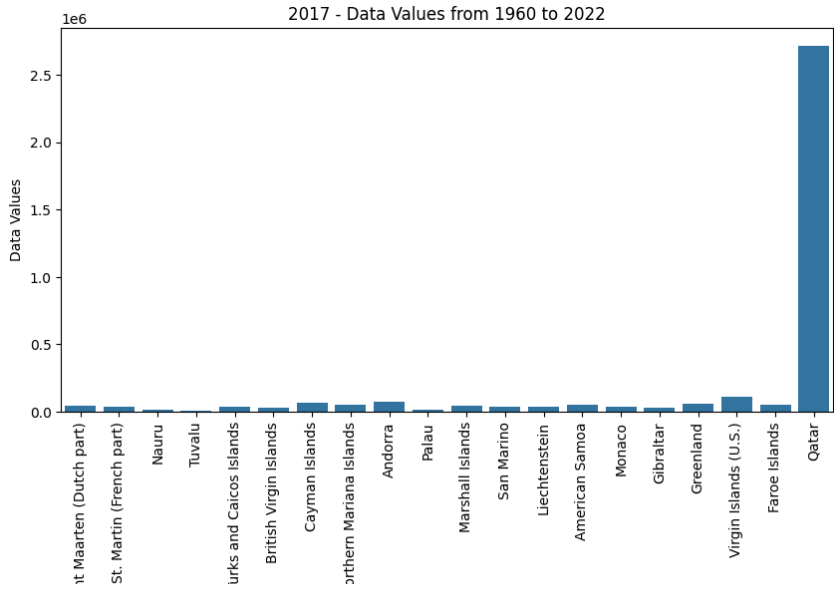
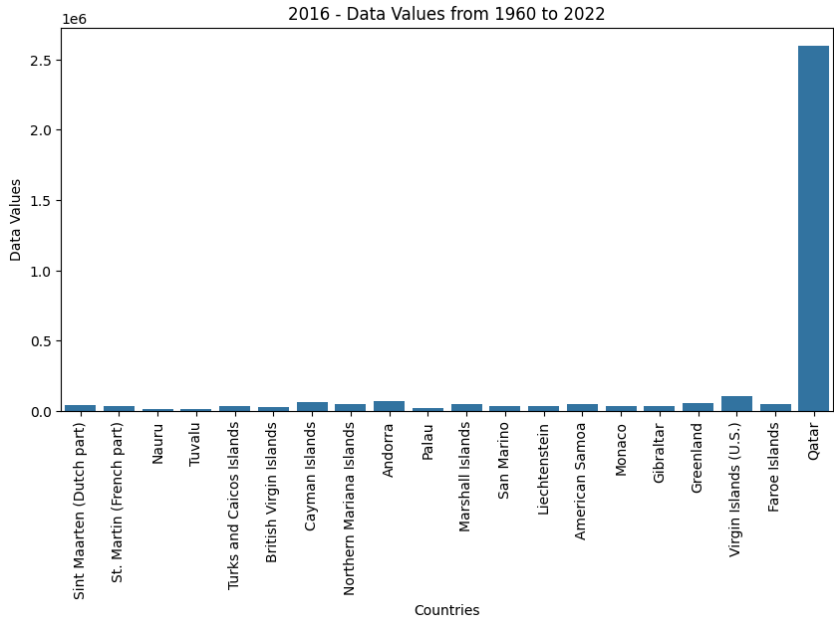
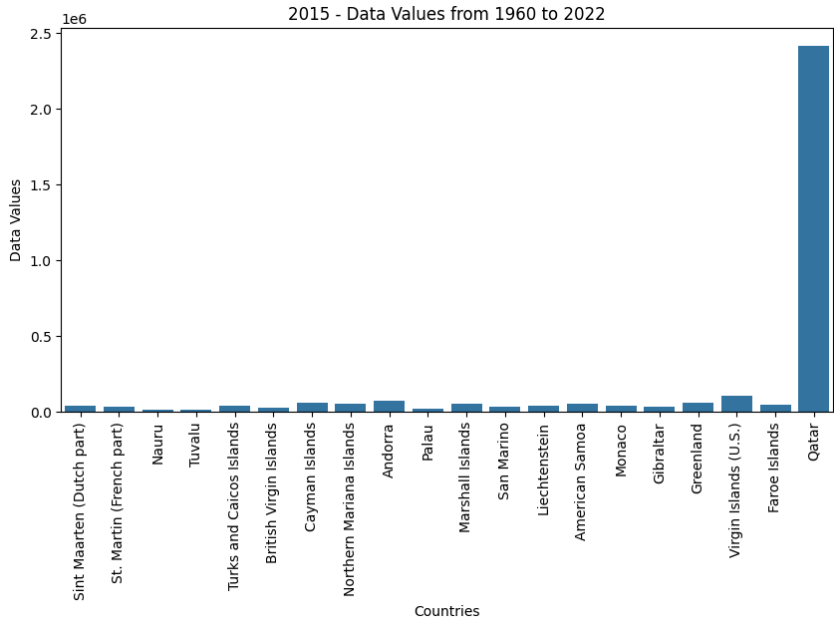
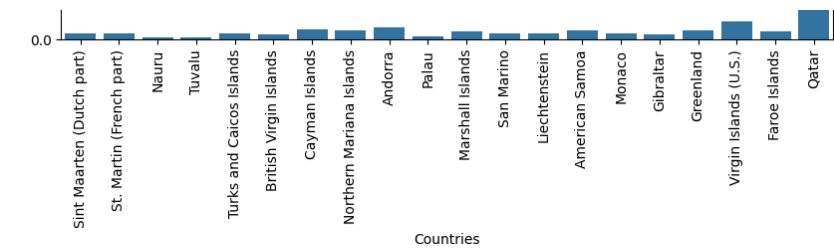


