

```

import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

df = pd.read_csv('/Users/aaryanbabuta/Documents/Prodigy DS Internship
June 2024/Task 1 data
Prodigy/API_SP.POP.TOTL_DS2_en_csv_v2_45183.csv')

df

```

	Country Name	Country Code	Indicator Name \		
0	Aruba	ABW	Population, total		
1	Africa Eastern and Southern	AFE	Population, total		
2	Afghanistan	AFG	Population, total		
3	Africa Western and Central	AFW	Population, total		
4	Angola	AGO	Population, total		
..		
261	Kosovo	XKX	Population, total		
262	Yemen, Rep.	YEM	Population, total		
263	South Africa	ZAF	Population, total		
264	Zambia	ZMB	Population, total		
265	Zimbabwe	ZWE	Population, total		
	Indicator Code	1960	1961	1962	1963
\	SP.POP.TOTL	54608.0	55811.0	56682.0	57475.0
0	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630546.0
1	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157465.0
2	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667517.0
3	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599827.0
..
261	SP.POP.TOTL	947000.0	966000.0	994000.0	1022000.0
262	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860197.0
263	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042215.0
264	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431381.0
265	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177931.0
	1964	1965	...	2013	2014
2015 \	58178.0	58782.0	...	102880.0	103594.0

104257.0					
1	145605995.0	149742351.0	...	567892149.0	583651101.0
600008424.0					
2	9355514.0	9565147.0	...	31541209.0	32716210.0
33753499.0					
3	105959979.0	108336203.0	...	387204553.0	397855507.0
408690375.0					
4	5673199.0	5736582.0	...	26147002.0	27128337.0
28127721.0					
..
..
261	1050000.0	1078000.0	...	1818117.0	1812771.0
1788196.0					
262	5973803.0	6097298.0	...	26984002.0	27753304.0
28516545.0					
263	18603097.0	19187194.0	...	53873616.0	54729551.0
55876504.0					
264	3542764.0	3658024.0	...	15234976.0	15737793.0
16248230.0					
265	4310332.0	4447149.0	...	13555422.0	13855753.0
14154937.0					
	2016	2017	2018	2019	
2020 \					
0	104874.0	105439.0	105962.0	106442.0	106585.0
1	616377605.0	632746570.0	649757148.0	667242986.0	685112979.0
2	34636207.0	35643418.0	36686784.0	37769499.0	38972230.0
3	419778384.0	431138704.0	442646825.0	454306063.0	466189102.0
4	29154746.0	30208628.0	31273533.0	32353588.0	33428486.0
..
261	1777557.0	1791003.0	1797085.0	1788878.0	1790133.0
262	29274002.0	30034389.0	30790513.0	31546691.0	32284046.0
263	56422274.0	56641209.0	57339635.0	58087055.0	58801927.0
264	16767761.0	17298054.0	17835893.0	18380477.0	18927715.0
265	14452704.0	14751101.0	15052184.0	15354608.0	15669666.0
	2021	2022			
0	106537.0	106445.0			
1	702977106.0	720859132.0			

```

2    40099462.0    41128771.0
3    478185907.0   490330870.0
4    34503774.0    35588987.0
..
261   1786038.0    1761985.0
262   32981641.0   33696614.0
263   59392255.0   59893885.0
264   19473125.0   20017675.0
265   15993524.0   16320537.0

```

[266 rows x 67 columns]

df.head(10)

Indicator Code \	Country Name	Country Code	Indicator Name		
0	Aruba	ABW	Population, total		
SP.POP.TOTL					
1	Africa Eastern and Southern	AFE	Population, total		
SP.POP.TOTL					
2	Afghanistan	AFG	Population, total		
SP.POP.TOTL					
3	Africa Western and Central	AFW	Population, total		
SP.POP.TOTL					
4	Angola	AGO	Population, total		
SP.POP.TOTL					
5	Albania	ALB	Population, total		
SP.POP.TOTL					
6	Andorra	AND	Population, total		
SP.POP.TOTL					
7	Arab World	ARB	Population, total		
SP.POP.TOTL					
8	United Arab Emirates	ARE	Population, total		
SP.POP.TOTL					
9	Argentina	ARG	Population, total		
SP.POP.TOTL					
	1960	1961	1962	1963	1964 \
0	54608.0	55811.0	56682.0	57475.0	58178.0
1	130692579.0	134169237.0	137835590.0	141630546.0	145605995.0
2	8622466.0	8790140.0	8969047.0	9157465.0	9355514.0
3	97256290.0	99314028.0	101445032.0	103667517.0	105959979.0
4	5357195.0	5441333.0	5521400.0	5599827.0	5673199.0
5	1608800.0	1659800.0	1711319.0	1762621.0	1814135.0
6	9443.0	10216.0	11014.0	11839.0	12690.0
7	93359407.0	95760348.0	98268683.0	100892507.0	103618568.0
8	133426.0	140984.0	148877.0	157006.0	165305.0
9	20349744.0	20680653.0	21020359.0	21364017.0	21708487.0
	1965	...	2013	2014	2015

```

2016 \
0      58782.0 ...    102880.0    103594.0    104257.0
104874.0
1  149742351.0 ...  567892149.0  583651101.0  600008424.0
616377605.0
2  9565147.0 ...   31541209.0   32716210.0   33753499.0
34636207.0
3  108336203.0 ...  387204553.0  397855507.0  408690375.0
419778384.0
4  5736582.0 ...   26147002.0   27128337.0   28127721.0
29154746.0
5  1864791.0 ...   2895092.0   2889104.0   2880703.0
2876101.0
6  13563.0 ...     71367.0     71621.0     71746.0
72540.0
7  106444103.0 ...  389131555.0  397922915.0  406501999.0
415077960.0
8  173797.0 ...    8751847.0   8835951.0   8916899.0
8994263.0
9  22053661.0 ...  42202935.0   42669500.0   43131966.0
43590368.0

          2017      2018      2019      2020      2021 \
0  105439.0  105962.0  106442.0  106585.0  106537.0
1  632746570.0 649757148.0 667242986.0 685112979.0 702977106.0
2  35643418.0 36686784.0 37769499.0 38972230.0 40099462.0
3  431138704.0 442646825.0 454306063.0 466189102.0 478185907.0
4  30208628.0 31273533.0 32353588.0 33428486.0 34503774.0
5  2873457.0 2866376.0 2854191.0 2837849.0 2811666.0
6  73837.0 75013.0 76343.0 77700.0 79034.0
7  423664839.0 432545676.0 441467739.0 449228296.0 456520777.0
8  9068296.0 9140169.0 9211657.0 9287289.0 9365145.0
9  44044811.0 44494502.0 44938712.0 45376763.0 45808747.0

          2022
0  106445.0
1  720859132.0
2  41128771.0
3  490330870.0
4  35588987.0
5  2777689.0
6  79824.0
7  464684914.0
8  9441129.0
9  46234830.0

[10 rows x 67 columns]
df.tail(10)

```

Code	Country Name	Country Code	Indicator Name	Indicator		
256	Virgin Islands (U.S.)	VIR	Population, total			
SP.POP.TOTL						
257	Viet Nam	VNM	Population, total			
SP.POP.TOTL						
258	Vanuatu	VUT	Population, total			
SP.POP.TOTL						
259	World	WLD	Population, total			
SP.POP.TOTL						
260	Samoa	WSM	Population, total			
SP.POP.TOTL						
261	Kosovo	XKX	Population, total			
SP.POP.TOTL						
262	Yemen, Rep.	YEM	Population, total			
SP.POP.TOTL						
263	South Africa	ZAF	Population, total			
SP.POP.TOTL						
264	Zambia	ZMB	Population, total			
SP.POP.TOTL						
265	Zimbabwe	ZWE	Population, total			
SP.POP.TOTL						
	1960	1961	1962	1963		
1964	\					
256	3.250000e+04	3.430000e+04	3.500000e+04	3.980000e+04		
	4.080000e+04					
257	3.271846e+07	3.362198e+07	3.453389e+07	3.552673e+07		
	3.650917e+07					
258	6.460800e+04	6.646200e+04	6.839100e+04	7.040000e+04		
	7.249300e+04					
259	3.031474e+09	3.072422e+09	3.126850e+09	3.193429e+09		
	3.260442e+09					
260	1.133350e+05	1.168200e+05	1.201630e+05	1.234160e+05		
	1.265820e+05					
261	9.470000e+05	9.660000e+05	9.940000e+05	1.022000e+06		
	1.050000e+06					
262	5.542459e+06	5.646668e+06	5.753386e+06	5.860197e+06		
	5.973803e+06					
263	1.652044e+07	1.698946e+07	1.750313e+07	1.804222e+07		
	1.860310e+07					
264	3.119430e+06	3.219451e+06	3.323427e+06	3.431381e+06		
	3.542764e+06					
265	3.806310e+06	3.925952e+06	4.049778e+06	4.177931e+06		
	4.310332e+06					
	1965	...	2013	2014	2015	\
256	4.350000e+04	...	1.080410e+05	1.078820e+05	1.077120e+05	
257	3.746608e+07	...	9.026774e+07	9.123550e+07	9.219140e+07	
258	7.467700e+04	...	2.635340e+05	2.699270e+05	2.764380e+05	

259	3.328209e+09	...	7.229303e+09	7.317040e+09	7.403850e+09
260	1.297890e+05	...	1.999390e+05	2.017570e+05	2.035710e+05
261	1.078000e+06	...	1.818117e+06	1.812771e+06	1.788196e+06
262	6.097298e+06	...	2.698400e+07	2.775330e+07	2.851654e+07
263	1.918719e+07	...	5.387362e+07	5.472955e+07	5.587650e+07
264	3.658024e+06	...	1.523498e+07	1.573779e+07	1.624823e+07
265	4.447149e+06	...	1.355542e+07	1.385575e+07	1.415494e+07
	2016	2017	2018	2019	
2020	\				
256	1.075160e+05 1.062900e+05	1.072810e+05	1.070010e+05	1.066690e+05	
257	9.312653e+07 9.664868e+07	9.403305e+07	9.491433e+07	9.577672e+07	
258	2.832180e+05 3.116850e+05	2.902390e+05	2.972980e+05	3.044040e+05	
259	7.490415e+09 7.820206e+09	7.576442e+09	7.660371e+09	7.741775e+09	
260	2.055440e+05 2.149290e+05	2.076300e+05	2.097010e+05	2.119050e+05	
261	1.777557e+06 1.790133e+06	1.791003e+06	1.797085e+06	1.788878e+06	
262	2.927400e+07 3.228405e+07	3.003439e+07	3.079051e+07	3.154669e+07	
263	5.642227e+07 5.880193e+07	5.664121e+07	5.733964e+07	5.808706e+07	
264	1.676776e+07 1.892772e+07	1.729805e+07	1.783589e+07	1.838048e+07	
265	1.445270e+07 1.566967e+07	1.475110e+07	1.505218e+07	1.535461e+07	
	2021	2022			
256	1.058700e+05	1.054130e+05			
257	9.746803e+07	9.818686e+07			
258	3.191370e+05	3.267400e+05			
259	7.888306e+09	7.950947e+09			
260	2.187640e+05	2.223820e+05			
261	1.786038e+06	1.761985e+06			
262	3.298164e+07	3.369661e+07			
263	5.939226e+07	5.989388e+07			
264	1.947312e+07	2.001768e+07			
265	1.599352e+07	1.632054e+07			

[10 rows x 67 columns]

df.duplicated().sum()

0

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

```
True
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 266 entries, 0 to 265
Data columns (total 67 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Country Name    266 non-null    object  
 1   Country Code    266 non-null    object  
 2   Indicator Name  266 non-null    object  
 3   Indicator Code  266 non-null    object  
 4   1960             264 non-null    float64 
 5   1961             264 non-null    float64 
 6   1962             264 non-null    float64 
 7   1963             264 non-null    float64 
 8   1964             264 non-null    float64 
 9   1965             264 non-null    float64 
 10  1966             264 non-null    float64 
 11  1967             264 non-null    float64 
 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 
 26  1982             264 non-null    float64 
 27  1983             264 non-null    float64 
 28  1984             264 non-null    float64 
 29  1985             264 non-null    float64 
 30  1986             264 non-null    float64 
 31  1987             264 non-null    float64 
 32  1988             264 non-null    float64 
 33  1989             264 non-null    float64 
 34  1990             265 non-null    float64 
 35  1991             265 non-null    float64 
 36  1992             265 non-null    float64 
 37  1993             265 non-null    float64 
 38  1994             265 non-null    float64 
 39  1995             265 non-null    float64 
 40  1996             265 non-null    float64
```

```
41 1997           265 non-null    float64
42 1998           265 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
dtypes: float64(63), object(4)
memory usage: 139.4+ KB
```

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

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 266 entries, 0 to 265  
Data columns (total 64 columns):  
 #   Column           Non-Null Count  Dtype     
 ---  --    
 0   Country Name    266 non-null    object    
 1   1960            264 non-null    float64   
 2   1961            264 non-null    float64   
 3   1962            264 non-null    float64   
 4   1963            264 non-null    float64   
 5   1964            264 non-null    float64   
 6   1965            264 non-null    float64   
 7   1966            264 non-null    float64   
 8   1967            264 non-null    float64   
 9   1968            264 non-null    float64   
 10  1969            264 non-null    float64
```

11	1970	264	non-null	float64
12	1971	264	non-null	float64
13	1972	264	non-null	float64
14	1973	264	non-null	float64
15	1974	264	non-null	float64
16	1975	264	non-null	float64
17	1976	264	non-null	float64
18	1977	264	non-null	float64
19	1978	264	non-null	float64
20	1979	264	non-null	float64
21	1980	264	non-null	float64
22	1981	264	non-null	float64
23	1982	264	non-null	float64
24	1983	264	non-null	float64
25	1984	264	non-null	float64
26	1985	264	non-null	float64
27	1986	264	non-null	float64
28	1987	264	non-null	float64
29	1988	264	non-null	float64
30	1989	264	non-null	float64
31	1990	265	non-null	float64
32	1991	265	non-null	float64
33	1992	265	non-null	float64
34	1993	265	non-null	float64
35	1994	265	non-null	float64
36	1995	265	non-null	float64
37	1996	265	non-null	float64
38	1997	265	non-null	float64
39	1998	265	non-null	float64
40	1999	265	non-null	float64
41	2000	265	non-null	float64
42	2001	265	non-null	float64
43	2002	265	non-null	float64
44	2003	265	non-null	float64
45	2004	265	non-null	float64
46	2005	265	non-null	float64
47	2006	265	non-null	float64
48	2007	265	non-null	float64
49	2008	265	non-null	float64
50	2009	265	non-null	float64
51	2010	265	non-null	float64
52	2011	265	non-null	float64
53	2012	265	non-null	float64
54	2013	265	non-null	float64
55	2014	265	non-null	float64
56	2015	265	non-null	float64
57	2016	265	non-null	float64
58	2017	265	non-null	float64
59	2018	265	non-null	float64

```
60 2019          265 non-null   float64
61 2020          265 non-null   float64
62 2021          265 non-null   float64
63 2022          265 non-null   float64
dtypes: float64(63), object(1)
memory usage: 133.1+ KB
```

```
df.fillna(0, inplace=True)
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 266 entries, 0 to 265
```

```
Data columns (total 64 columns):
```

#	Column	Non-Null Count	Dtype
0	Country Name	266 non-null	object
1	1960	266 non-null	float64
2	1961	266 non-null	float64
3	1962	266 non-null	float64
4	1963	266 non-null	float64
5	1964	266 non-null	float64
6	1965	266 non-null	float64
7	1966	266 non-null	float64
8	1967	266 non-null	float64
9	1968	266 non-null	float64
10	1969	266 non-null	float64
11	1970	266 non-null	float64
12	1971	266 non-null	float64
13	1972	266 non-null	float64
14	1973	266 non-null	float64
15	1974	266 non-null	float64
16	1975	266 non-null	float64
17	1976	266 non-null	float64
18	1977	266 non-null	float64
19	1978	266 non-null	float64
20	1979	266 non-null	float64
21	1980	266 non-null	float64
22	1981	266 non-null	float64
23	1982	266 non-null	float64
24	1983	266 non-null	float64
25	1984	266 non-null	float64
26	1985	266 non-null	float64
27	1986	266 non-null	float64
28	1987	266 non-null	float64
29	1988	266 non-null	float64
30	1989	266 non-null	float64
31	1990	266 non-null	float64
32	1991	266 non-null	float64
33	1992	266 non-null	float64

```
34 1993           266 non-null   float64
35 1994           266 non-null   float64
36 1995           266 non-null   float64
37 1996           266 non-null   float64
38 1997           266 non-null   float64
39 1998           266 non-null   float64
40 1999           266 non-null   float64
41 2000           266 non-null   float64
42 2001           266 non-null   float64
43 2002           266 non-null   float64
44 2003           266 non-null   float64
45 2004           266 non-null   float64
46 2005           266 non-null   float64
47 2006           266 non-null   float64
48 2007           266 non-null   float64
49 2008           266 non-null   float64
50 2009           266 non-null   float64
51 2010           266 non-null   float64
52 2011           266 non-null   float64
53 2012           266 non-null   float64
54 2013           266 non-null   float64
55 2014           266 non-null   float64
56 2015           266 non-null   float64
57 2016           266 non-null   float64
58 2017           266 non-null   float64
59 2018           266 non-null   float64
60 2019           266 non-null   float64
61 2020           266 non-null   float64
62 2021           266 non-null   float64
63 2022           266 non-null   float64
dtypes: float64(63), object(1)
memory usage: 133.1+ KB
```

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

```
False
```

```
df.columns
```

```
Index(['Country Name', '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',
```

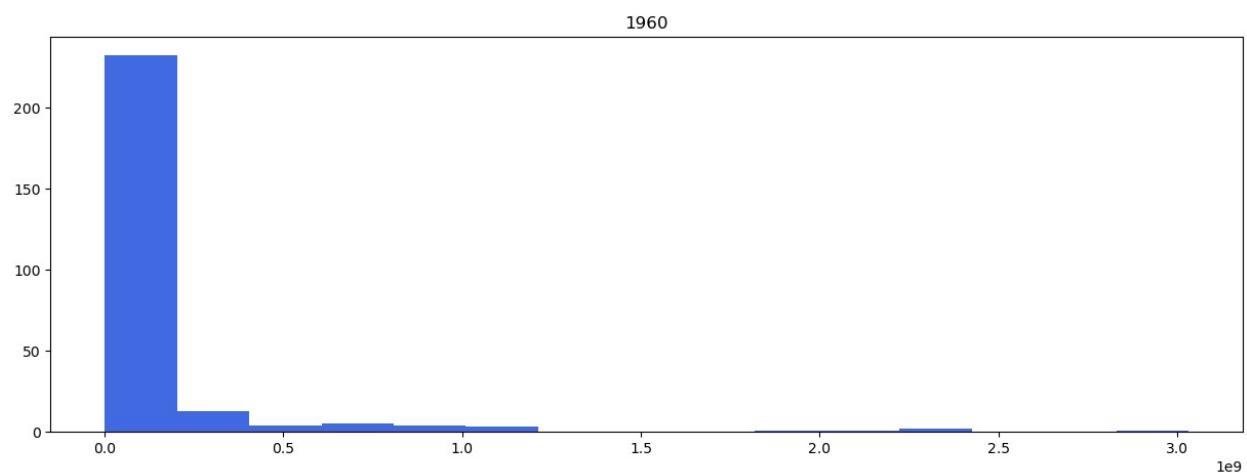
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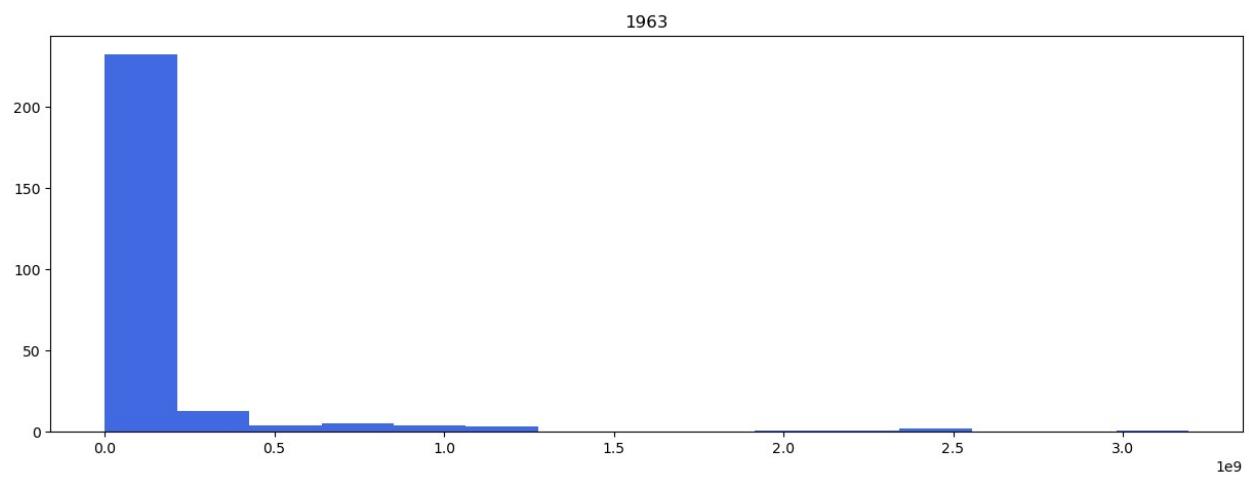
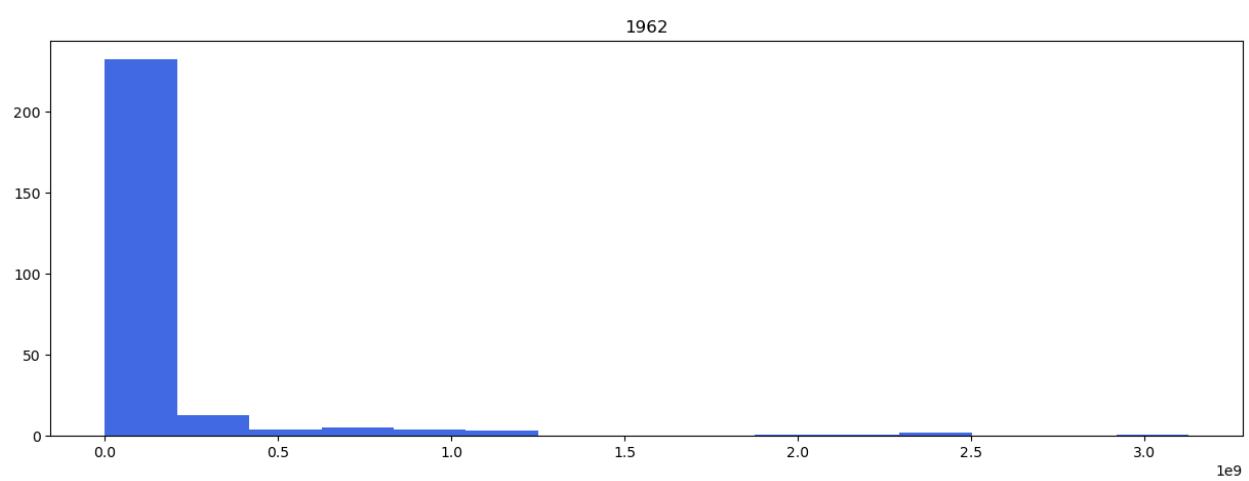
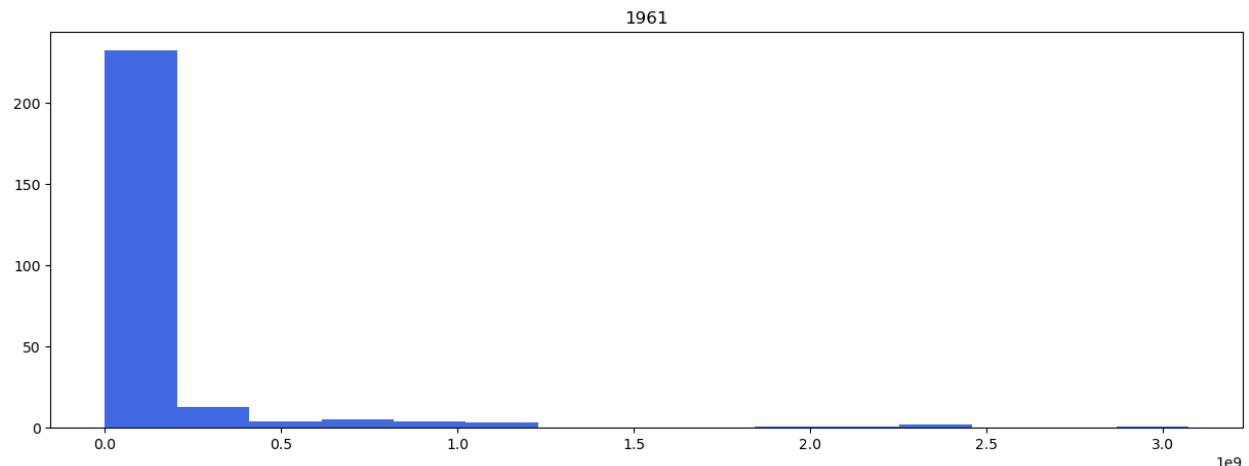
'2011',
    '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019',
'2020',
    '2021', '2022'],
dtype='object')

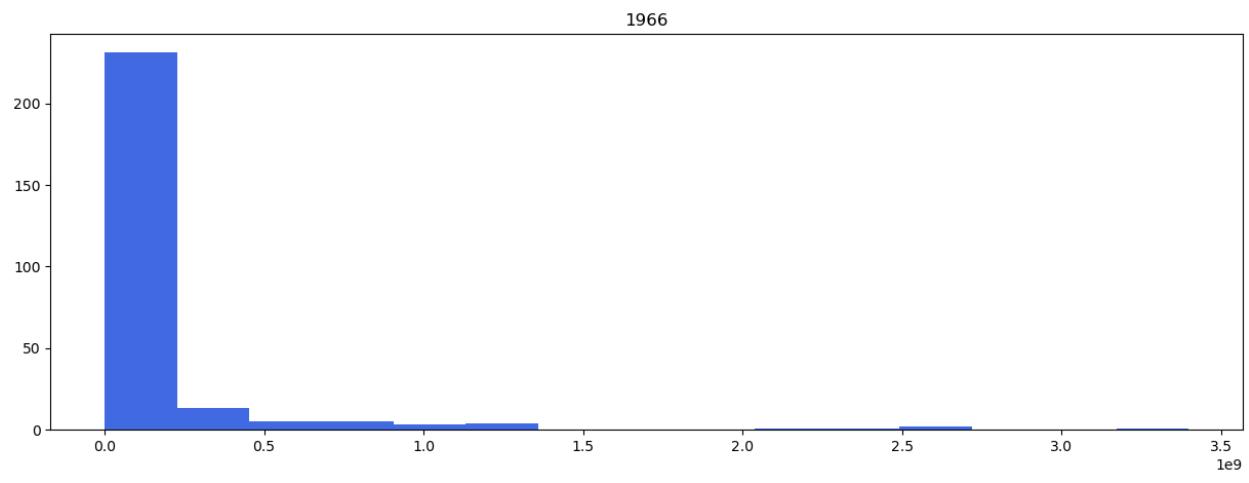
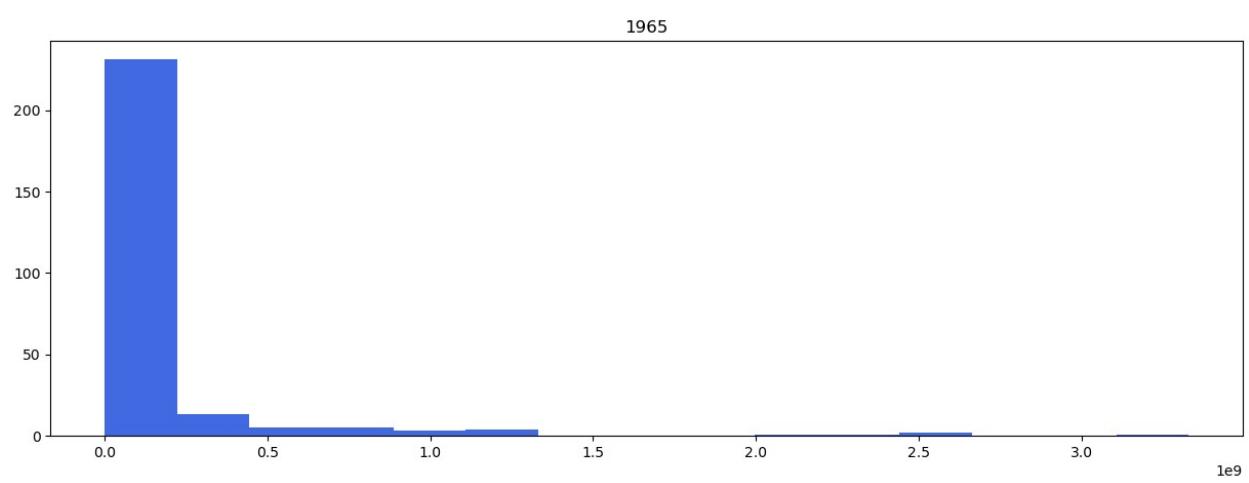
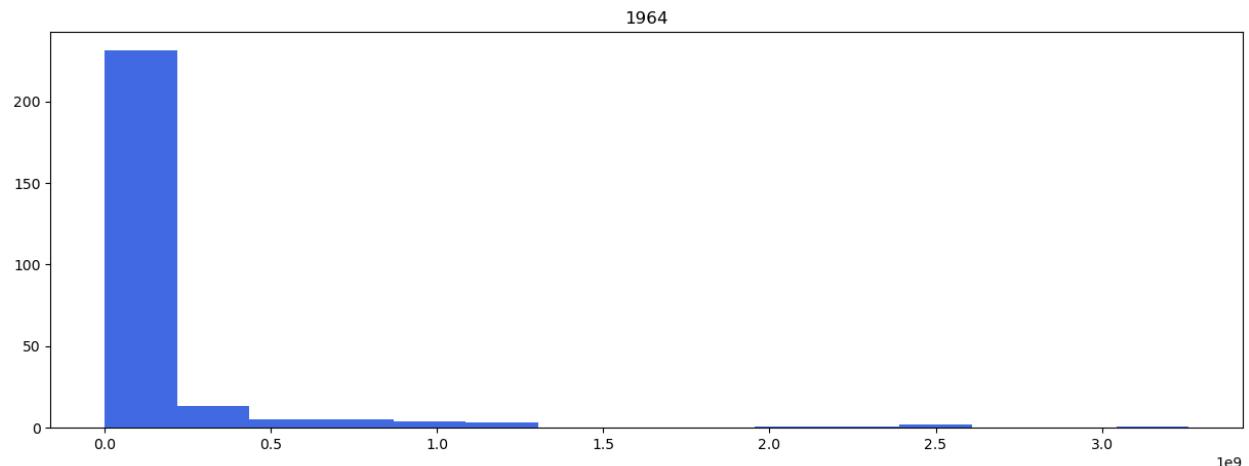
col=[ '1960', '1961', '1962', '1963', '1964', '1965', '1966',
      '1967', '1968', '1969', '1970', '1971', '1972', '1973', '1974',
'1975',
      '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983',
'1984',
      '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992',
'1993',
      '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']

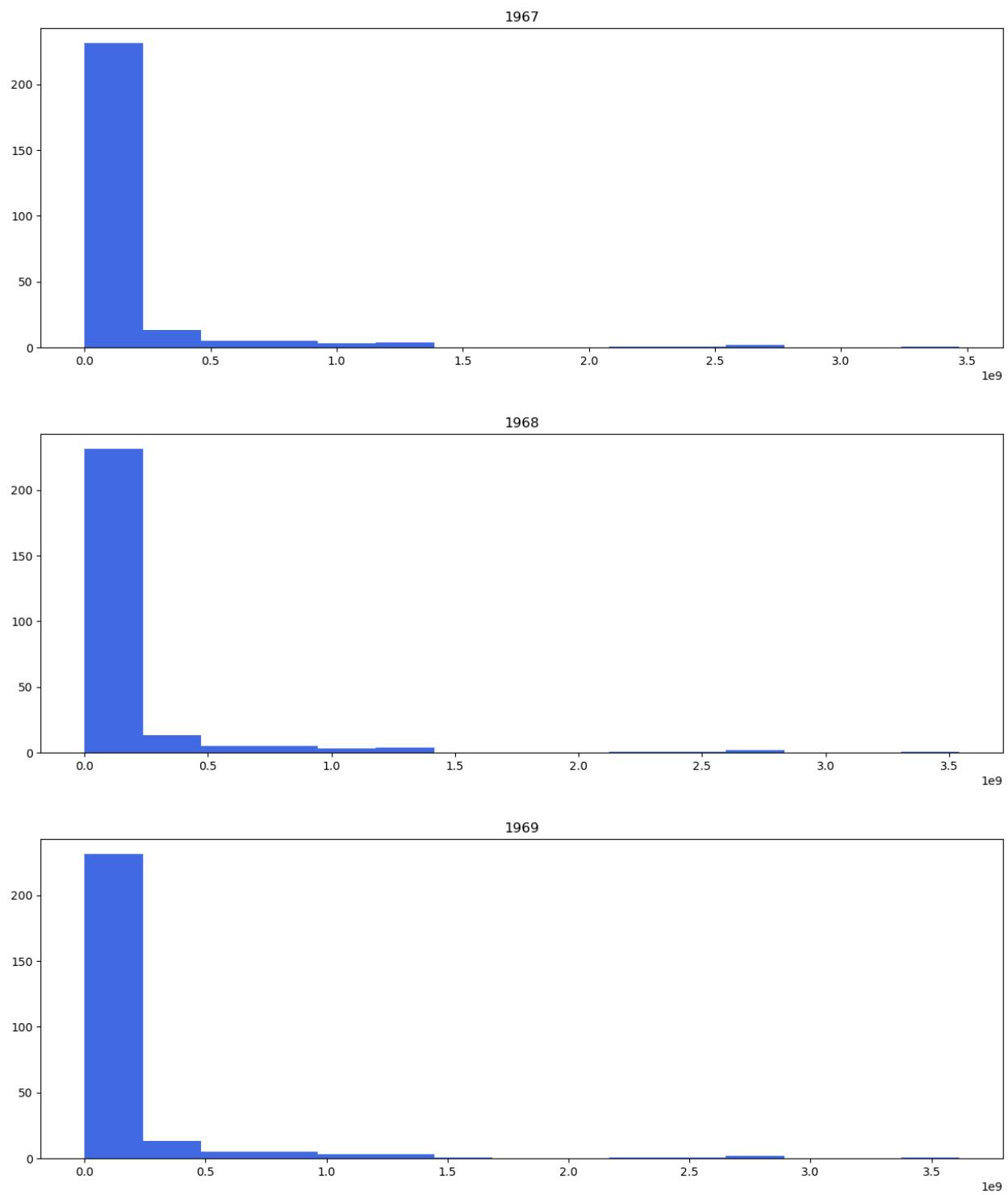
for i in col:
    fig = plt.figure(figsize=(15,5))
    plt.hist(df[i],color='royalblue',bins=15)
    plt.title(i)
    plt.show()

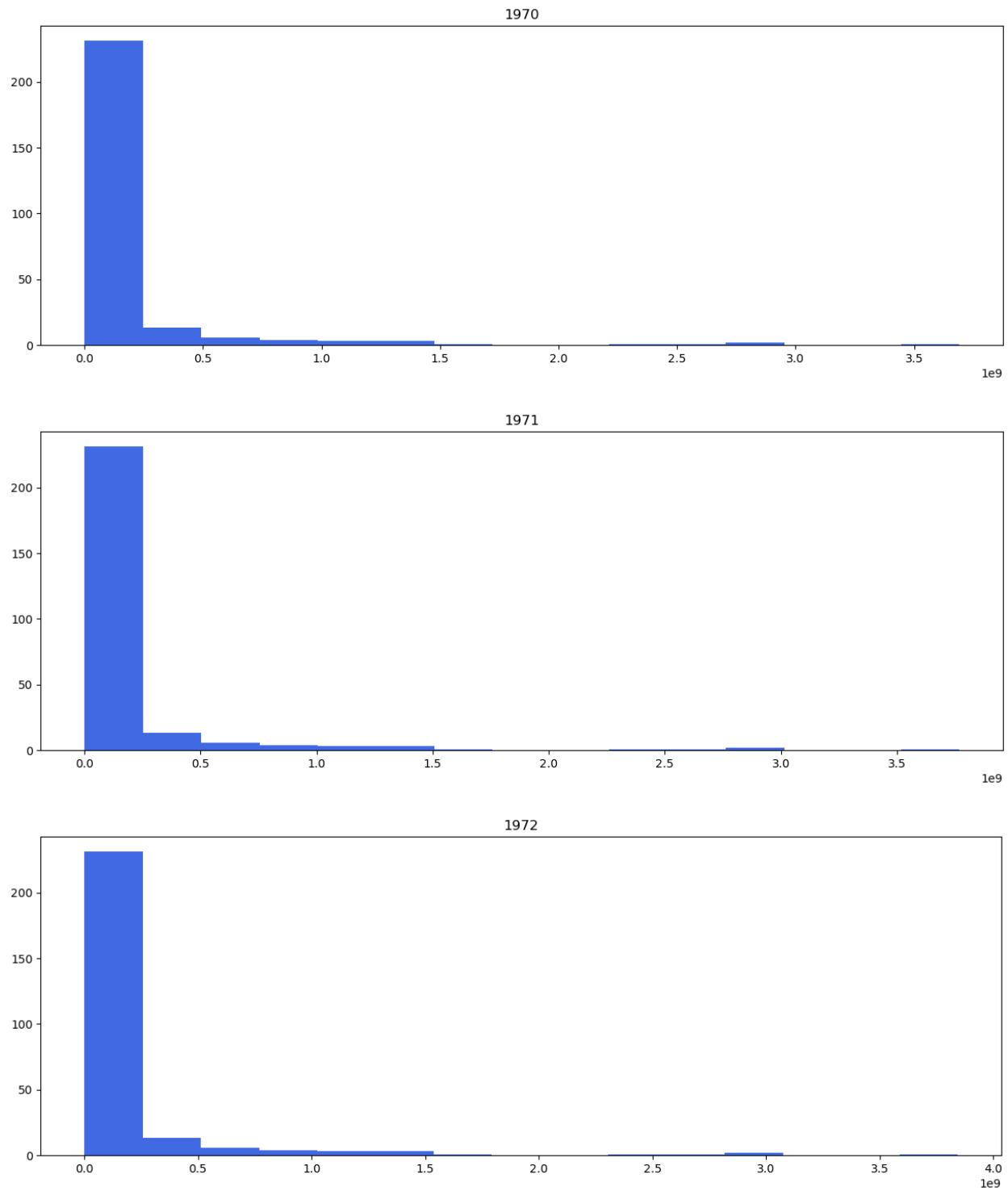
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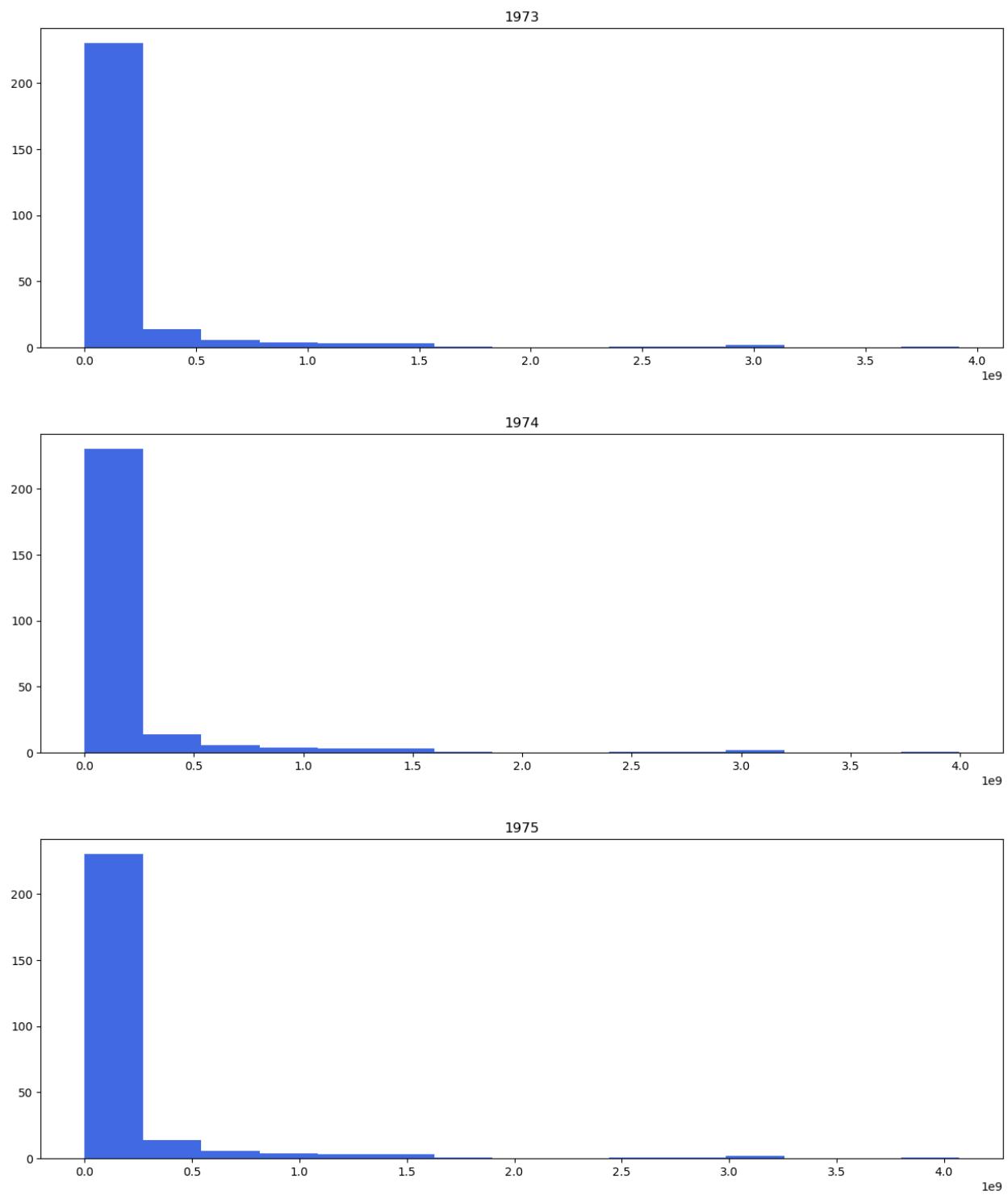


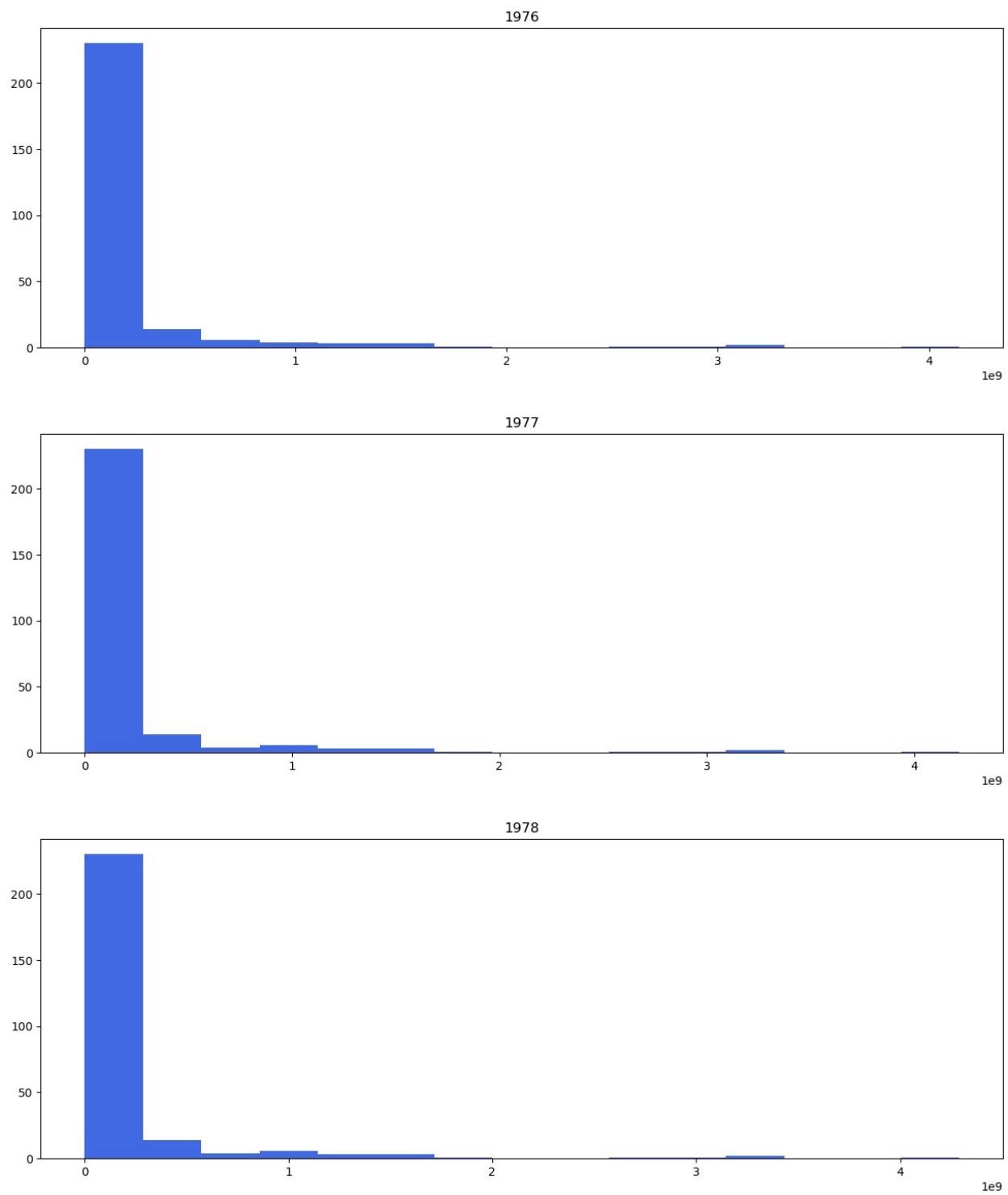


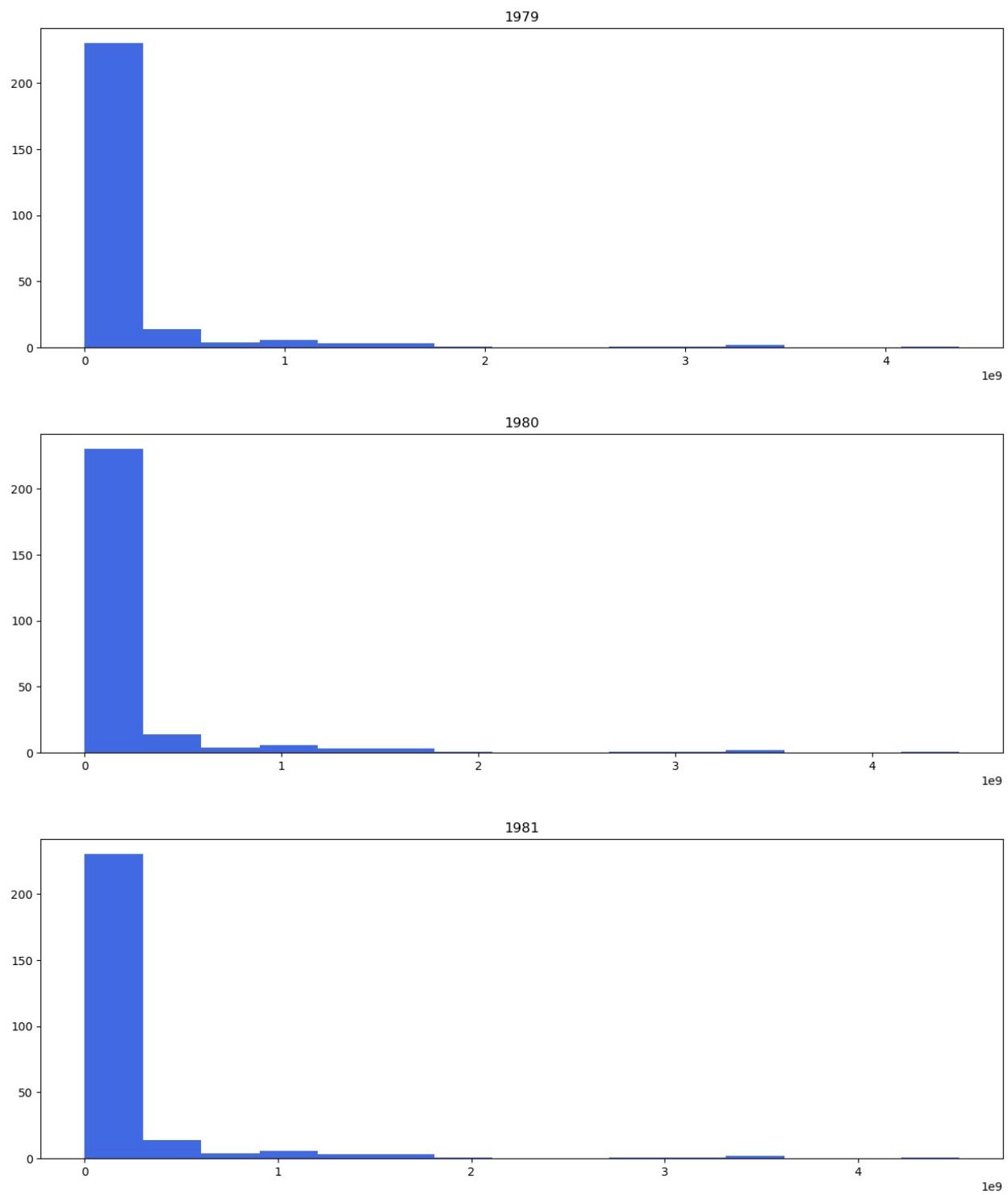


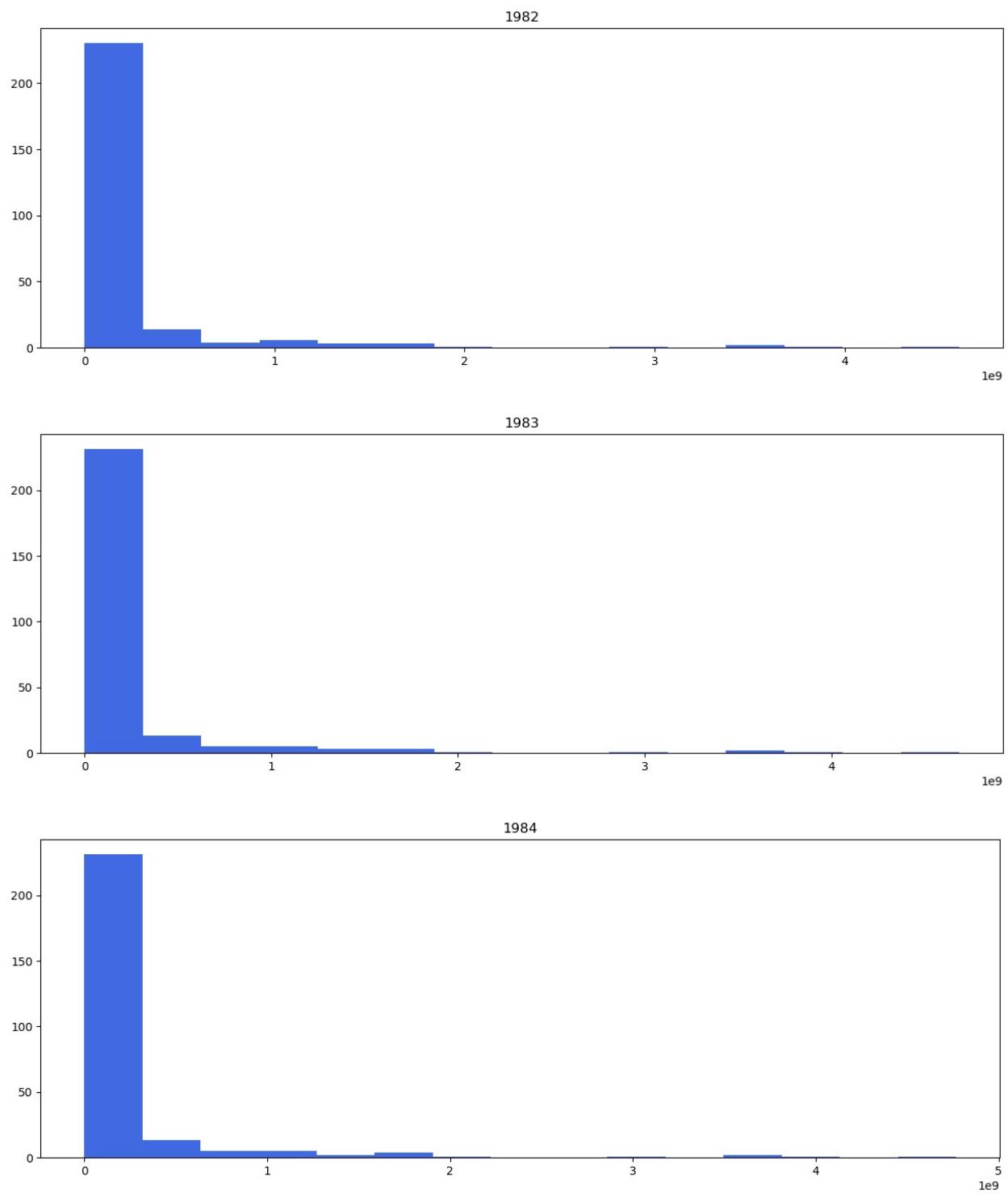


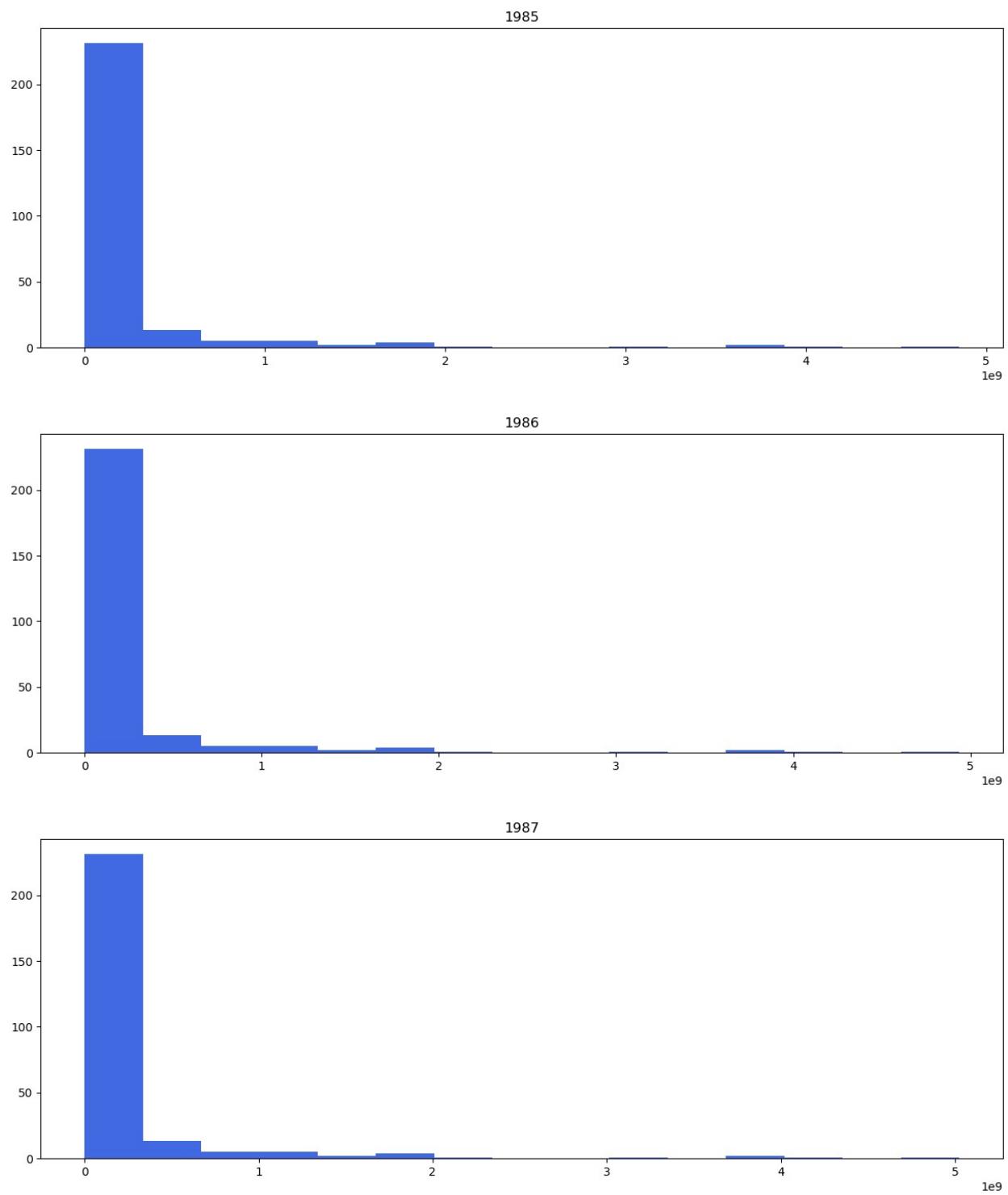


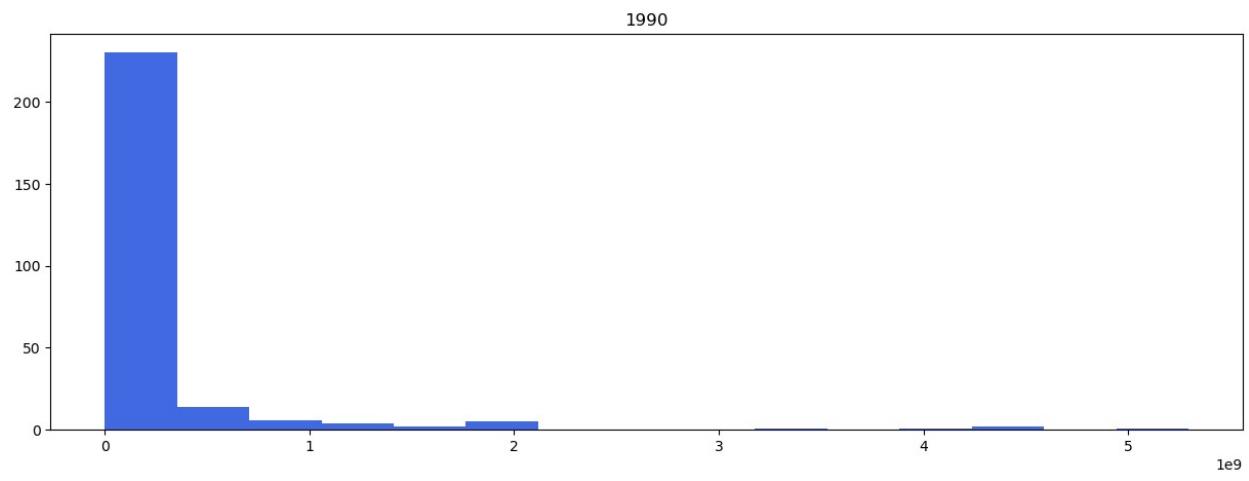
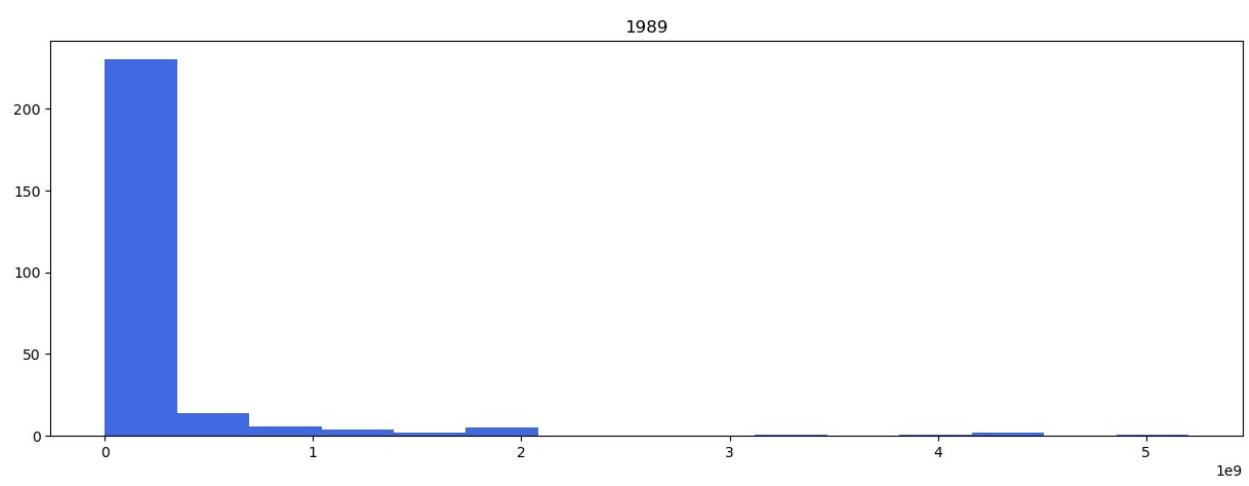
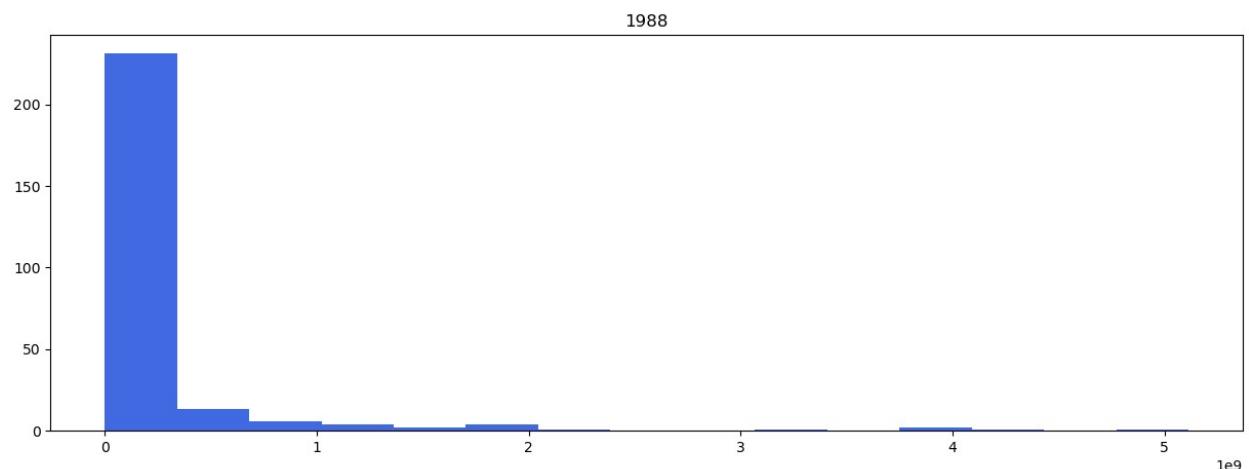


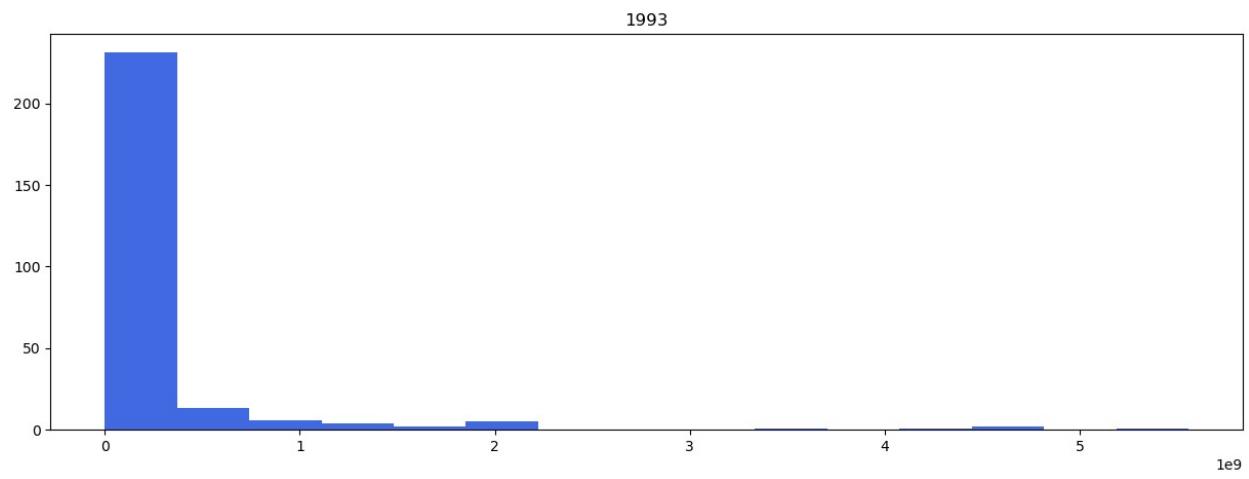
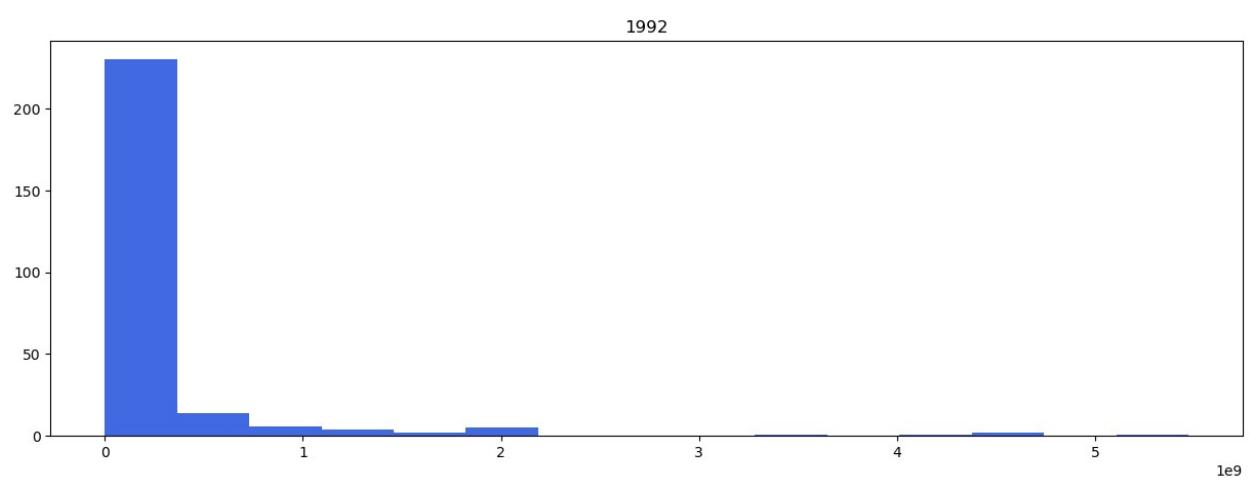
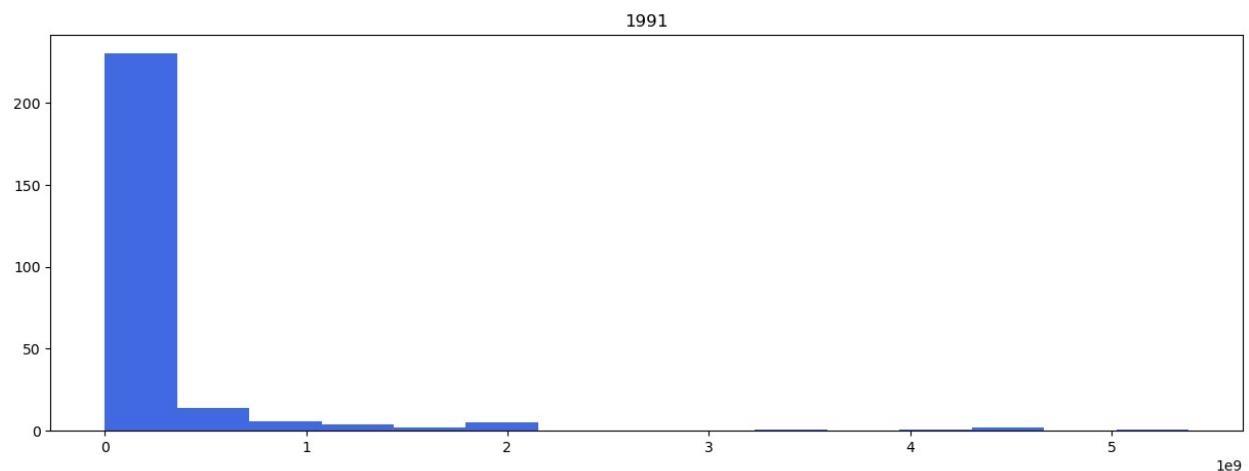


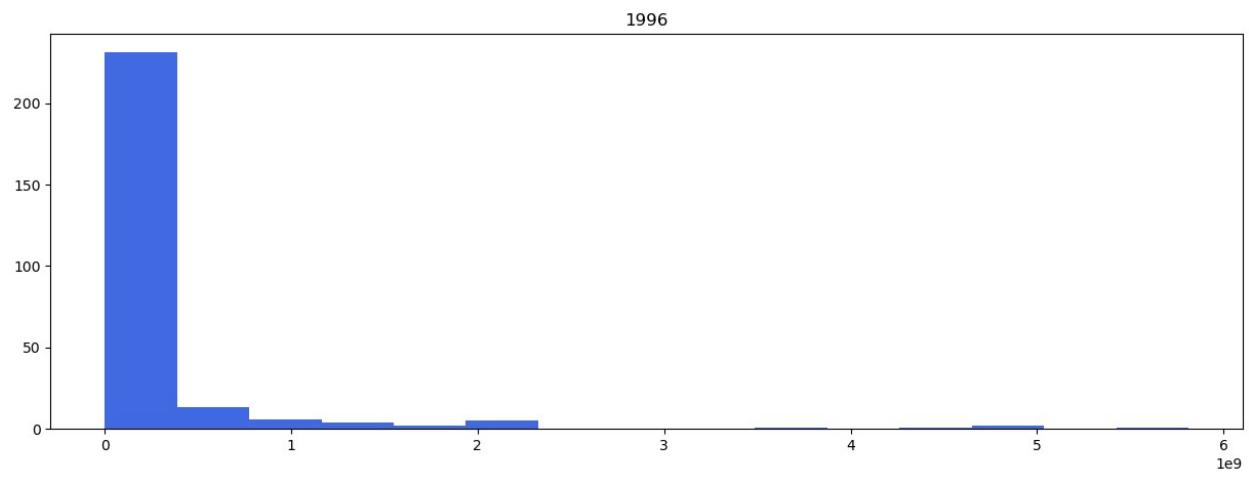
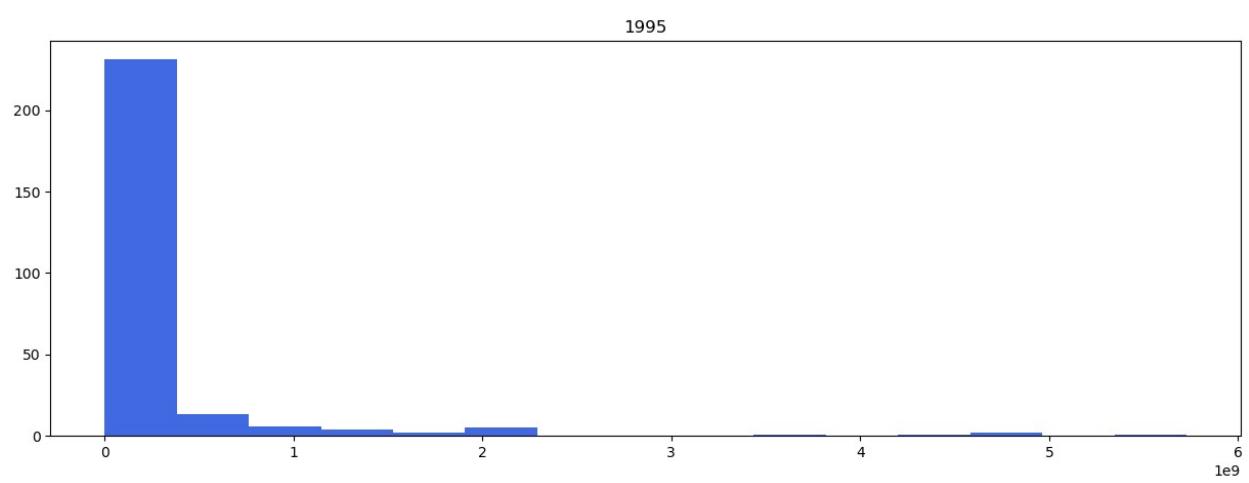
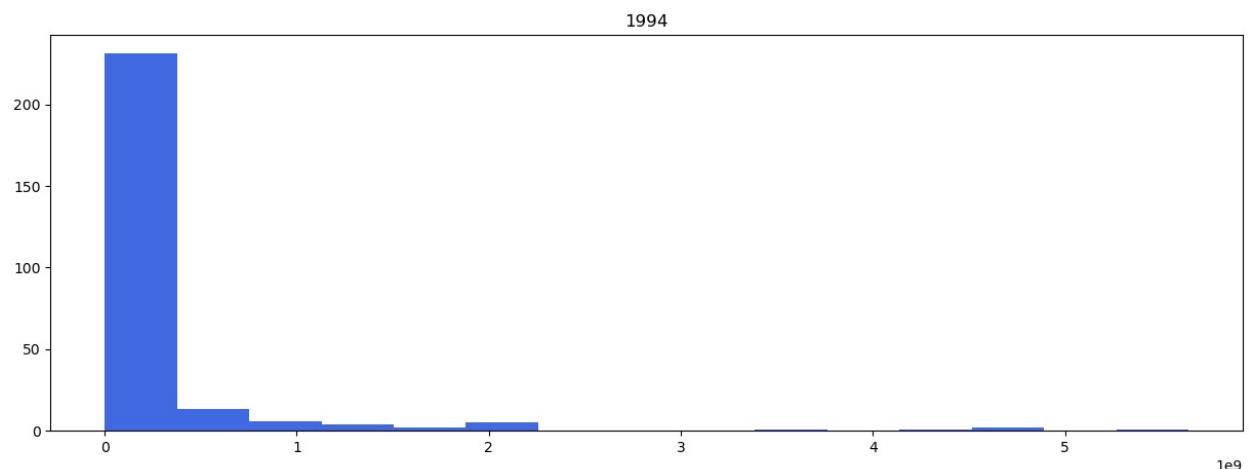


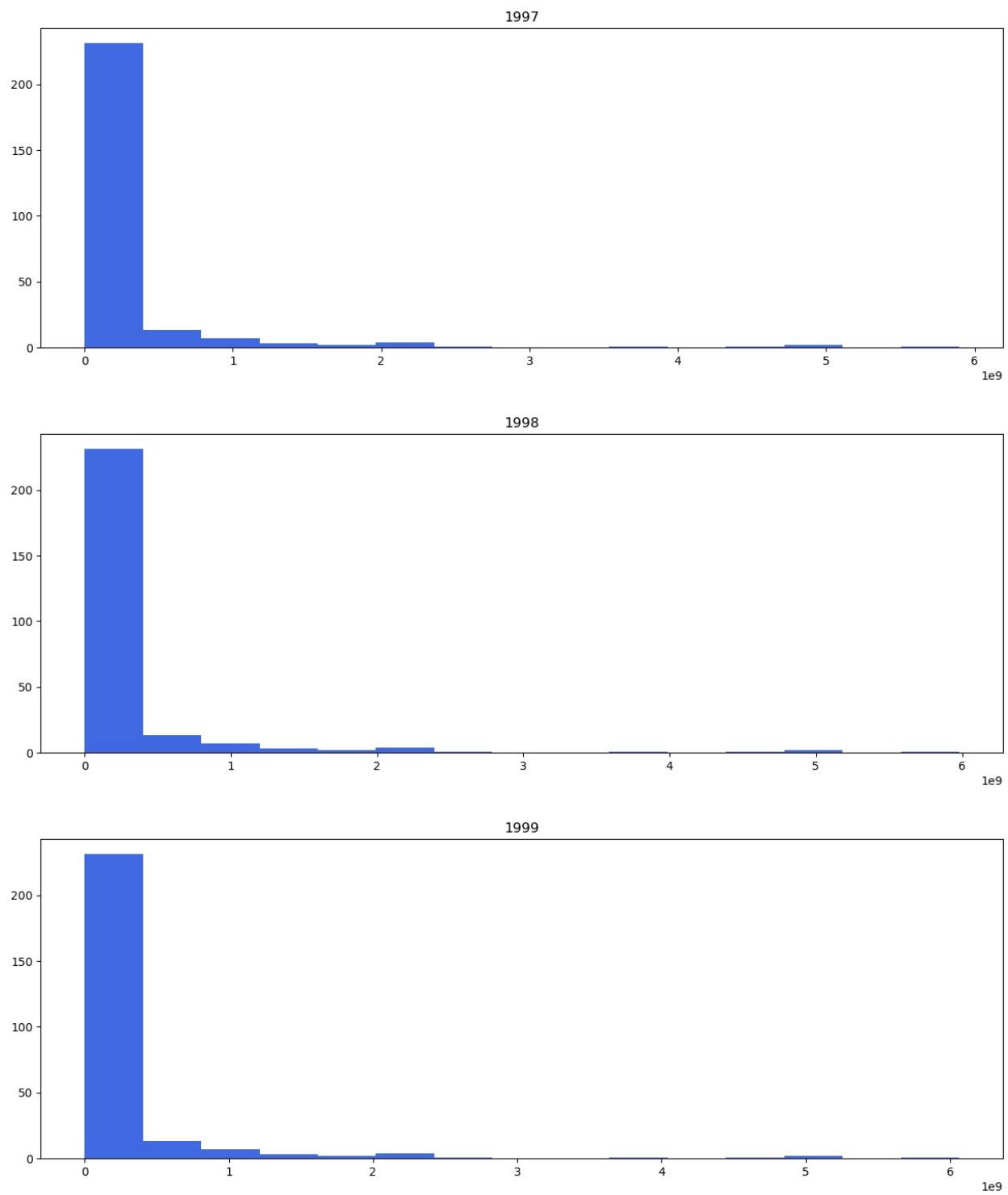


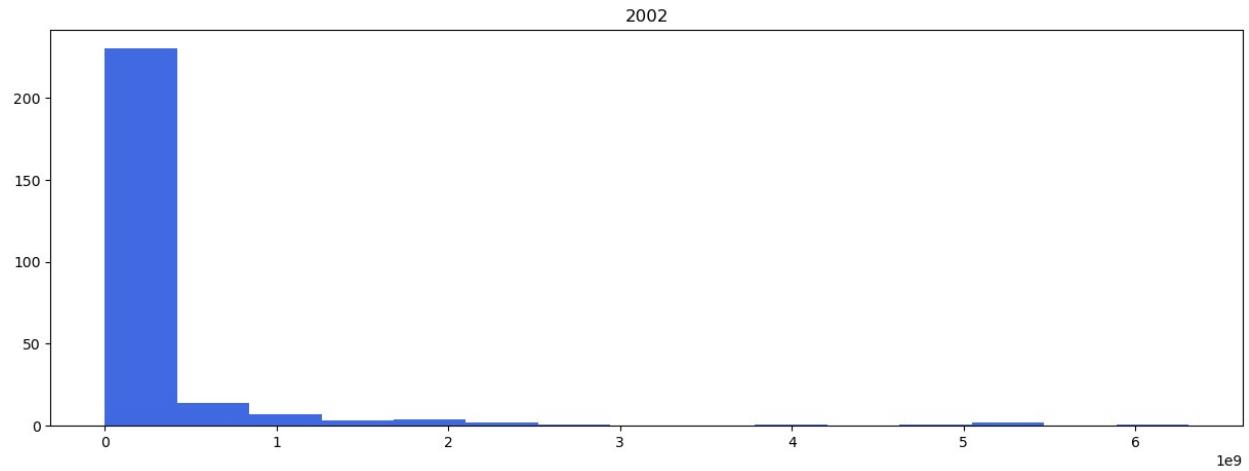
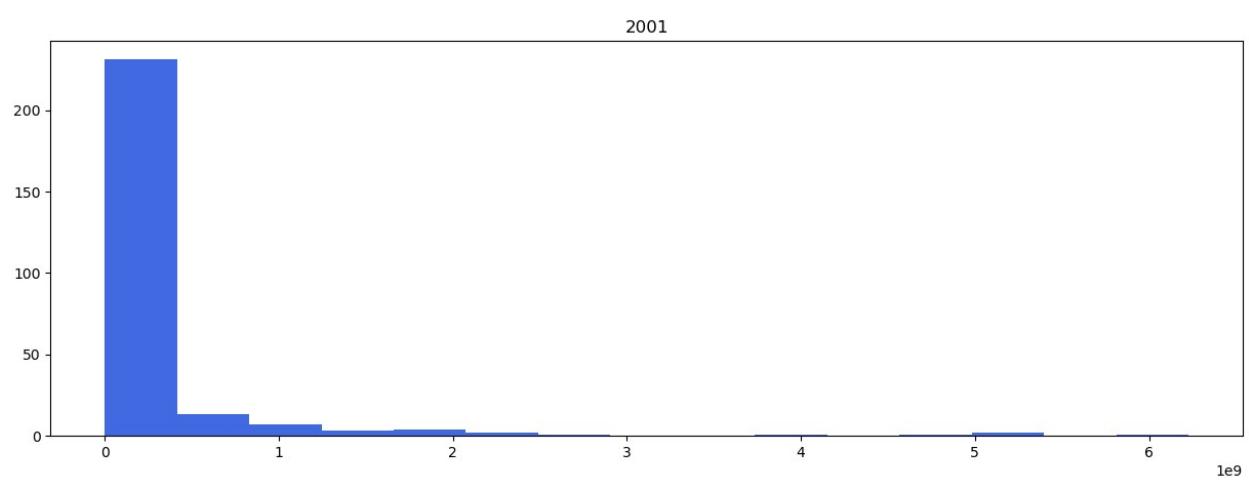
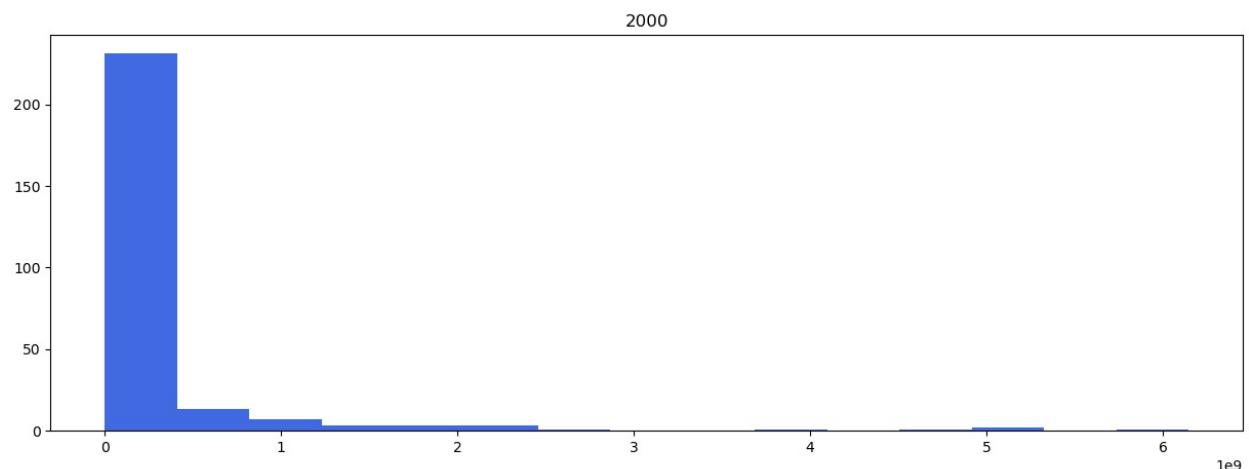


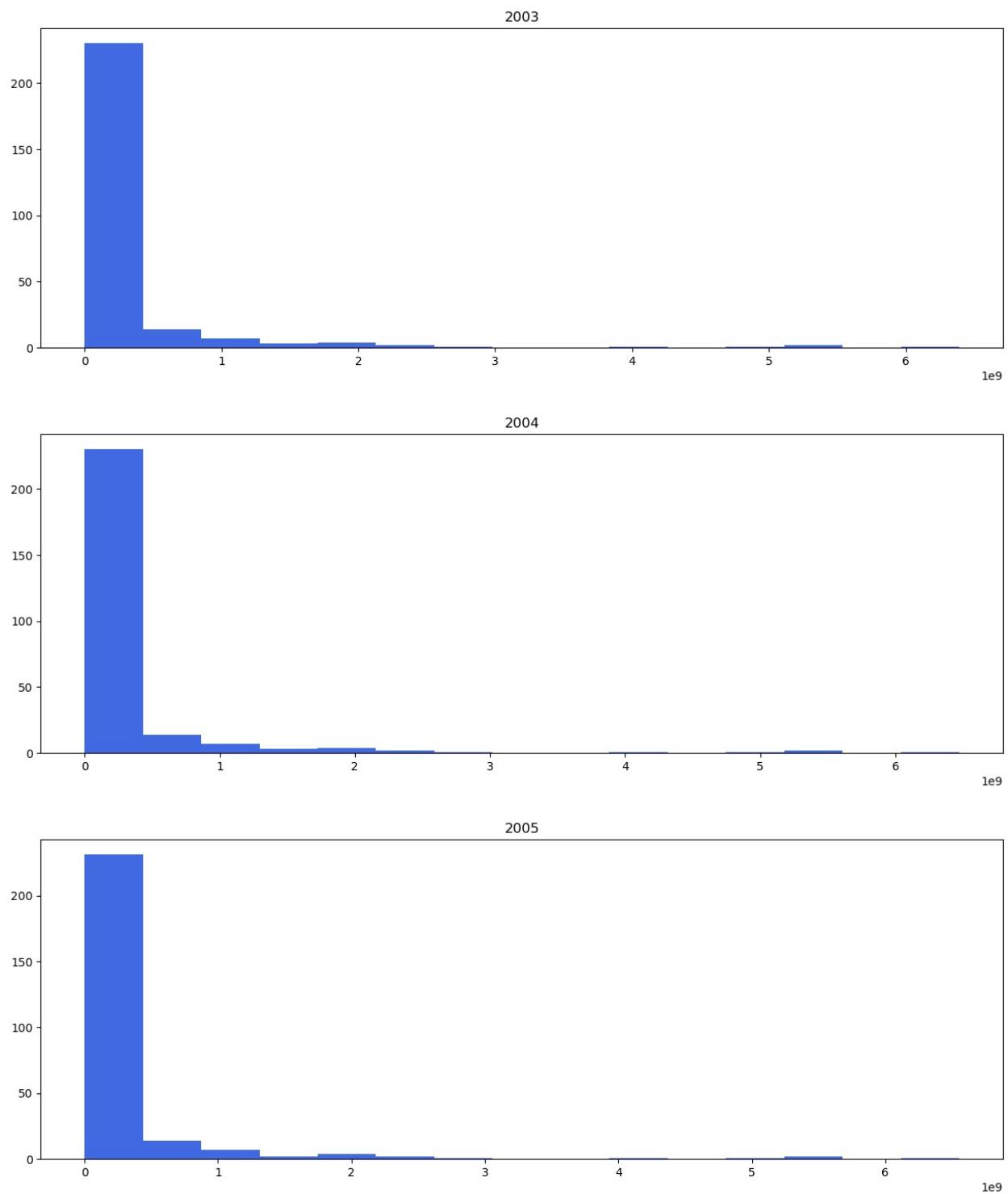


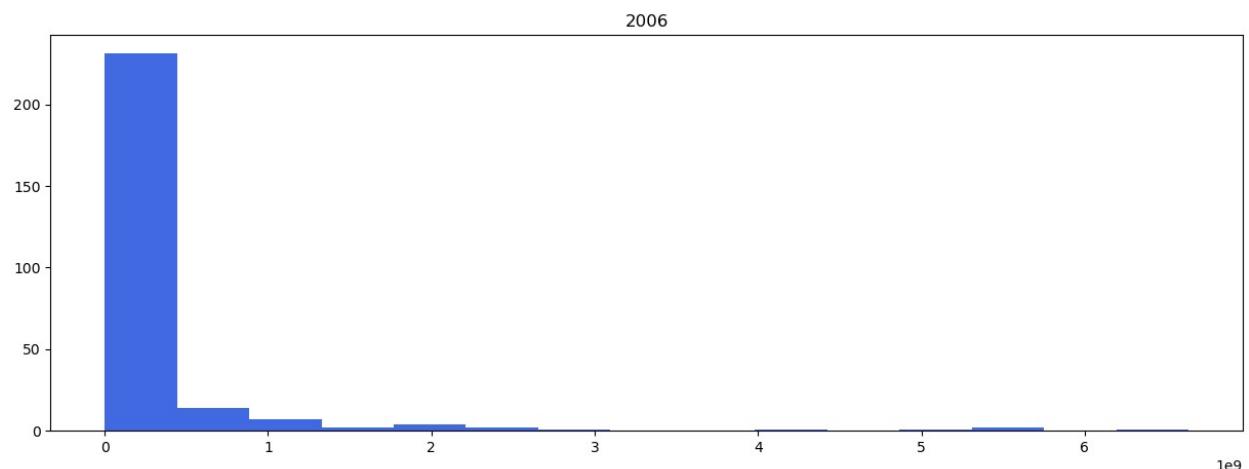


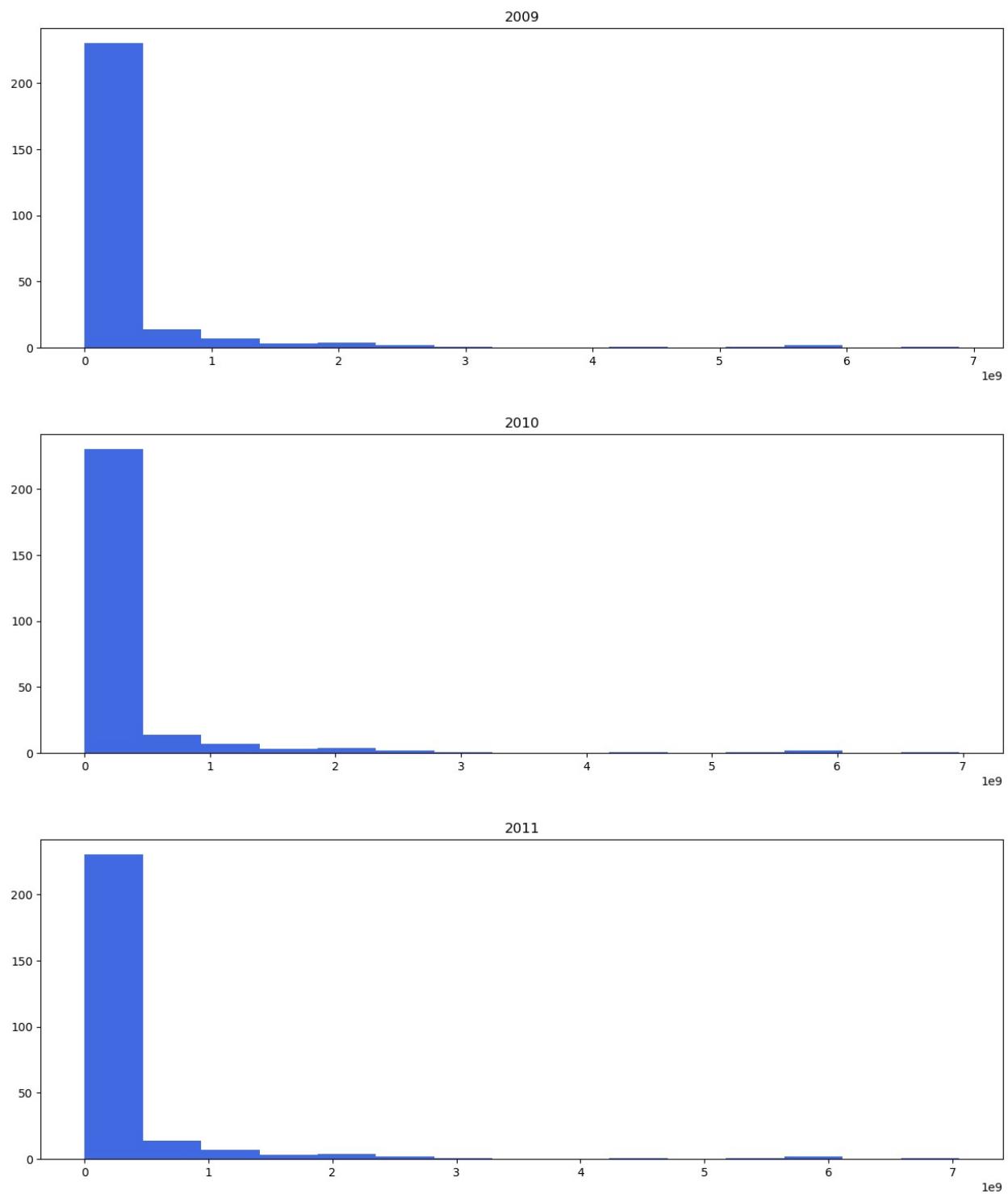


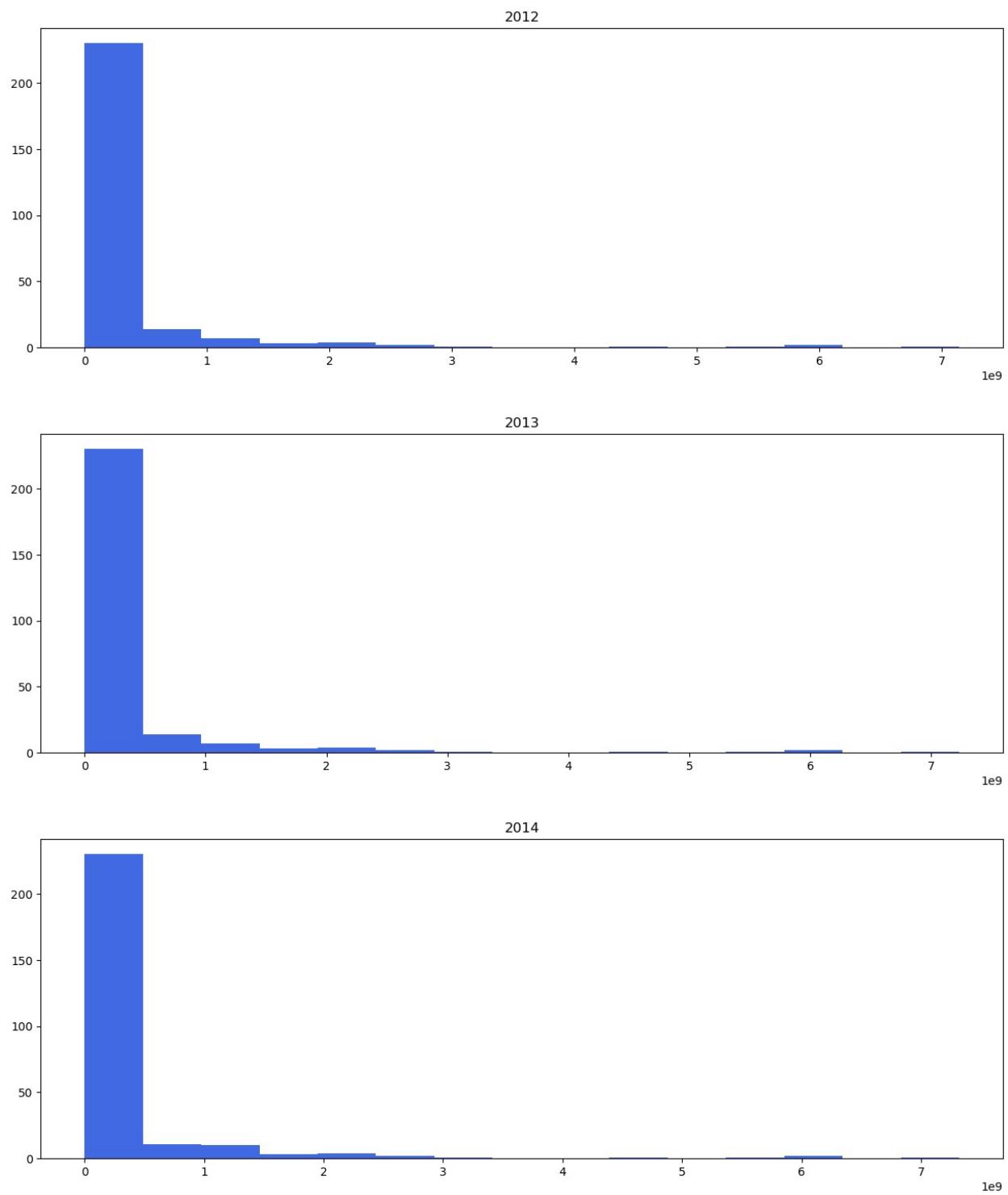


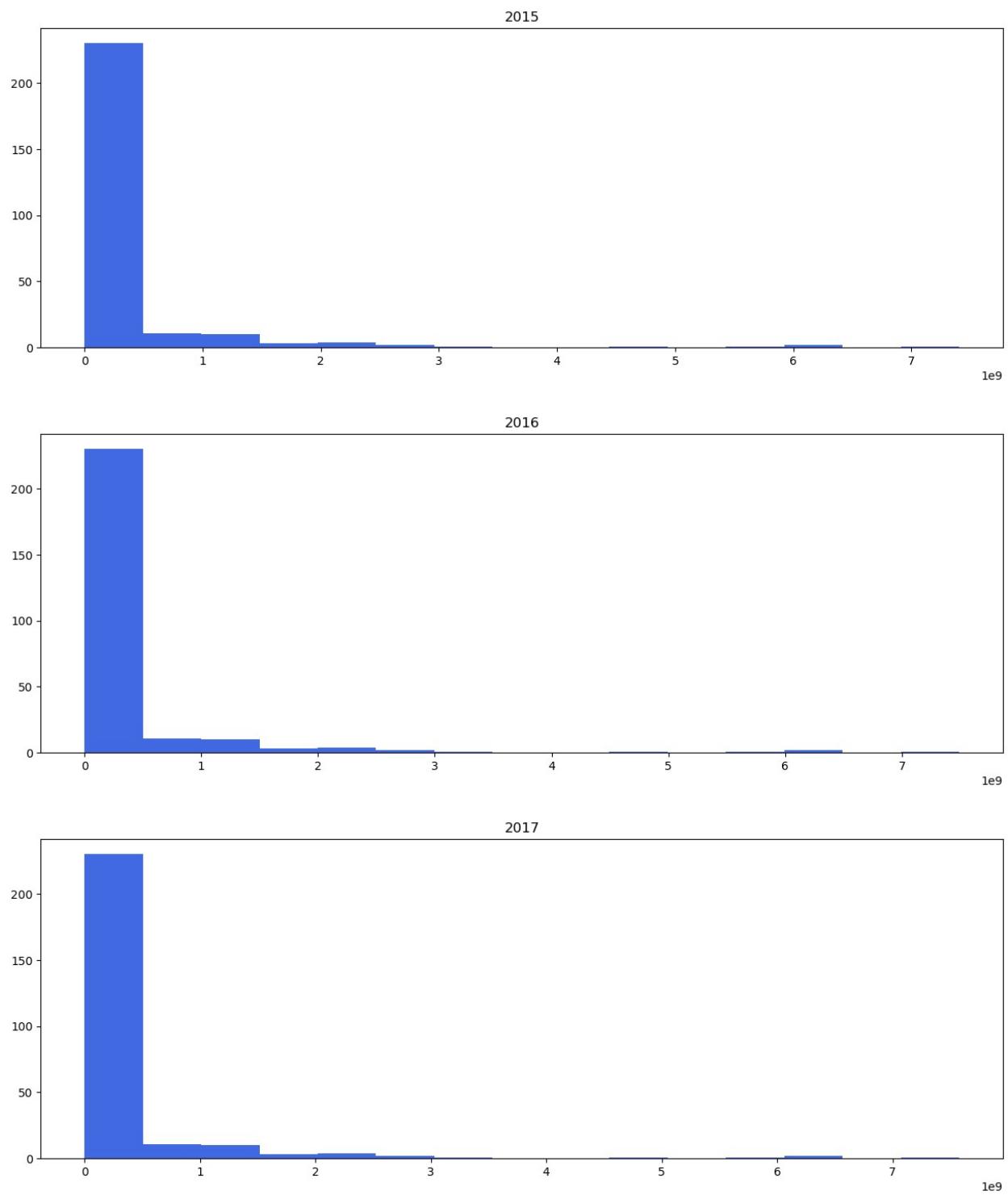




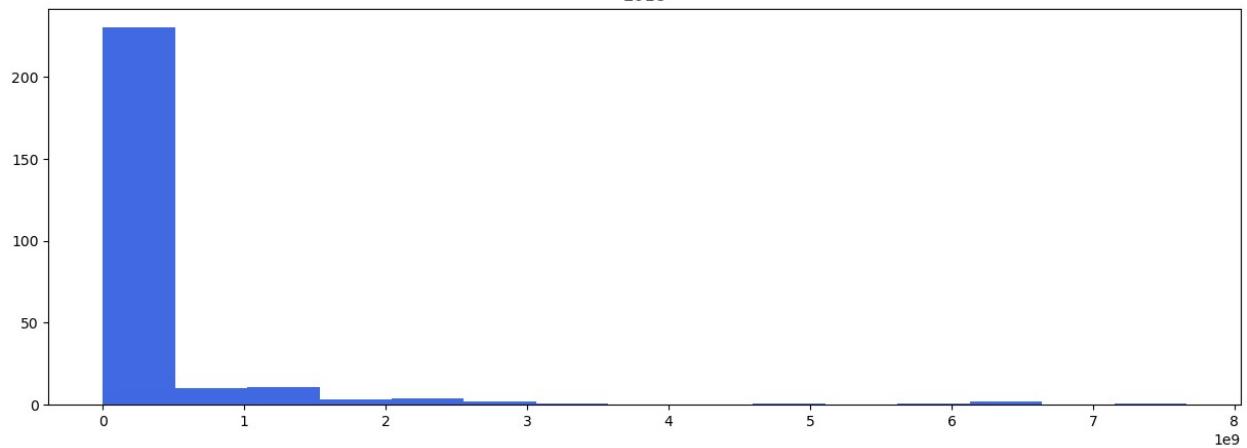




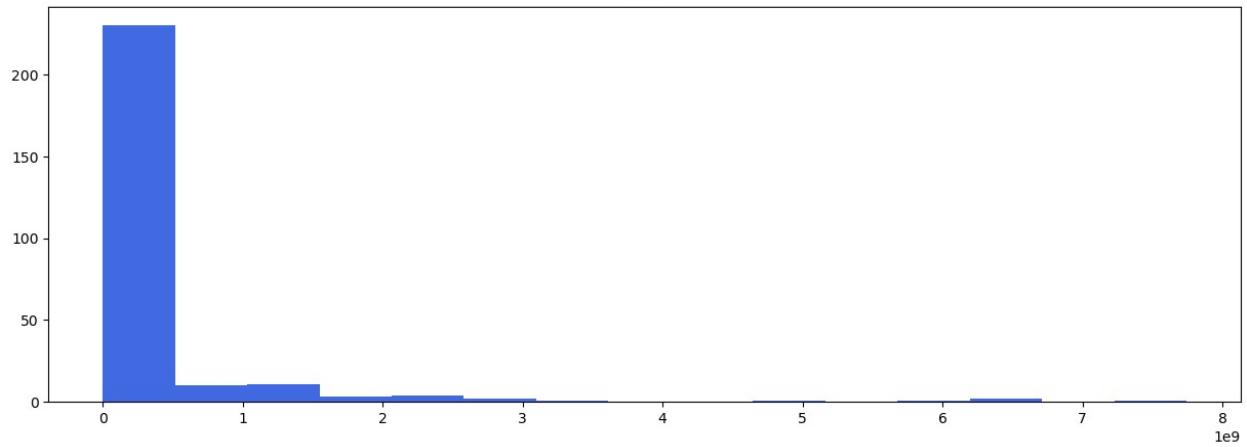




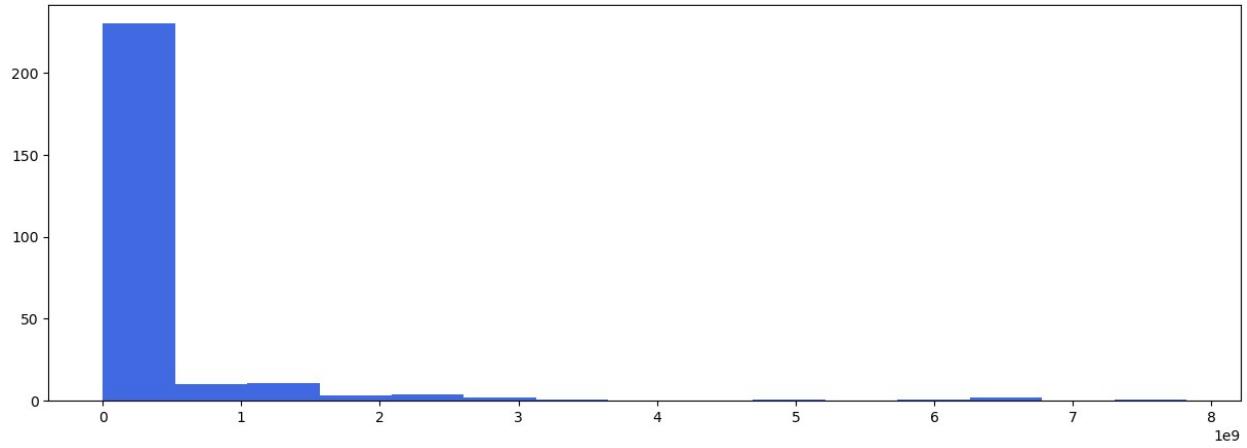
2018

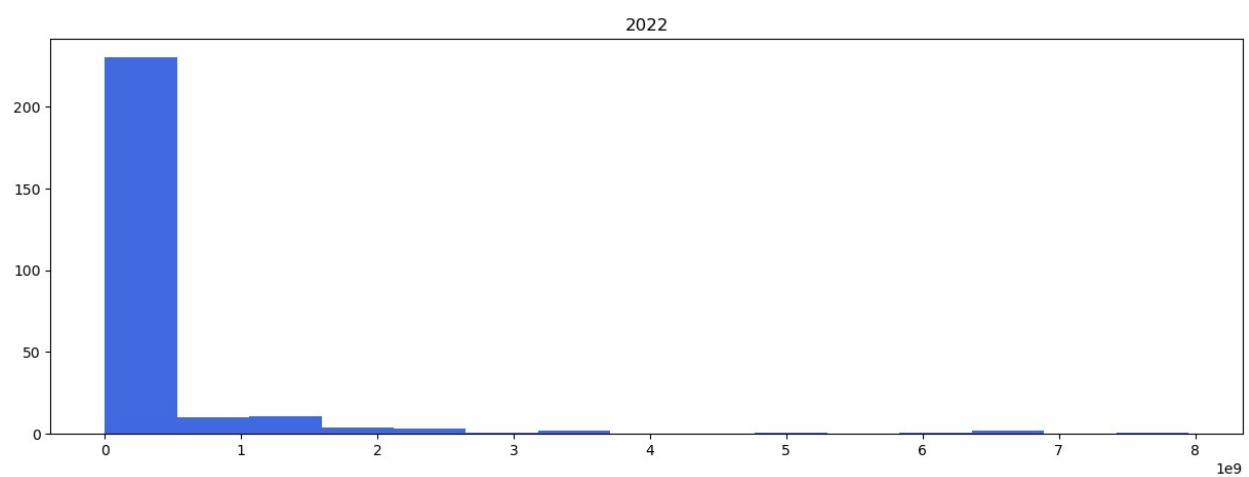
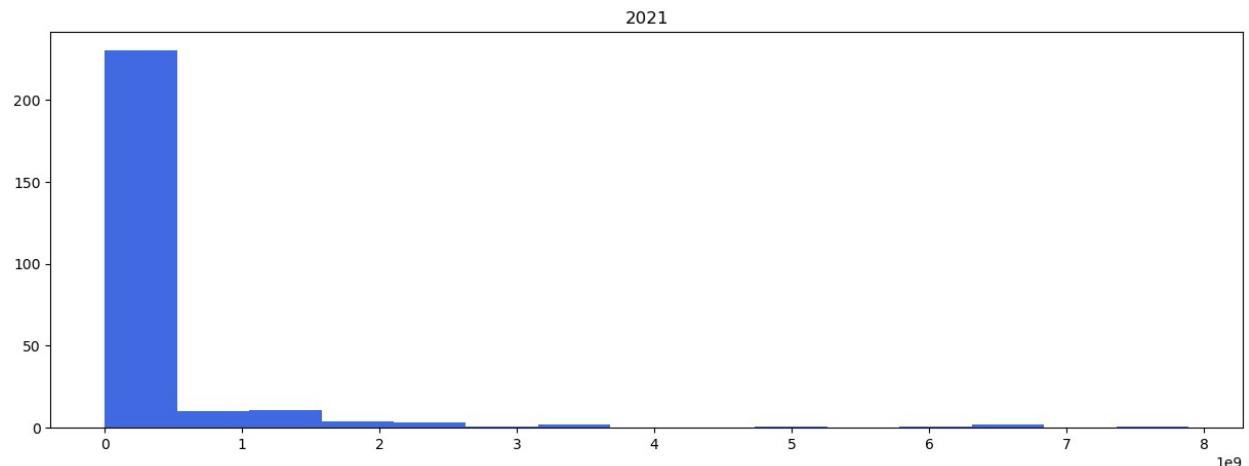


2019

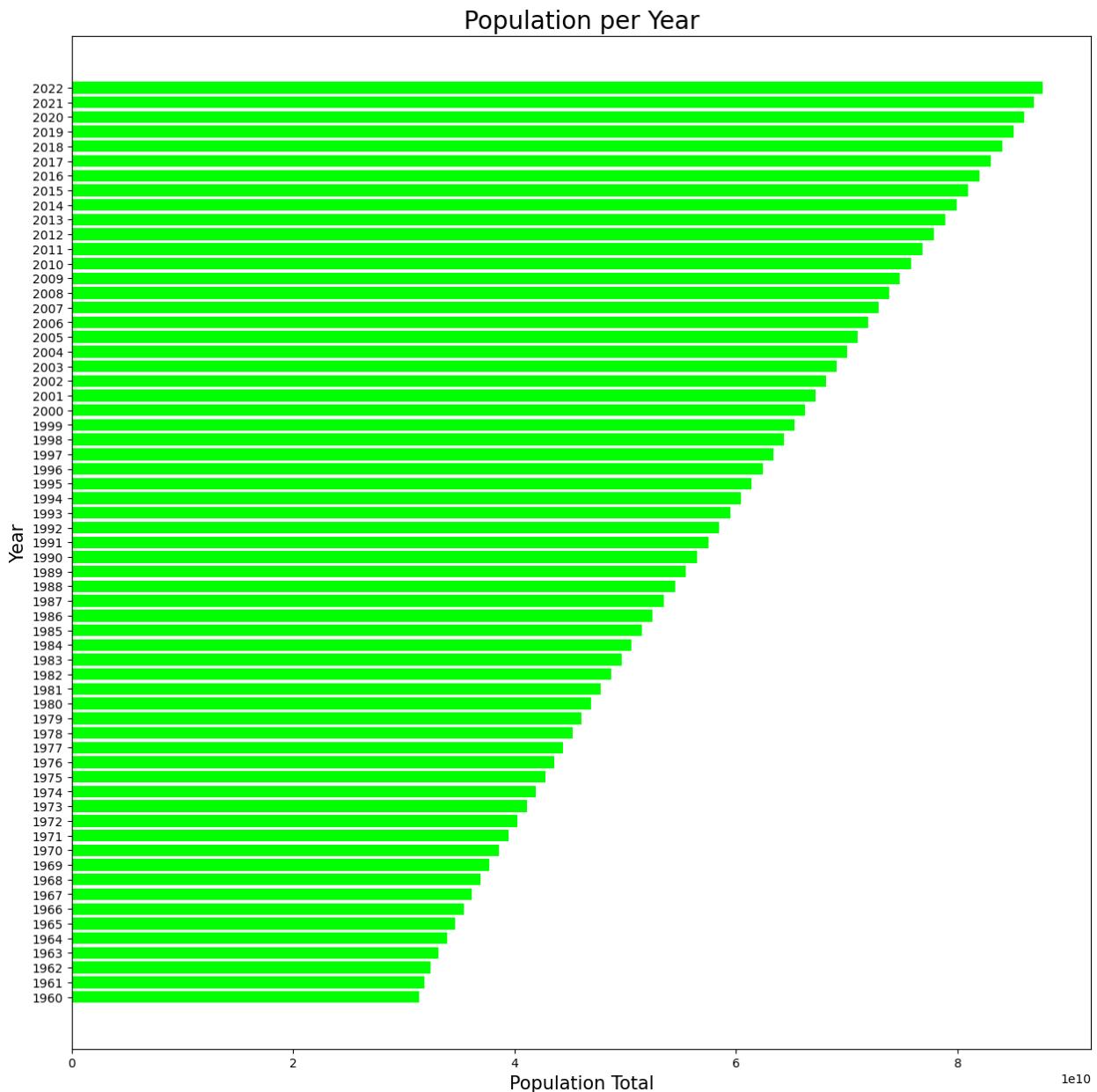


2020