2007 - Data Values from 1960 to 2022

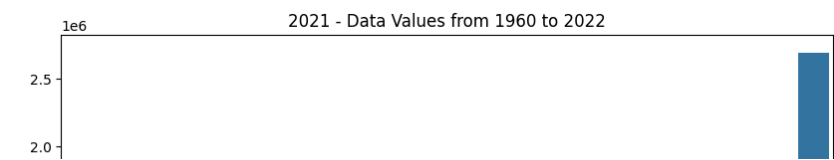
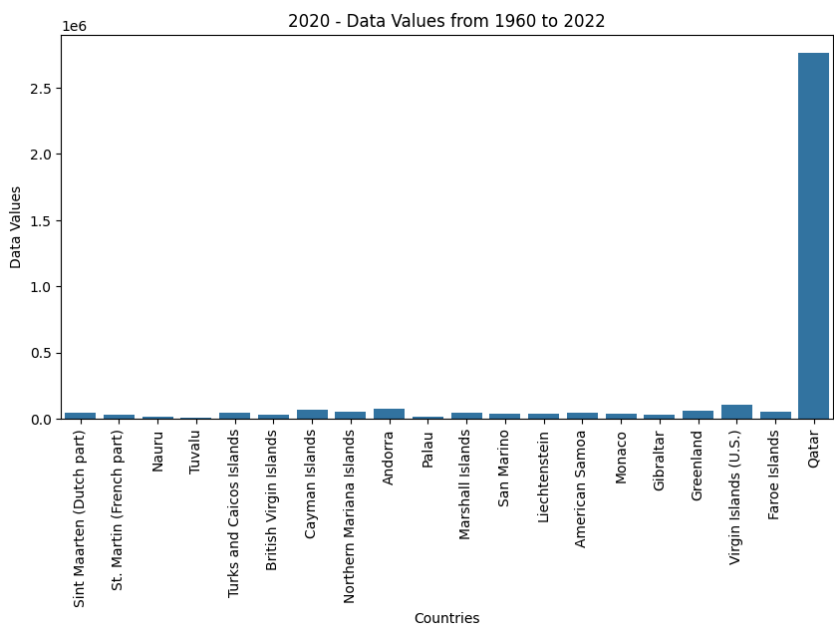
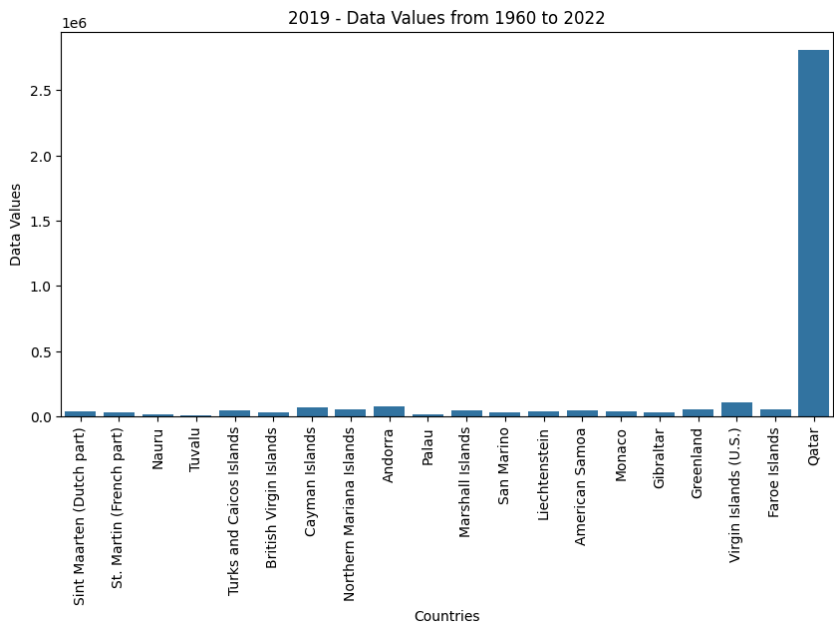