```
Year = df.columns[1:]
population_total = df[Year].sum()
plt.figure(figsize=(15,15))
plt.barh(Year, population_total,color='lime')
plt.xlabel('Population Total', size=15)
plt.ylabel('Year', size=15)
plt.title('Population per Year', size=20)
plt.show()
```



```
countries_sort_by_1960 = df.sort_values(by='1960').head(50)
countries_sort_by_1960
```

	Country Name	1960	1961	1962
1963 \ 225 3481.0	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0
147 4524.0	St. Martin (French part)	4135.0	4258.0	4388.0
179 5198.0	Nauru	4582.0	4753.0	4950.0
245	Tuvalu	5404.0	5436.0	5471.0

5503.0				
228	Turks and Caicos Islands	5604.0	5625.0	5633.0
5634.0				
255	British Virgin Islands	7850.0	7885.0	7902.0
7919.0				
52	Cayman Islands	8473.0	8626.0	8799.0
8985.0				
164	Northern Mariana Islands	8702.0	8965.0	9252.0
9561.0				
6	Andorra	9443.0	10216.0	11014.0
11839.0				
188	Palau	9446.0	9639.0	9851.0
10076.0				
155	Marshall Islands	15374.0	15867.0	16387.0
16947.0				
212	San Marino	15556.0	15895.0	16242.0
16583.0				
137	Liechtenstein	16472.0	16834.0	17221.0
17625.0				
11	American Samoa	20085.0	20626.0	21272.0
21949.0				
149	Monaco	21797.0	21907.0	22106.0
22442.0				
84	Gibraltar	21822.0	21907.0	22249.0
22796.0				
91	Greenland	32500.0	33700.0	35000.0
36400.0				
256	Virgin Islands (U.S.)	32500.0	34300.0	35000.0
39800.0				
78	Faroe Islands	34154.0	34572.0	34963.0
35385.0				
200	Qatar	36385.0	40111.0	45123.0
50950.0				
226	Seychelles	41700.0	42889.0	44042.0
45176.0				
79	Micronesia, Fed. Sts.	42986.0	44563.0	46200.0
47758.0				
27	Bermuda	44400.0	45500.0	46600.0
47700.0				
124	Kiribati	47093.0	48275.0	49508.0
50780.0				
108	Isle of Man	48793.0	48422.0	48669.0
49131.0				
0	Aruba	54608.0	55811.0	56682.0
57475.0				
12	Antigua and Barbuda	55342.0	56245.0	57008.0
57778.0				
125	St. Kitts and Nevis	56660.0	56247.0	55404.0
54391.0				

		Dominica	59379.0	60395.0	61224.0		
57		Vanuatu	64608.0	66462.0	68391.0		
62031.0		Tonga	67428.0	69391.0	71388.0		
258		Sao Tome and Principe	68038.0	68705.0	69520.0		
70400.0		Guam	72374.0	73873.0	75412.0		
239		New Caledonia	79000.0	81200.0	83400.0		
73441.0		St. Vincent and the Grenadines	84141.0	85666.0	87183.0		
219		French Polynesia	84851.0	86921.0	89208.0		
70272.0		Brunei Darussalam	85346.0	89561.0	93837.0		
93		Djibouti	85940.0	89270.0	93122.0		
76996.0		Belize	91403.0	93757.0	96188.0		
172		St. Lucia	91614.0	92761.0	93823.0		
85700.0		Maldives	91650.0	93952.0	96332.0		
253		Grenada	93772.0	95096.0	96052.0		
88638.0		Channel Islands	109186.0	110225.0	111281.0		
199		Samoa	113335.0	116820.0	120163.0		
91963.0		Bahamas, The	114500.0	120216.0	126305.0		
31		Curacao	124826.0	126125.0	128414.0		
98277.0		United Arab Emirates	133426.0	140984.0	148877.0		
56		Solomon Islands	133440.0	136780.0	140254.0		
97670.0		Bahrain	160691.0	166970.0	173359.0		
26		Iceland	175574.0	179029.0	182378.0		
98862.0							
133							
94887.0							
152							
98775.0							
90							
96882.0							
38							
112410.0							
260							
123416.0							
23							
132639.0							
51							
130860.0							
8							
157006.0							
209							
143863.0							
22							
179891.0							
114							
185653.0							
	1964	1965	1966	1967	1968	...	2013
\	3811.0	4161.0	4531.0	4930.0	5354.0	...	36607.0

147	4666.0	4832.0	5044.0	5294.0	5497.0	...	35639.0
179	5484.0	5804.0	6021.0	6114.0	6288.0	...	10694.0
245	5525.0	5548.0	5591.0	5657.0	5729.0	...	10918.0
228	5642.0	5650.0	5652.0	5662.0	5668.0	...	33594.0
255	7949.0	8018.0	8139.0	8337.0	8649.0	...	28657.0
52	9172.0	9366.0	9566.0	9771.0	9981.0	...	58212.0
164	9890.0	10229.0	10577.0	10720.0	10440.0	...	52141.0
6	12690.0	13563.0	14546.0	15745.0	17079.0	...	71367.0
188	10318.0	10563.0	10813.0	10992.0	11079.0	...	17805.0
155	17537.0	18154.0	18794.0	19665.0	21001.0	...	51352.0
212	16926.0	17273.0	17588.0	17907.0	18291.0	...	33285.0
137	18058.0	18500.0	18957.0	19467.0	20011.0	...	36806.0
11	22656.0	23391.0	24122.0	24848.0	25608.0	...	52995.0
149	22766.0	23022.0	23198.0	23281.0	23481.0	...	35425.0
84	23347.0	23910.0	24477.0	25047.0	25610.0	...	32411.0
91	37600.0	39200.0	40500.0	41900.0	43400.0	...	56483.0
256	40800.0	43500.0	46200.0	49100.0	55700.0	...	108041.0
78	35841.0	36346.0	36825.0	37234.0	37630.0	...	48418.0
200	57531.0	64843.0	73102.0	82517.0	93022.0	...	2035501.0
226	46322.0	47500.0	48699.0	49911.0	51134.0	...	89949.0
79	49231.0	50759.0	52346.0	53940.0	55553.0	...	108609.0
27	48900.0	50100.0	51000.0	52000.0	53000.0	...	65001.0
124	52092.0	53444.0	54428.0	54990.0	55511.0	...	113311.0
108	49597.0	50057.0	50718.0	51731.0	52910.0	...	84144.0
0	58178.0	58782.0	59291.0	59522.0	59471.0	...	102880.0
12	58664.0	59644.0	60615.0	61617.0	62658.0	...	88497.0

125	53255.0	52016.0	50683.0	49269.0	47772.0	...	47767.0
57	62843.0	63744.0	64728.0	65760.0	66865.0	...	68819.0
258	72493.0	74677.0	76945.0	79311.0	81782.0	...	263534.0
239	75544.0	77686.0	79794.0	81725.0	83430.0	...	107089.0
219	70992.0	71730.0	72567.0	73564.0	74739.0	...	193757.0
93	78621.0	80255.0	81879.0	83480.0	85046.0	...	167054.0
172	88100.0	90500.0	93500.0	96500.0	99500.0	...	263650.0
253	90053.0	91495.0	92957.0	94382.0	95758.0	...	107450.0
199	95192.0	98674.0	102281.0	105995.0	109832.0	...	288032.0
31	102904.0	107686.0	112597.0	117628.0	122764.0	...	411702.0
56	102945.0	108772.0	114874.0	121168.0	127668.0	...	971753.0
26	101772.0	104838.0	108062.0	111411.0	114825.0	...	344688.0
133	95948.0	97024.0	98126.0	99257.0	100400.0	...	173978.0
152	101241.0	104566.0	108713.0	112547.0	116049.0	...	400728.0
90	97613.0	98226.0	98692.0	98977.0	99056.0	...	116945.0
38	113596.0	114832.0	116116.0	117430.0	118707.0	...	159794.0
260	126582.0	129789.0	132976.0	135752.0	138154.0	...	199939.0
23	138785.0	144849.0	151323.0	158197.0	165456.0	...	385650.0
51	133148.0	135266.0	136682.0	138140.0	140298.0	...	153822.0
8	165305.0	173797.0	182509.0	191404.0	213582.0	...	8751847.0
209	147609.0	151495.0	155514.0	159667.0	163973.0	...	582365.0
22	186587.0	193012.0	199019.0	204916.0	210801.0	...	1261673.0
114	188983.0	192286.0	195570.0	198751.0	201488.0	...	323764.0
	2014	2015	2016	2017	2018	2019	
\	225	37685.0	38825.0	39969.0	40574.0	40895.0	41608.0
	147	35261.0	35020.0	34811.0	34496.0	33852.0	33121.0

179	10940.0	11185.0	11437.0	11682.0	11924.0	12132.0
245	10899.0	10877.0	10852.0	10828.0	10865.0	10956.0
228	34985.0	36538.0	38246.0	39844.0	41487.0	43080.0
255	28971.0	29366.0	29739.0	30060.0	30335.0	30610.0
52	59559.0	60911.0	62255.0	63581.0	64884.0	66134.0
164	51856.0	51514.0	51133.0	50729.0	50304.0	49858.0
6	71621.0	71746.0	72540.0	73837.0	75013.0	76343.0
188	17796.0	17794.0	17816.0	17837.0	17864.0	17916.0
155	50419.0	49410.0	48329.0	47187.0	45989.0	44728.0
212	33389.0	33570.0	33834.0	34056.0	34156.0	34178.0
137	37096.0	37355.0	37609.0	37889.0	38181.0	38482.0
11	52217.0	51368.0	50448.0	49463.0	48424.0	47321.0
149	36110.0	36760.0	37071.0	37044.0	37029.0	37034.0
84	32452.0	32520.0	32565.0	32602.0	32648.0	32685.0
91	56295.0	56114.0	56186.0	56172.0	56023.0	56225.0
256	107882.0	107712.0	107516.0	107281.0	107001.0	106669.0
78	48465.0	48816.0	49500.0	50230.0	50955.0	51681.0
200	2214465.0	2414573.0	2595166.0	2711755.0	2766732.0	2807235.0
226	91359.0	93419.0	94677.0	95843.0	96762.0	97625.0
79	109024.0	109462.0	109925.0	110430.0	110929.0	111379.0
27	65138.0	65237.0	64554.0	63873.0	63918.0	63911.0
124	114985.0	116707.0	118513.0	120362.0	122261.0	124241.0
108	83896.0	83593.0	83450.0	83580.0	83775.0	83933.0
0	103594.0	104257.0	104874.0	105439.0	105962.0	106442.0
12	89236.0	89941.0	90564.0	91119.0	91626.0	92117.0
125	47789.0	47790.0	47788.0	47785.0	47761.0	47712.0

57	69371.0	70007.0	70075.0	70403.0	70823.0	71428.0
258	269927.0	276438.0	283218.0	290239.0	297298.0	304404.0
239	106626.0	106122.0	105707.0	105415.0	105150.0	104951.0
219	197497.0	201124.0	204632.0	208036.0	211344.0	214599.0
93	167543.0	167978.0	168346.0	168606.0	168678.0	168624.0
172	268050.0	269460.0	270220.0	270810.0	271170.0	271240.0
253	106912.0	106482.0	105963.0	105549.0	105281.0	104924.0
199	289873.0	291787.0	293541.0	295450.0	297606.0	299717.0
31	416656.0	421437.0	425994.0	430276.0	434274.0	438048.0
56	989087.0	1006259.0	1023261.0	1040233.0	1057198.0	1073994.0
26	352335.0	359871.0	367313.0	374693.0	382066.0	389095.0
133	174804.0	175623.0	176413.0	177163.0	177888.0	178583.0
152	416738.0	435582.0	454252.0	472442.0	489758.0	504508.0
90	117972.0	118980.0	119966.0	120921.0	121838.0	122724.0
38	160912.0	162190.0	163721.0	165215.0	167259.0	169410.0
260	201757.0	203571.0	205544.0	207630.0	209701.0	211905.0
23	389131.0	392697.0	395976.0	399020.0	401906.0	404557.0
51	155909.0	157980.0	159664.0	160175.0	159336.0	157441.0
8	8835951.0	8916899.0	8994263.0	9068296.0	9140169.0	9211657.0
209	597375.0	612660.0	628102.0	643634.0	659249.0	674993.0
22	1311134.0	1362142.0	1409661.0	1456834.0	1487340.0	1494188.0
114	327386.0	330815.0	335439.0	343400.0	352721.0	360563.0
	2020	2021	2022			
225	42310.0	42668.0	42848.0			
147	32553.0	31948.0	31791.0			
179	12315.0	12511.0	12668.0			
245	11069.0	11204.0	11312.0			

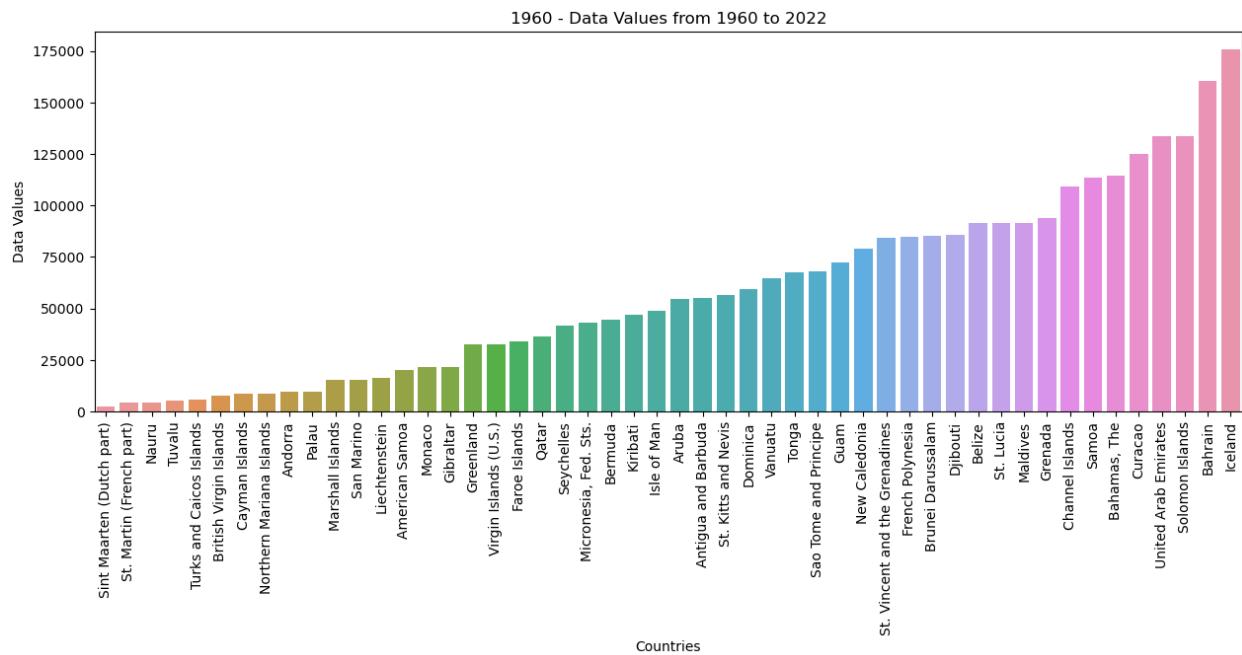
228	44276.0	45114.0	45703.0
255	30910.0	31122.0	31305.0
52	67311.0	68136.0	68706.0
164	49587.0	49481.0	49551.0
6	77700.0	79034.0	79824.0
188	17972.0	18024.0	18055.0
155	43413.0	42050.0	41569.0
212	34007.0	33745.0	33660.0
137	38756.0	39039.0	39327.0
11	46189.0	45035.0	44273.0
149	36922.0	36686.0	36469.0
84	32709.0	32669.0	32649.0
91	56367.0	56653.0	56661.0
256	106290.0	105870.0	105413.0
78	52415.0	52889.0	53090.0
200	2760385.0	2688235.0	2695122.0
226	98462.0	99258.0	119878.0
79	112106.0	113131.0	114164.0
27	63893.0	63764.0	63532.0
124	126463.0	128874.0	131232.0
108	84046.0	84263.0	84519.0
0	106585.0	106537.0	106445.0
12	92664.0	93219.0	93763.0
125	47642.0	47606.0	47657.0
57	71995.0	72412.0	72737.0
258	311685.0	319137.0	326740.0
239	105254.0	106017.0	106858.0
219	218641.0	223107.0	227380.0
93	169231.0	170534.0	171774.0
172	271080.0	270390.0	269220.0
253	104632.0	104332.0	103948.0
199	301920.0	304032.0	306279.0
31	441725.0	445373.0	449002.0
56	1090156.0	1105557.0	1120849.0
26	394921.0	400031.0	405272.0
133	179237.0	179651.0	179857.0
152	514438.0	521457.0	523787.0
90	123663.0	124610.0	125438.0
38	171113.0	172683.0	174079.0
260	214929.0	218764.0	222382.0
23	406471.0	407906.0	409984.0
51	154947.0	152369.0	149996.0
8	9287289.0	9365145.0	9441129.0
209	691191.0	707851.0	724273.0
22	1477469.0	1463265.0	1472233.0
114	366463.0	372520.0	382003.0

[50 rows x 64 columns]

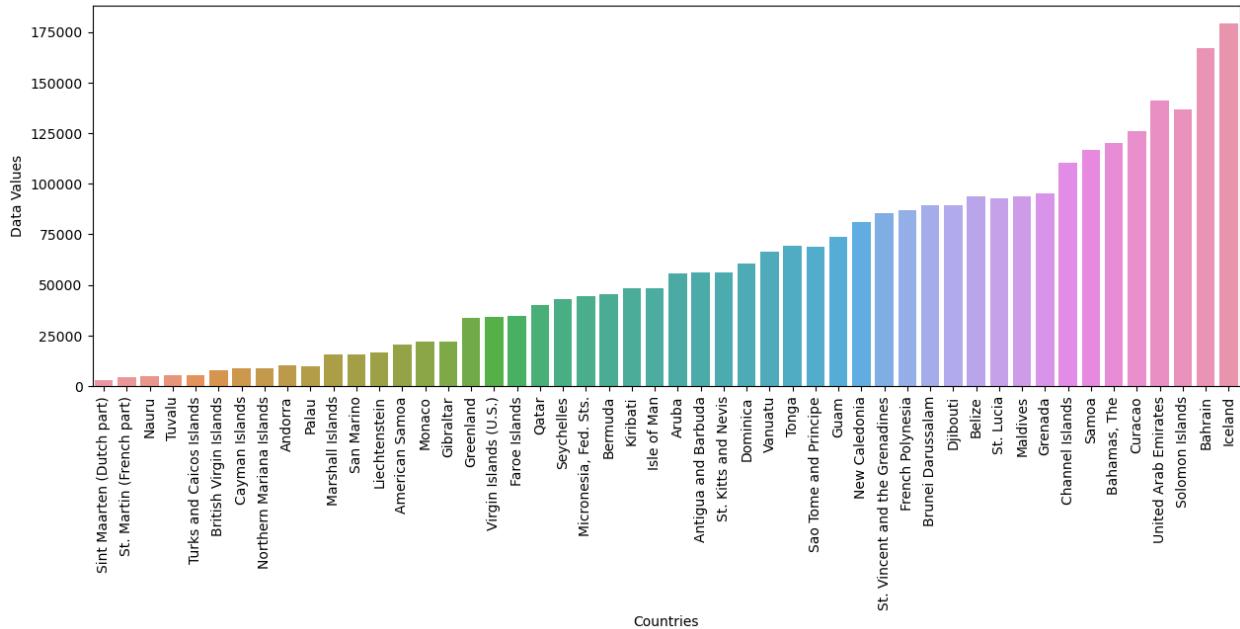
```

countries_sort_by_1960_transpose =
countries_sort_by_1960.set_index('Country Name').T
for country_name, population_value in
countries_sort_by_1960_transpose.iterrows():
    fig = plt.figure(figsize=(15,5))
    sns.barplot(x=population_value.index, y=population_value.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()

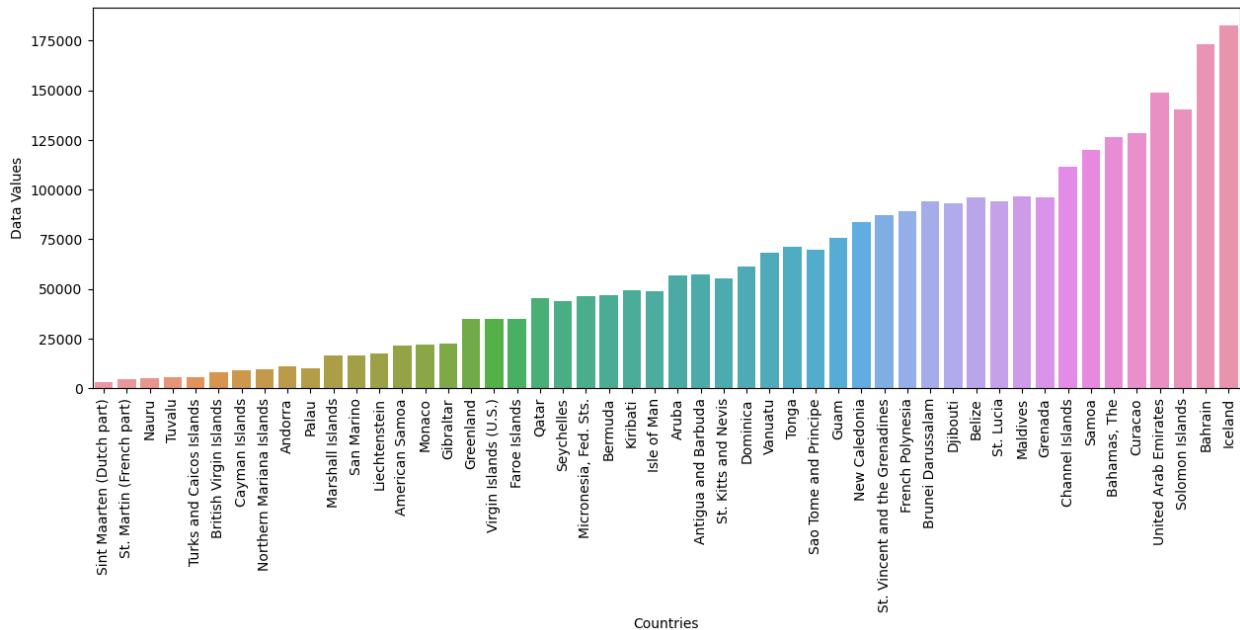
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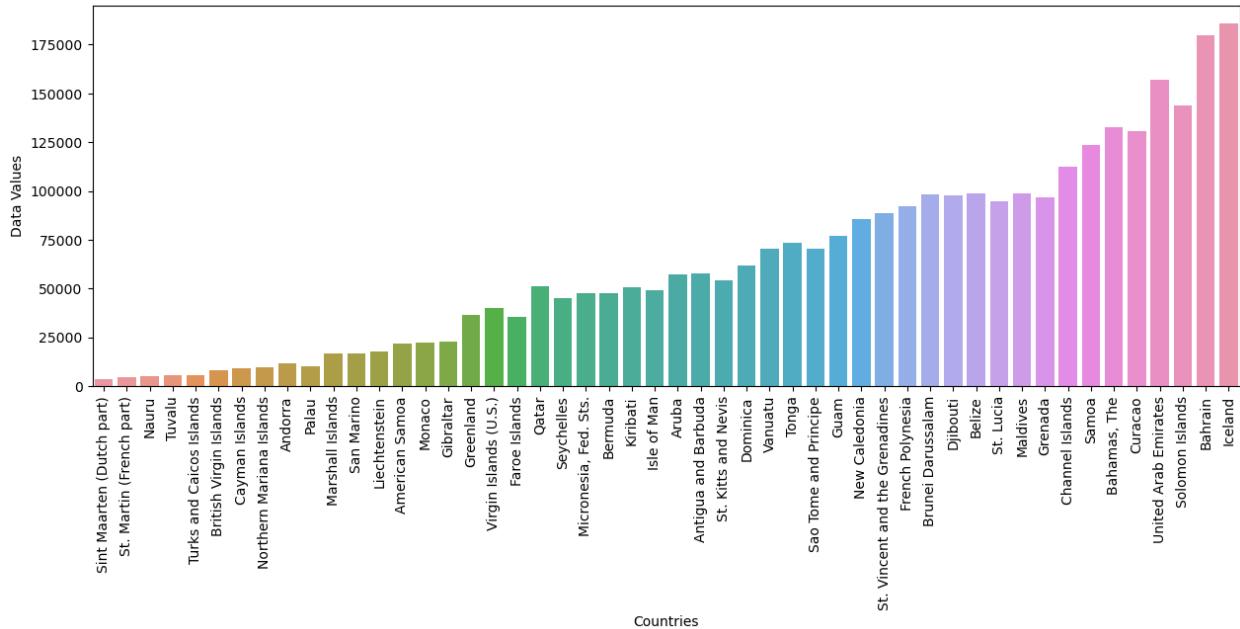
1961 - Data Values from 1960 to 2022



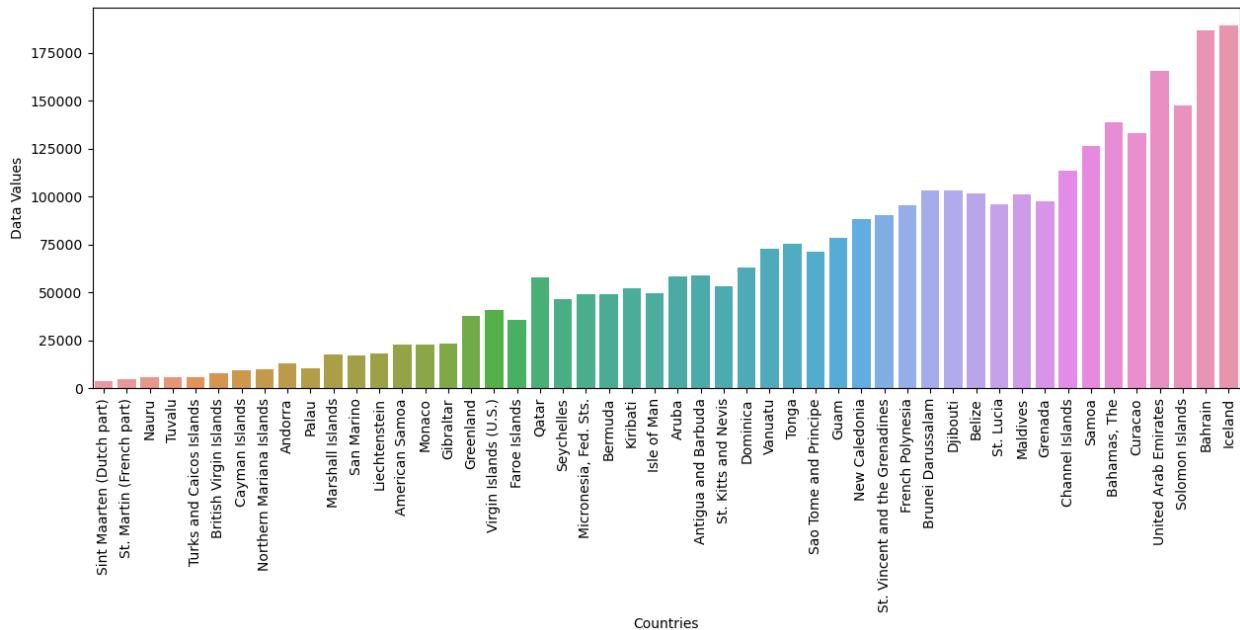
1962 - Data Values from 1960 to 2022

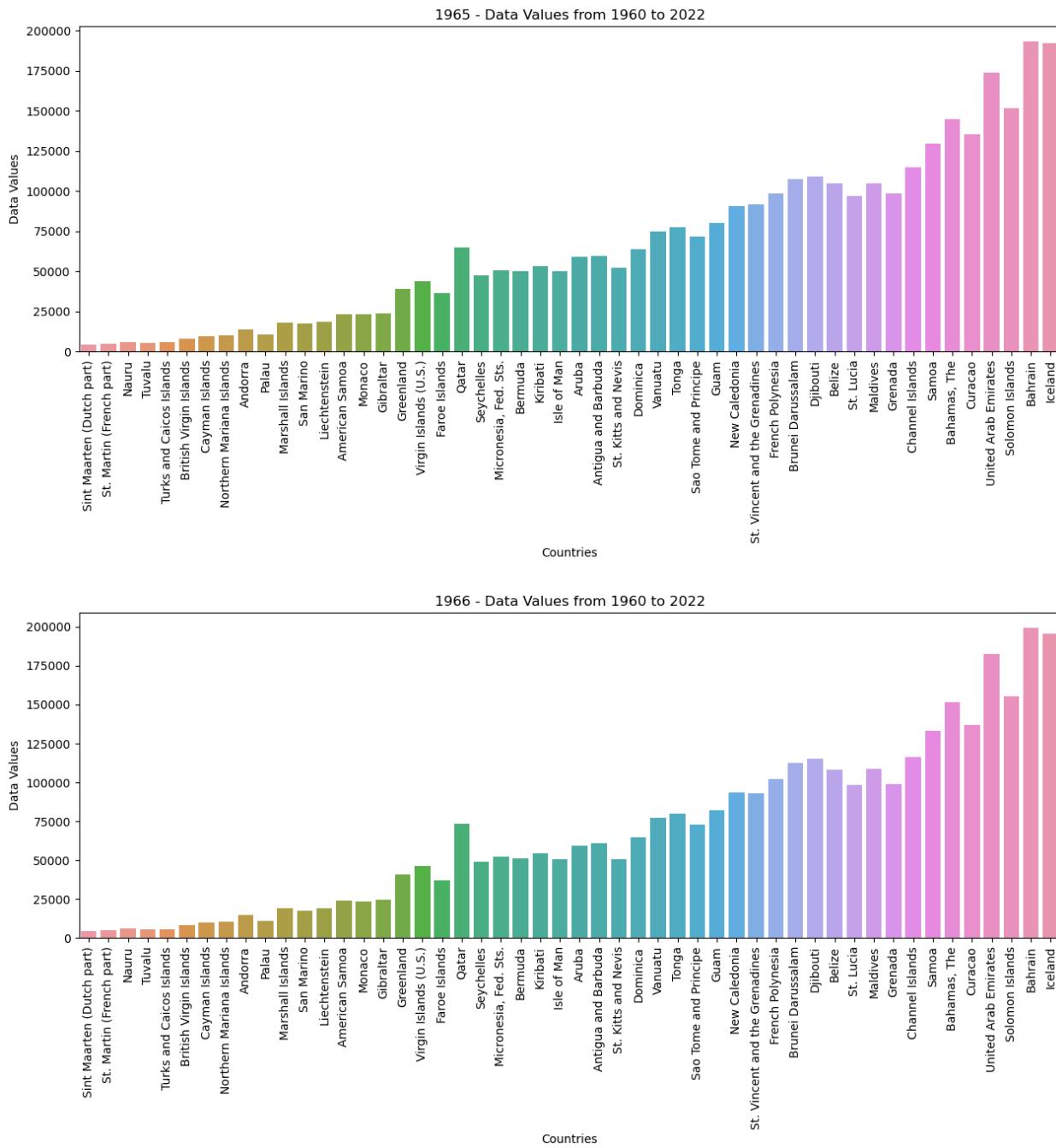


1963 - Data Values from 1960 to 2022

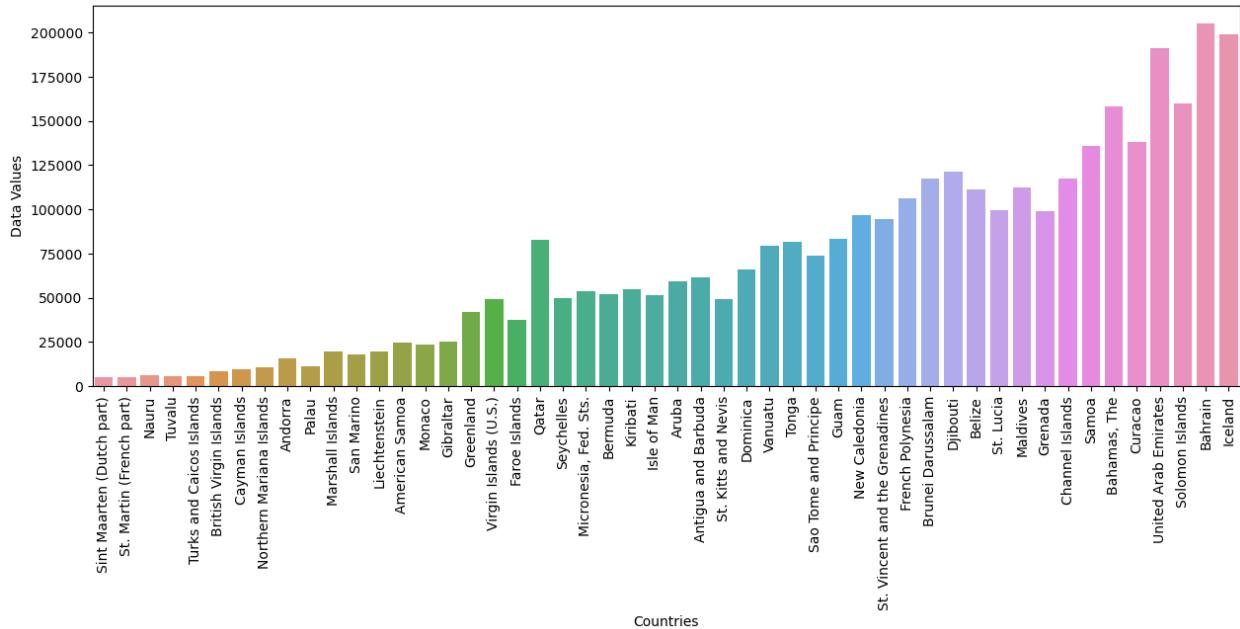


1964 - Data Values from 1960 to 2022

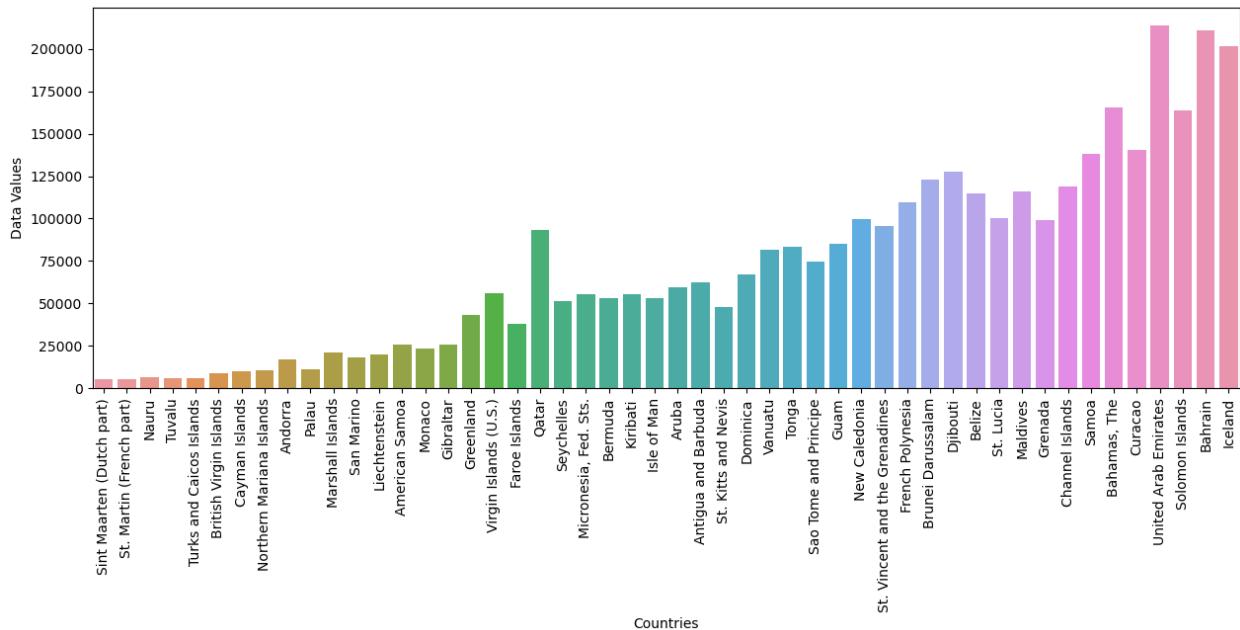




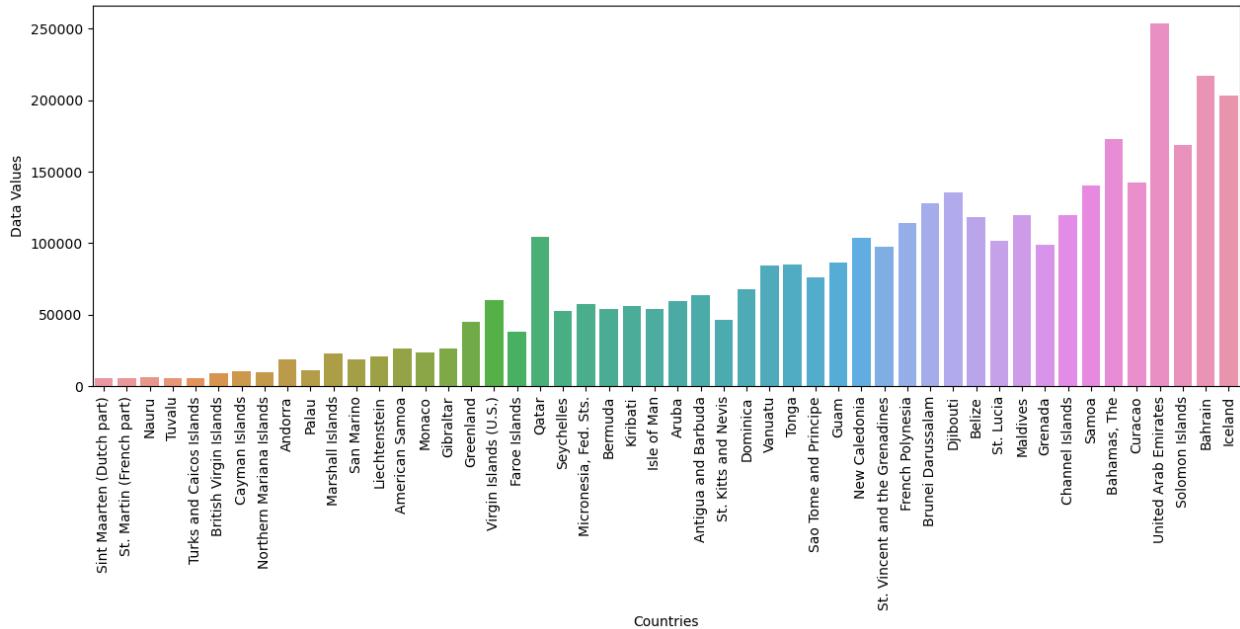
1967 - Data Values from 1960 to 2022



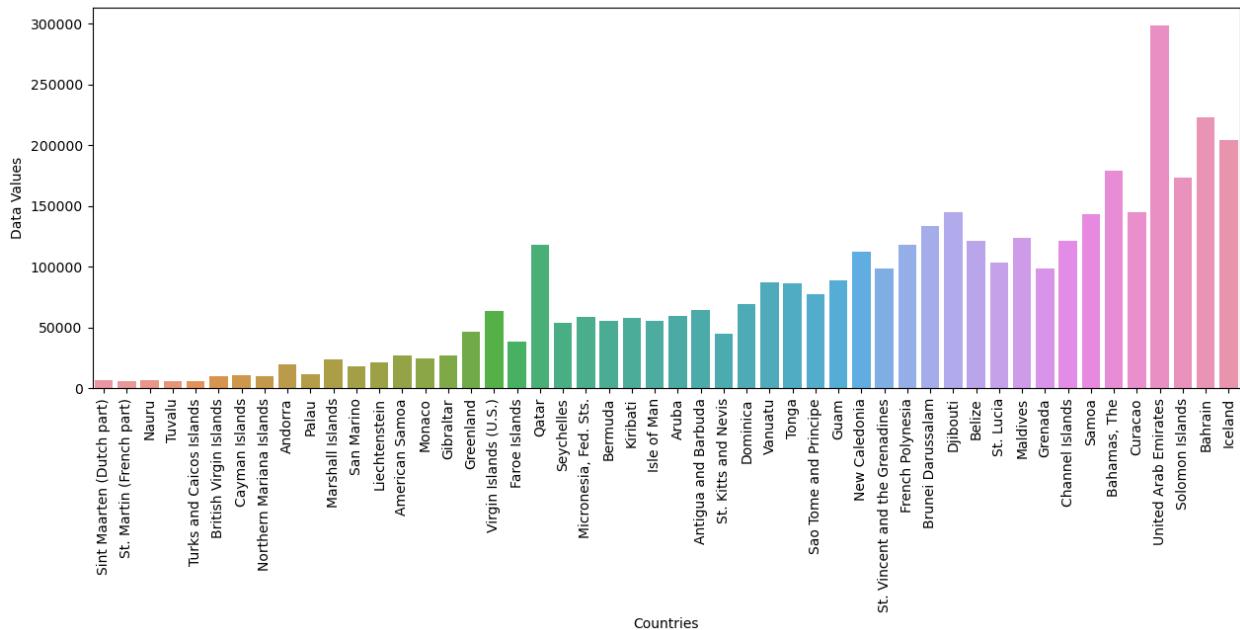
1968 - Data Values from 1960 to 2022



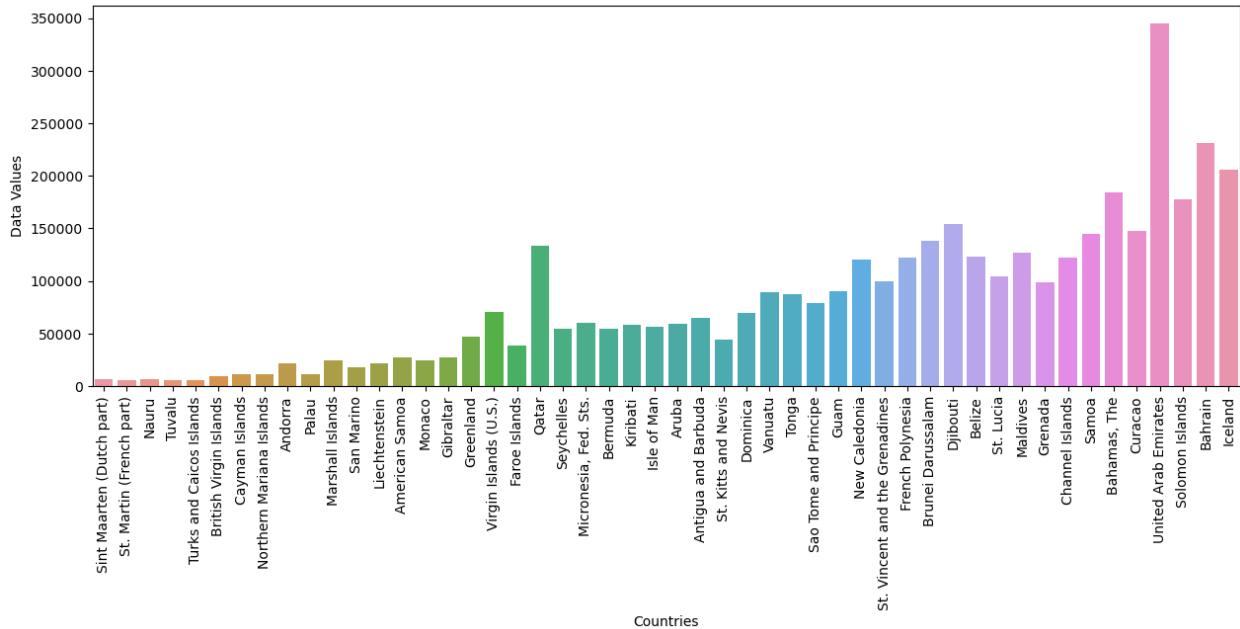
1969 - Data Values from 1960 to 2022



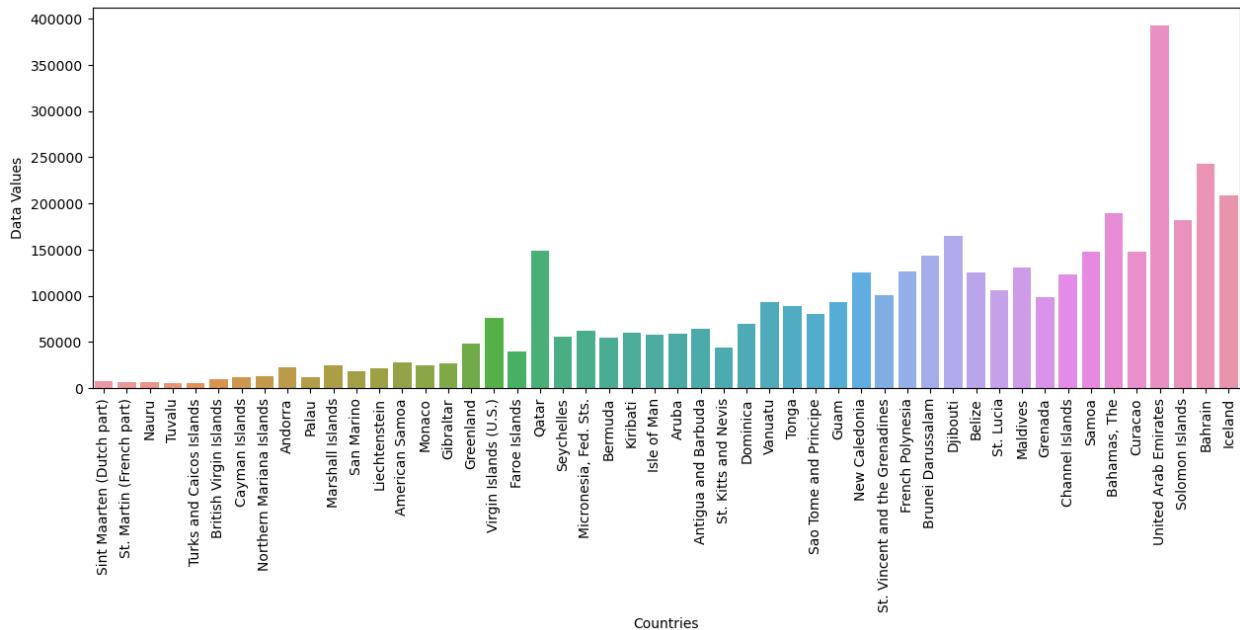
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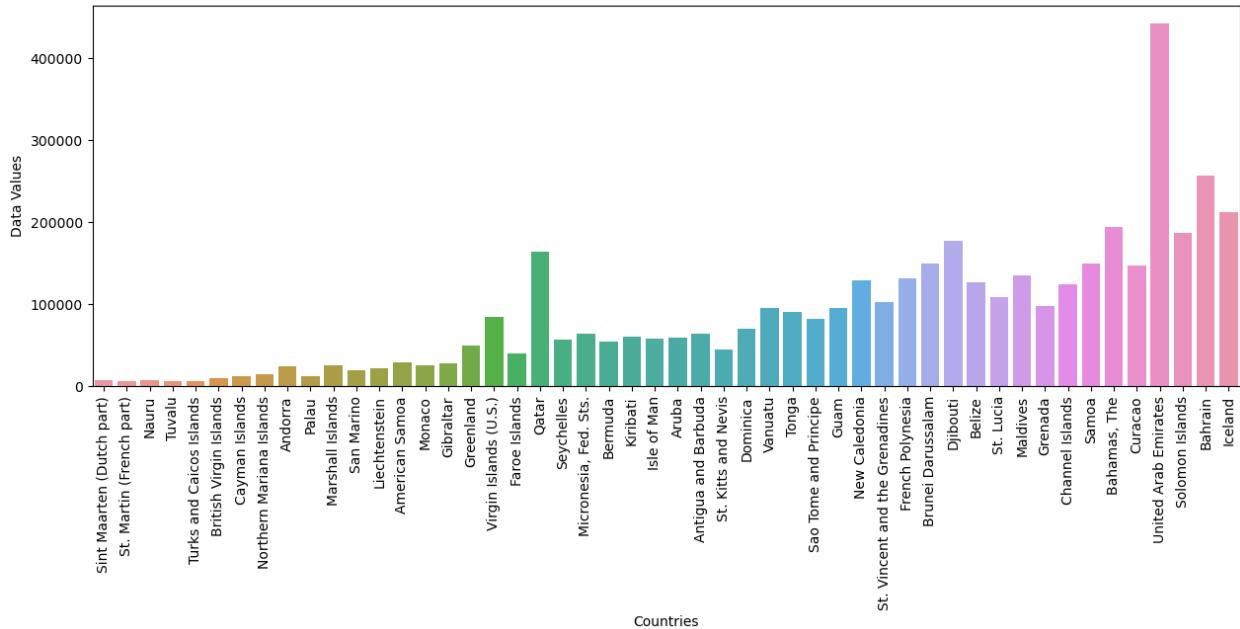
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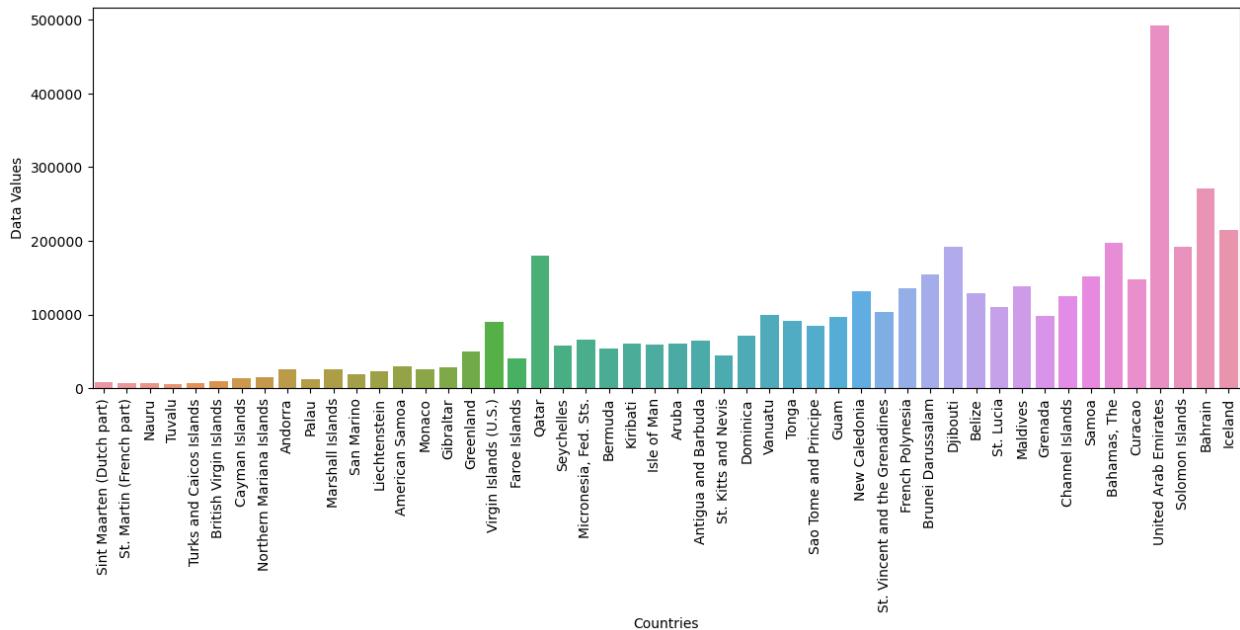
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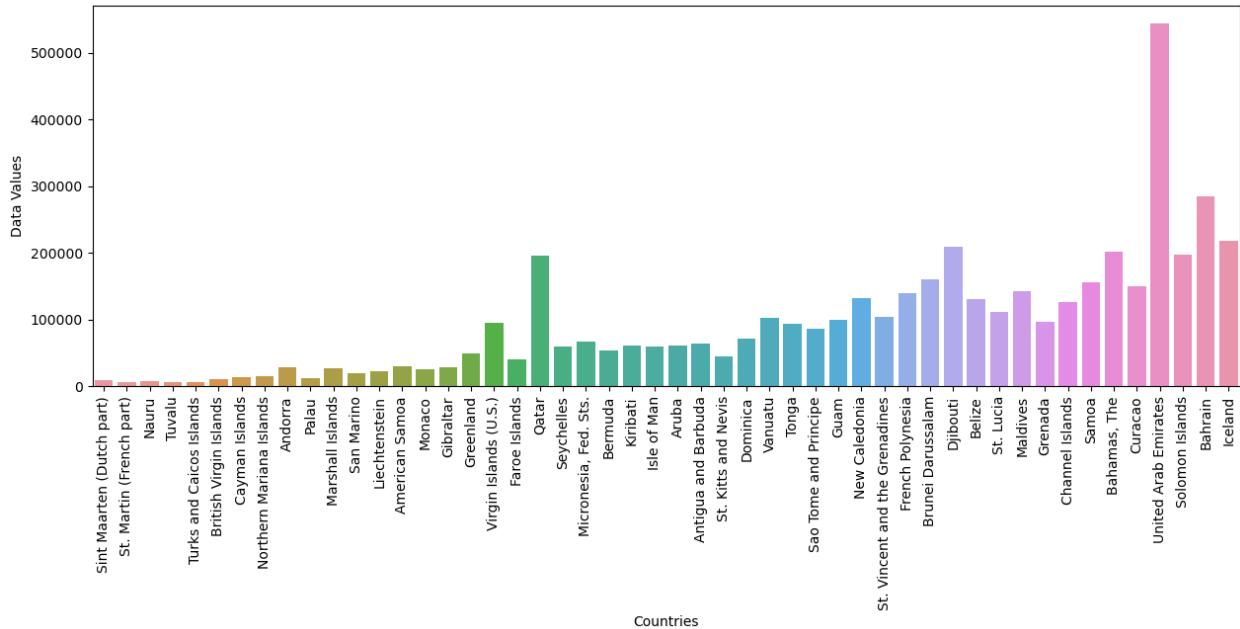
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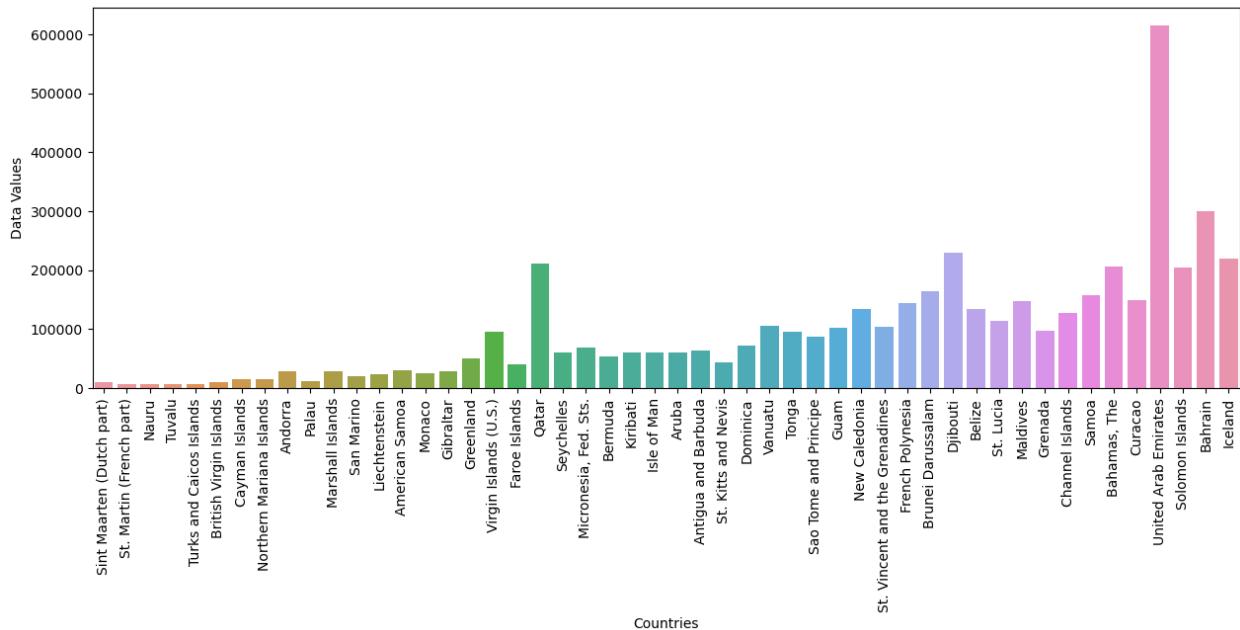
1974 - Data Values from 1960 to 2022



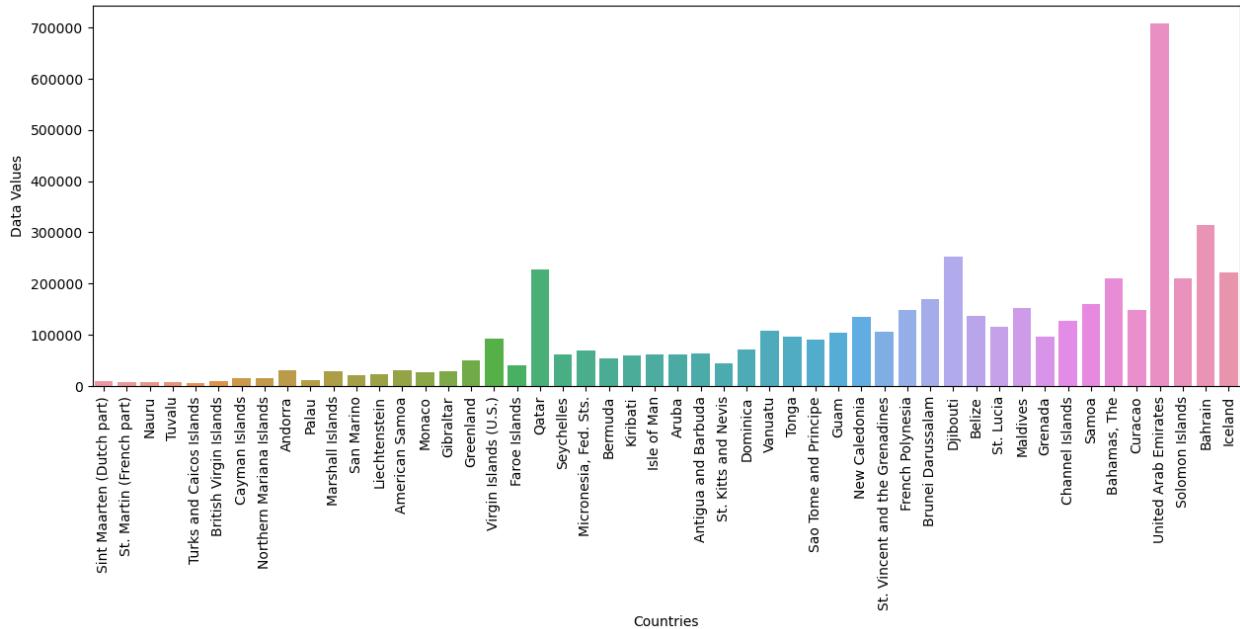
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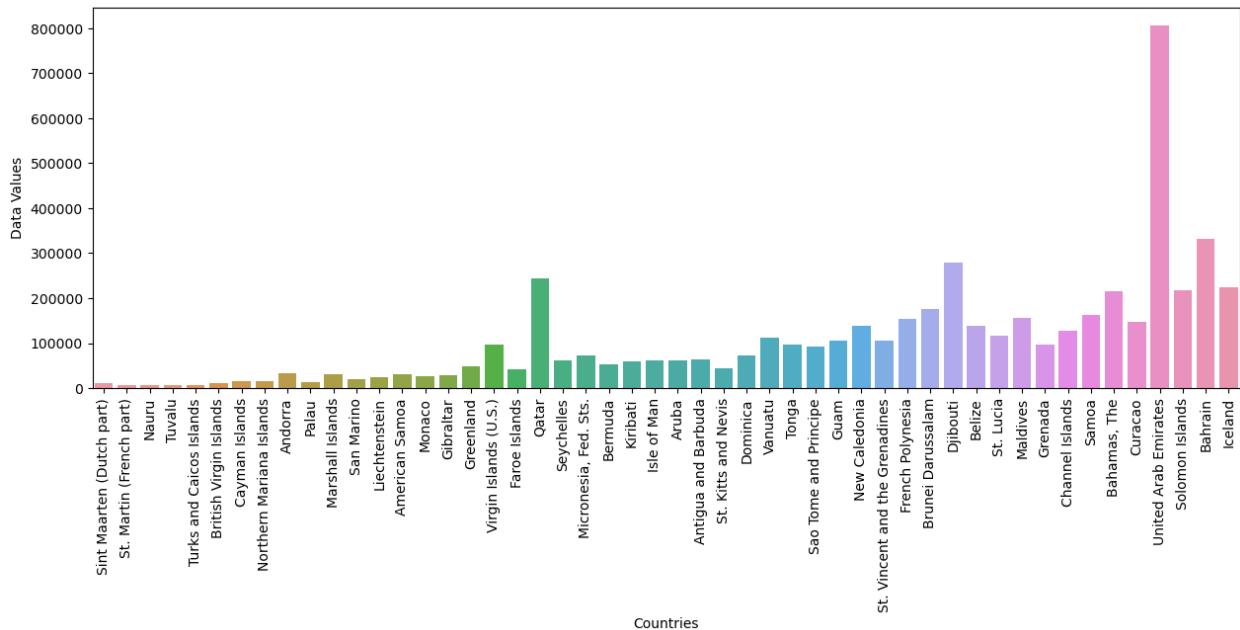
1976 - Data Values from 1960 to 2022



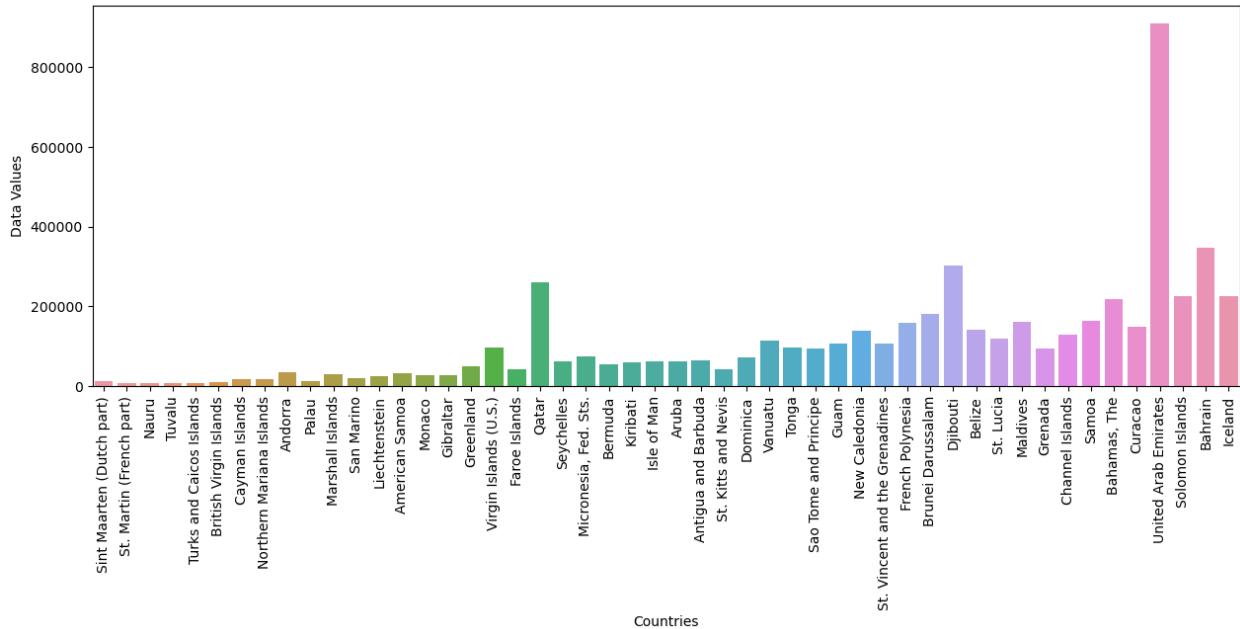
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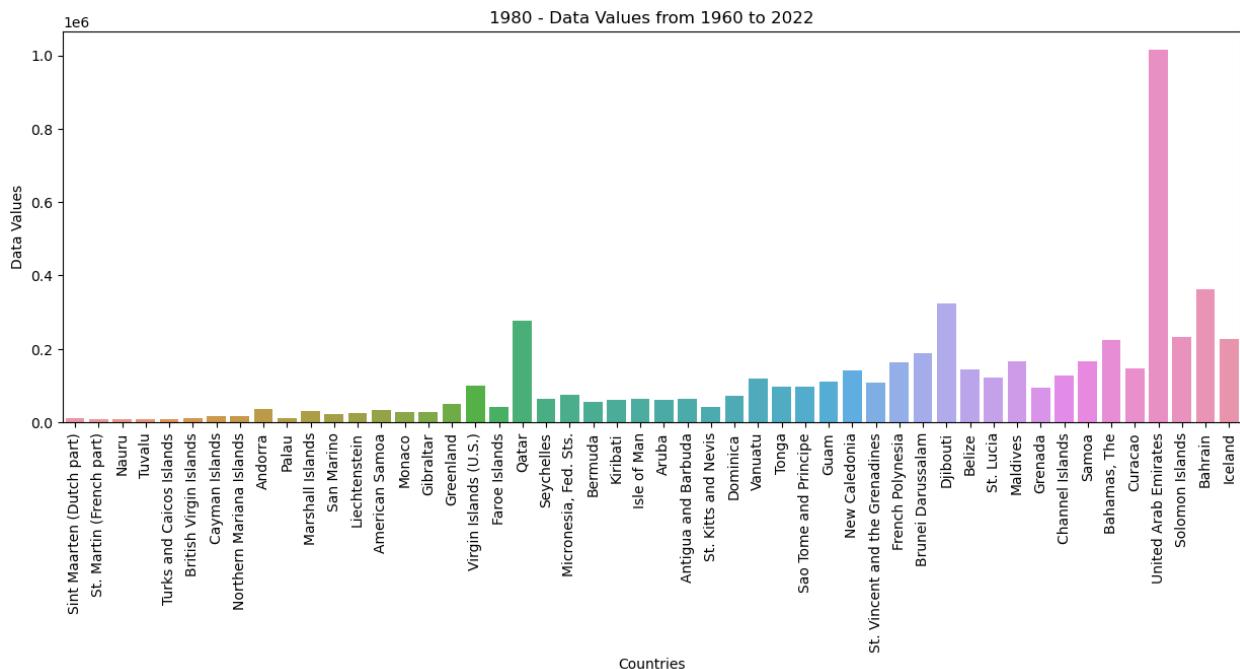
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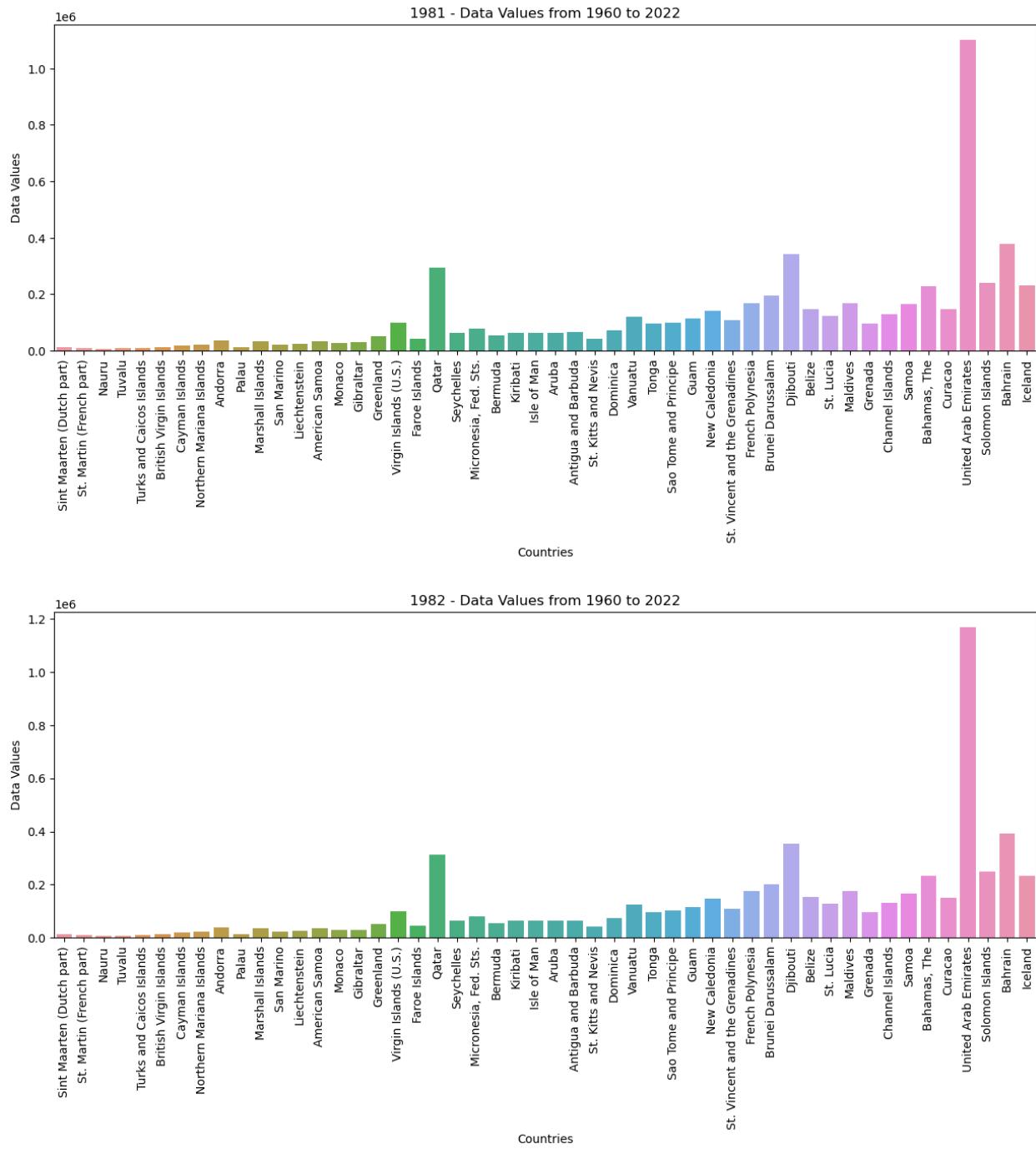


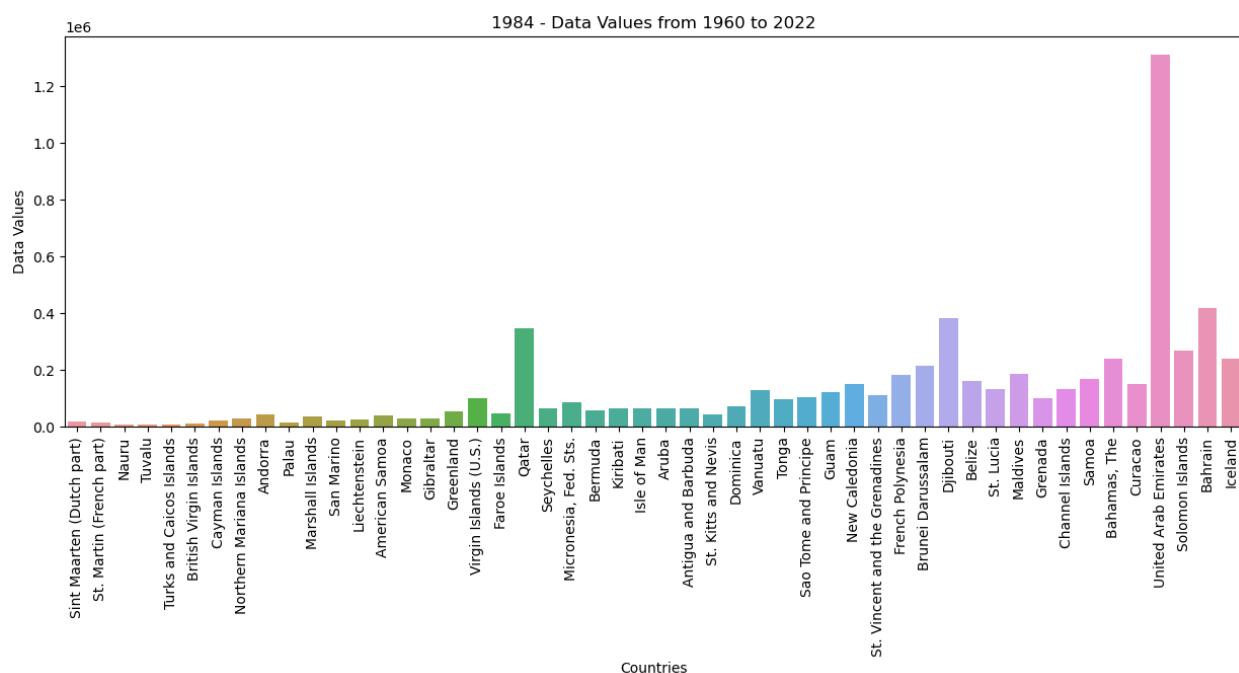
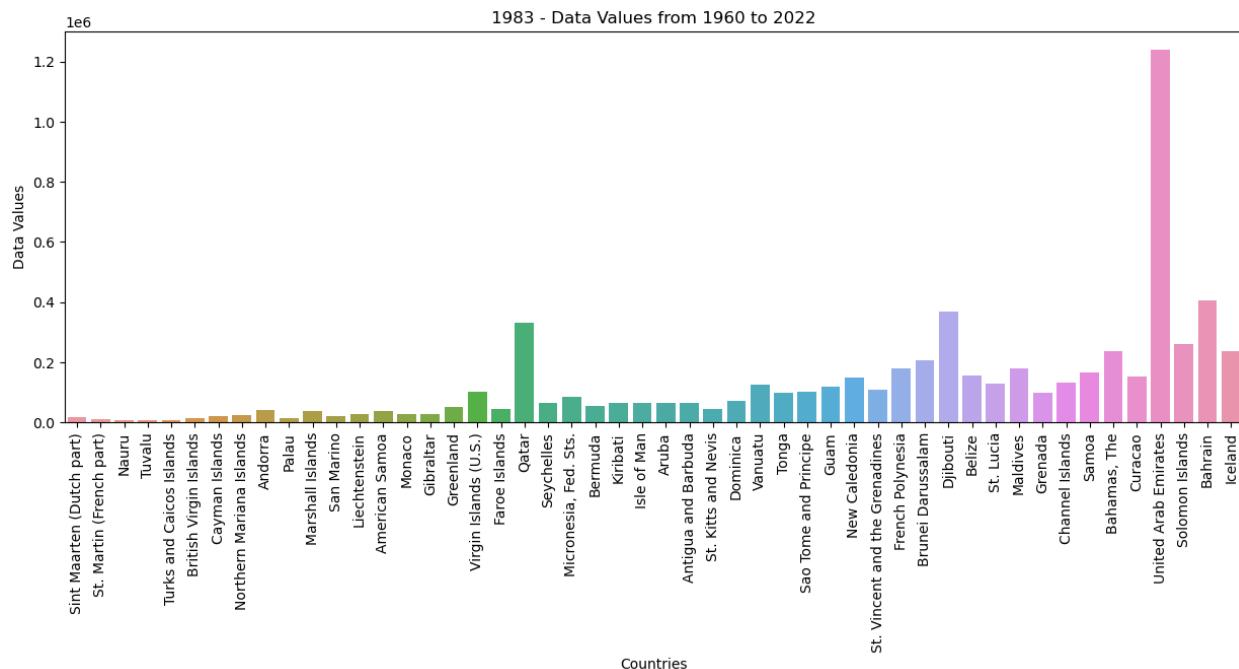
1979 - Data Values from 1960 to 2022

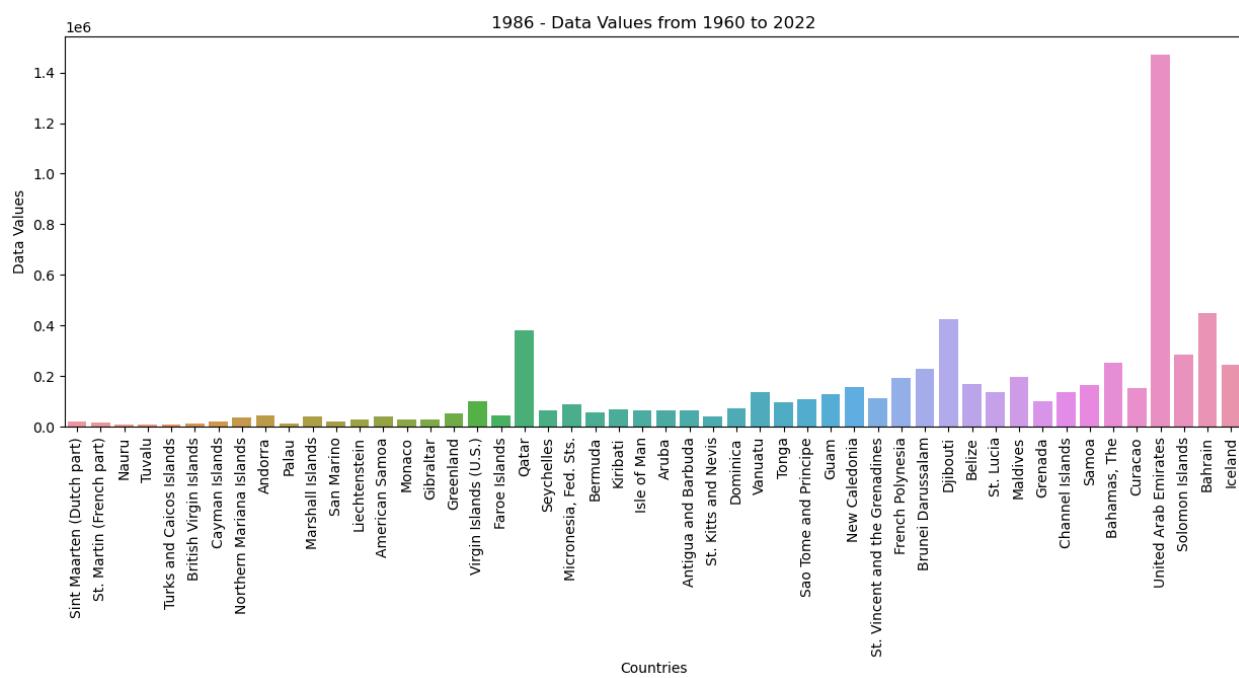
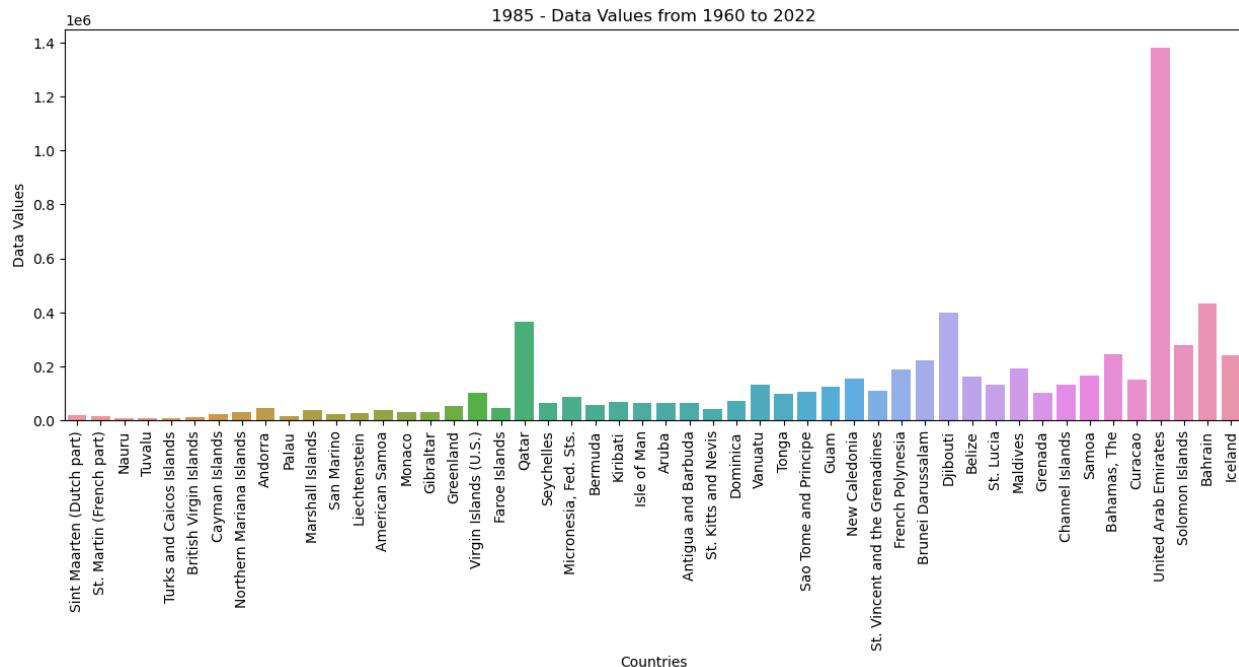