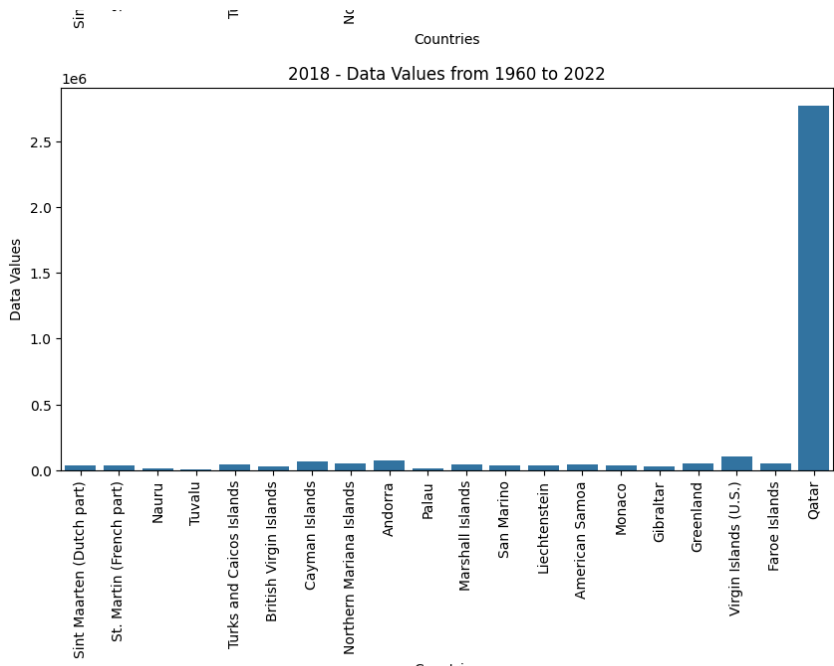












ta Values  
1.5























```
country_by_2022 = df.sort_values(by='2022').head(20)
country_by_2022
```