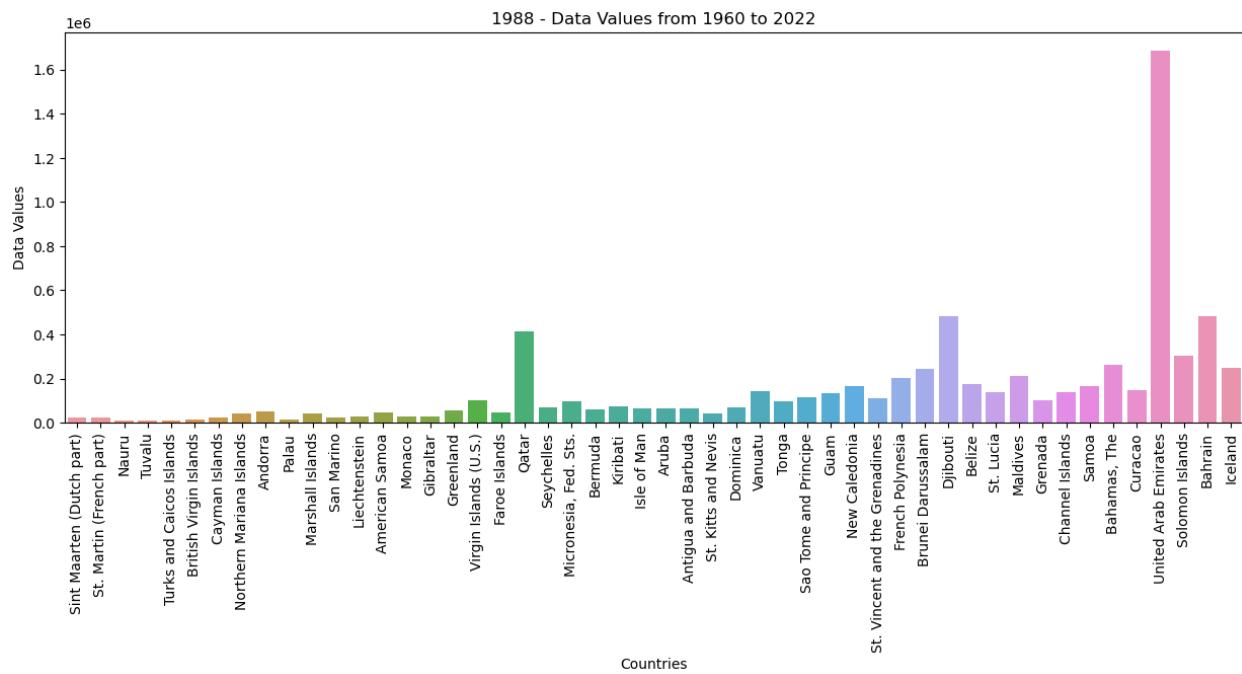
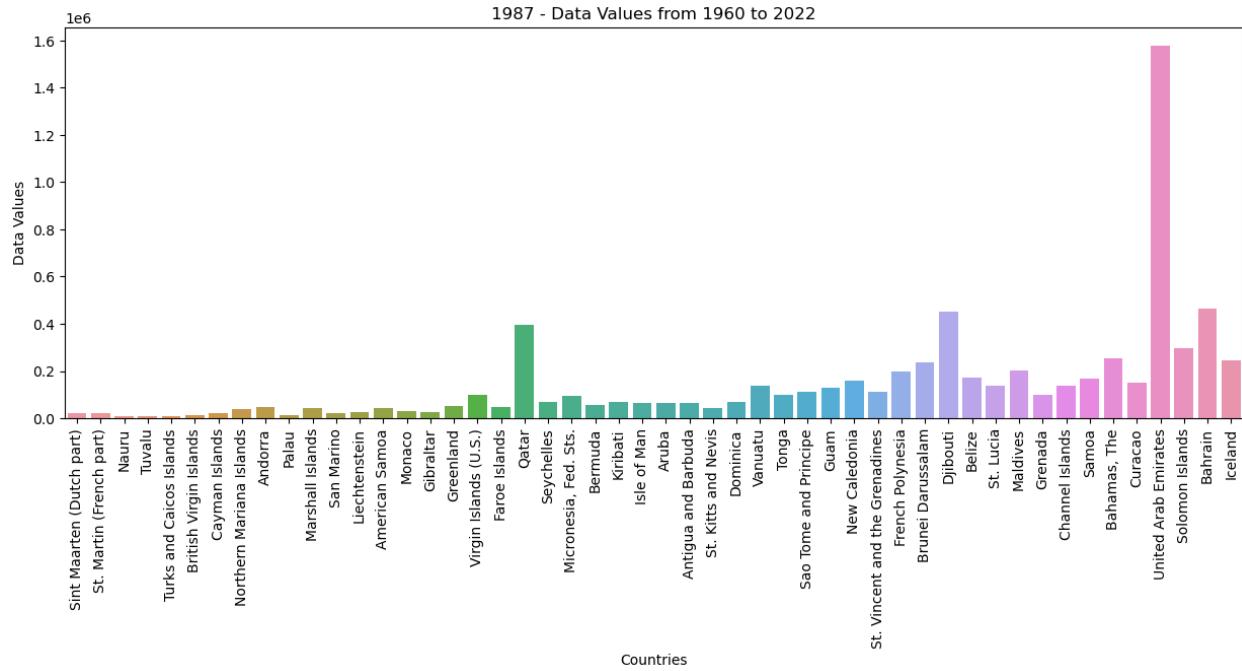
1980 - Data Values from 1960 to 2022

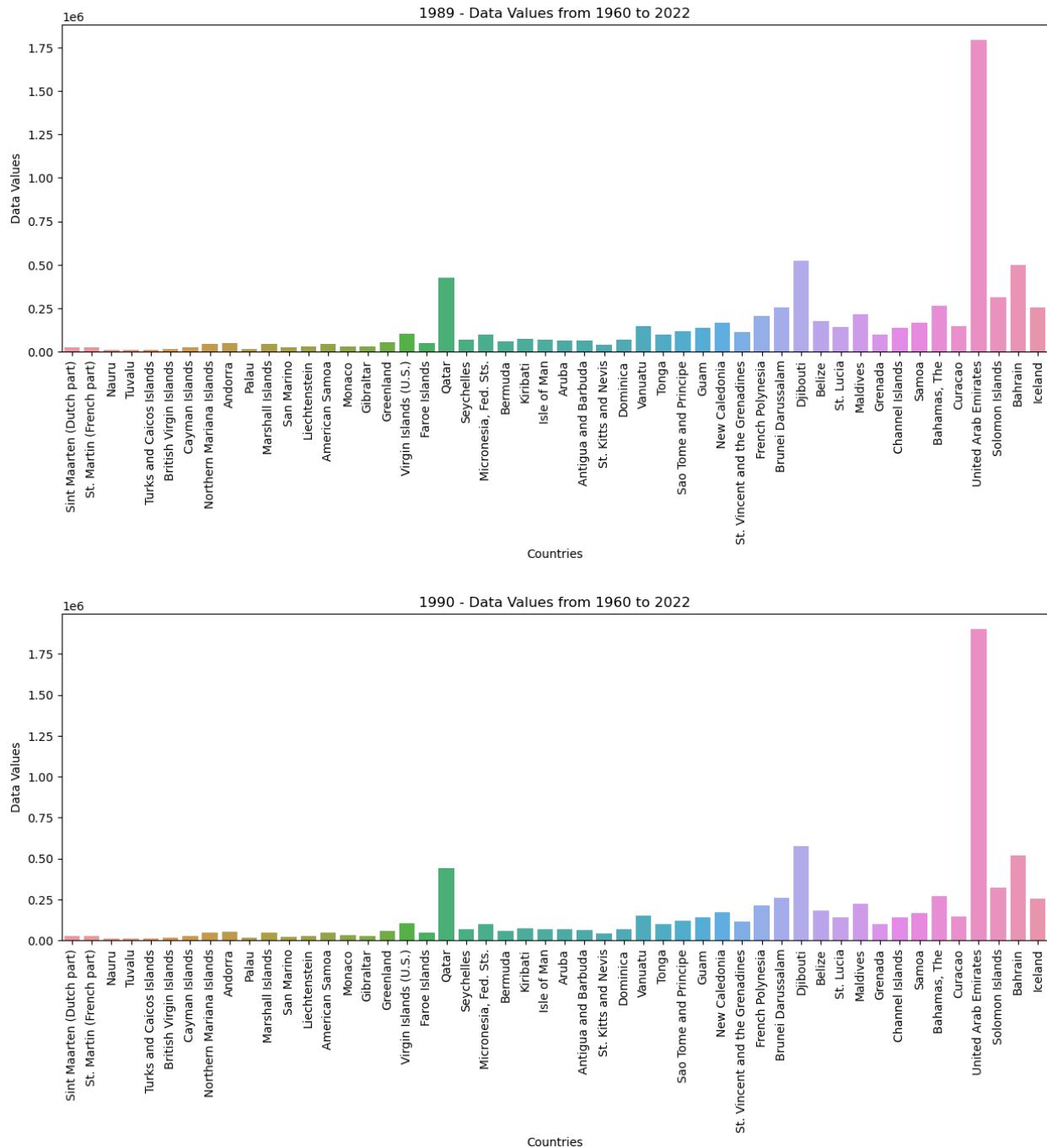


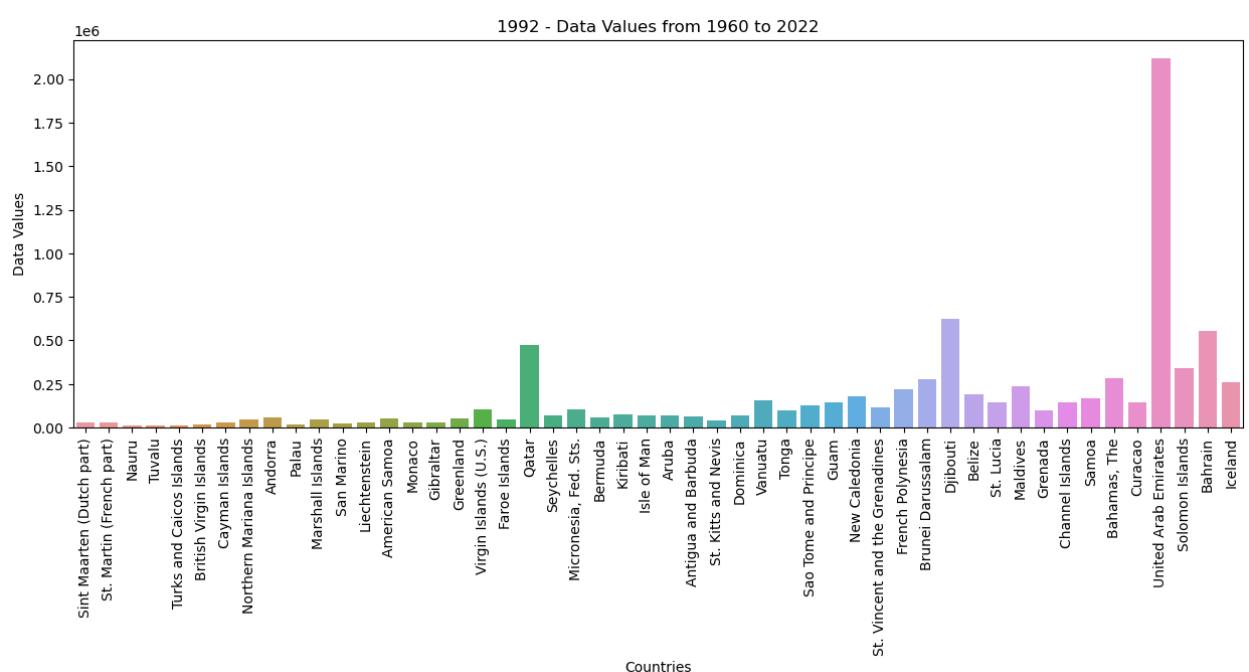
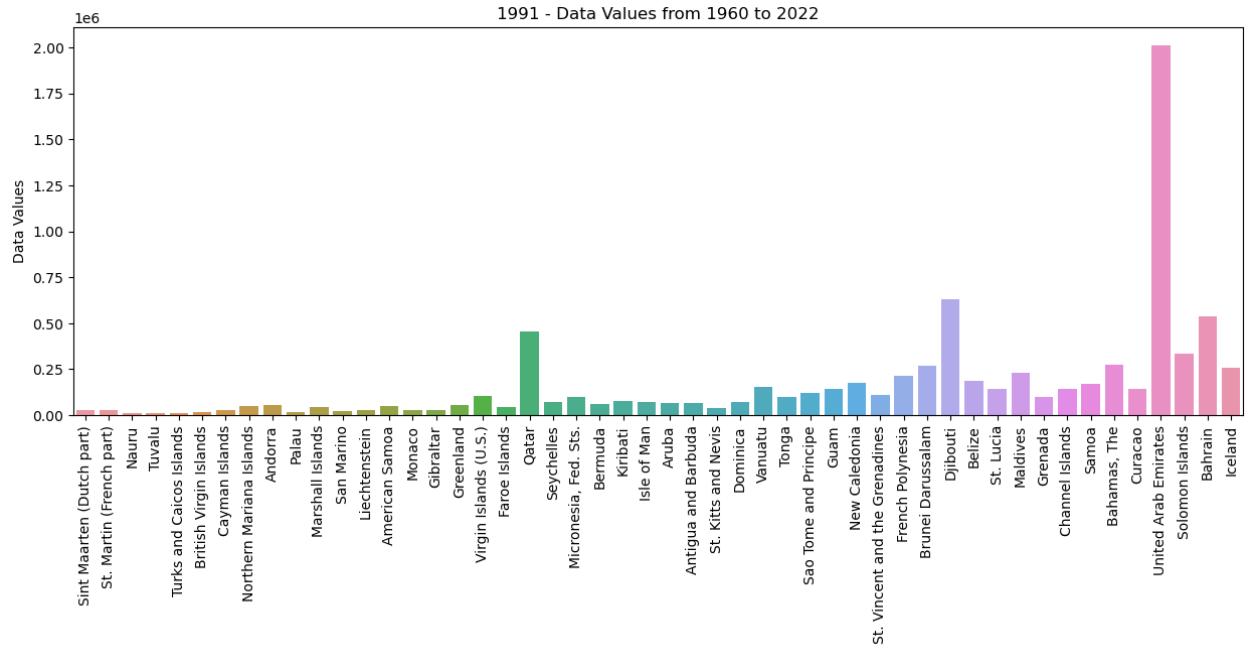


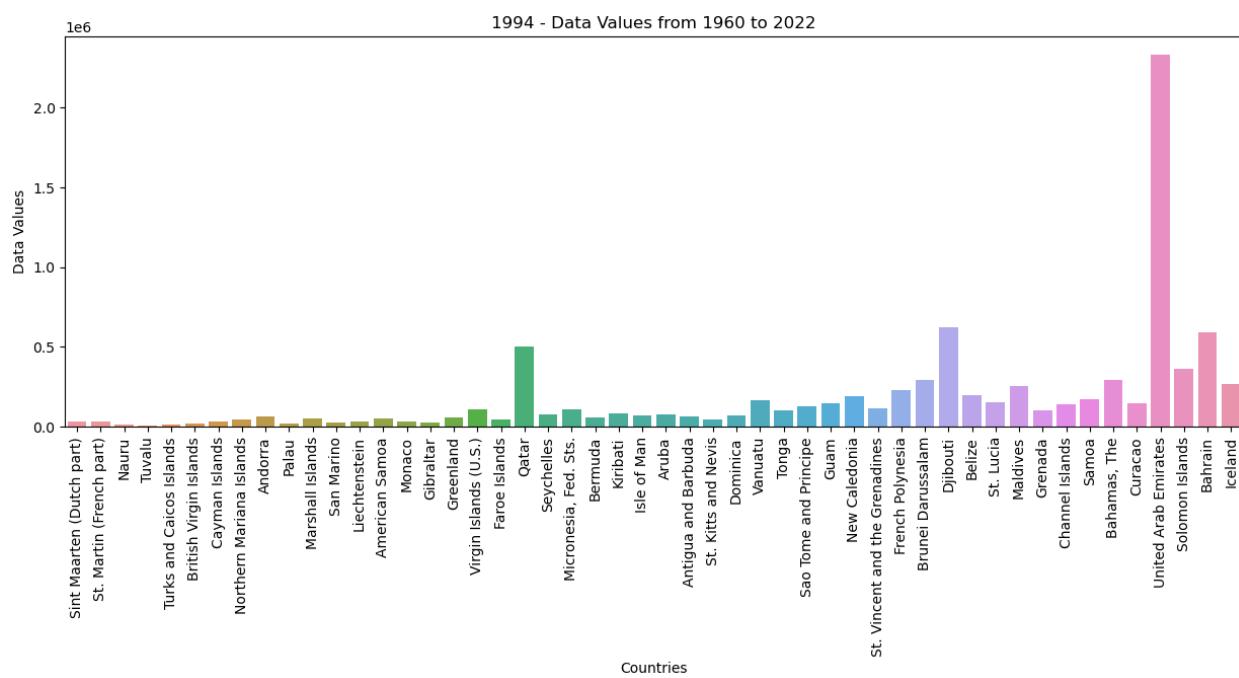
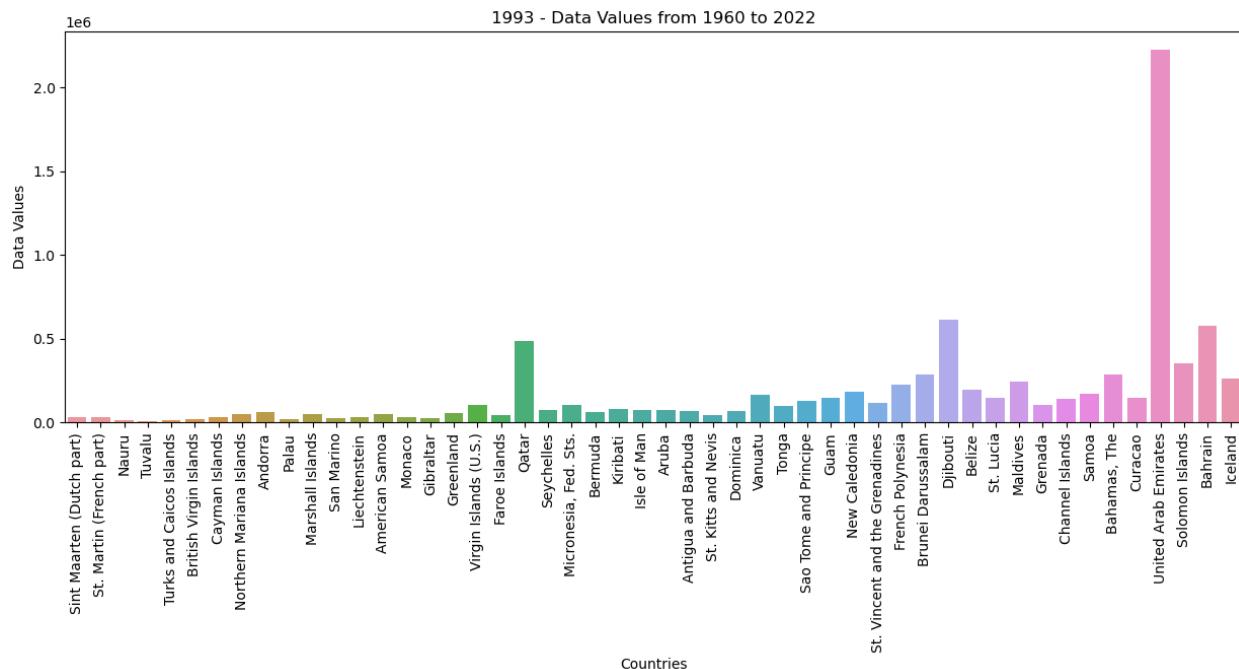


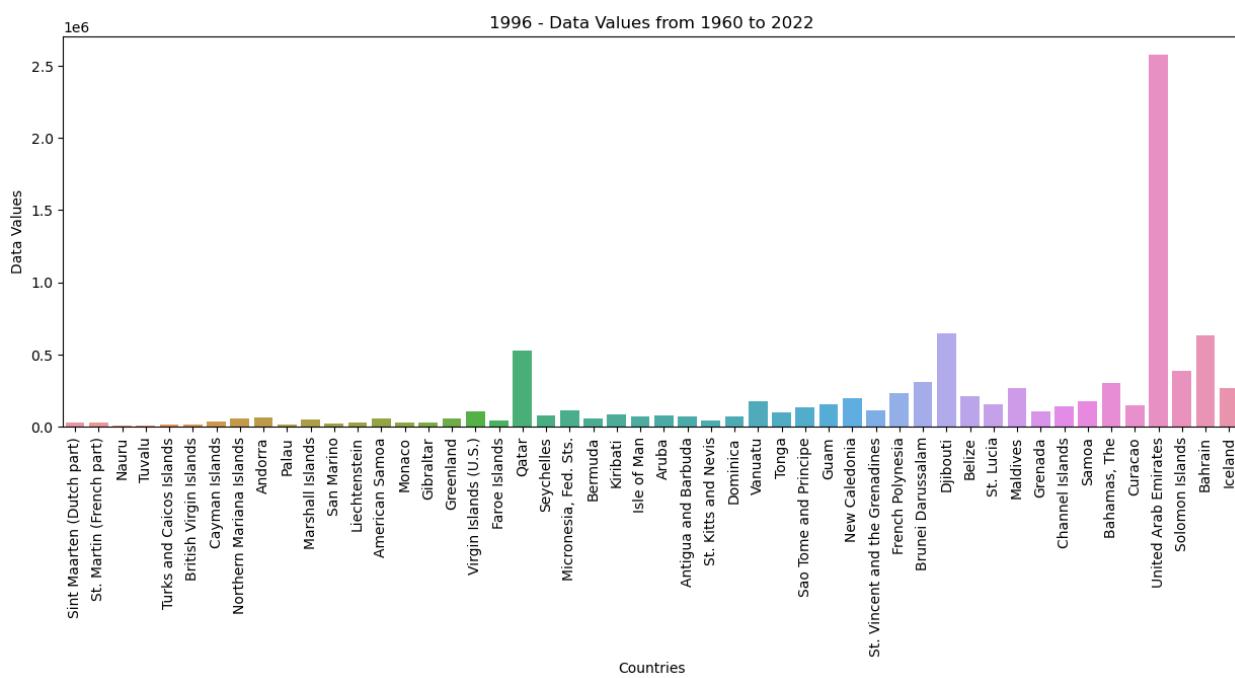
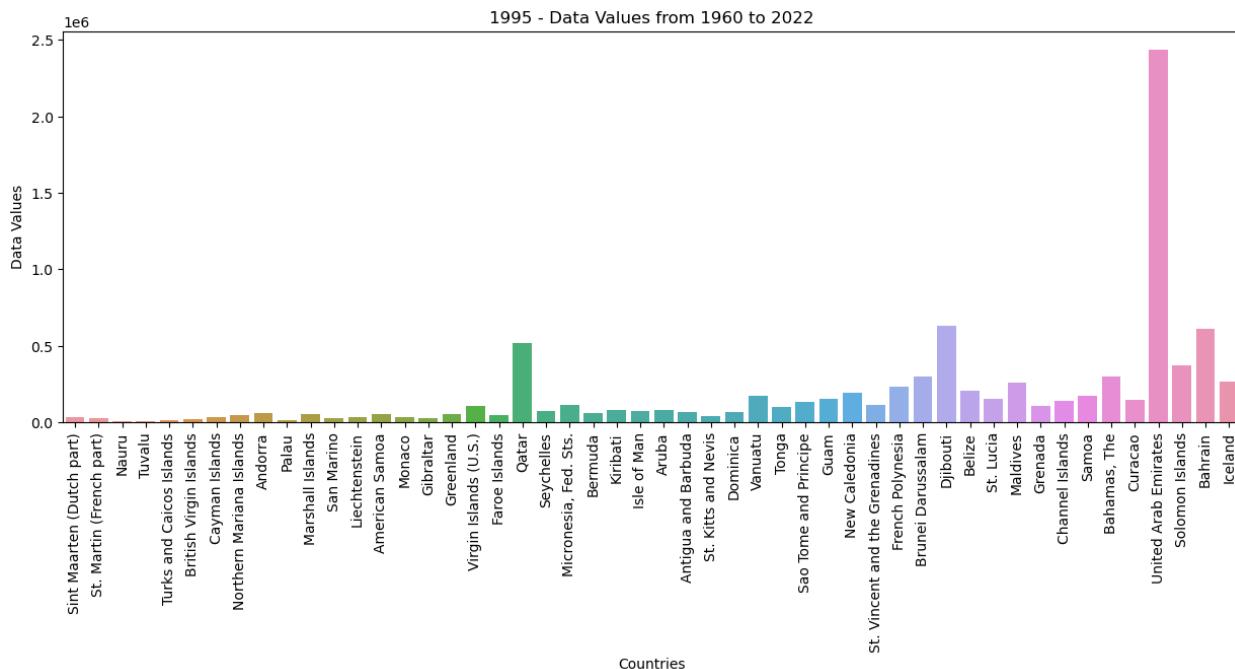


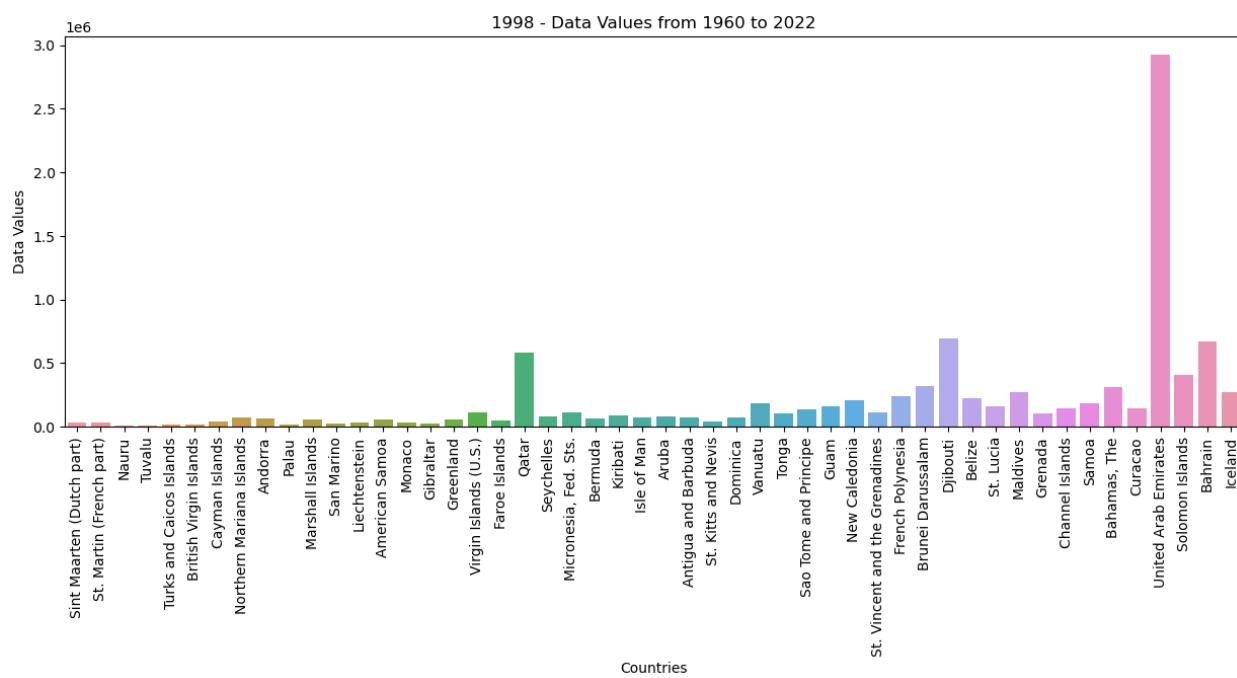
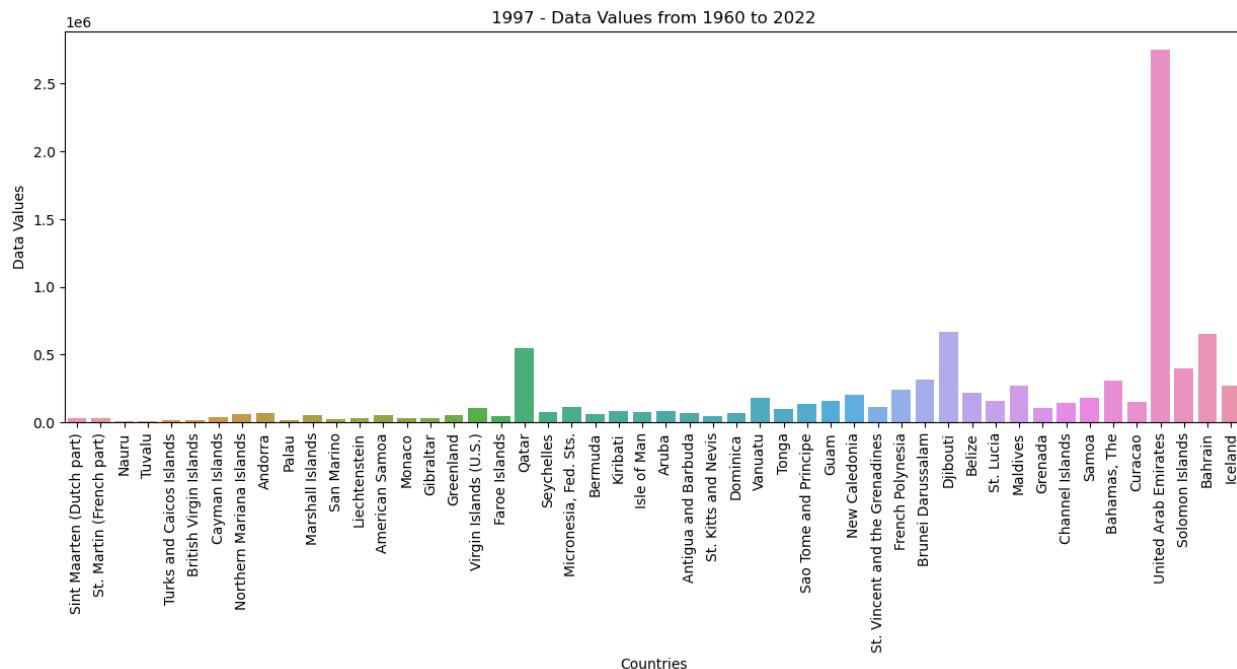


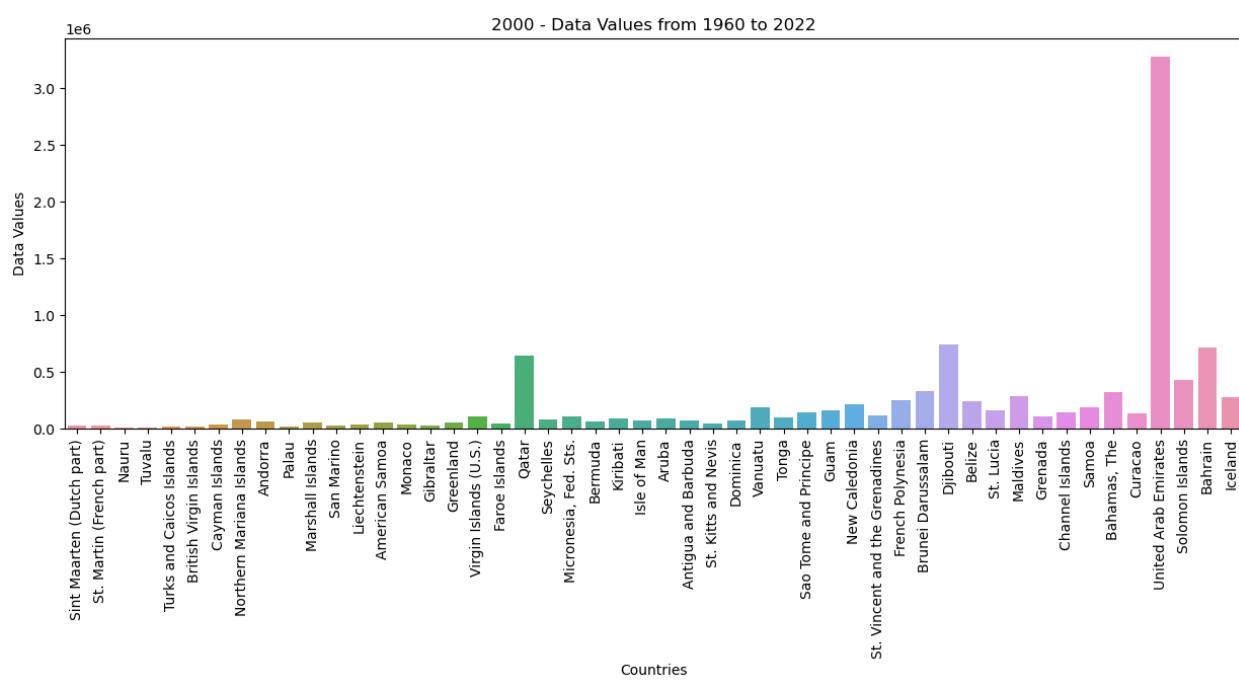
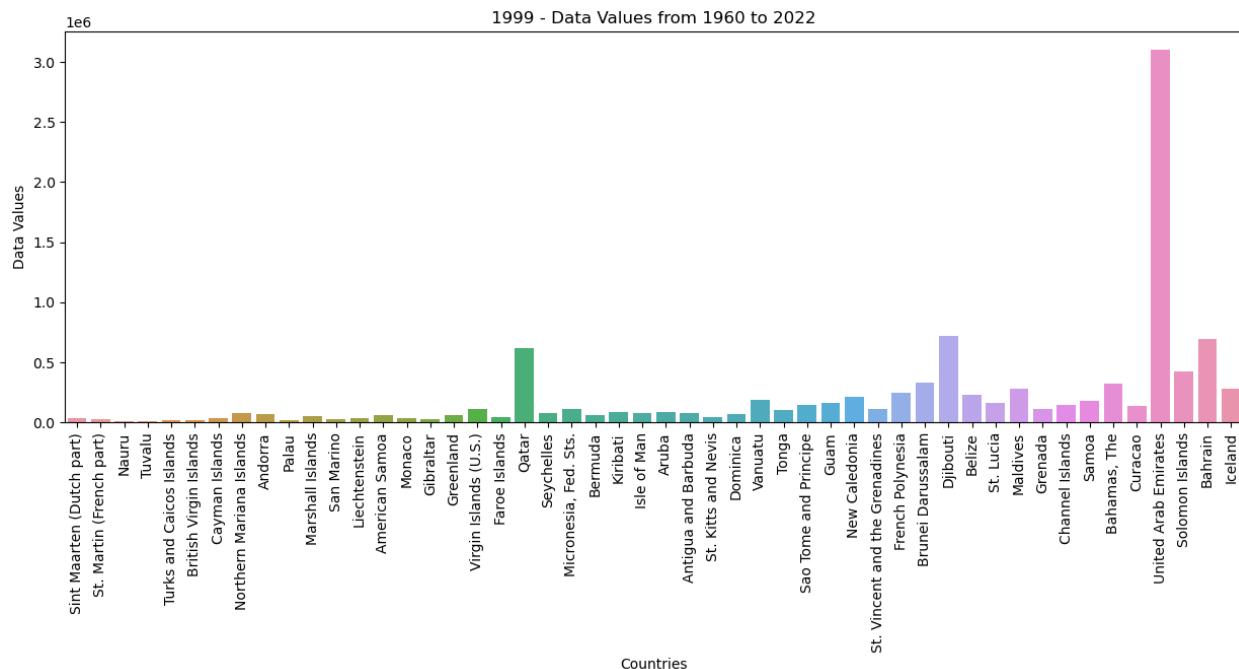


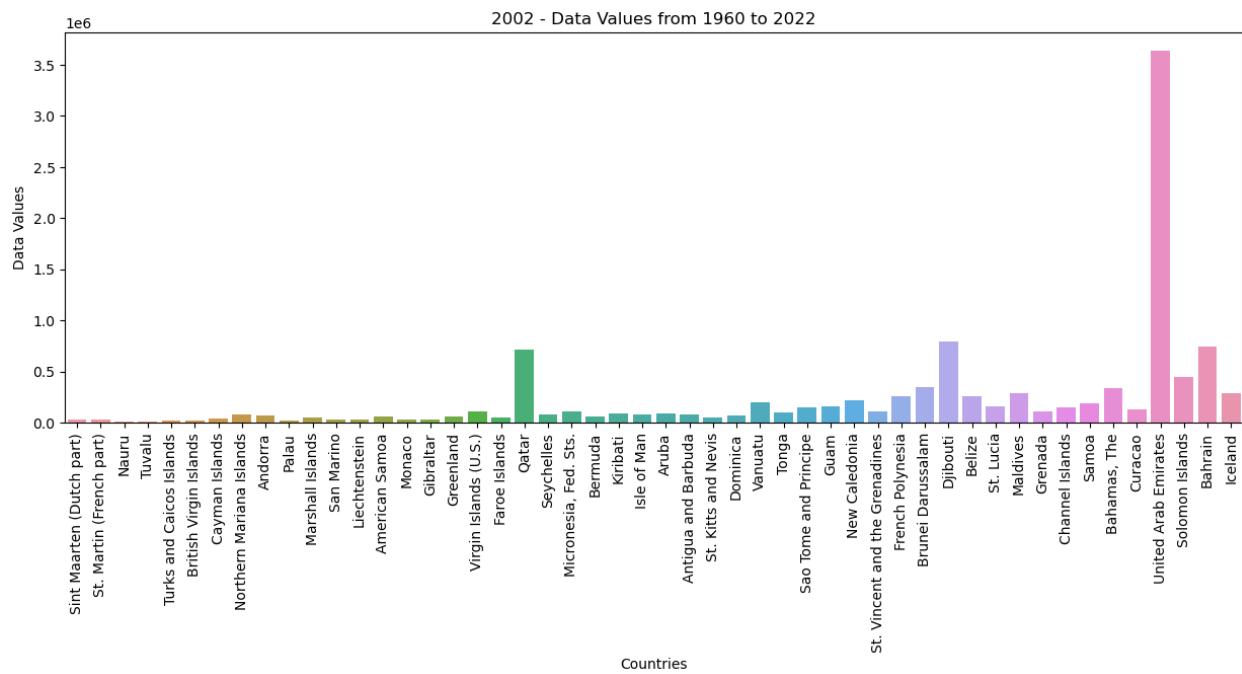
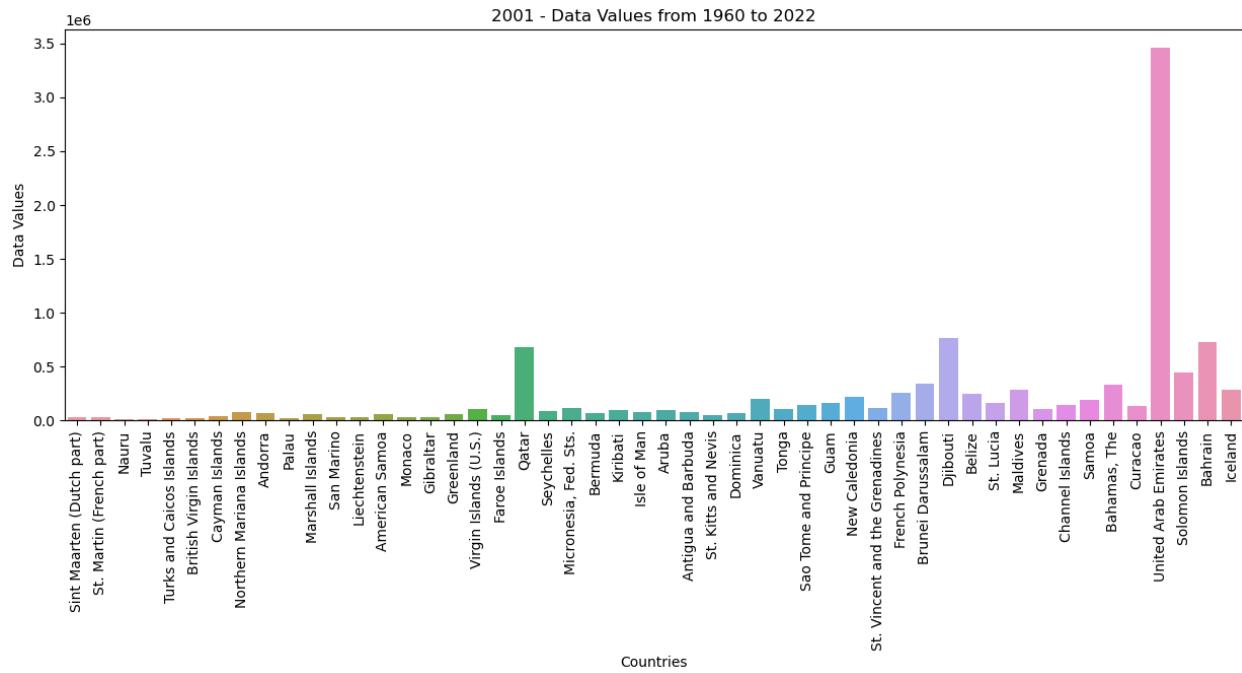


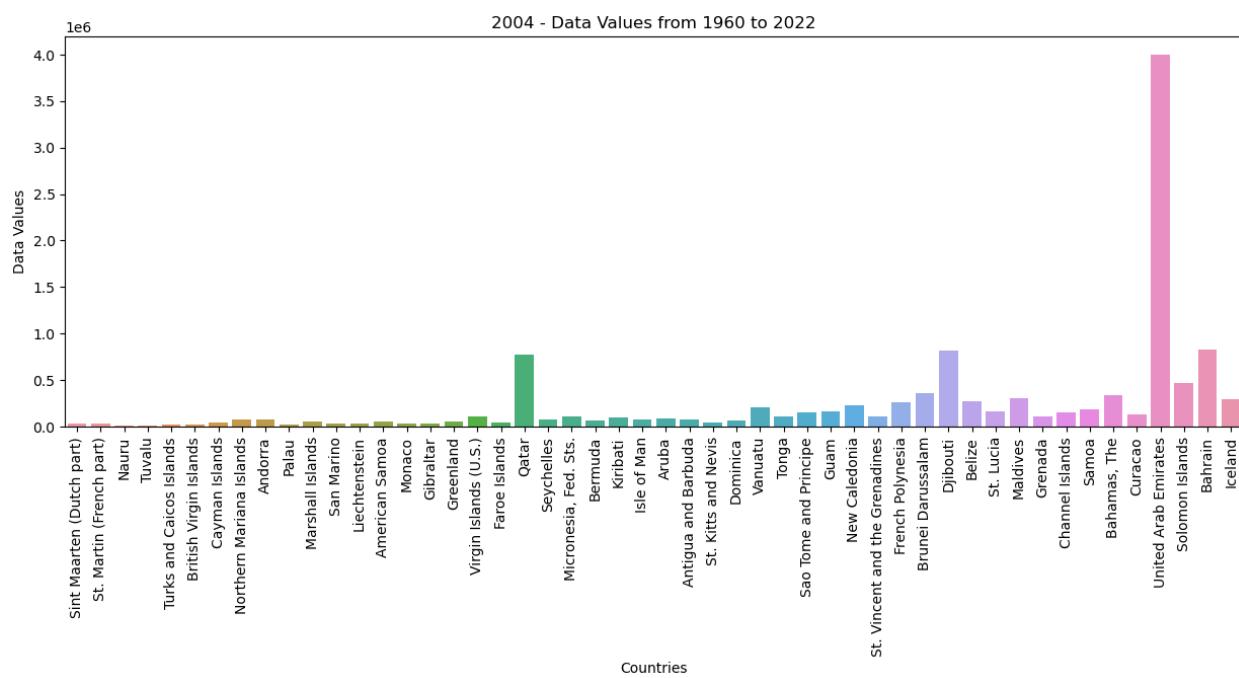
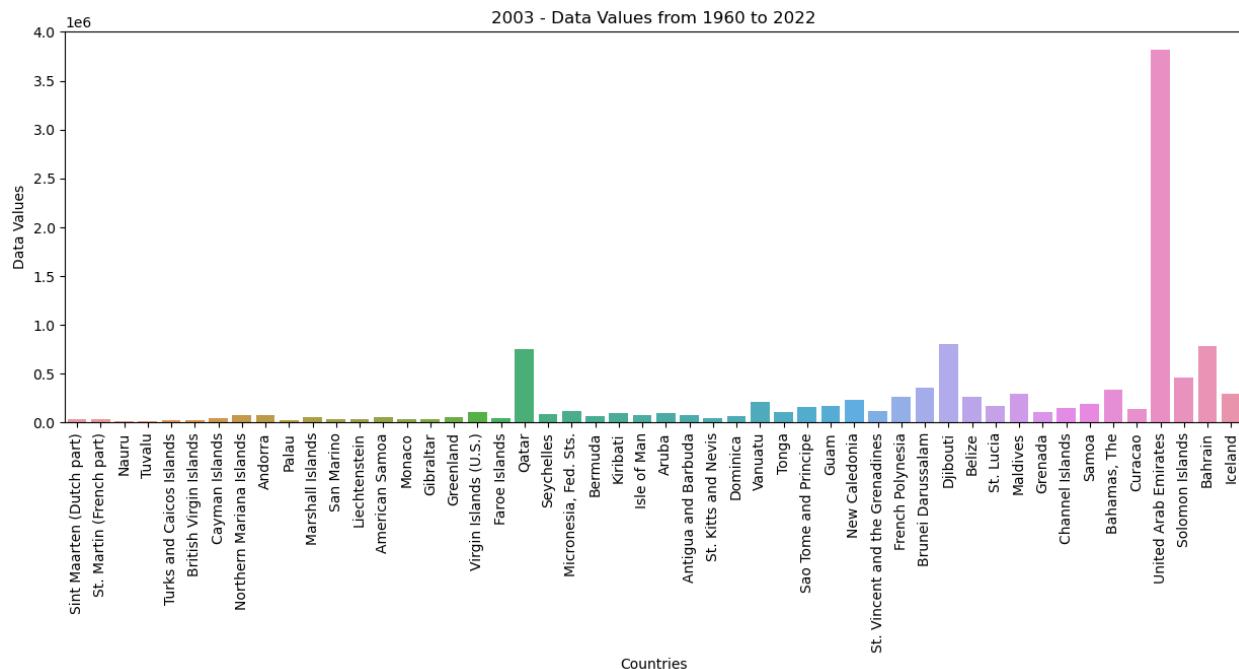


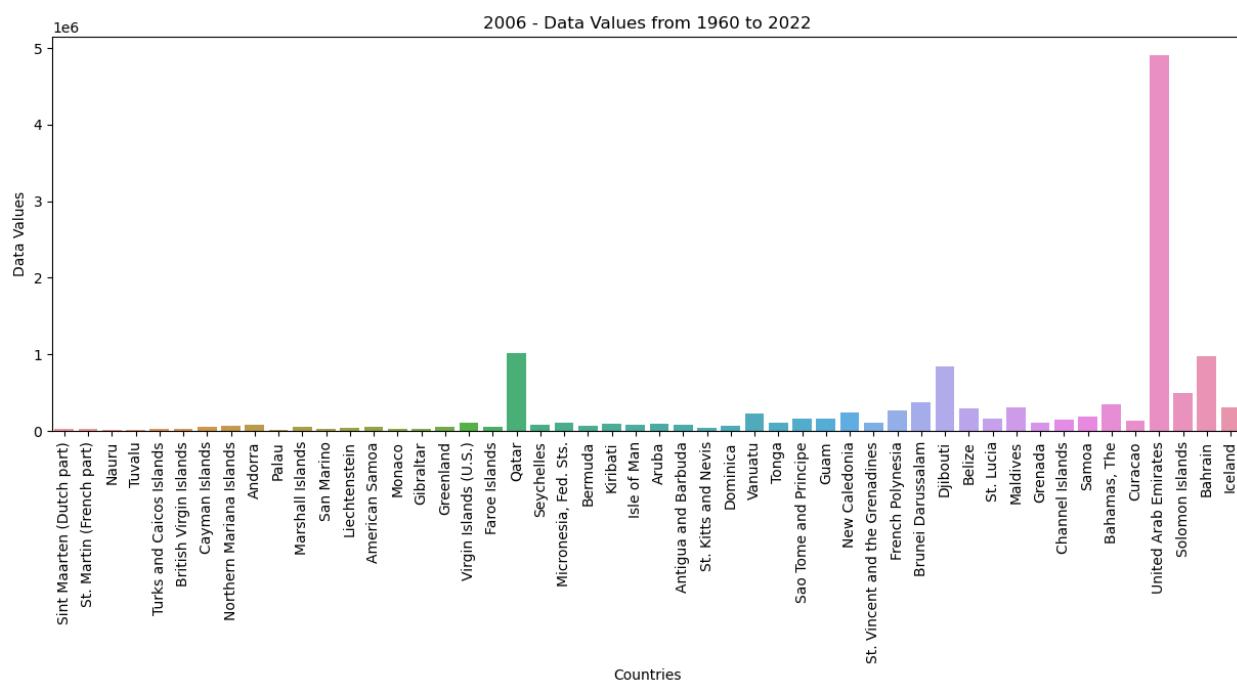
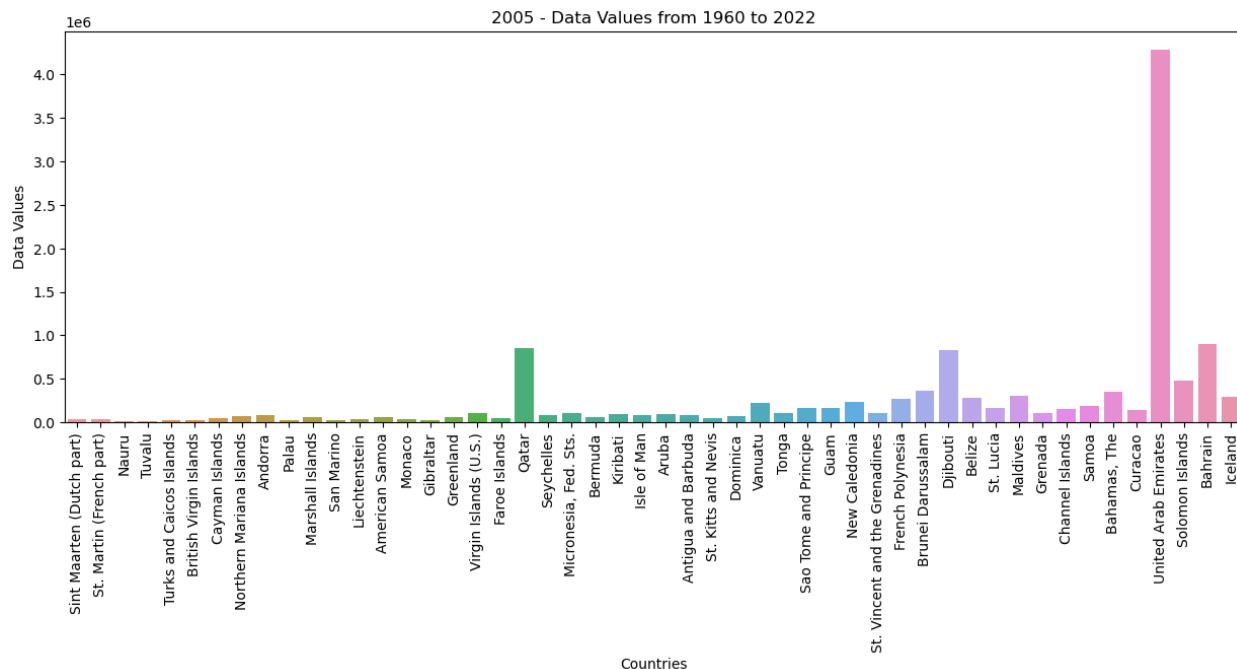