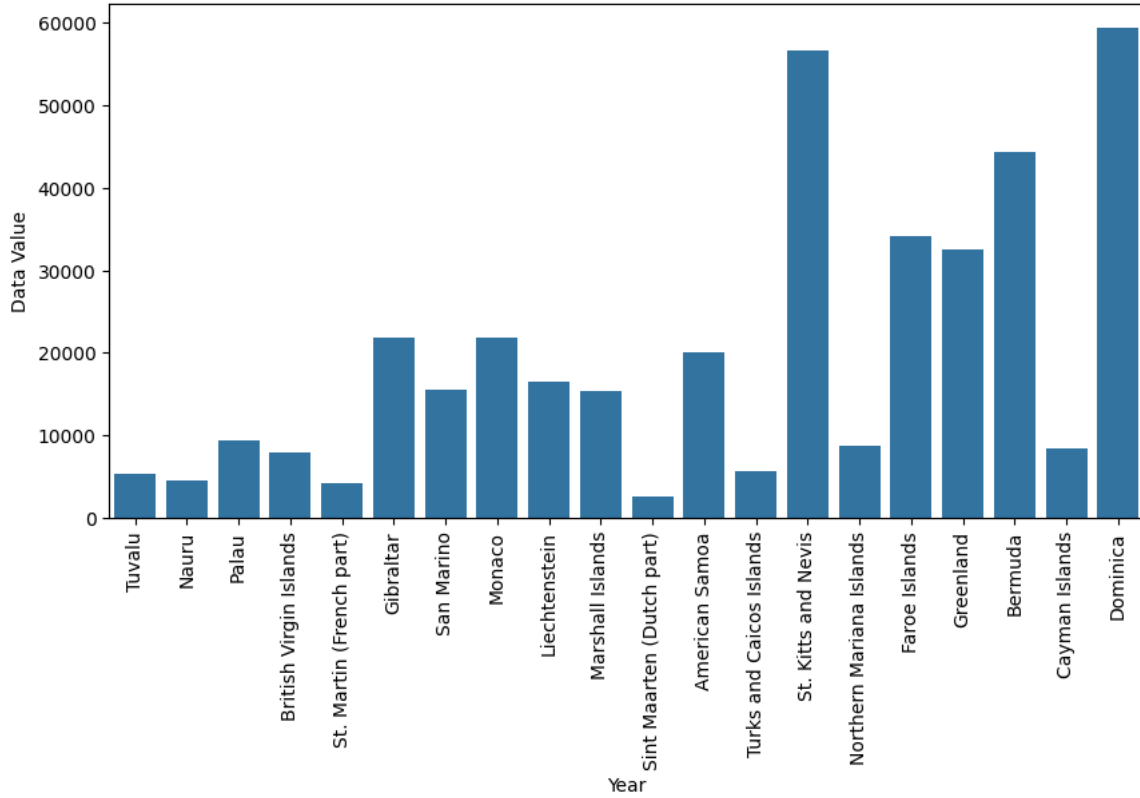
	Country Name	1960	1961	1962	1963	1964	1965	1966	1967
245	Tuvalu	5404.0	5436.0	5471.0	5503.0	5525.0	5548.0	5591.0	5657.0
179	Nauru	4582.0	4753.0	4950.0	5198.0	5484.0	5804.0	6021.0	6114.0
188	Palau	9446.0	9639.0	9851.0	10076.0	10318.0	10563.0	10813.0	10992.0
255	British Virgin Islands	7850.0	7885.0	7902.0	7919.0	7949.0	8018.0	8139.0	8337.0
147	St. Martin (French part)	4135.0	4258.0	4388.0	4524.0	4666.0	4832.0	5044.0	5294.0
84	Gibraltar	21822.0	21907.0	22249.0	22796.0	23347.0	23910.0	24477.0	25047.0
212	San Marino	15556.0	15895.0	16242.0	16583.0	16926.0	17273.0	17588.0	17907.0
149	Monaco	21797.0	21907.0	22106.0	22442.0	22766.0	23022.0	23198.0	23281.0
137	Liechtenstein	16472.0	16834.0	17221.0	17625.0	18058.0	18500.0	18957.0	19467.0
155	Marshall Islands	15374.0	15867.0	16387.0	16947.0	17537.0	18154.0	18794.0	19665.0
225	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0	3481.0	3811.0	4161.0	4531.0	4930.0
11	American Samoa	20085.0	20626.0	21272.0	21949.0	22656.0	23391.0	24122.0	24848.0
228	Turks and Caicos Islands	5604.0	5625.0	5633.0	5634.0	5642.0	5650.0	5652.0	5662.0
125	St. Kitts and Nevis	56660.0	56247.0	55404.0	54391.0	53255.0	52016.0	50683.0	49269.0
164	Northern Mariana Islands	8702.0	8965.0	9252.0	9561.0	9890.0	10229.0	10577.0	10720.0
78	Faroe Islands	34154.0	34572.0	34963.0	35385.0	35841.0	36346.0	36825.0	37234.0
91	Greenland	32500.0	33700.0	35000.0	36400.0	37600.0	39200.0	40500.0	41900.0
27	Bermuda	44400.0	45500.0	46600.0	47700.0	48900.0	50100.0	51000.0	52000.0
52	Cayman Islands	8473.0	8626.0	8799.0	8985.0	9172.0	9366.0	9566.0	9771.0
57	Dominica	59379.0	60395.0	61224.0	62031.0	62843.0	63744.0	64728.0	65760.0

20 rows × 65 columns

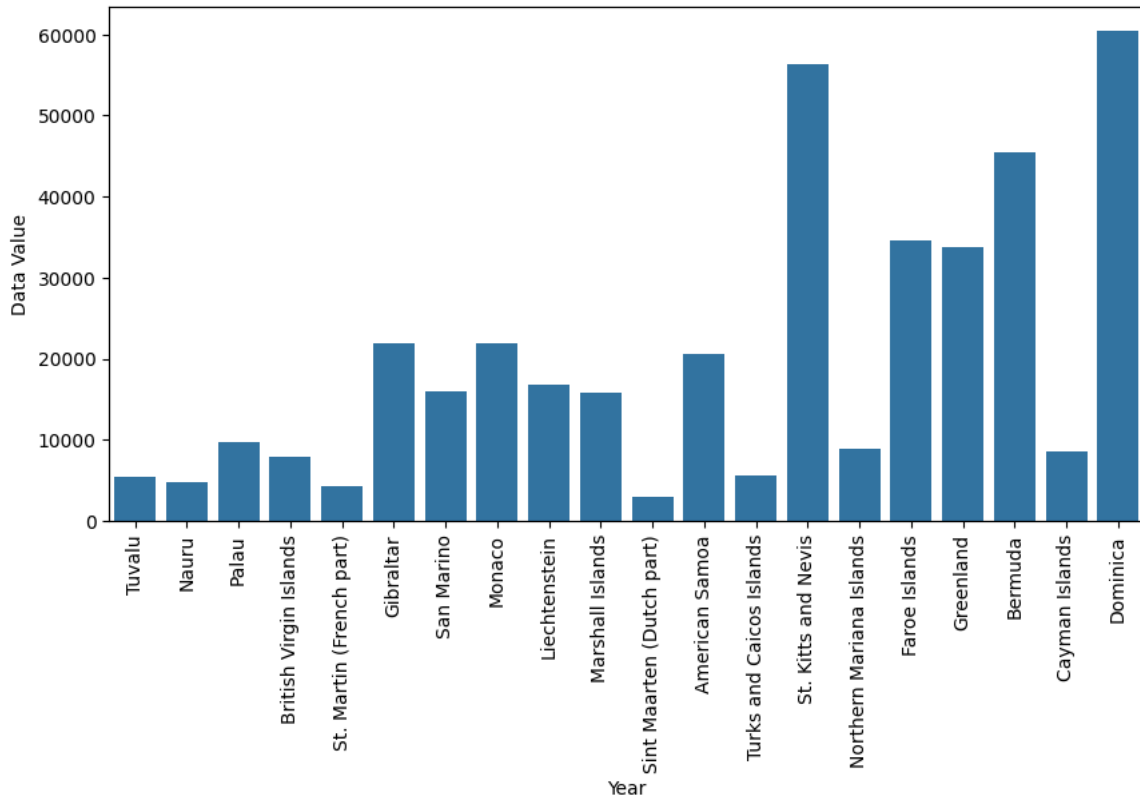
```
country_by_2022_t = country_by_2022.set_index('Country Name').T
for country_name, data_values in country_by_2022_t.iterrows():
    fig = plt.figure(figsize=(10, 5))
    sns.barplot(x=data_values.index, y=data_values.values)
    plt.xlabel('Year')
    plt.ylabel('Data Value')
    plt.title(f"{country_name} - Data Values from 1960 to 2022")
    plt.xticks(rotation=90)
    plt.show()
```