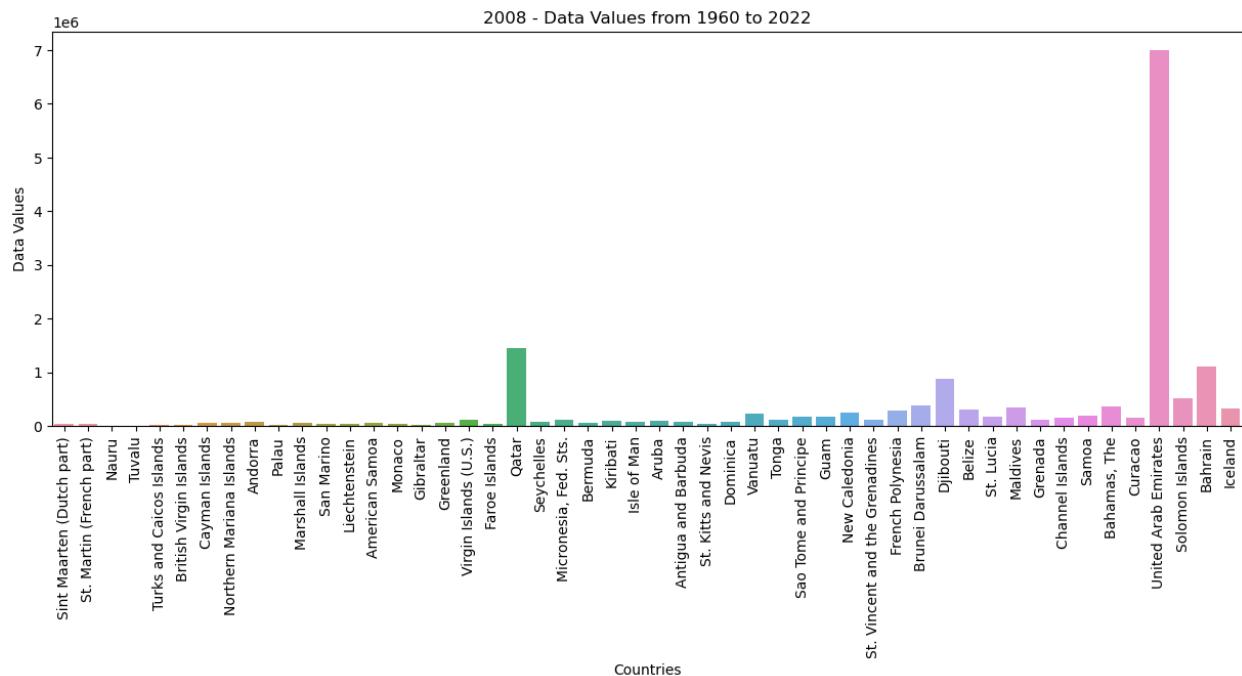
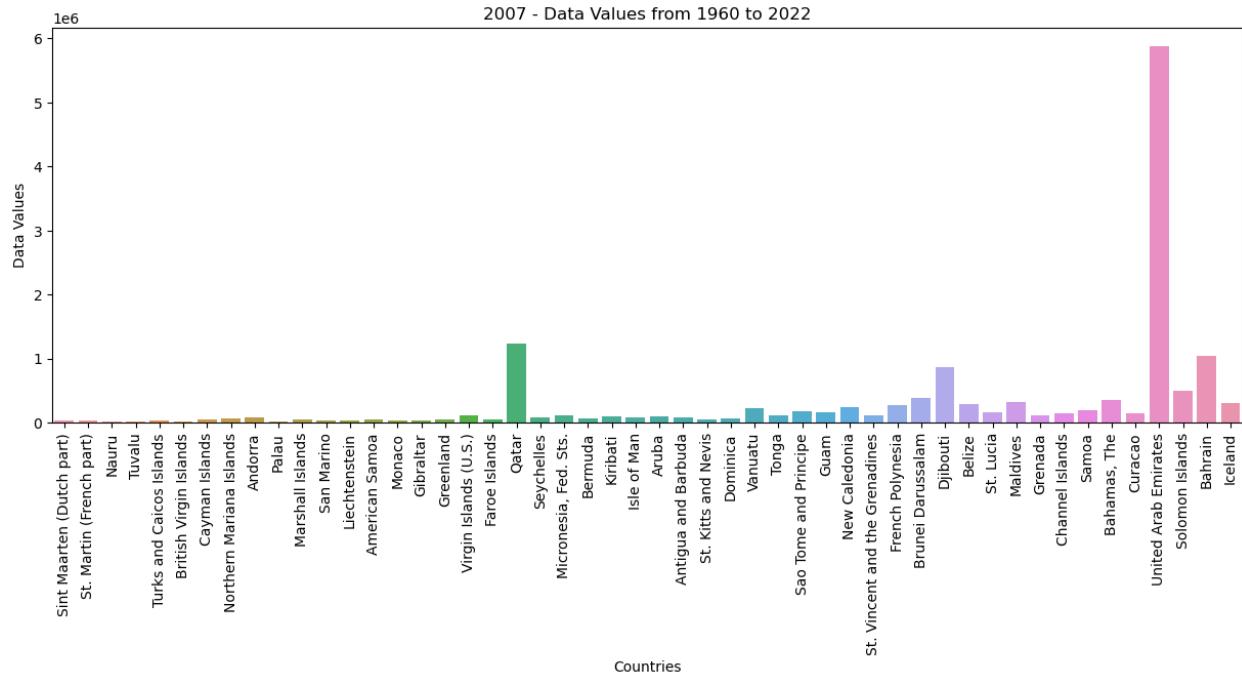


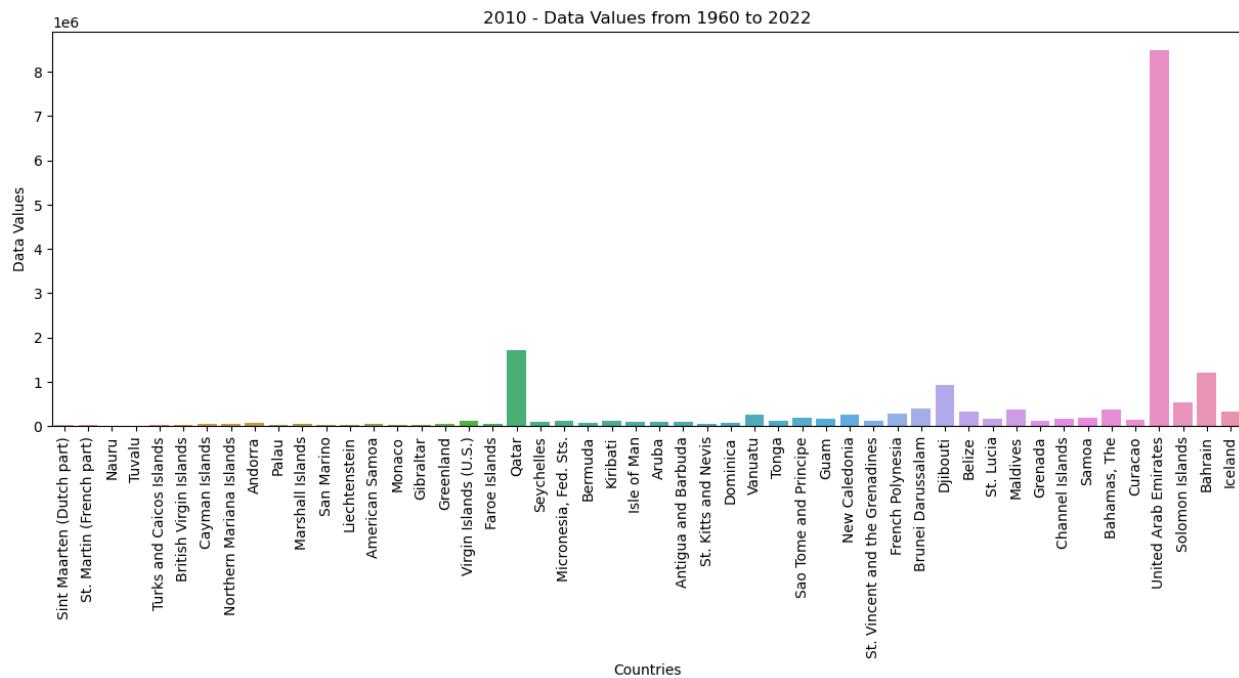
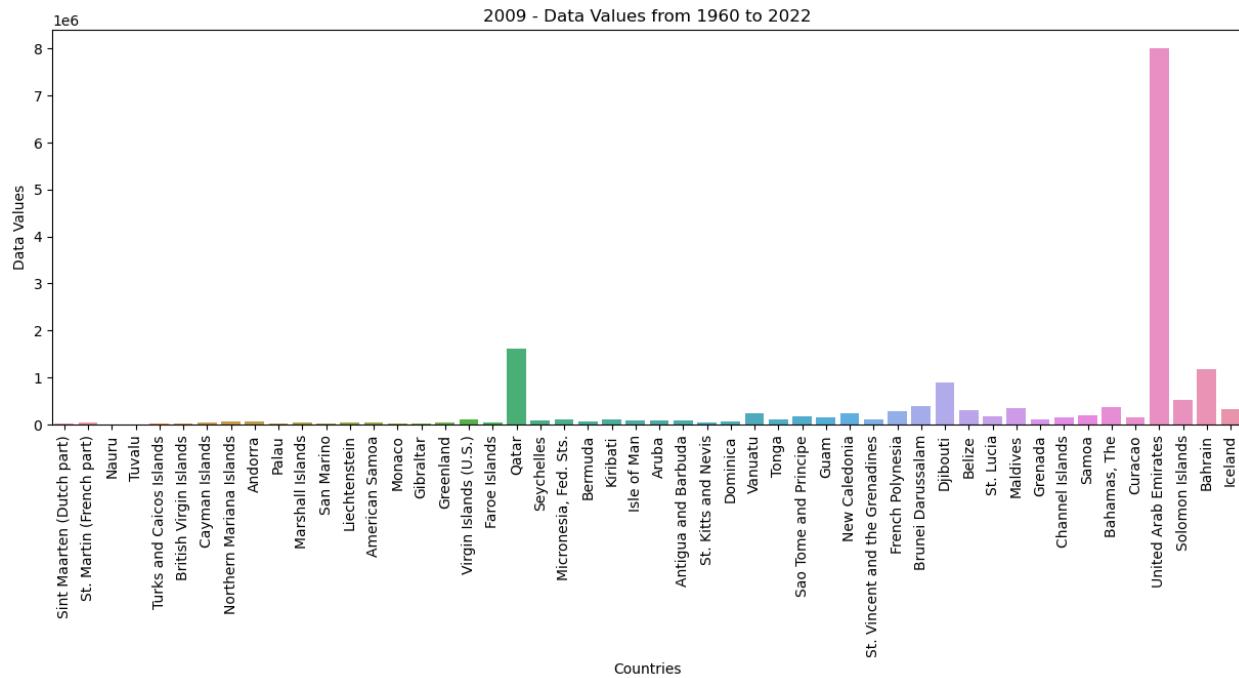


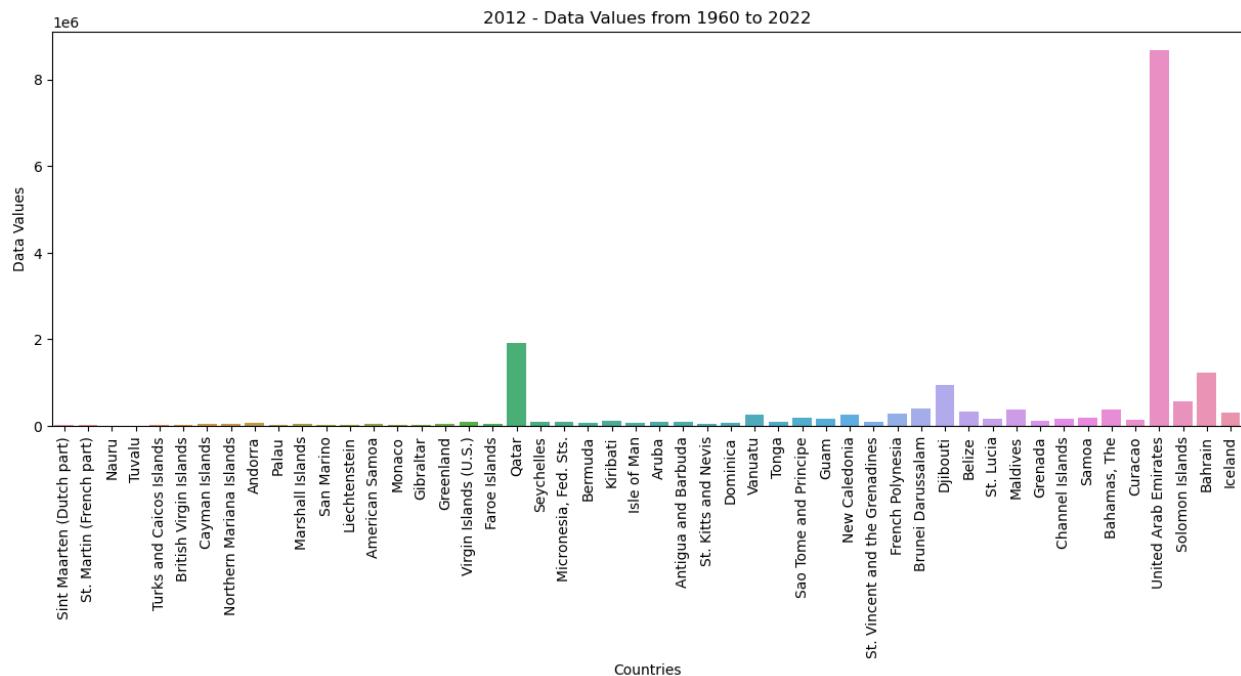
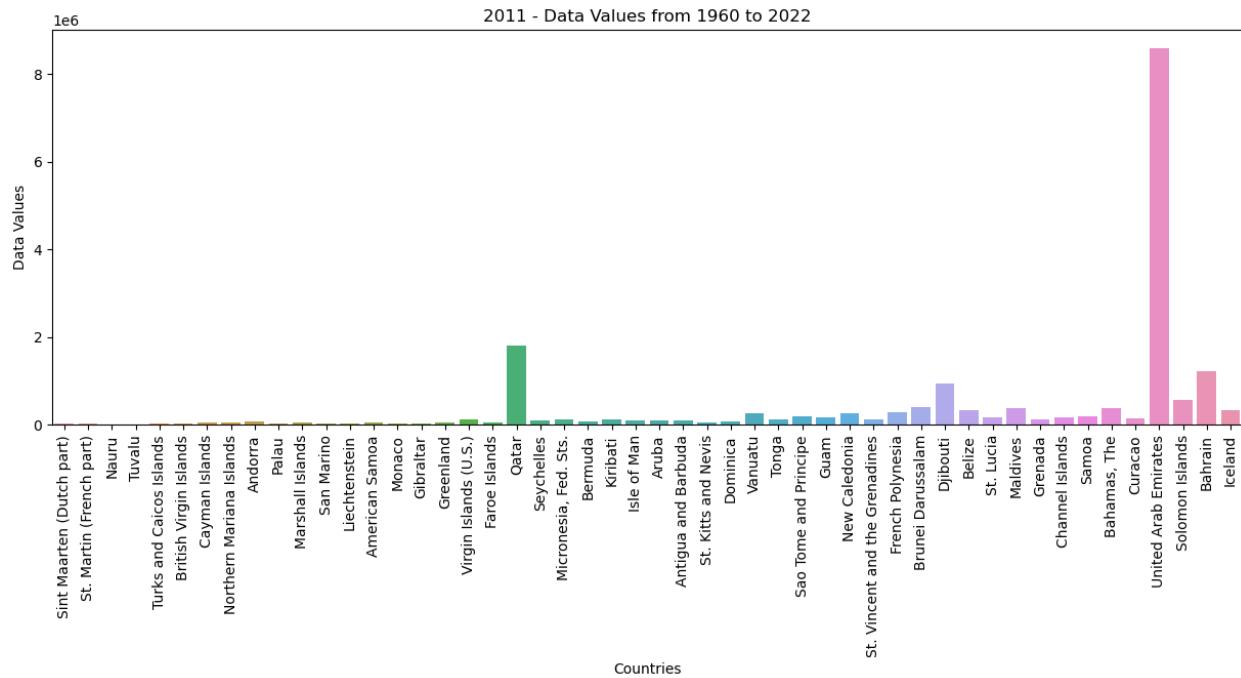


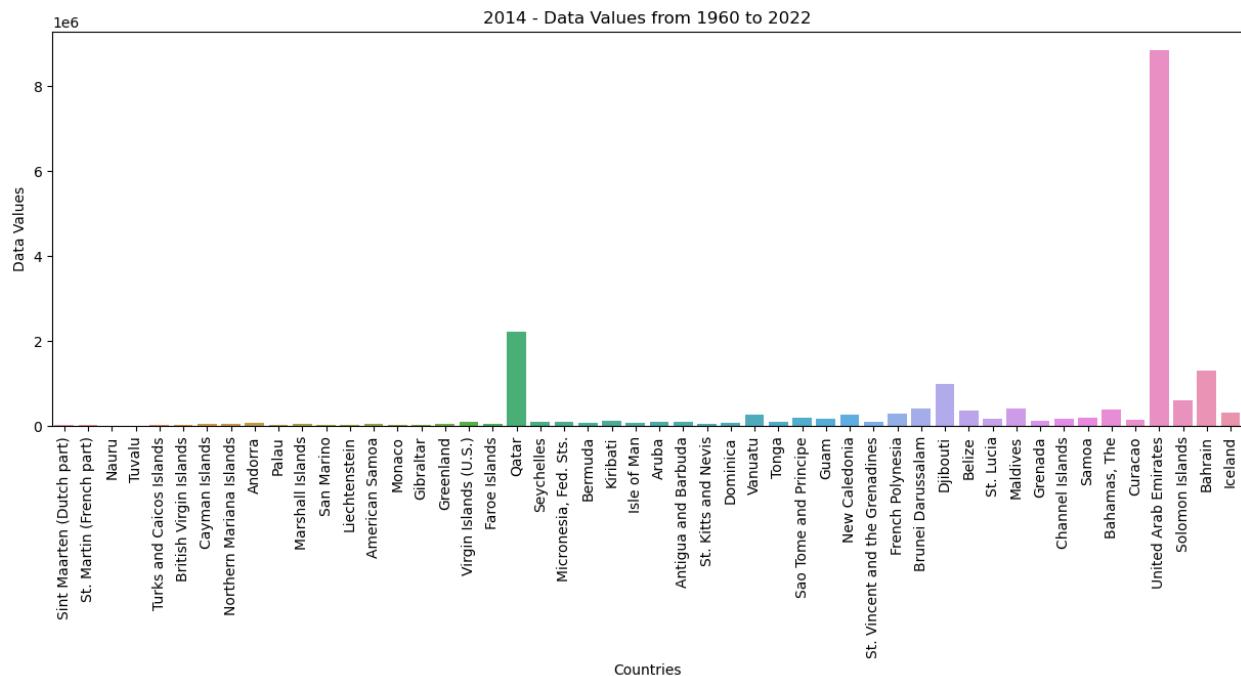
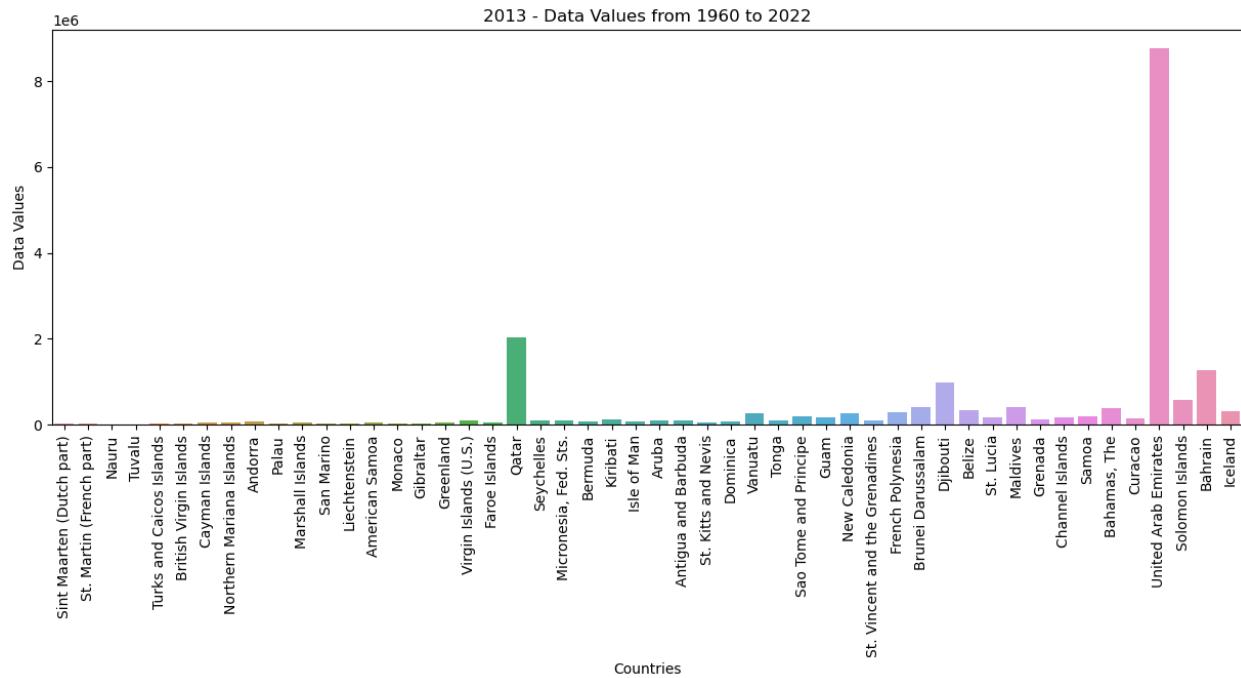


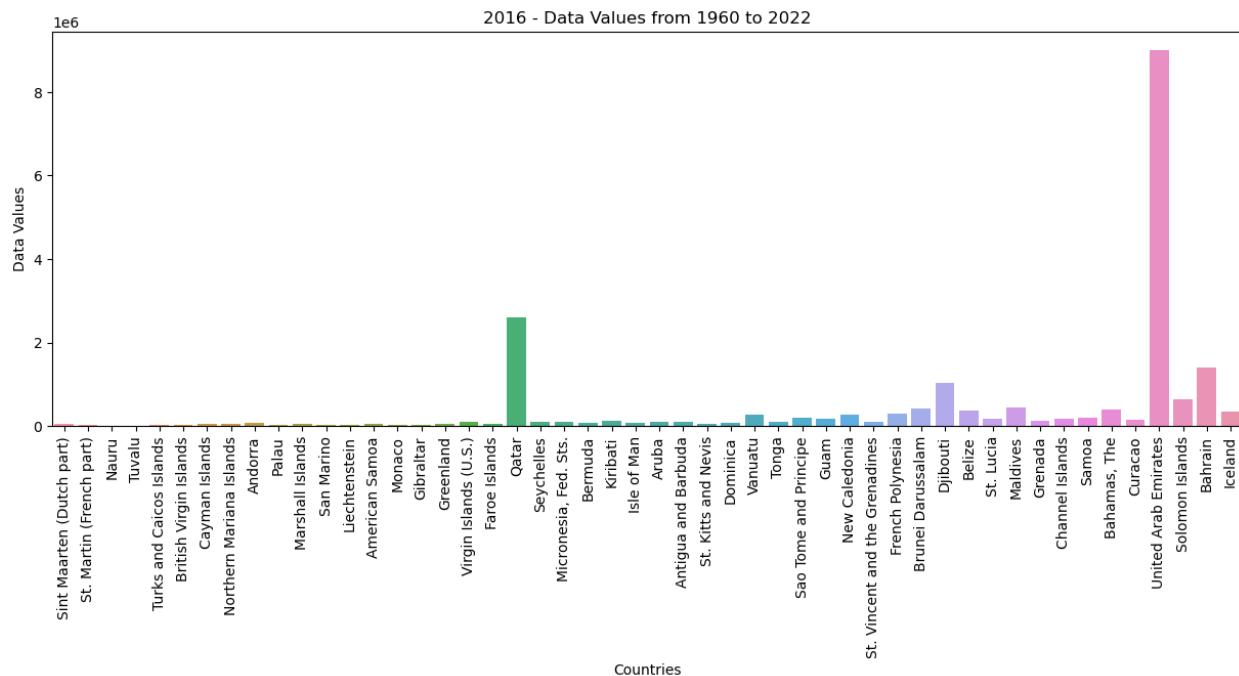
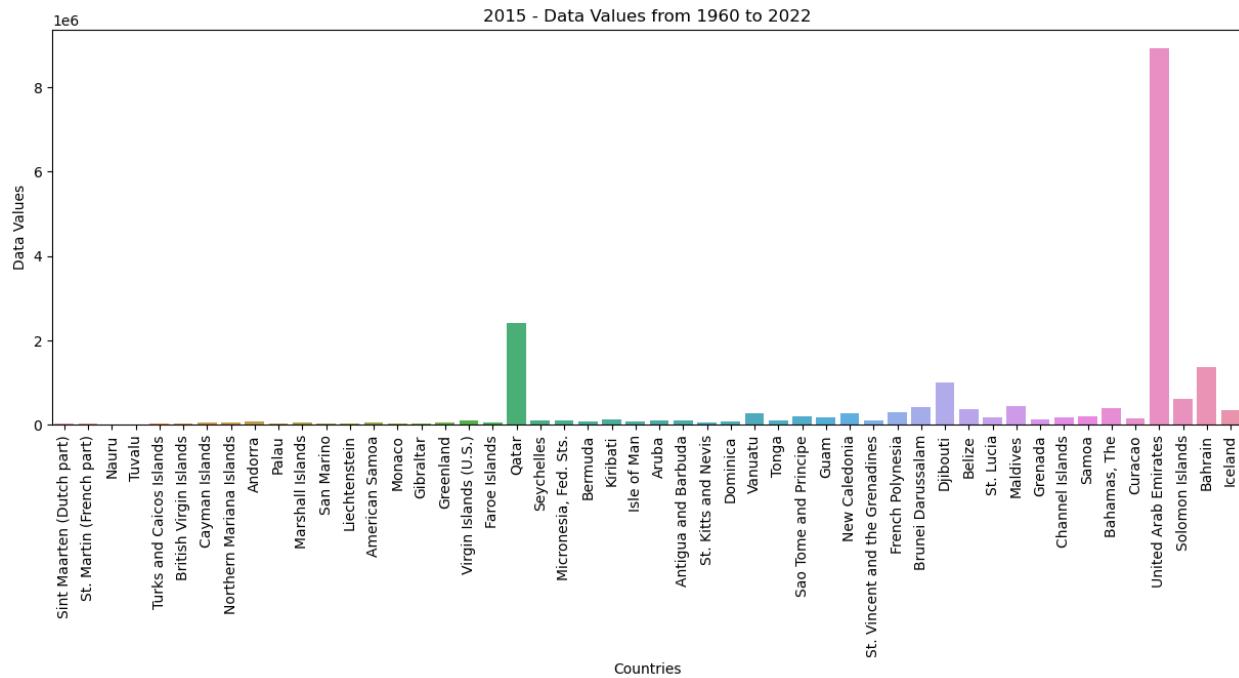


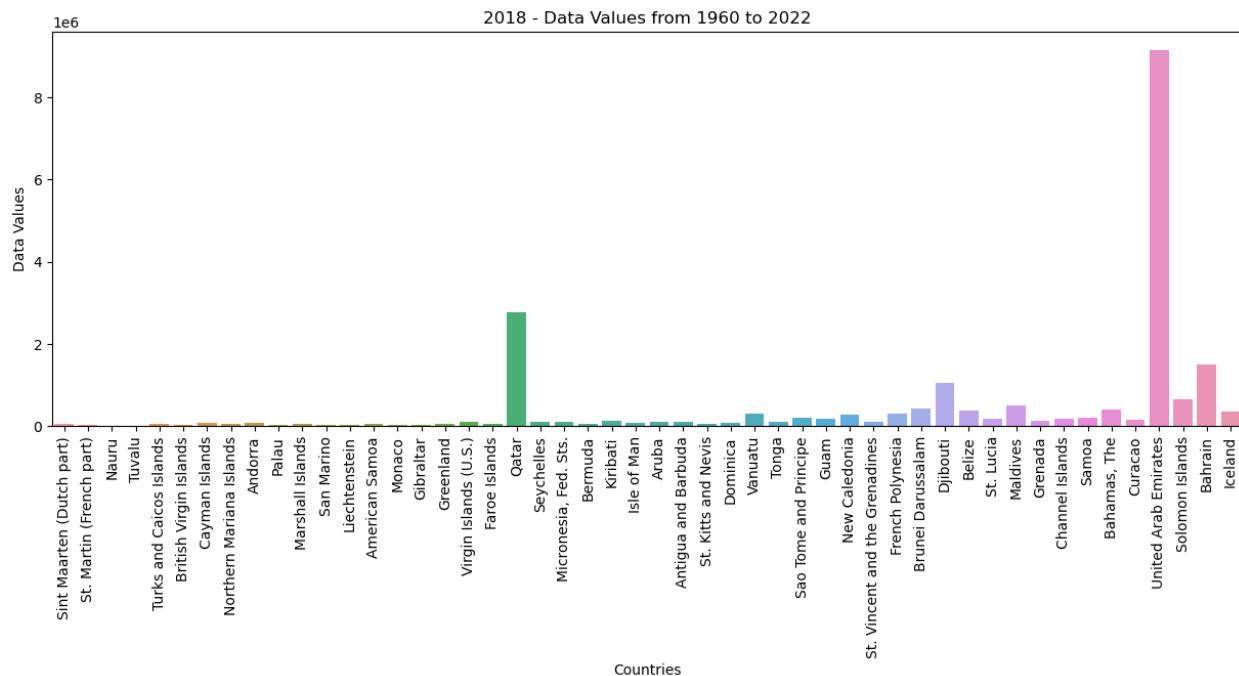
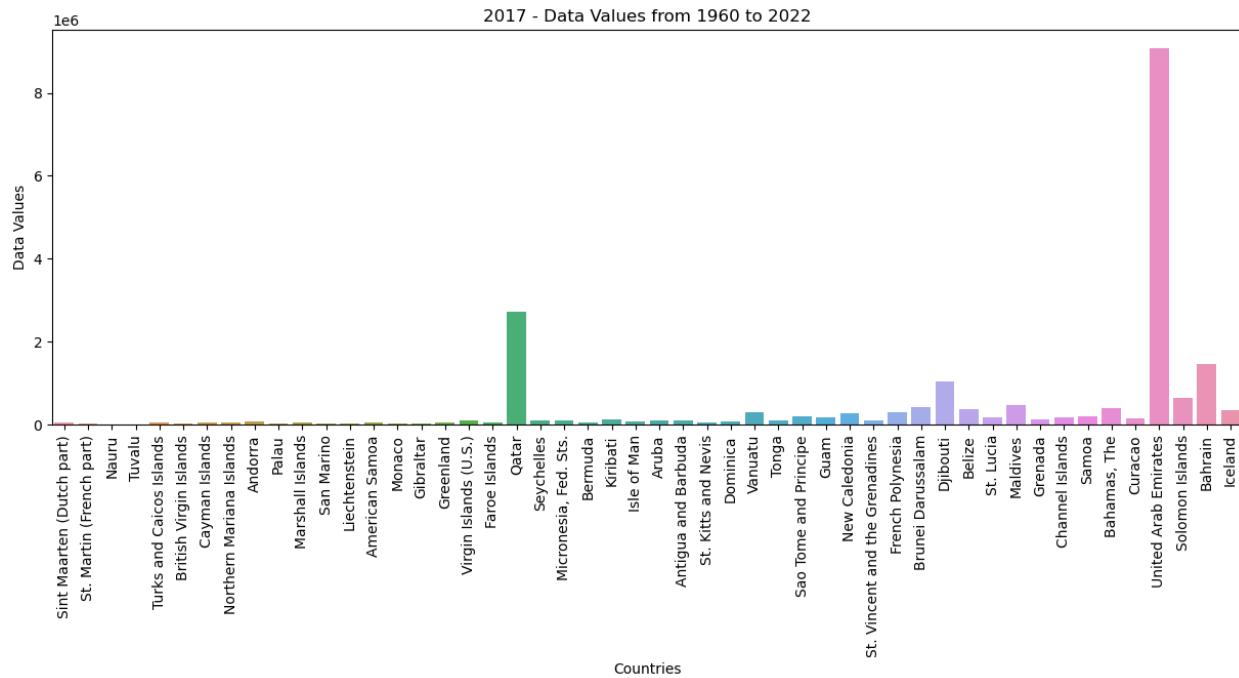


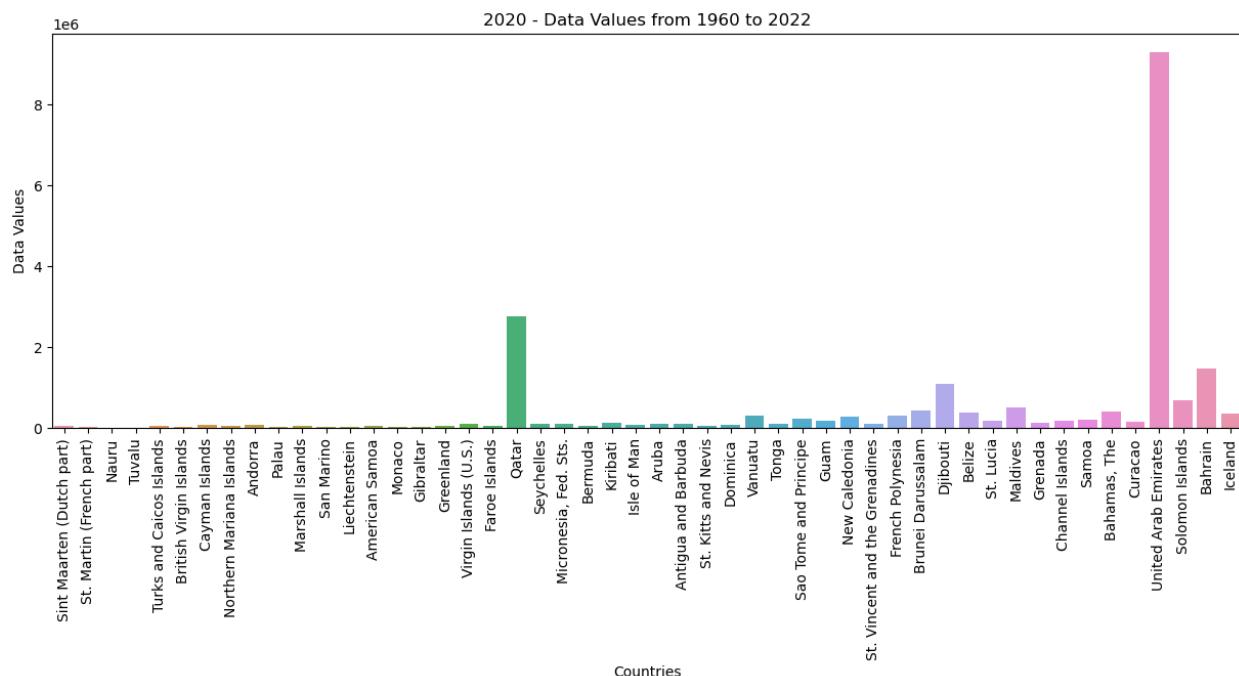
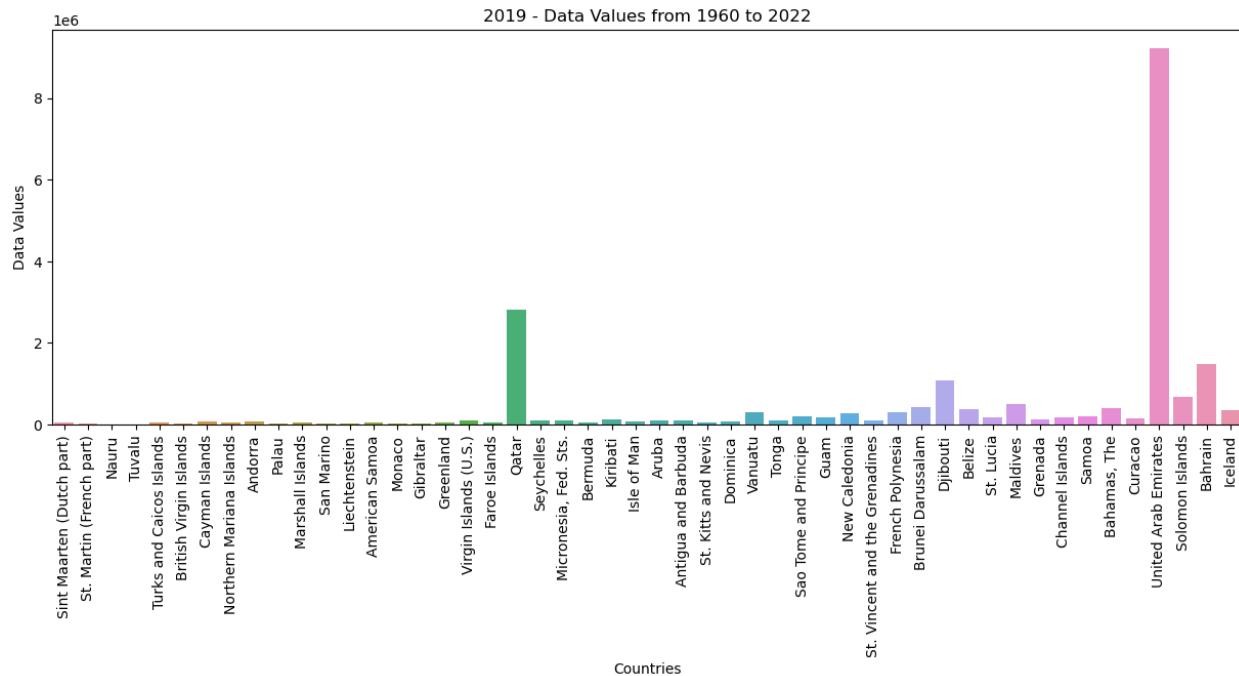


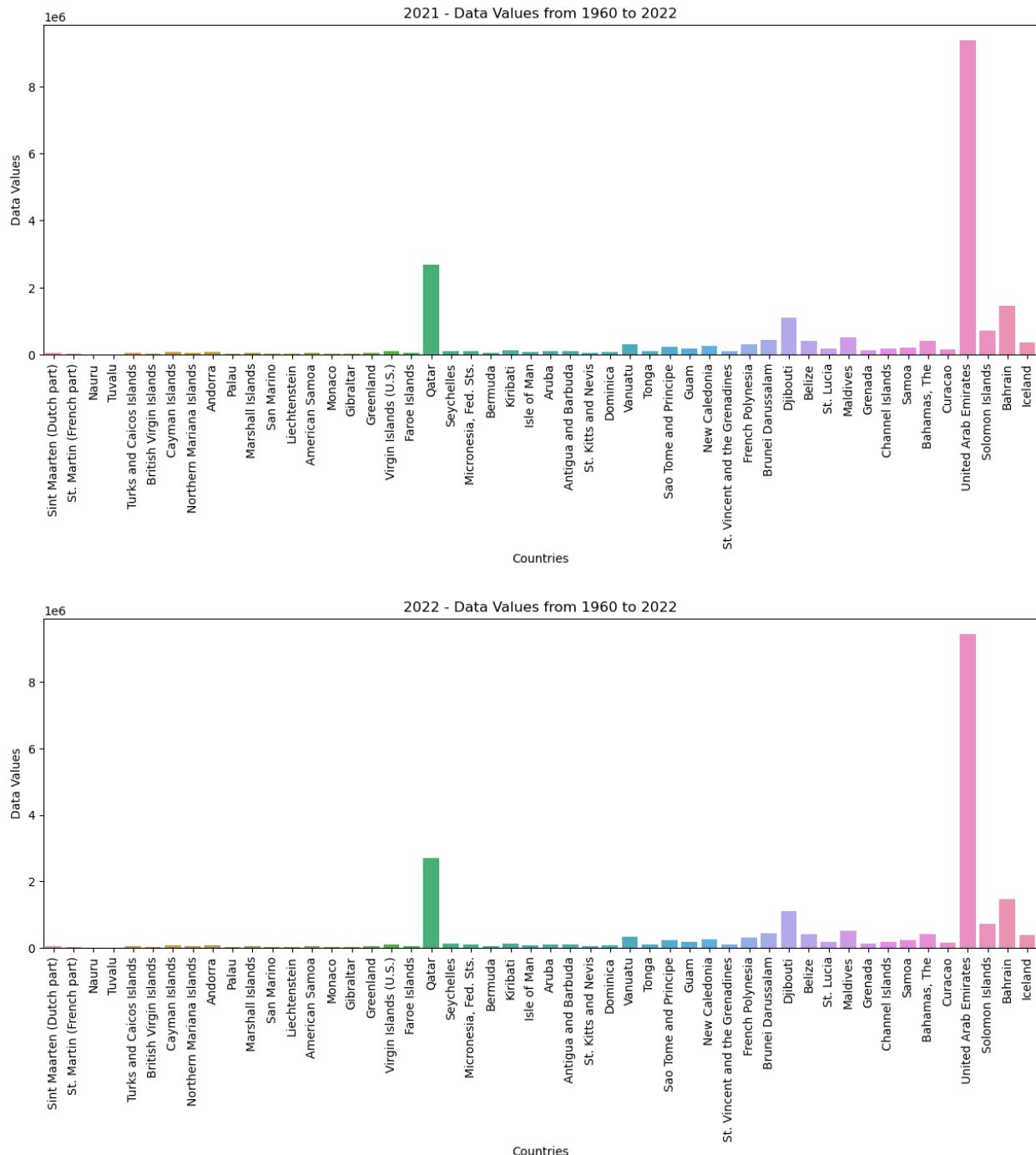












```
countries_sort_by_2022 = df.sort_values(by='2022').head(50)
countries_sort_by_2022
```

	Country	Name	1960	1961	1962
1963 \					
245		Tuvalu	5404.0	5436.0	5471.0
5503.0					
179		Nauru	4582.0	4753.0	4950.0

5198.0					
188	Palau	9446.0	9639.0	9851.0	
10076.0					
255	British Virgin Islands	7850.0	7885.0	7902.0	
7919.0					
147	St. Martin (French part)	4135.0	4258.0	4388.0	
4524.0					
84	Gibraltar	21822.0	21907.0	22249.0	
22796.0					
212	San Marino	15556.0	15895.0	16242.0	
16583.0					
149	Monaco	21797.0	21907.0	22106.0	
22442.0					
137	Liechtenstein	16472.0	16834.0	17221.0	
17625.0					
155	Marshall Islands	15374.0	15867.0	16387.0	
16947.0					
225	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0	
3481.0					
11	American Samoa	20085.0	20626.0	21272.0	
21949.0					
228	Turks and Caicos Islands	5604.0	5625.0	5633.0	
5634.0					
125	St. Kitts and Nevis	56660.0	56247.0	55404.0	
54391.0					
164	Northern Mariana Islands	8702.0	8965.0	9252.0	
9561.0					
78	Faroe Islands	34154.0	34572.0	34963.0	
35385.0					
91	Greenland	32500.0	33700.0	35000.0	
36400.0					
27	Bermuda	44400.0	45500.0	46600.0	
47700.0					
52	Cayman Islands	8473.0	8626.0	8799.0	
8985.0					
57	Dominica	59379.0	60395.0	61224.0	
62031.0					
6	Andorra	9443.0	10216.0	11014.0	
11839.0					
108	Isle of Man	48793.0	48422.0	48669.0	
49131.0					
12	Antigua and Barbuda	55342.0	56245.0	57008.0	
57778.0					
253	St. Vincent and the Grenadines	84141.0	85666.0	87183.0	
88638.0					
256	Virgin Islands (U.S.)	32500.0	34300.0	35000.0	
39800.0					
0	Aruba	54608.0	55811.0	56682.0	
57475.0					

239	Tonga	67428.0	69391.0	71388.0
73441.0				
79	Micronesia, Fed. Sts.	42986.0	44563.0	46200.0
47758.0				
226	Seychelles	41700.0	42889.0	44042.0
45176.0				
90	Grenada	93772.0	95096.0	96052.0
96882.0				
124	Kiribati	47093.0	48275.0	49508.0
50780.0				
51	Curacao	124826.0	126125.0	128414.0
130860.0				
93	Guam	72374.0	73873.0	75412.0
76996.0				
38	Channel Islands	109186.0	110225.0	111281.0
112410.0				
133	St. Lucia	91614.0	92761.0	93823.0
94887.0				
260	Samoa	113335.0	116820.0	120163.0
123416.0				
219	Sao Tome and Principe	68038.0	68705.0	69520.0
70272.0				
172	New Caledonia	79000.0	81200.0	83400.0
85700.0				
30	Barbados	232550.0	233698.0	234829.0
235875.0				
199	French Polynesia	84851.0	86921.0	89208.0
91963.0				
258	Vanuatu	64608.0	66462.0	68391.0
70400.0				
114	Iceland	175574.0	179029.0	182378.0
185653.0				
26	Belize	91403.0	93757.0	96188.0
98862.0				
23	Bahamas, The	114500.0	120216.0	126305.0
132639.0				
31	Brunei Darussalam	85346.0	89561.0	93837.0
98277.0				
152	Maldives	91650.0	93952.0	96332.0
98775.0				
159	Malta	326550.0	325250.0	323900.0
322550.0				
47	Cabo Verde	209849.0	214788.0	221484.0
228814.0				
162	Montenegro	480579.0	491140.0	502558.0
513409.0				
220	Suriname	268396.0	277969.0	288291.0
299332.0				

	1964	1965	1966	1967	1968	...
2013 \						
245	5525.0	5548.0	5591.0	5657.0	5729.0	...
179	5484.0	5804.0	6021.0	6114.0	6288.0	...
188	10318.0	10563.0	10813.0	10992.0	11079.0	...
255	7949.0	8018.0	8139.0	8337.0	8649.0	...
147	4666.0	4832.0	5044.0	5294.0	5497.0	...
84	23347.0	23910.0	24477.0	25047.0	25610.0	...
212	16926.0	17273.0	17588.0	17907.0	18291.0	...
149	22766.0	23022.0	23198.0	23281.0	23481.0	...
137	18058.0	18500.0	18957.0	19467.0	20011.0	...
155	17537.0	18154.0	18794.0	19665.0	21001.0	...
225	3811.0	4161.0	4531.0	4930.0	5354.0	...
11	22656.0	23391.0	24122.0	24848.0	25608.0	...
228	5642.0	5650.0	5652.0	5662.0	5668.0	...
125	53255.0	52016.0	50683.0	49269.0	47772.0	...
164	9890.0	10229.0	10577.0	10720.0	10440.0	...
78	35841.0	36346.0	36825.0	37234.0	37630.0	...
91	37600.0	39200.0	40500.0	41900.0	43400.0	...
27	48900.0	50100.0	51000.0	52000.0	53000.0	...
52	9172.0	9366.0	9566.0	9771.0	9981.0	...
57	62843.0	63744.0	64728.0	65760.0	66865.0	...
6	12690.0	13563.0	14546.0	15745.0	17079.0	...
108	49597.0	50057.0	50718.0	51731.0	52910.0	...
12	58664.0	59644.0	60615.0	61617.0	62658.0	...
253	90053.0	91495.0	92957.0	94382.0	95758.0	...
256	40800.0	43500.0	46200.0	49100.0	55700.0	...
						108041.0

	2014	2015	2016	2017	2018	2019
0	58178.0	58782.0	59291.0	59522.0	59471.0	... 102880.0
239	75544.0	77686.0	79794.0	81725.0	83430.0	... 107089.0
79	49231.0	50759.0	52346.0	53940.0	55553.0	... 108609.0
226	46322.0	47500.0	48699.0	49911.0	51134.0	... 89949.0
90	97613.0	98226.0	98692.0	98977.0	99056.0	... 116945.0
124	52092.0	53444.0	54428.0	54990.0	55511.0	... 113311.0
51	133148.0	135266.0	136682.0	138140.0	140298.0	... 153822.0
93	78621.0	80255.0	81879.0	83480.0	85046.0	... 167054.0
38	113596.0	114832.0	116116.0	117430.0	118707.0	... 159794.0
133	95948.0	97024.0	98126.0	99257.0	100400.0	... 173978.0
260	126582.0	129789.0	132976.0	135752.0	138154.0	... 199939.0
219	70992.0	71730.0	72567.0	73564.0	74739.0	... 193757.0
172	88100.0	90500.0	93500.0	96500.0	99500.0	... 263650.0
30	236834.0	237694.0	238494.0	239238.0	239905.0	... 276865.0
199	95192.0	98674.0	102281.0	105995.0	109832.0	... 288032.0
258	72493.0	74677.0	76945.0	79311.0	81782.0	... 263534.0
114	188983.0	192286.0	195570.0	198751.0	201488.0	... 323764.0
26	101772.0	104838.0	108062.0	111411.0	114825.0	... 344688.0
23	138785.0	144849.0	151323.0	158197.0	165456.0	... 385650.0
31	102904.0	107686.0	112597.0	117628.0	122764.0	... 411702.0
152	101241.0	104566.0	108713.0	112547.0	116049.0	... 400728.0
159	321250.0	318800.0	315200.0	311550.0	307900.0	... 425967.0
47	236362.0	244156.0	252238.0	260648.0	269408.0	... 539940.0
162	521753.0	526327.0	526419.0	522796.0	517481.0	... 621207.0
220	310288.0	321069.0	332142.0	343620.0	355468.0	... 563947.0

2020 \						
245	10899.0	10877.0	10852.0	10828.0	10865.0	10956.0
11069.0						
179	10940.0	11185.0	11437.0	11682.0	11924.0	12132.0
12315.0						
188	17796.0	17794.0	17816.0	17837.0	17864.0	17916.0
17972.0						
255	28971.0	29366.0	29739.0	30060.0	30335.0	30610.0
30910.0						
147	35261.0	35020.0	34811.0	34496.0	33852.0	33121.0
32553.0						
84	32452.0	32520.0	32565.0	32602.0	32648.0	32685.0
32709.0						
212	33389.0	33570.0	33834.0	34056.0	34156.0	34178.0
34007.0						
149	36110.0	36760.0	37071.0	37044.0	37029.0	37034.0
36922.0						
137	37096.0	37355.0	37609.0	37889.0	38181.0	38482.0
38756.0						
155	50419.0	49410.0	48329.0	47187.0	45989.0	44728.0
43413.0						
225	37685.0	38825.0	39969.0	40574.0	40895.0	41608.0
42310.0						
11	52217.0	51368.0	50448.0	49463.0	48424.0	47321.0
46189.0						
228	34985.0	36538.0	38246.0	39844.0	41487.0	43080.0
44276.0						
125	47789.0	47790.0	47788.0	47785.0	47761.0	47712.0
47642.0						
164	51856.0	51514.0	51133.0	50729.0	50304.0	49858.0
49587.0						
78	48465.0	48816.0	49500.0	50230.0	50955.0	51681.0
52415.0						
91	56295.0	56114.0	56186.0	56172.0	56023.0	56225.0
56367.0						
27	65138.0	65237.0	64554.0	63873.0	63918.0	63911.0
63893.0						
52	59559.0	60911.0	62255.0	63581.0	64884.0	66134.0
67311.0						
57	69371.0	70007.0	70075.0	70403.0	70823.0	71428.0
71995.0						
6	71621.0	71746.0	72540.0	73837.0	75013.0	76343.0
77700.0						
108	83896.0	83593.0	83450.0	83580.0	83775.0	83933.0
84046.0						
12	89236.0	89941.0	90564.0	91119.0	91626.0	92117.0
92664.0						
253	106912.0	106482.0	105963.0	105549.0	105281.0	104924.0
104632.0						

256	107882.0	107712.0	107516.0	107281.0	107001.0	106669.0
106290.0						
0	103594.0	104257.0	104874.0	105439.0	105962.0	106442.0
106585.0						
239	106626.0	106122.0	105707.0	105415.0	105150.0	104951.0
105254.0						
79	109024.0	109462.0	109925.0	110430.0	110929.0	111379.0
112106.0						
226	91359.0	93419.0	94677.0	95843.0	96762.0	97625.0
98462.0						
90	117972.0	118980.0	119966.0	120921.0	121838.0	122724.0
123663.0						
124	114985.0	116707.0	118513.0	120362.0	122261.0	124241.0
126463.0						
51	155909.0	157980.0	159664.0	160175.0	159336.0	157441.0
154947.0						
93	167543.0	167978.0	168346.0	168606.0	168678.0	168624.0
169231.0						
38	160912.0	162190.0	163721.0	165215.0	167259.0	169410.0
171113.0						
133	174804.0	175623.0	176413.0	177163.0	177888.0	178583.0
179237.0						
260	201757.0	203571.0	205544.0	207630.0	209701.0	211905.0
214929.0						
219	197497.0	201124.0	204632.0	208036.0	211344.0	214599.0
218641.0						
172	268050.0	269460.0	270220.0	270810.0	271170.0	271240.0
271080.0						
30	277493.0	278083.0	278649.0	279187.0	279688.0	280180.0
280693.0						
199	289873.0	291787.0	293541.0	295450.0	297606.0	299717.0
301920.0						
258	269927.0	276438.0	283218.0	290239.0	297298.0	304404.0
311685.0						
114	327386.0	330815.0	335439.0	343400.0	352721.0	360563.0
366463.0						
26	352335.0	359871.0	367313.0	374693.0	382066.0	389095.0
394921.0						
23	389131.0	392697.0	395976.0	399020.0	401906.0	404557.0
406471.0						
31	416656.0	421437.0	425994.0	430276.0	434274.0	438048.0
441725.0						
152	416738.0	435582.0	454252.0	472442.0	489758.0	504508.0
514438.0						
159	434558.0	445053.0	455356.0	467999.0	484630.0	504062.0
515332.0						
47	546076.0	552166.0	558394.0	564954.0	571202.0	577030.0
582640.0						
162	621810.0	622159.0	622303.0	622373.0	622227.0	622028.0

621306.0							
220	569682.0	575475.0	581453.0	587559.0	593715.0	600301.0	
607065.0							

	2021	2022
245	11204.0	11312.0
179	12511.0	12668.0
188	18024.0	18055.0
255	31122.0	31305.0
147	31948.0	31791.0
84	32669.0	32649.0
212	33745.0	33660.0
149	36686.0	36469.0
137	39039.0	39327.0
155	42050.0	41569.0
225	42668.0	42848.0
11	45035.0	44273.0
228	45114.0	45703.0
125	47606.0	47657.0
164	49481.0	49551.0
78	52889.0	53090.0
91	56653.0	56661.0
27	63764.0	63532.0
52	68136.0	68706.0
57	72412.0	72737.0
6	79034.0	79824.0
108	84263.0	84519.0
12	93219.0	93763.0
253	104332.0	103948.0
256	105870.0	105413.0
0	106537.0	106445.0
239	106017.0	106858.0
79	113131.0	114164.0
226	99258.0	119878.0
90	124610.0	125438.0
124	128874.0	131232.0
51	152369.0	149996.0
93	170534.0	171774.0
38	172683.0	174079.0
133	179651.0	179857.0
260	218764.0	222382.0
219	223107.0	227380.0
172	270390.0	269220.0
30	281200.0	281635.0
199	304032.0	306279.0
258	319137.0	326740.0
114	372520.0	382003.0
26	400031.0	405272.0
23	407906.0	409984.0

```

31   445373.0  449002.0
152  521457.0  523787.0
159  518536.0  531113.0
47   587925.0  593149.0
162  619211.0  617213.0
220  612985.0  618040.0

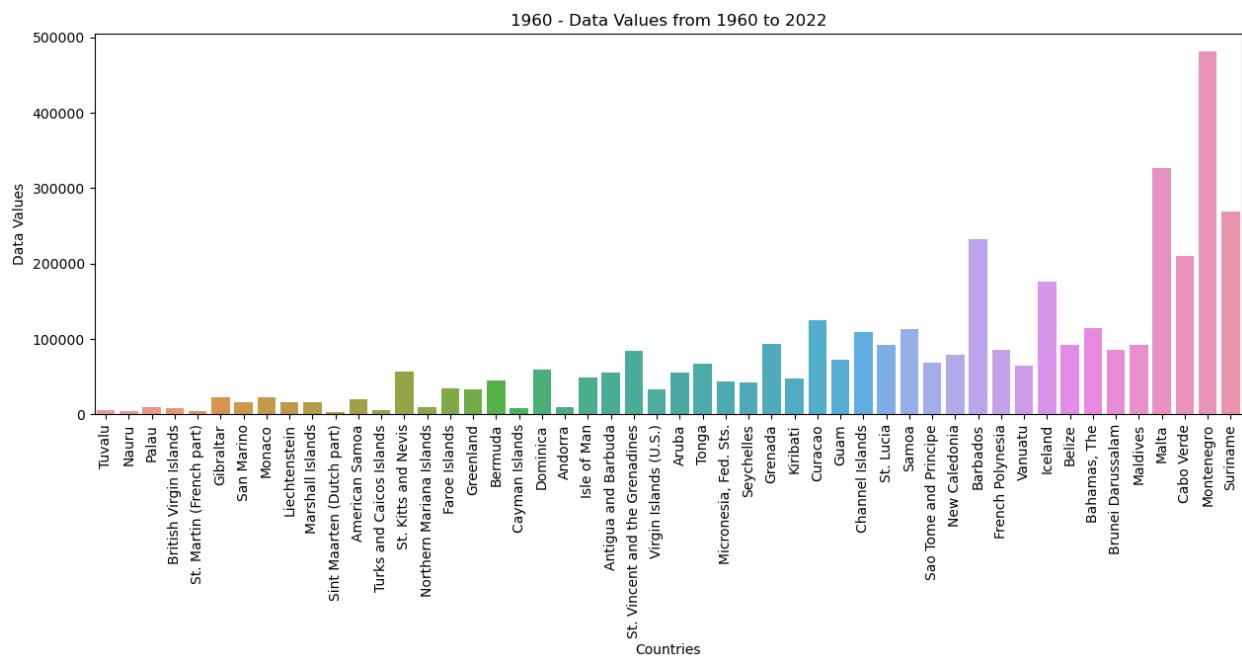
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[50 rows x 64 columns]

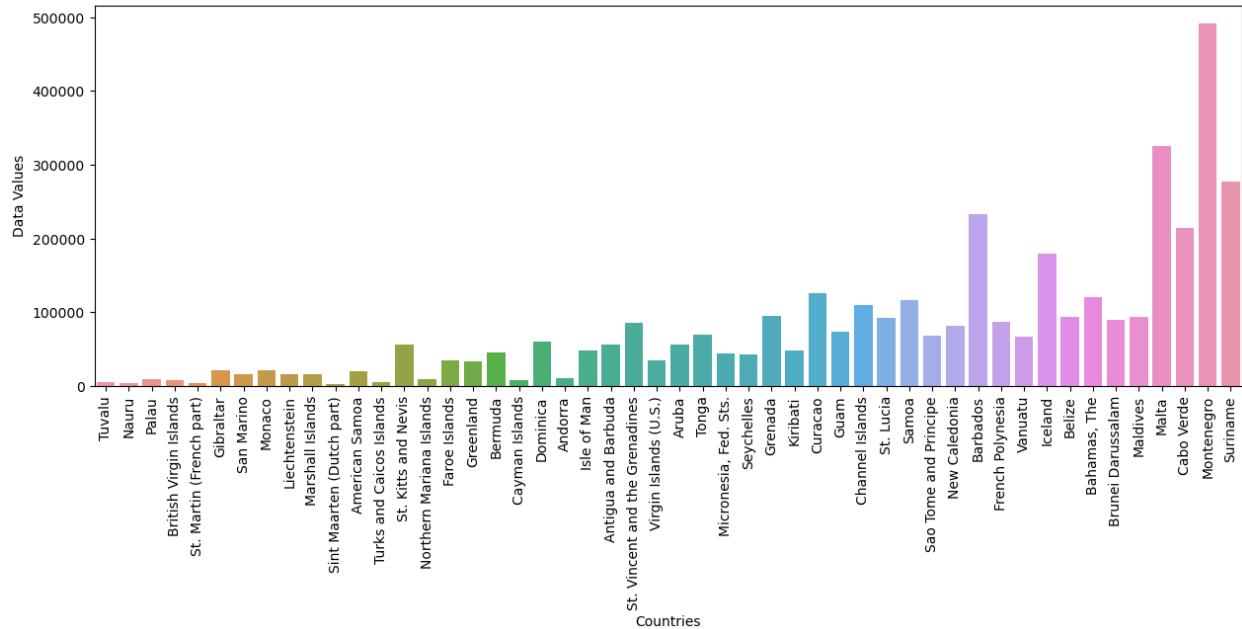
```

countries_sort_by_2022_transpose =
countries_sort_by_2022.set_index('Country Name').T
for country_name, population_value in
countries_sort_by_2022_transpose.iterrows():
    fig = plt.figure(figsize=(15,5))
    sns.barplot(x=population_value.index, y=population_value.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()

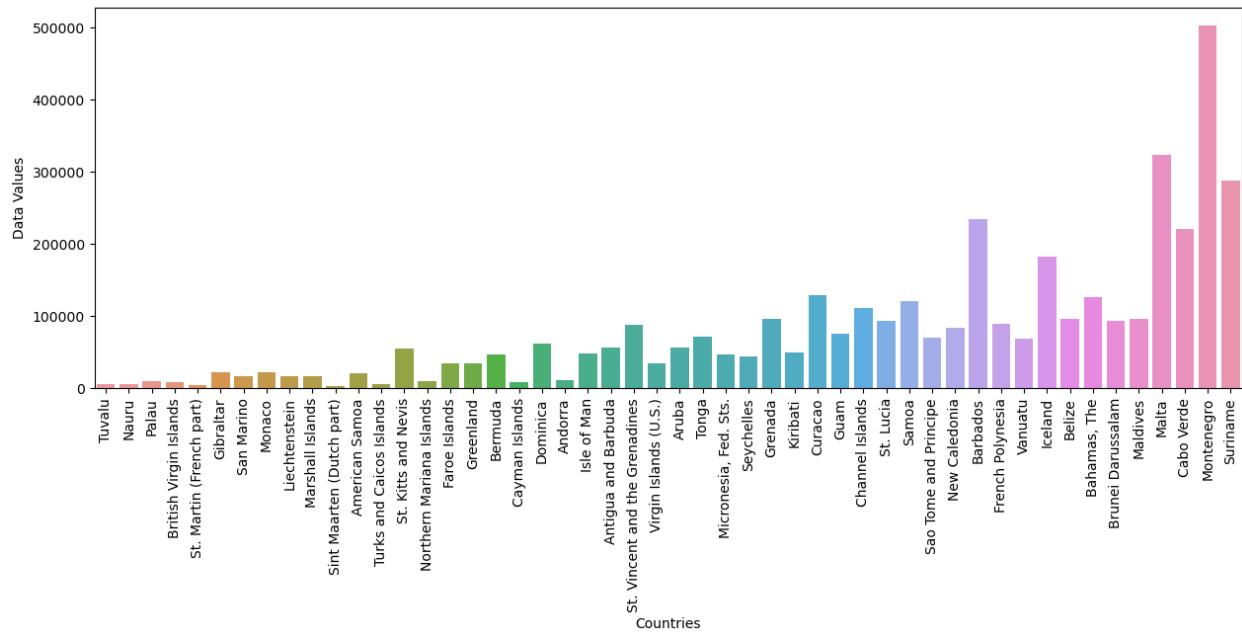
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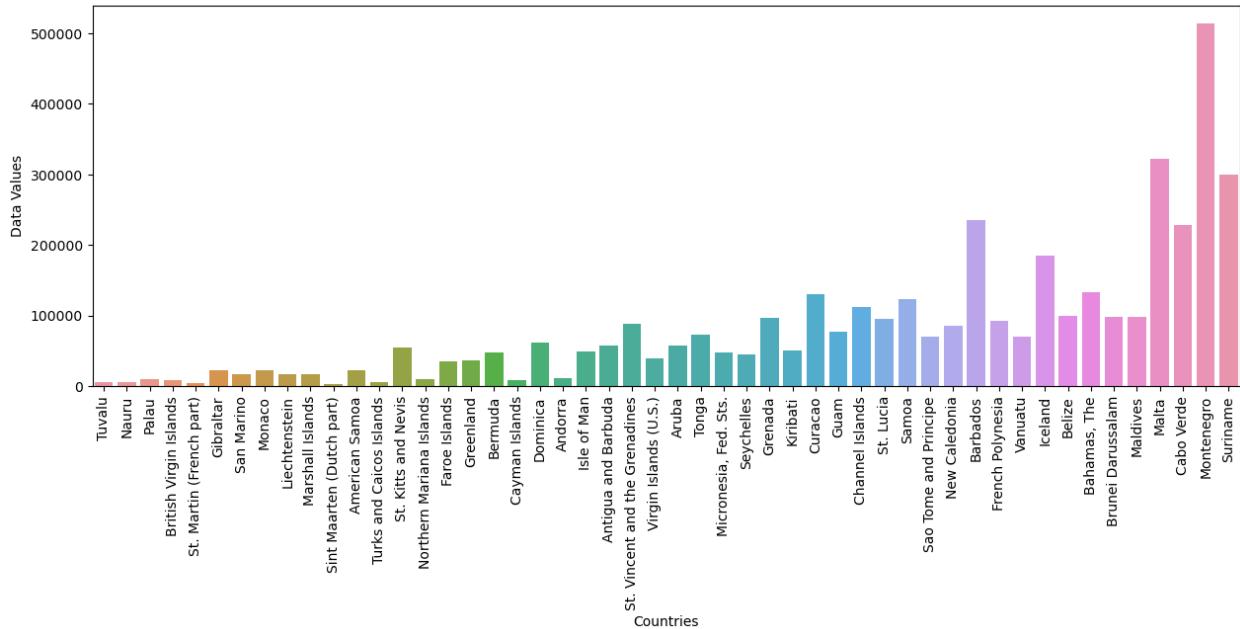
1961 - Data Values from 1960 to 2022