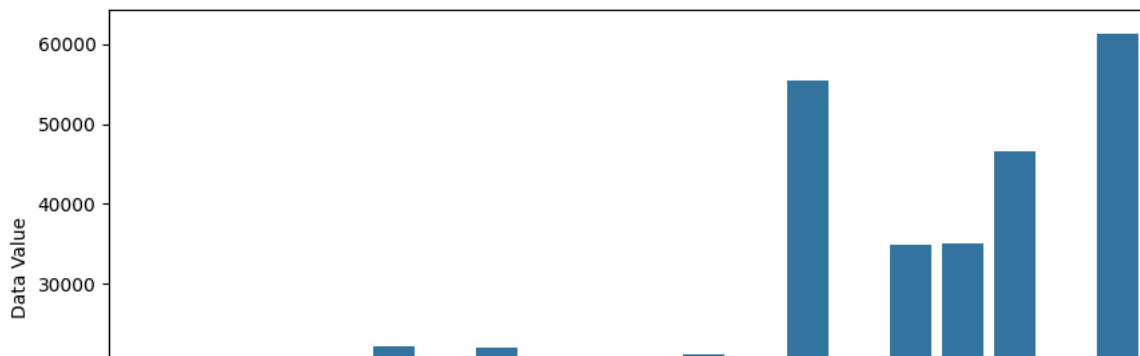
1960 - Data Values from 1960 to 2022

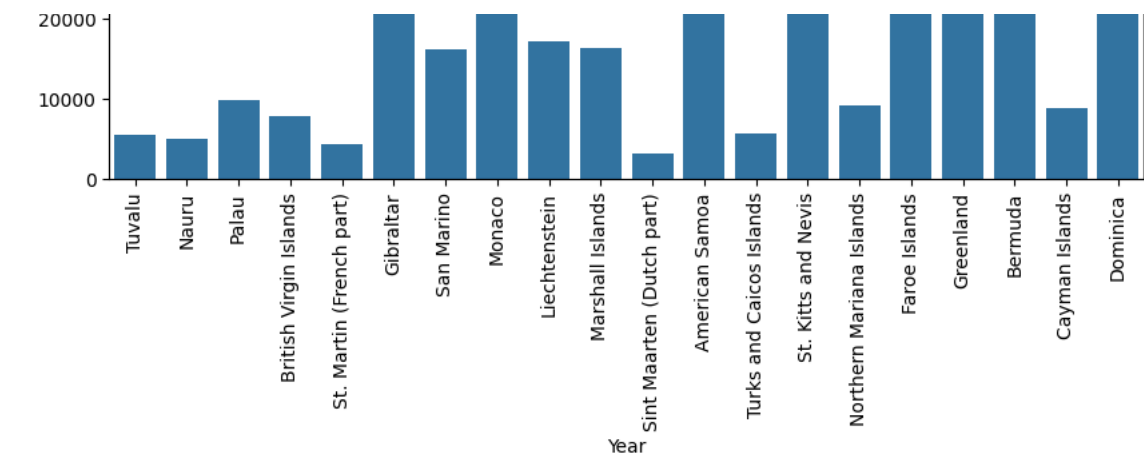


1961 - Data Values from 1960 to 2022

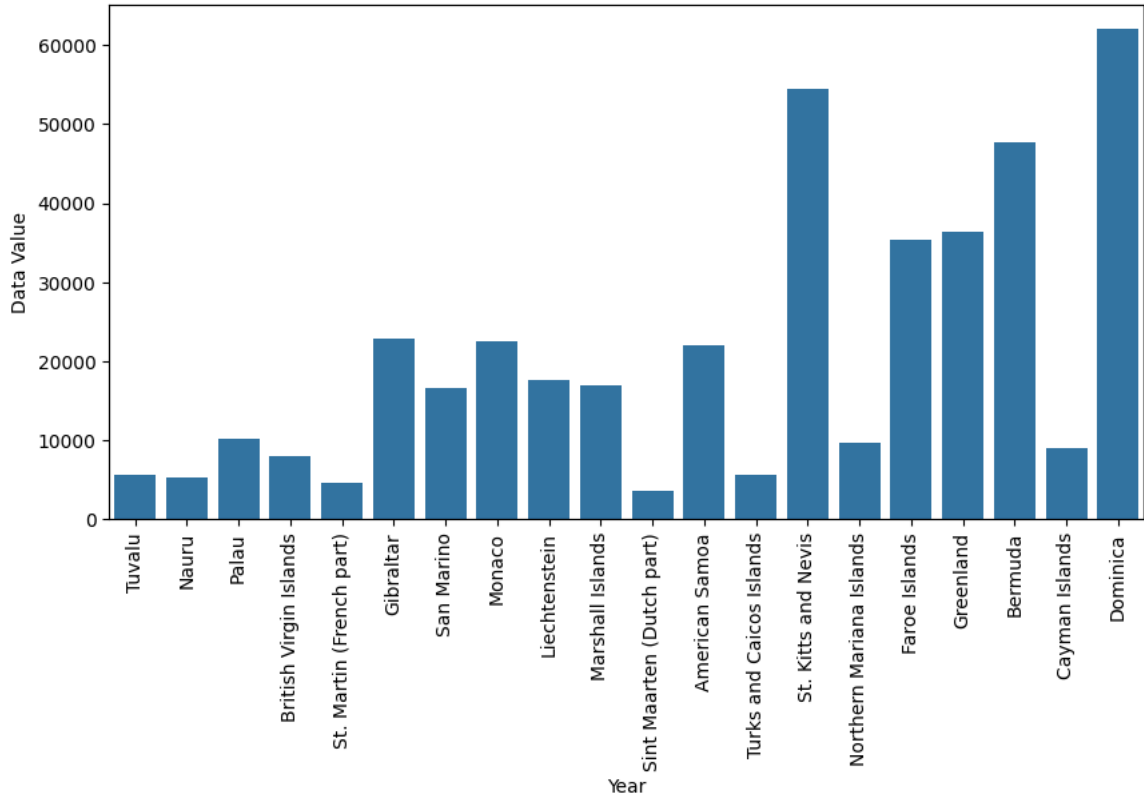


1962 - Data Values from 1960 to 2022





1963 - Data Values from 1960 to 2022



1964 - Data Values from 1960 to 2022