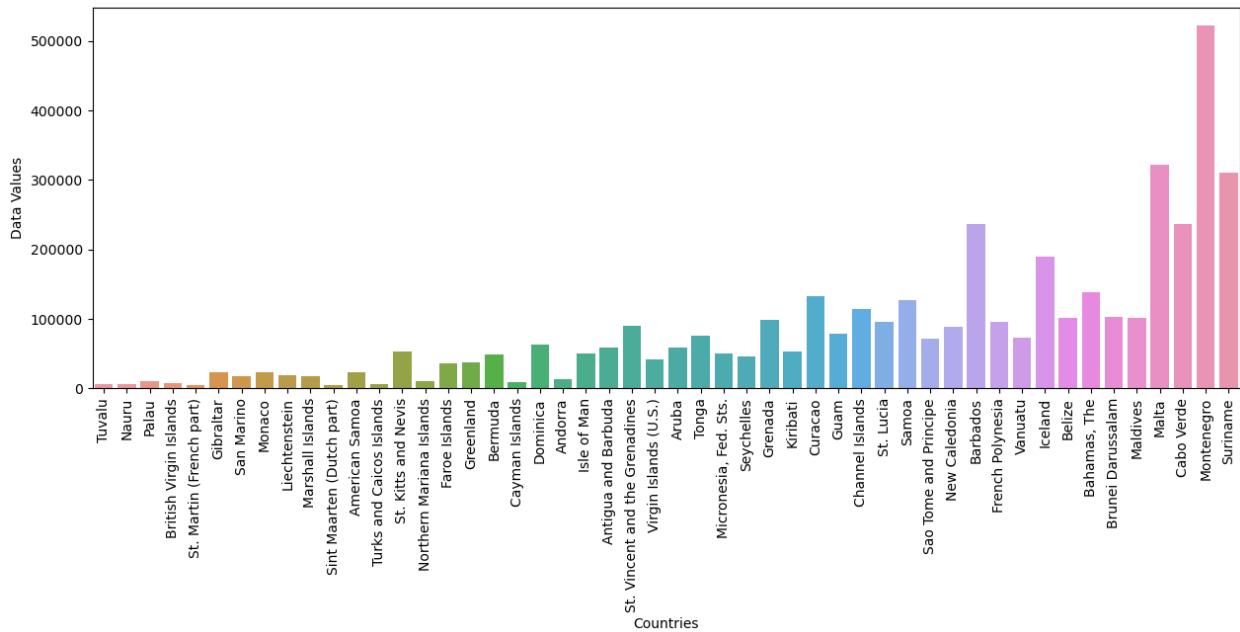
1962 - Data Values from 1960 to 2022



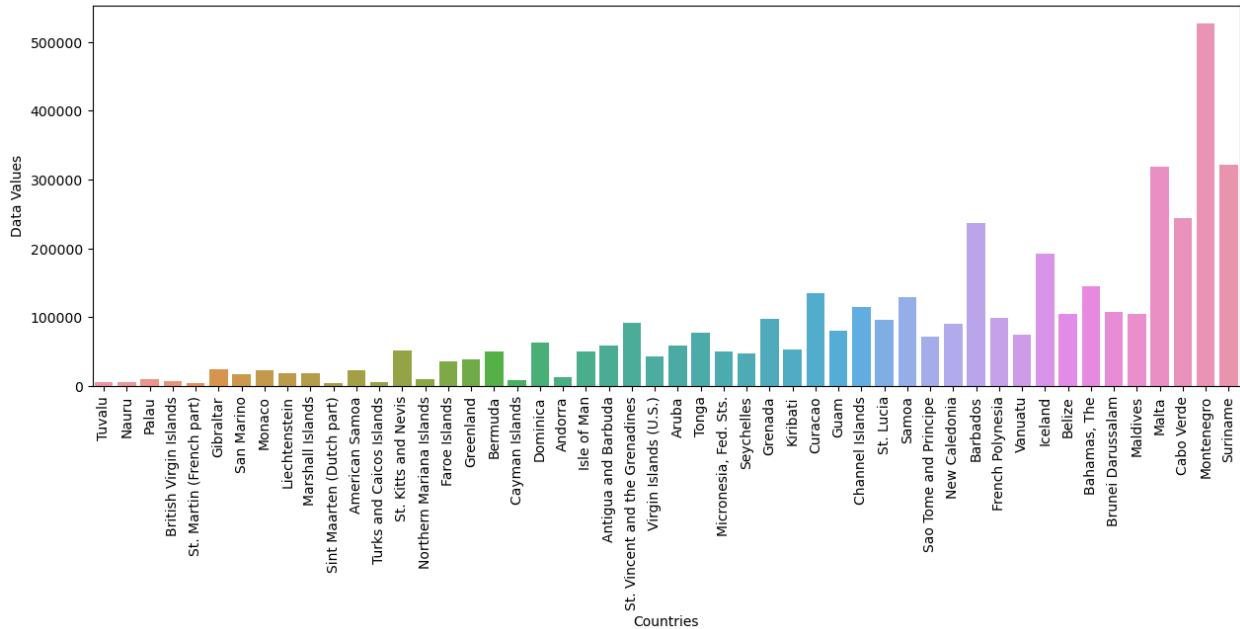
1963 - Data Values from 1960 to 2022



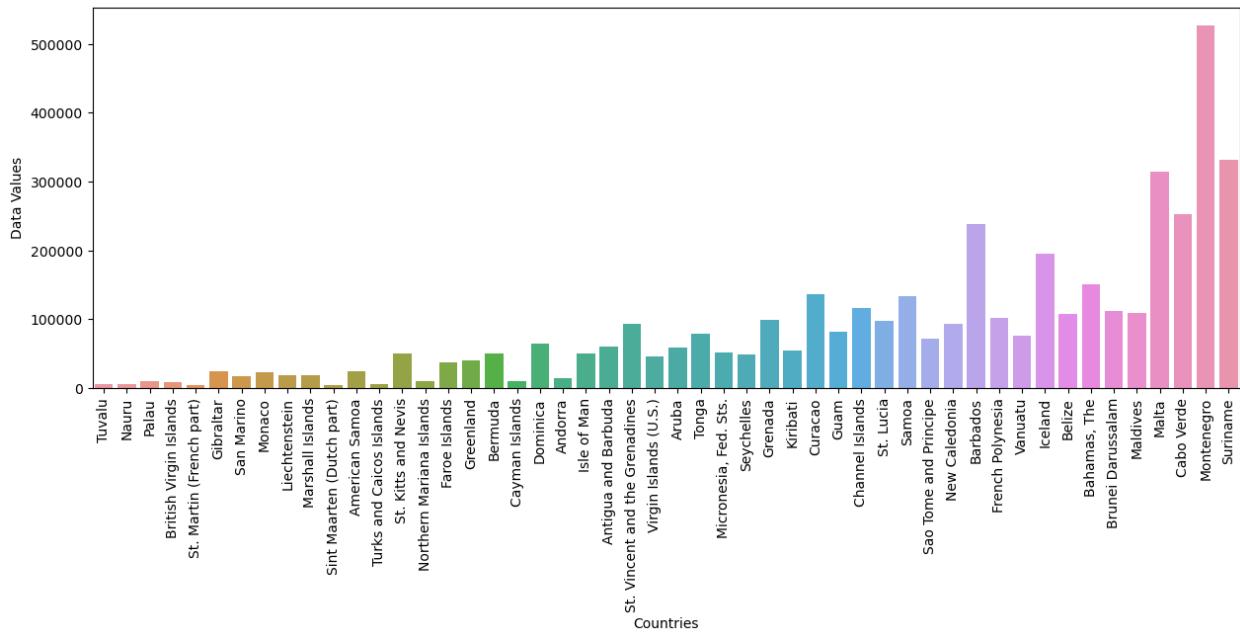
1964 - Data Values from 1960 to 2022



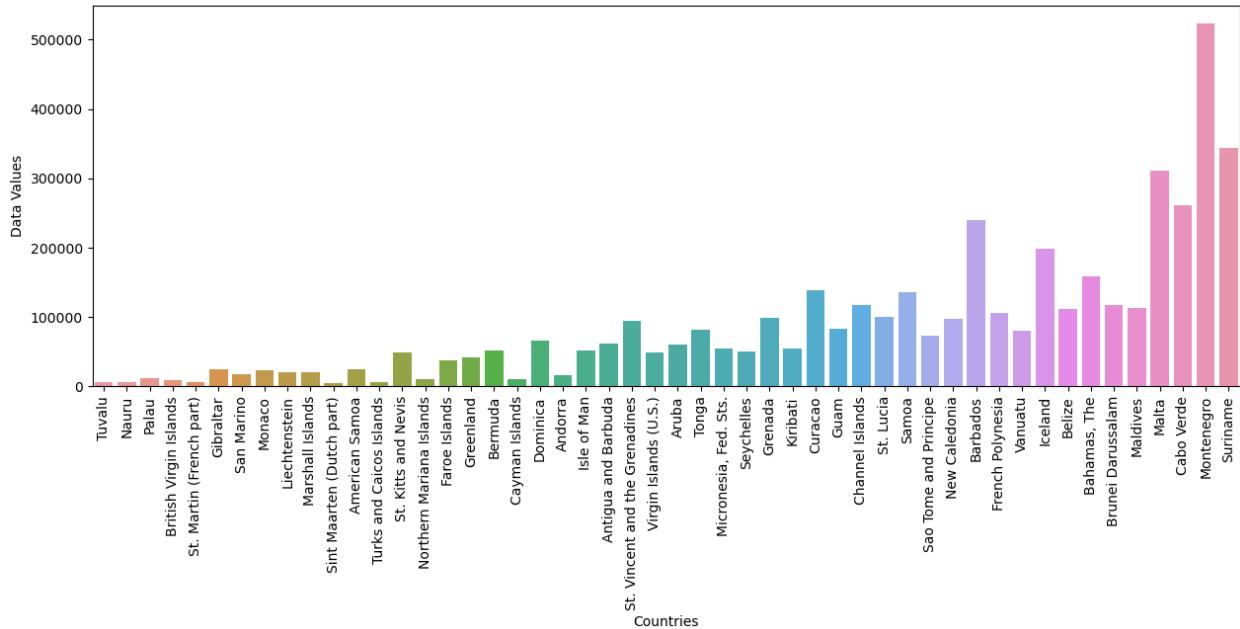
1965 - Data Values from 1960 to 2022



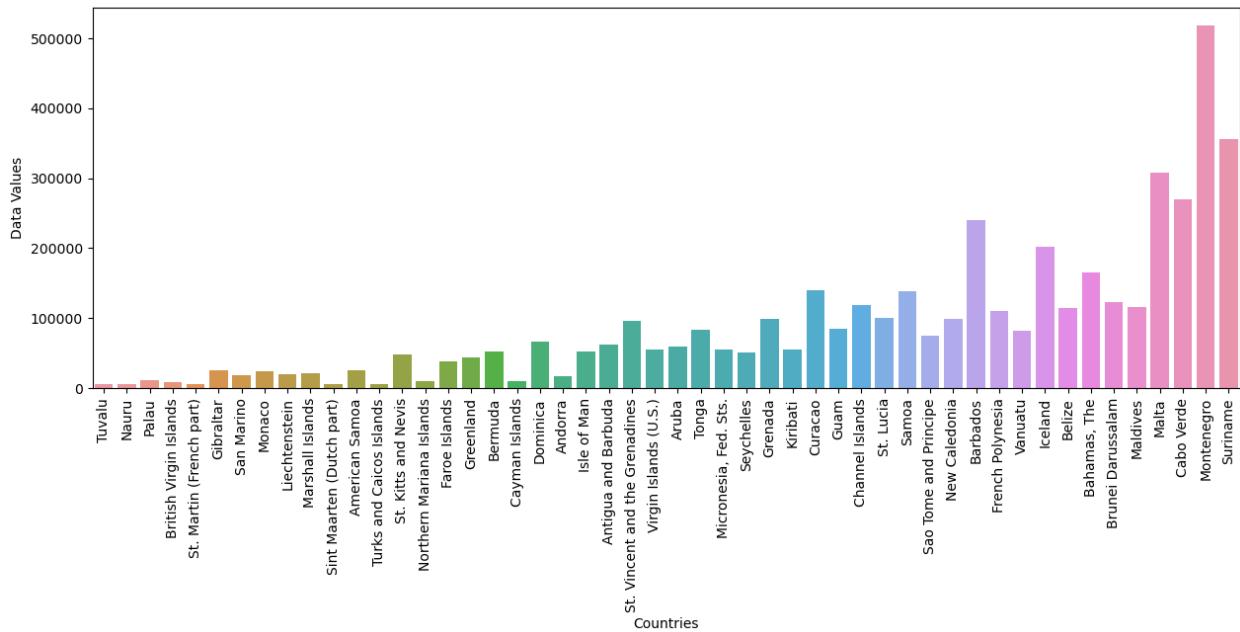
1966 - Data Values from 1960 to 2022



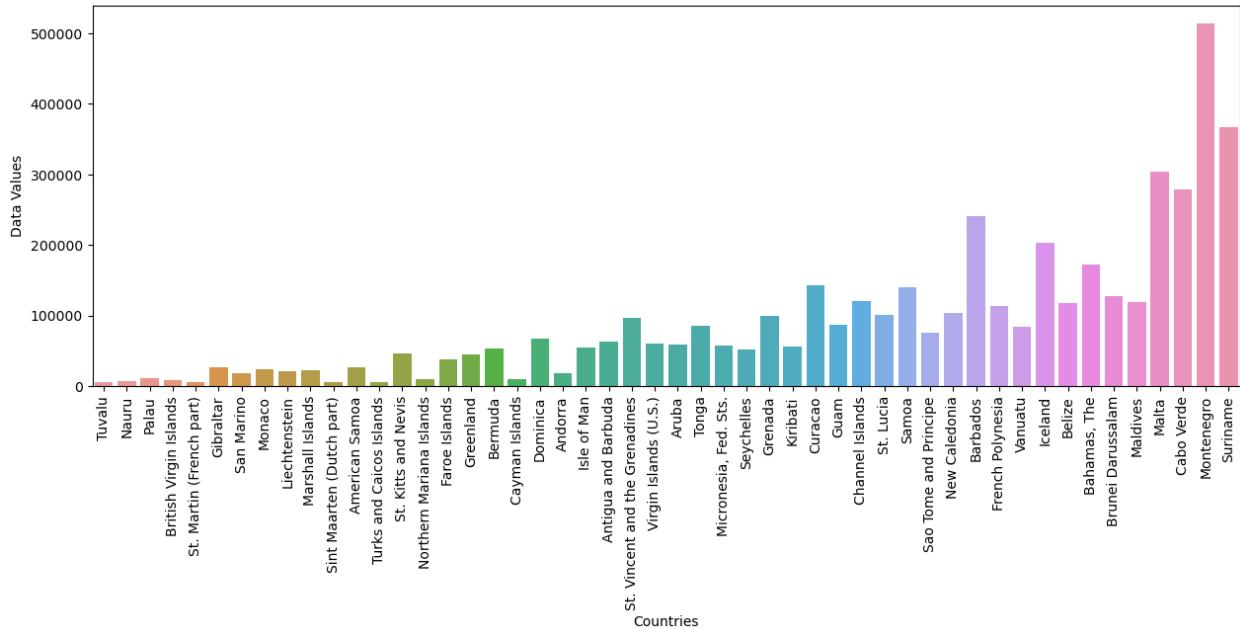
1967 - Data Values from 1960 to 2022



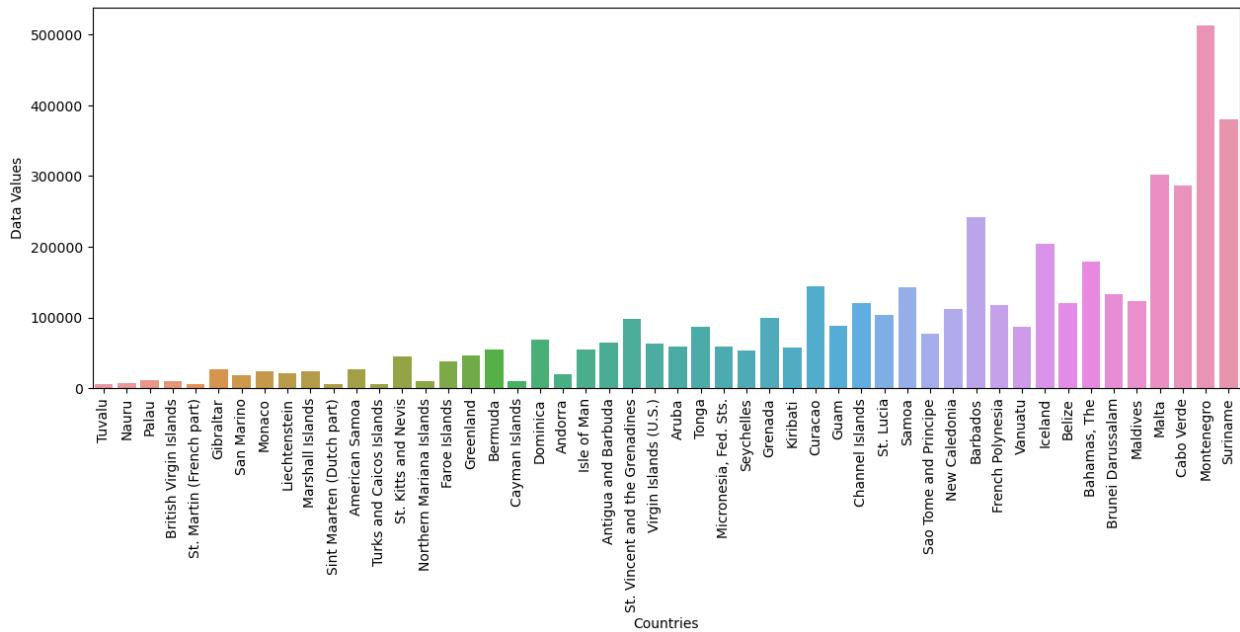
1968 - Data Values from 1960 to 2022



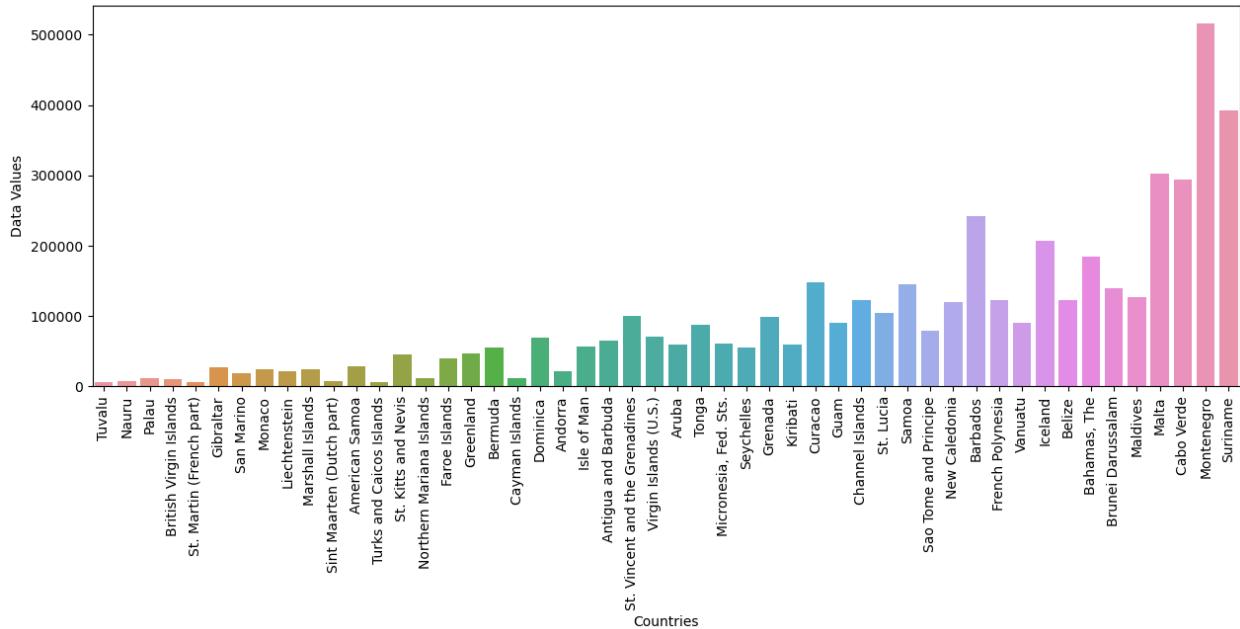
1969 - Data Values from 1960 to 2022



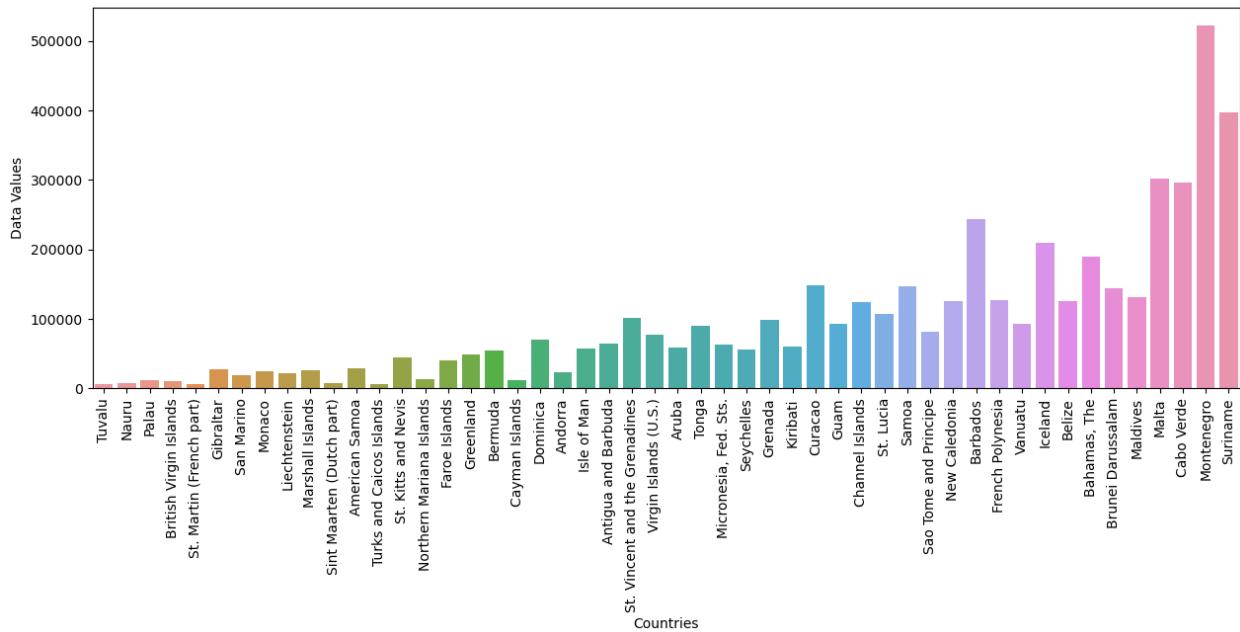
1970 - Data Values from 1960 to 2022



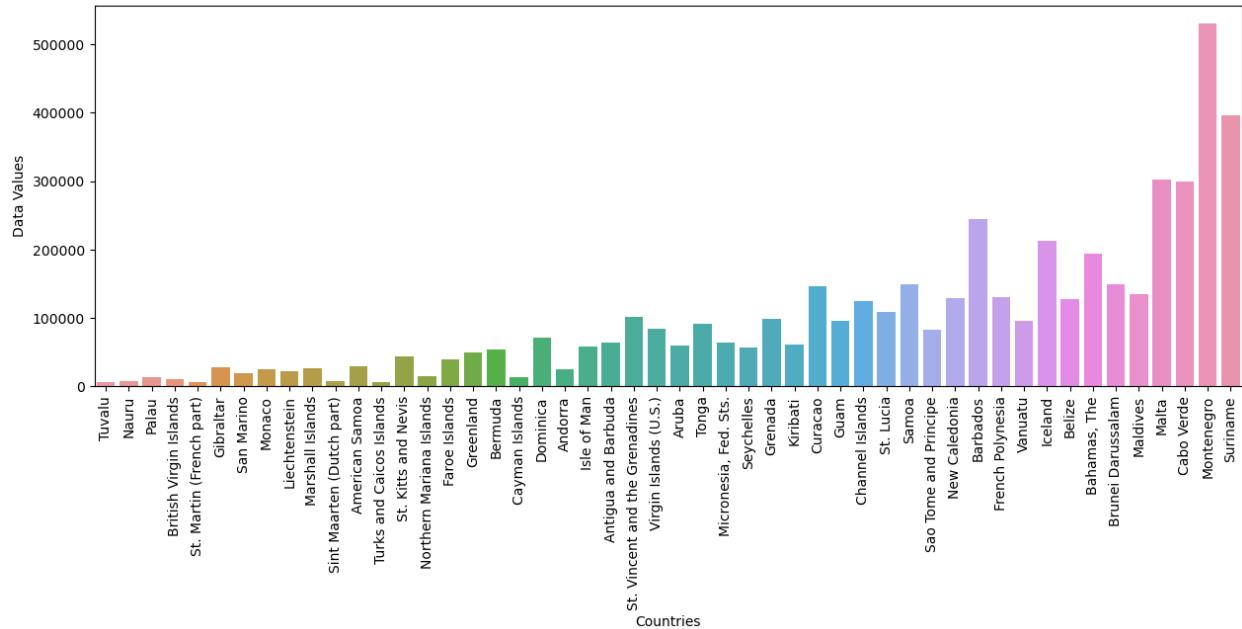
1971 - Data Values from 1960 to 2022



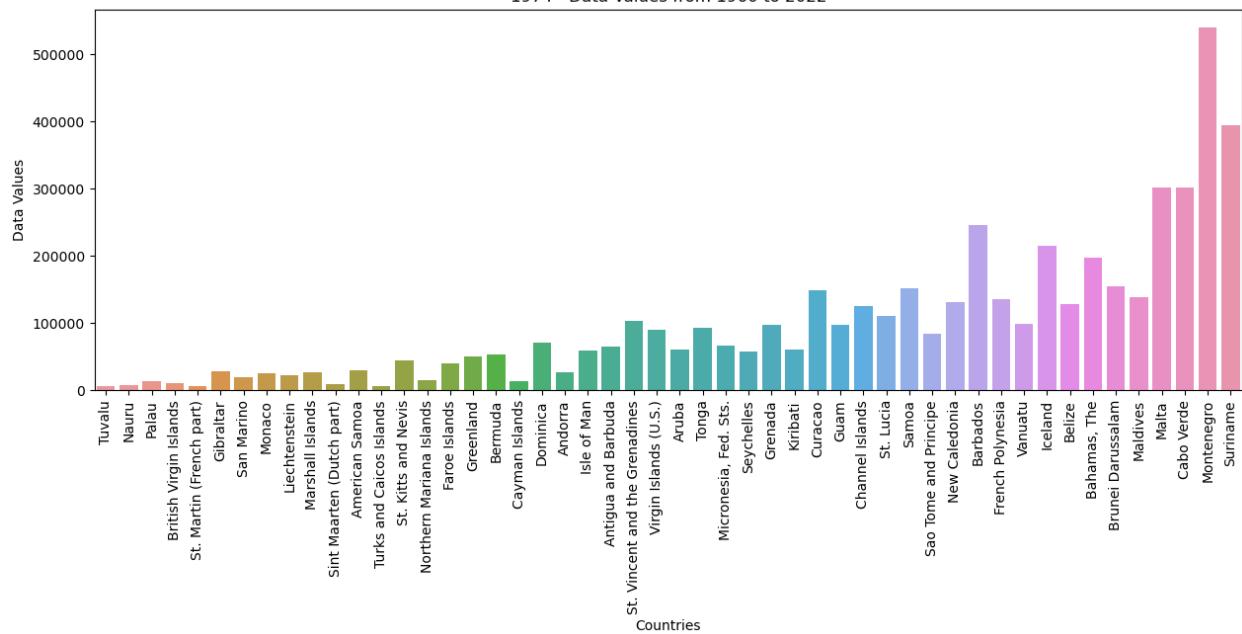
1972 - Data Values from 1960 to 2022



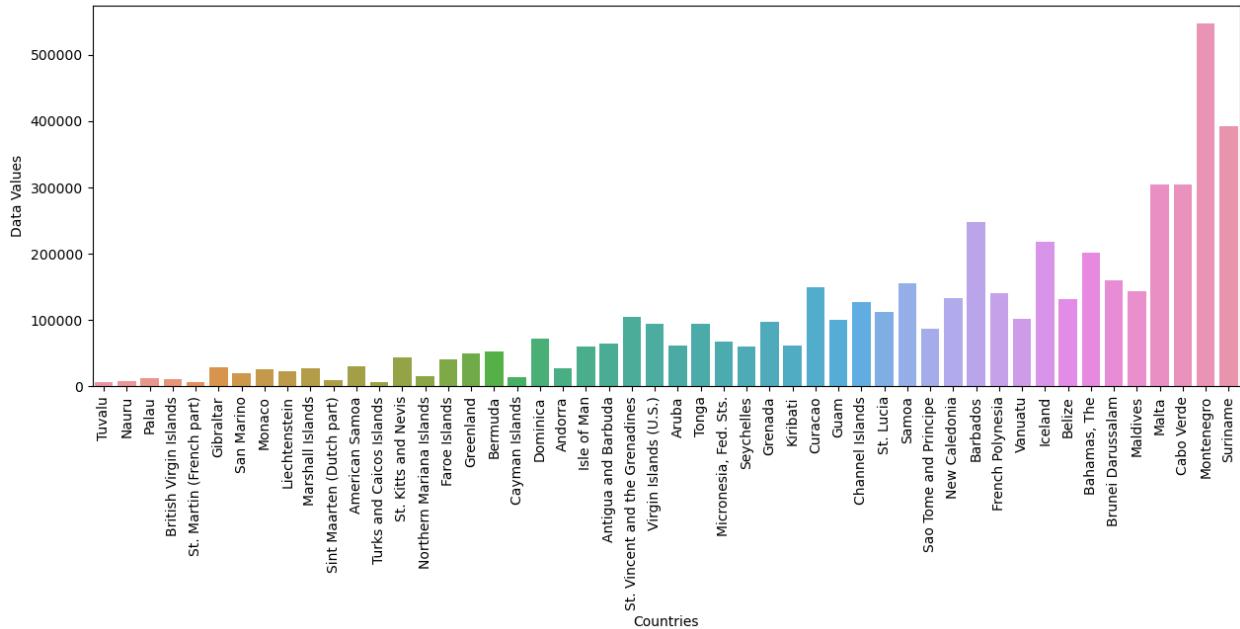
1973 - Data Values from 1960 to 2022



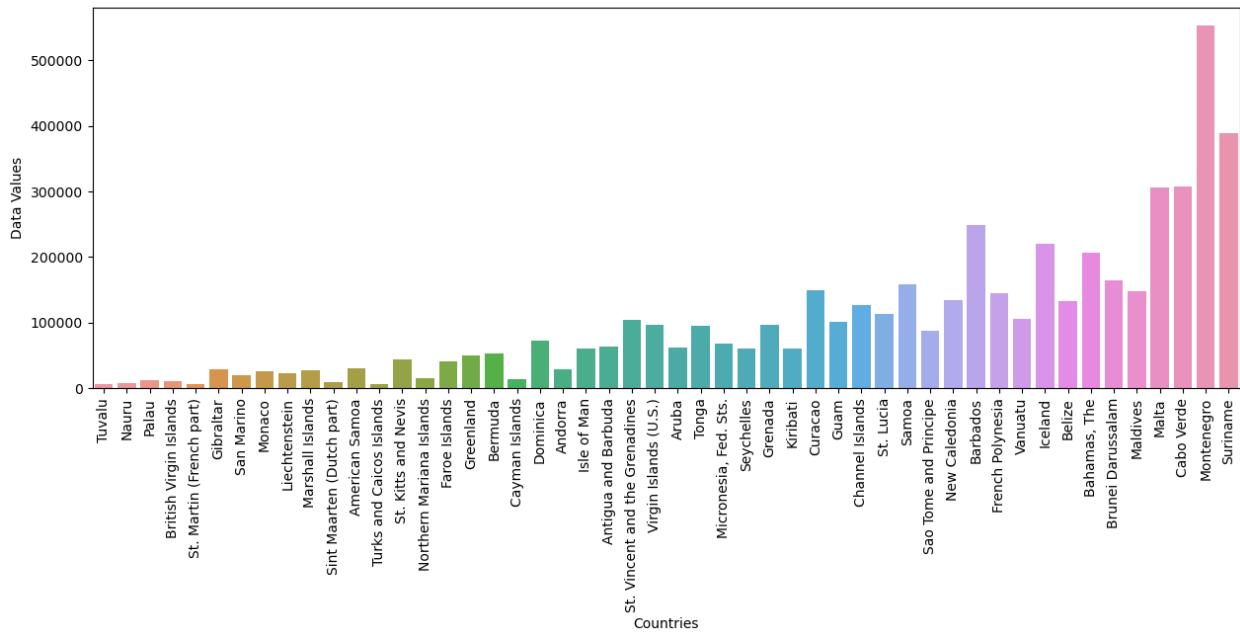
1974 - Data Values from 1960 to 2022



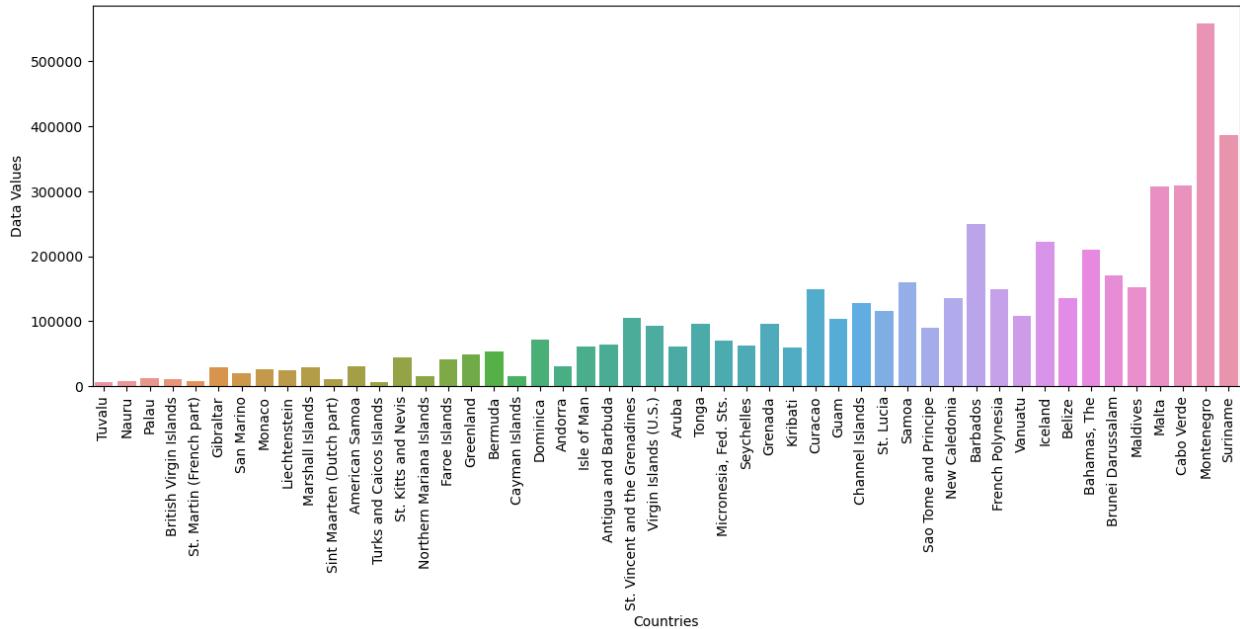
1975 - Data Values from 1960 to 2022



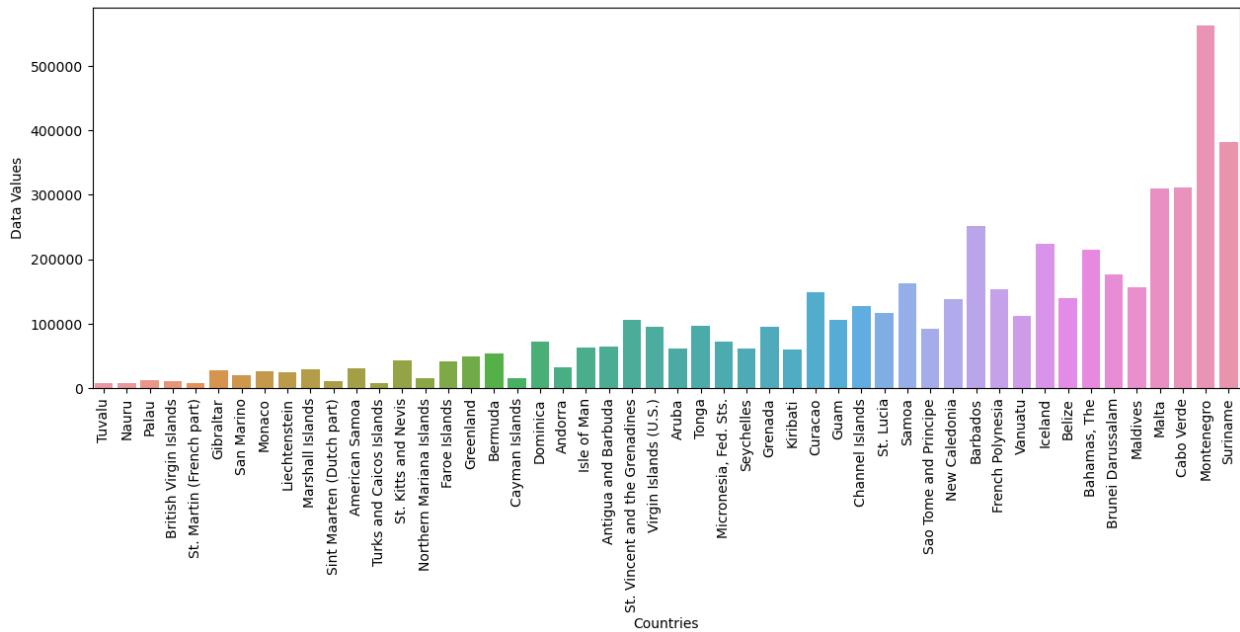
1976 - Data Values from 1960 to 2022



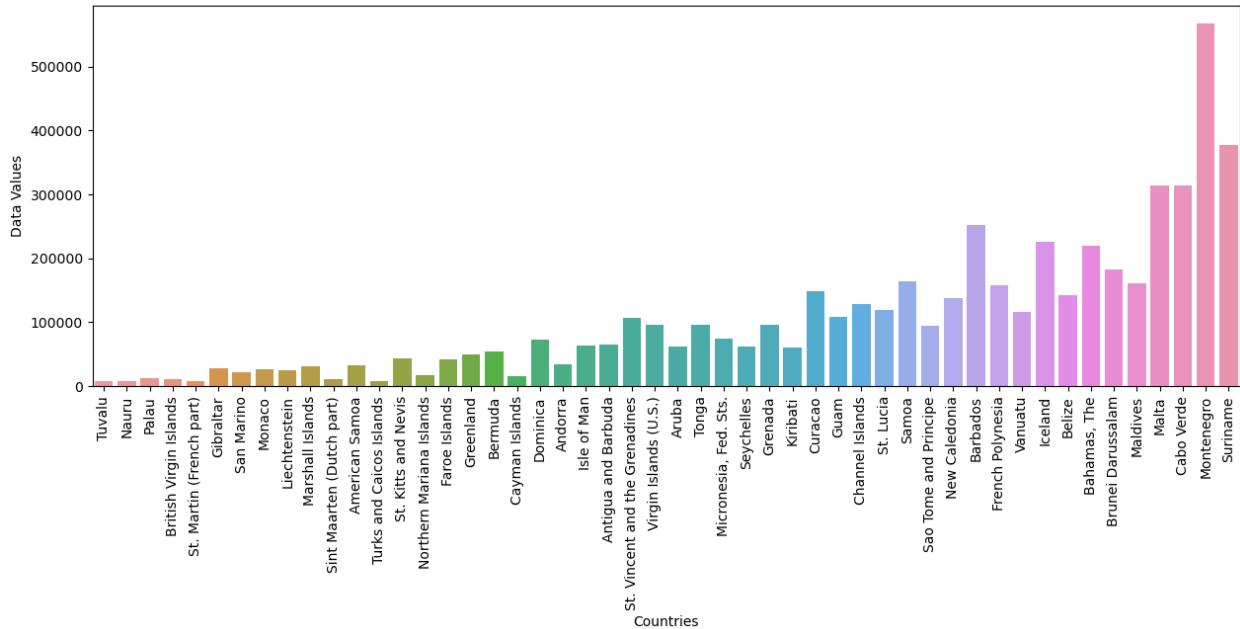
1977 - Data Values from 1960 to 2022



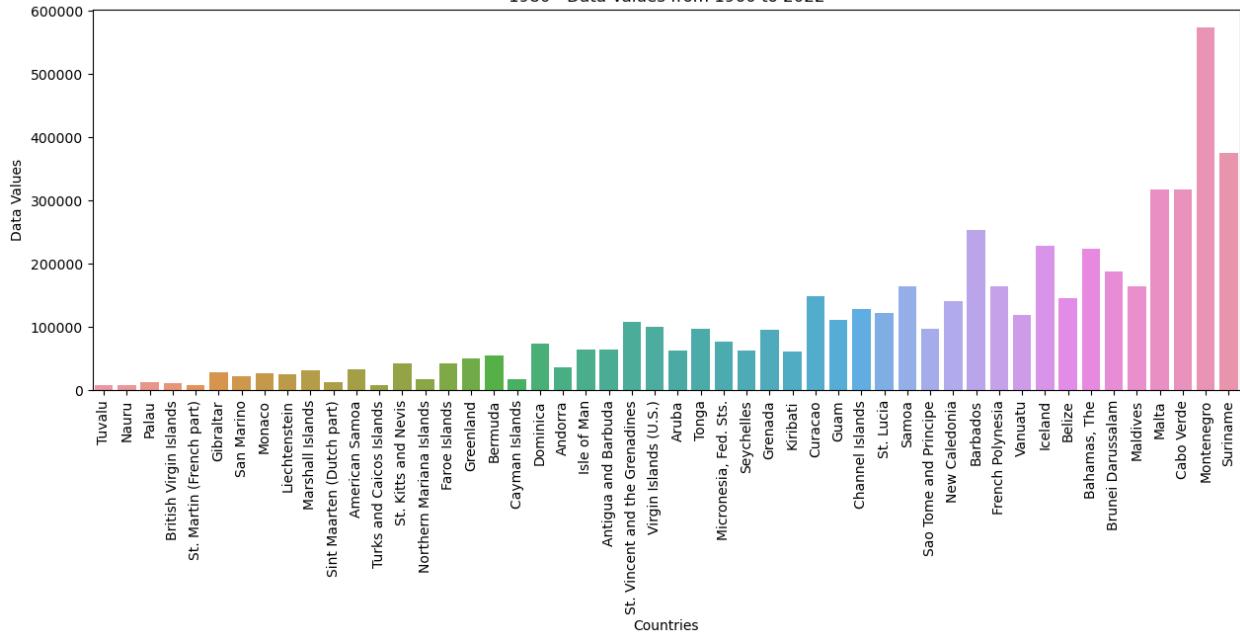
1978 - Data Values from 1960 to 2022

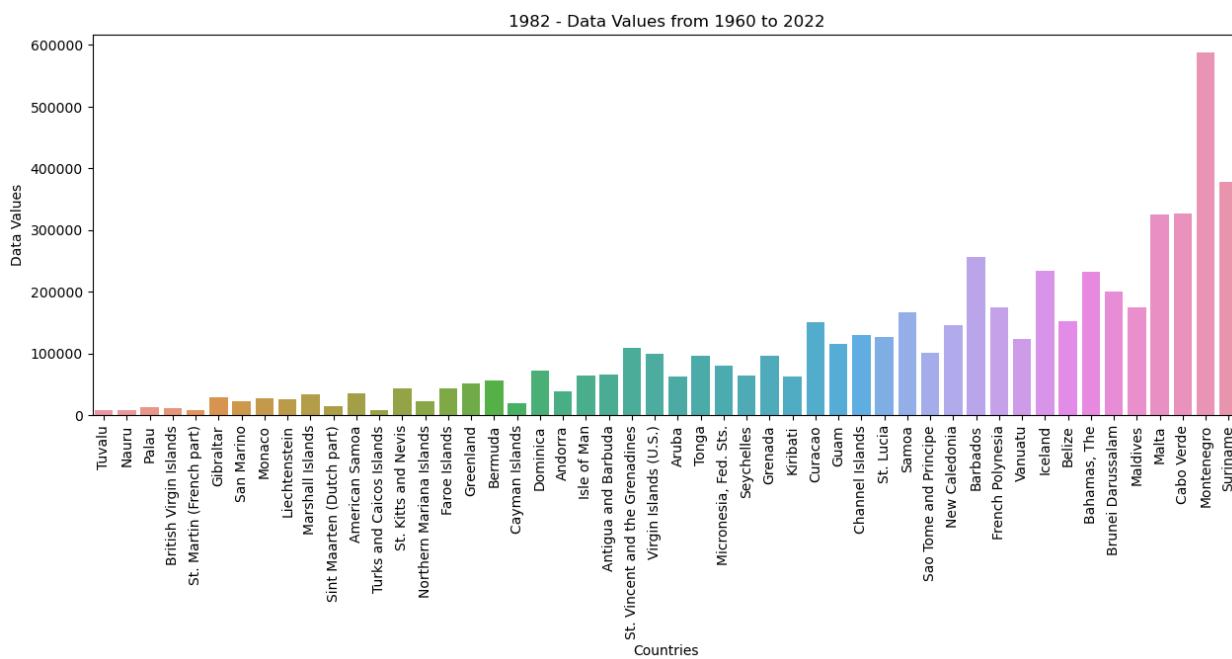
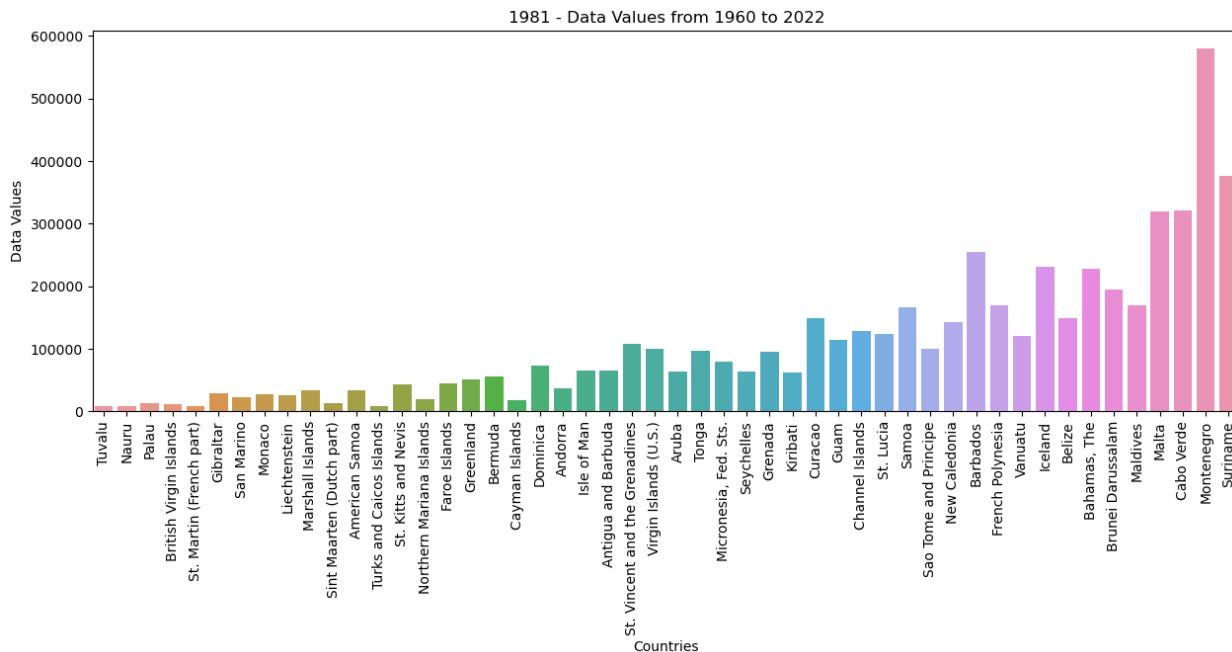


1979 - Data Values from 1960 to 2022

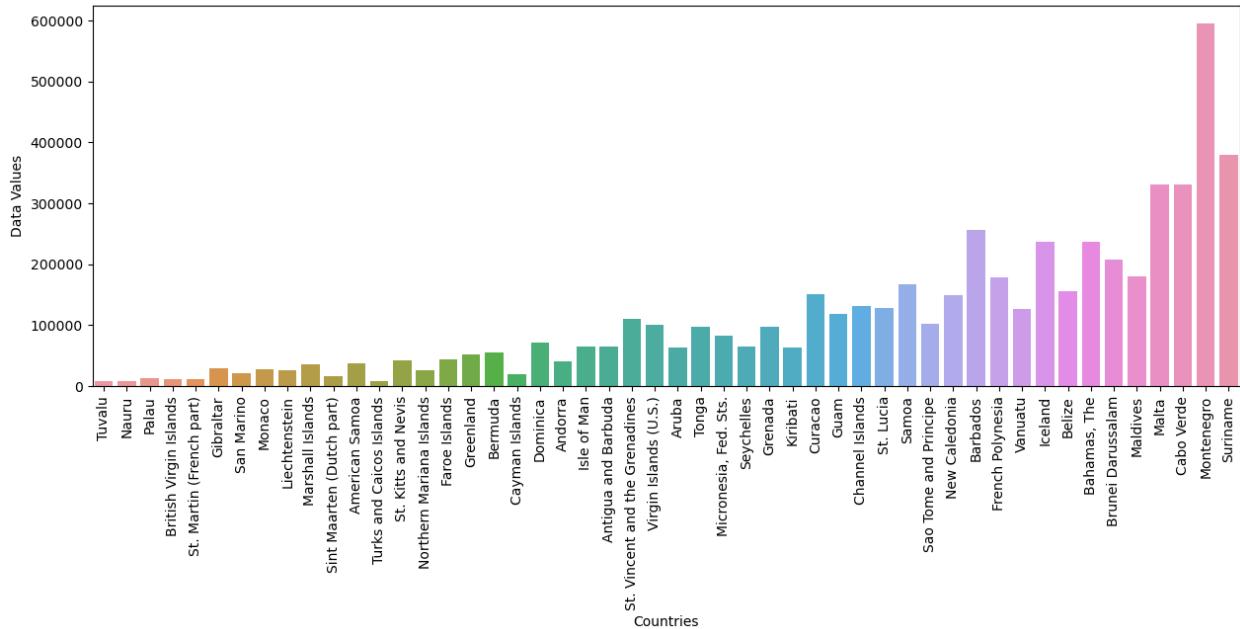


1980 - Data Values from 1960 to 2022

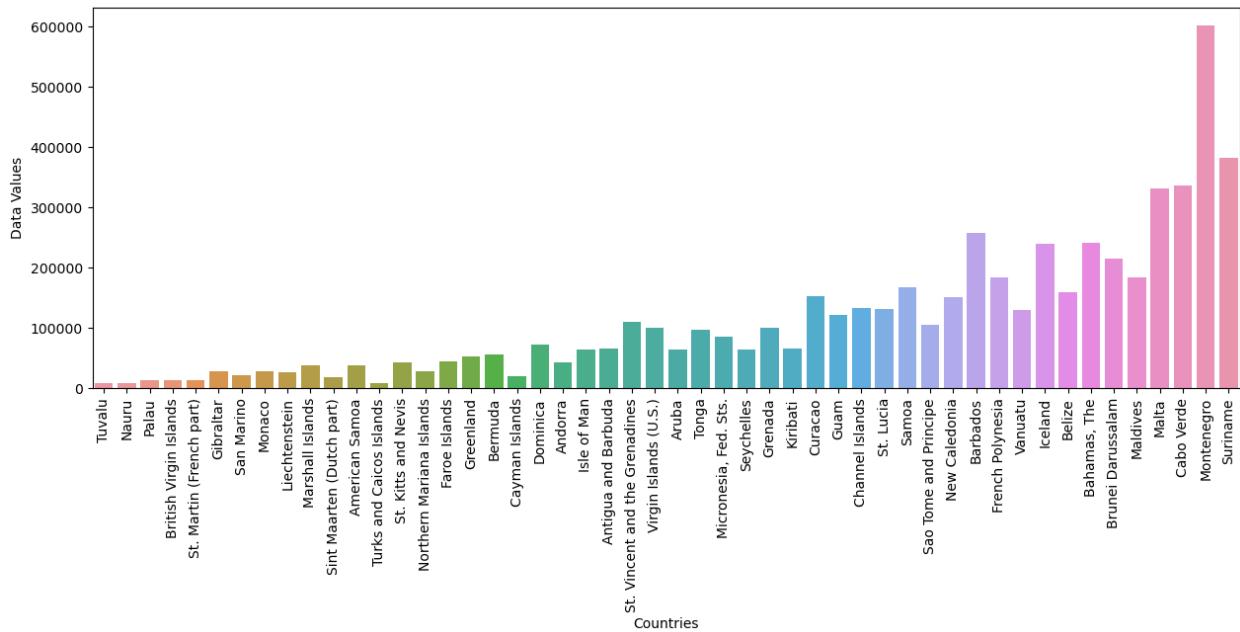




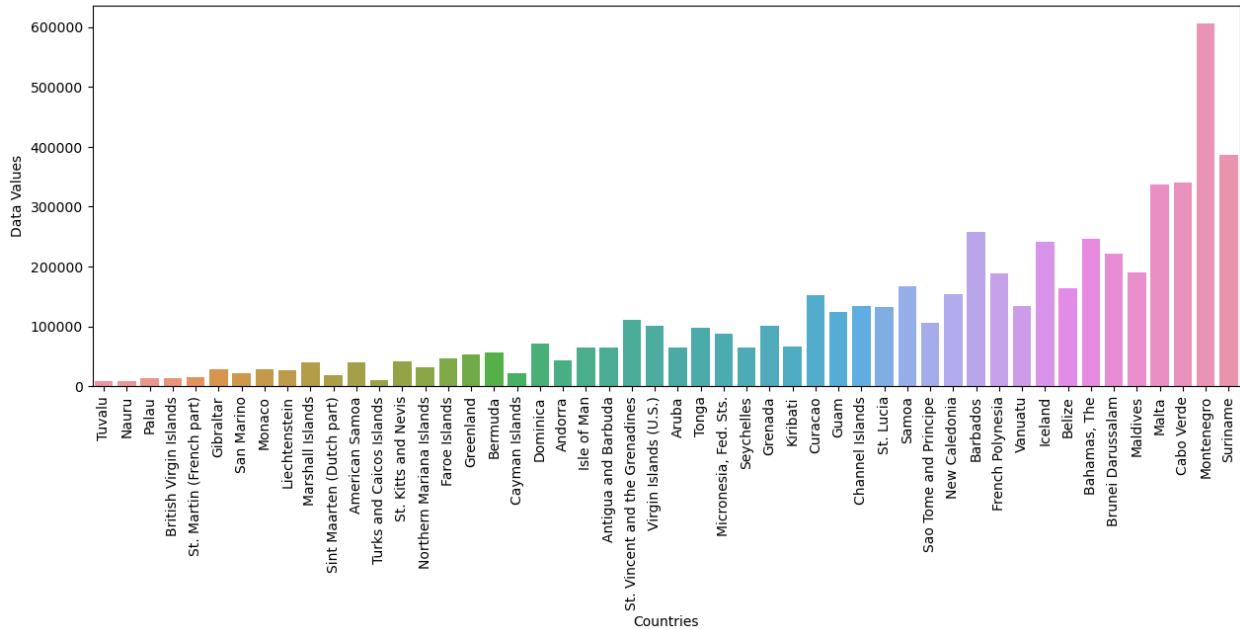
1983 - Data Values from 1960 to 2022



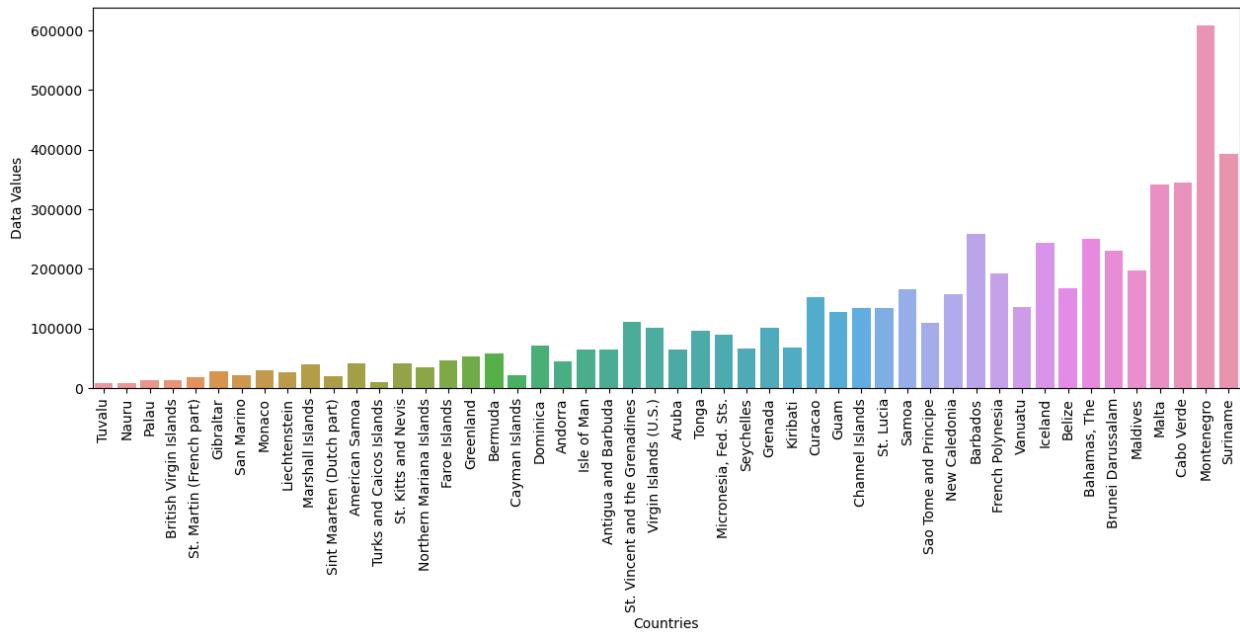
1984 - Data Values from 1960 to 2022



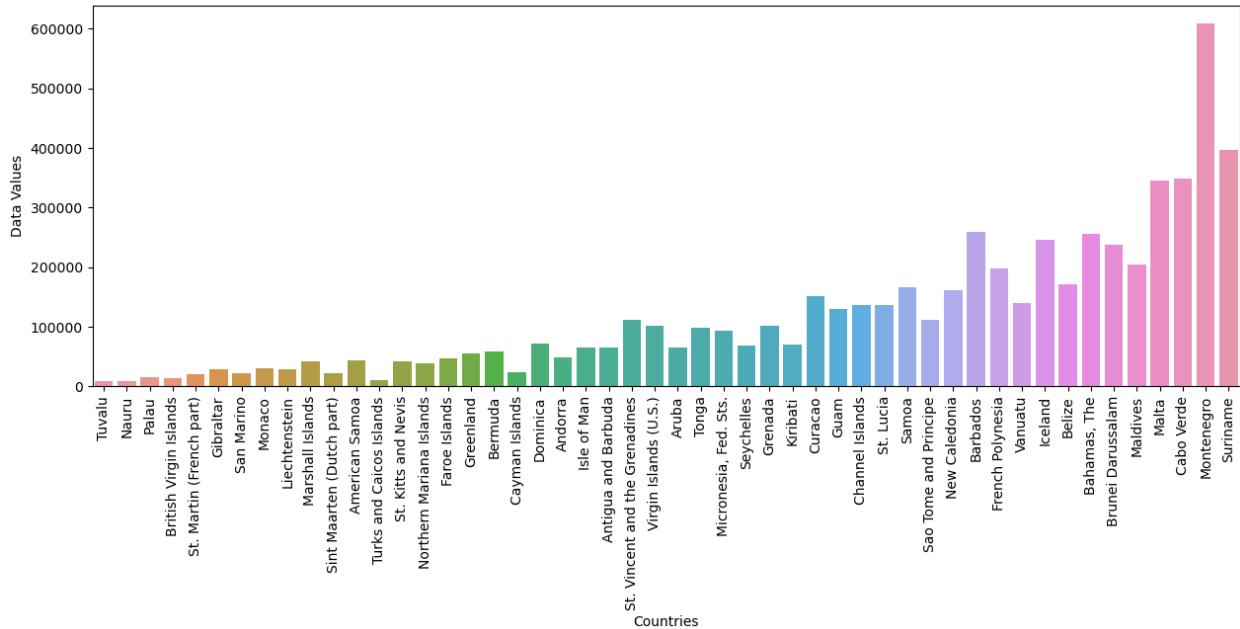
1985 - Data Values from 1960 to 2022



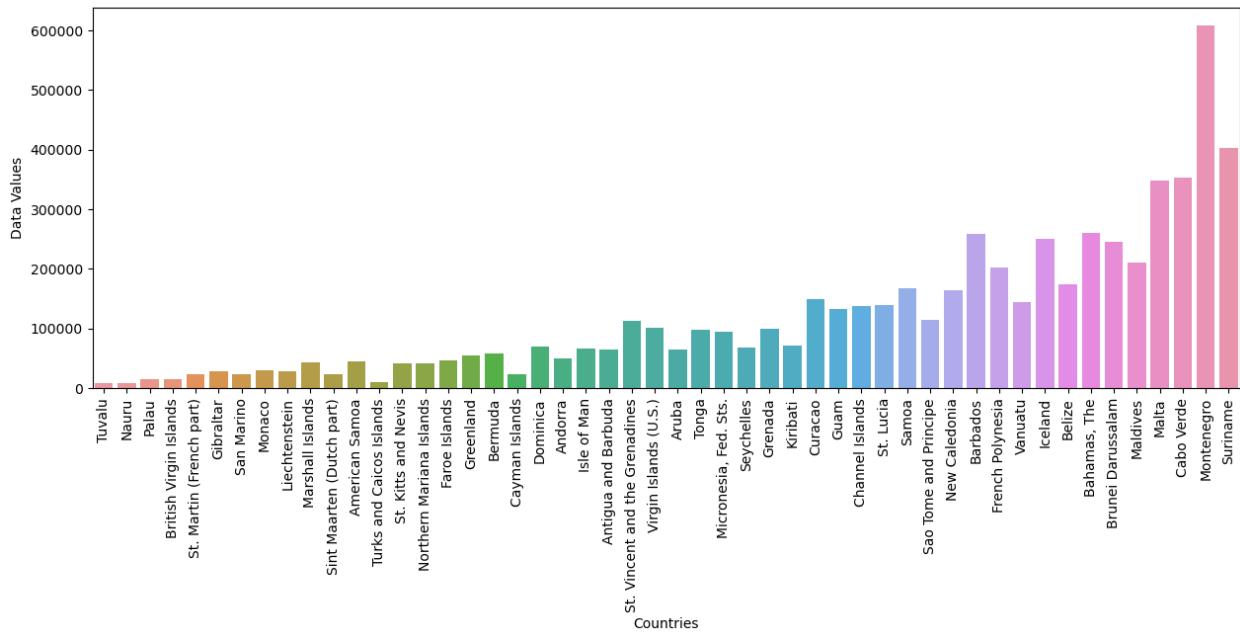
1986 - Data Values from 1960 to 2022



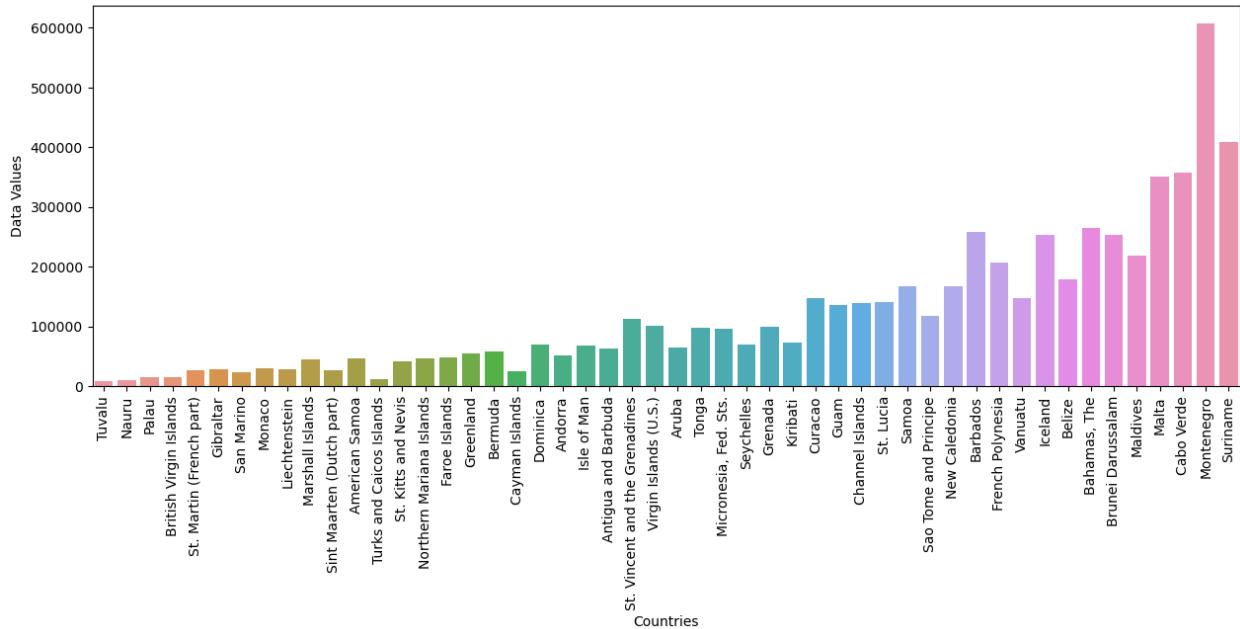
1987 - Data Values from 1960 to 2022



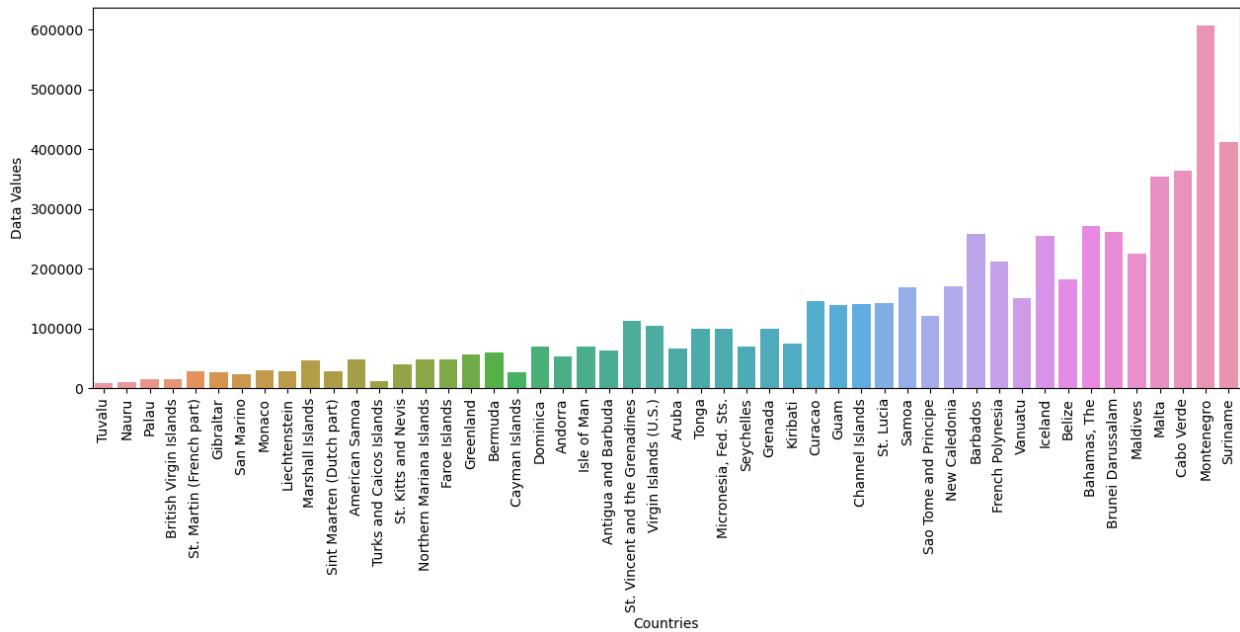
1988 - Data Values from 1960 to 2022



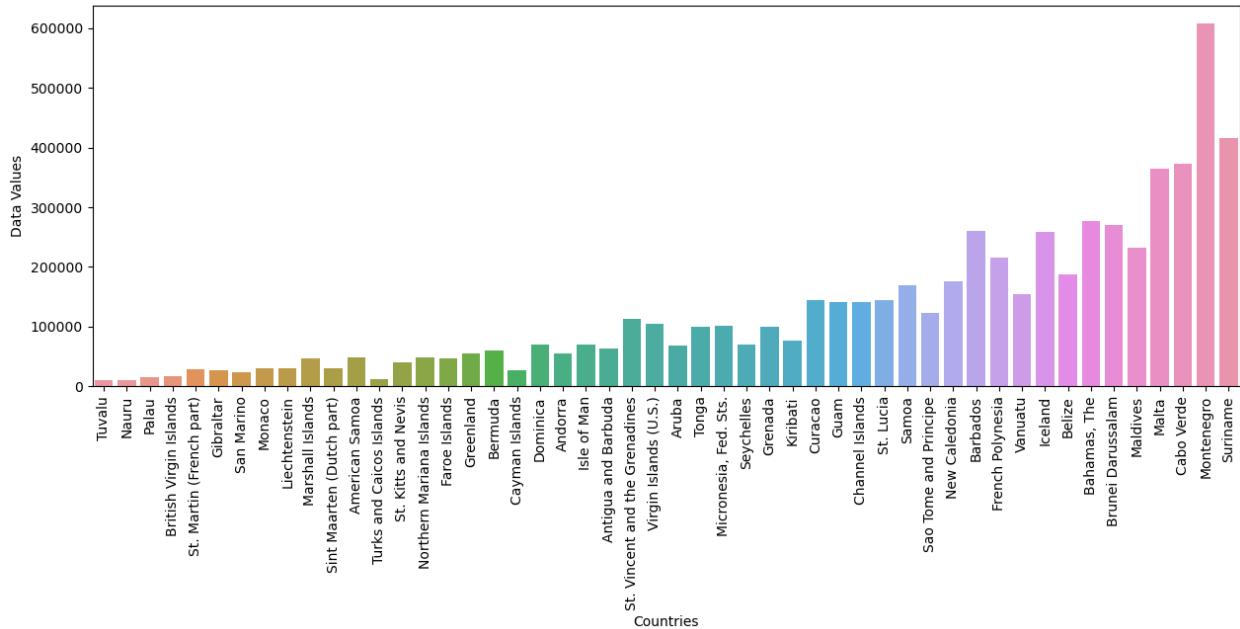
1989 - Data Values from 1960 to 2022



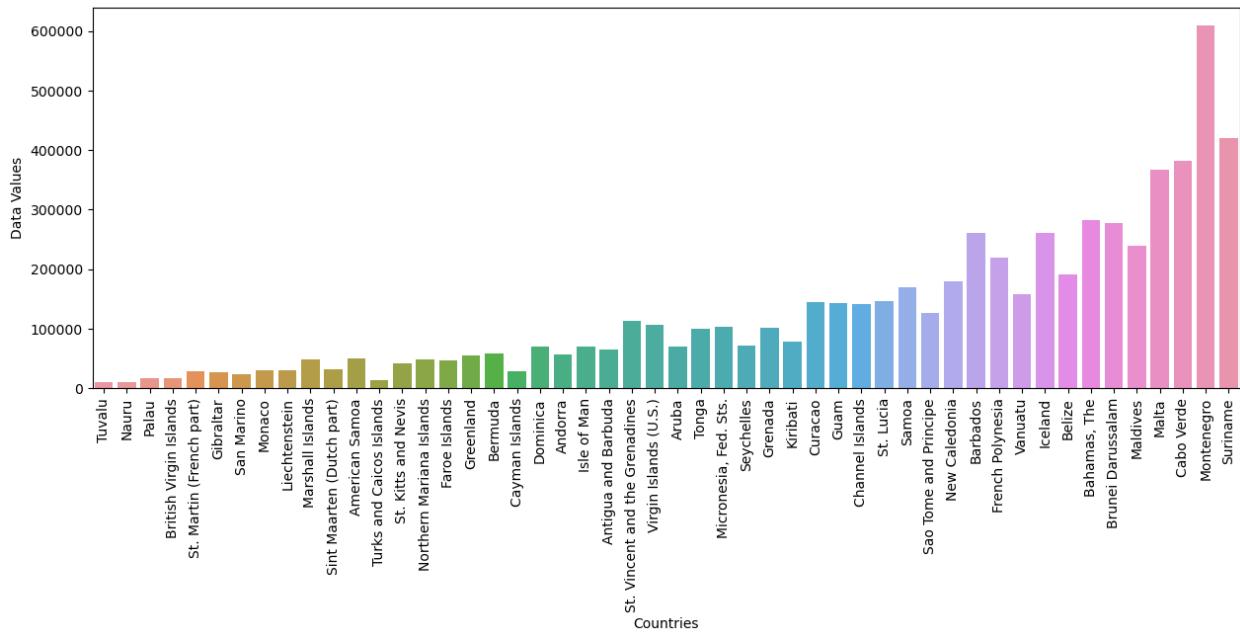
1990 - Data Values from 1960 to 2022



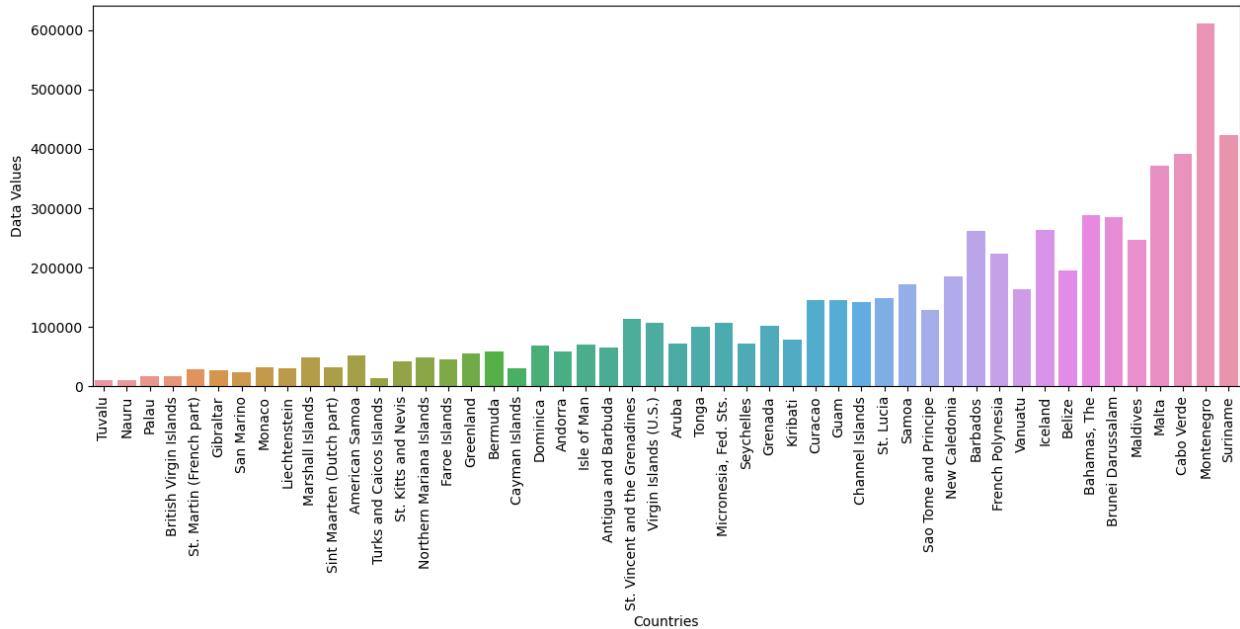
1991 - Data Values from 1960 to 2022



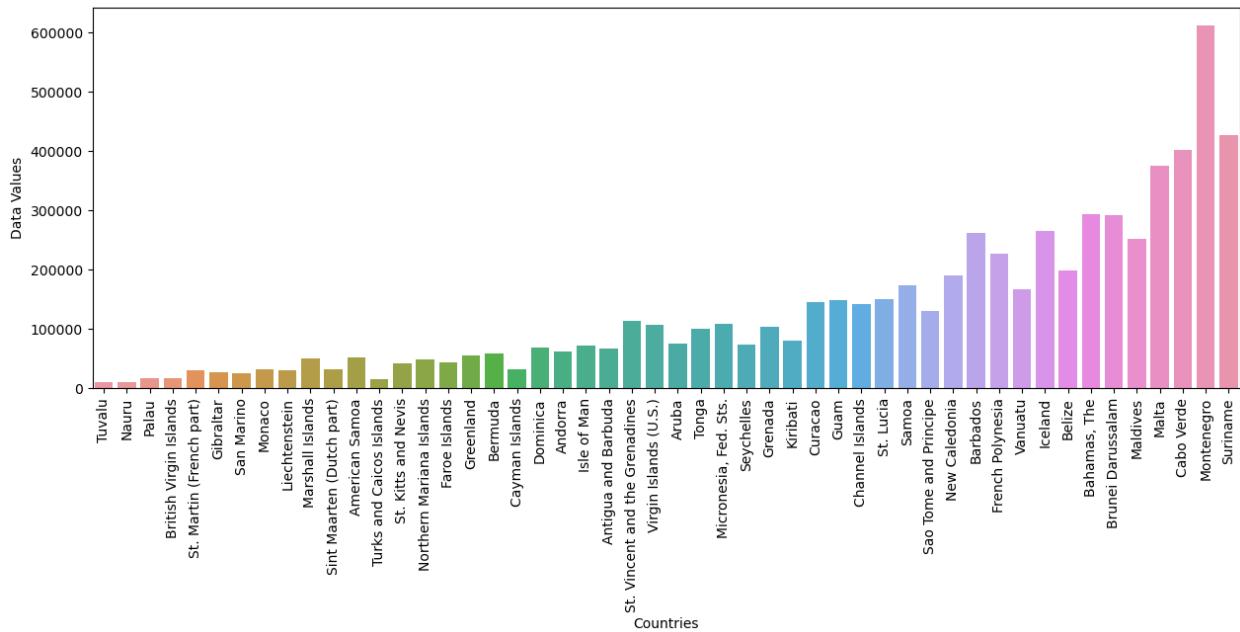
1992 - Data Values from 1960 to 2022



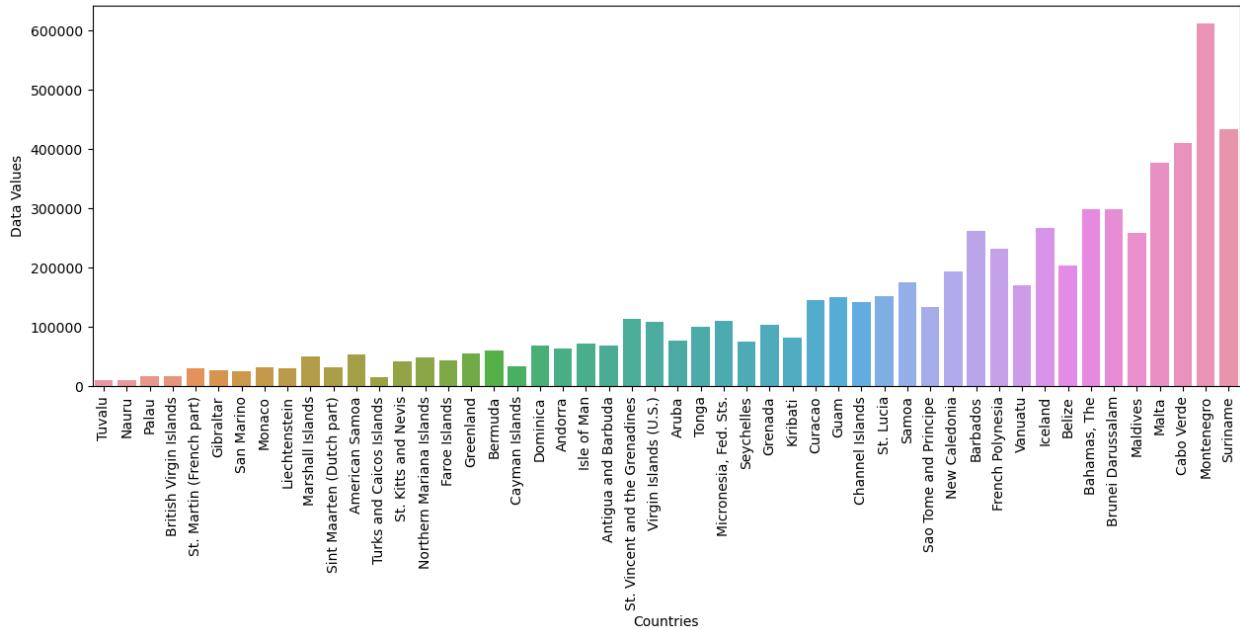
1993 - Data Values from 1960 to 2022



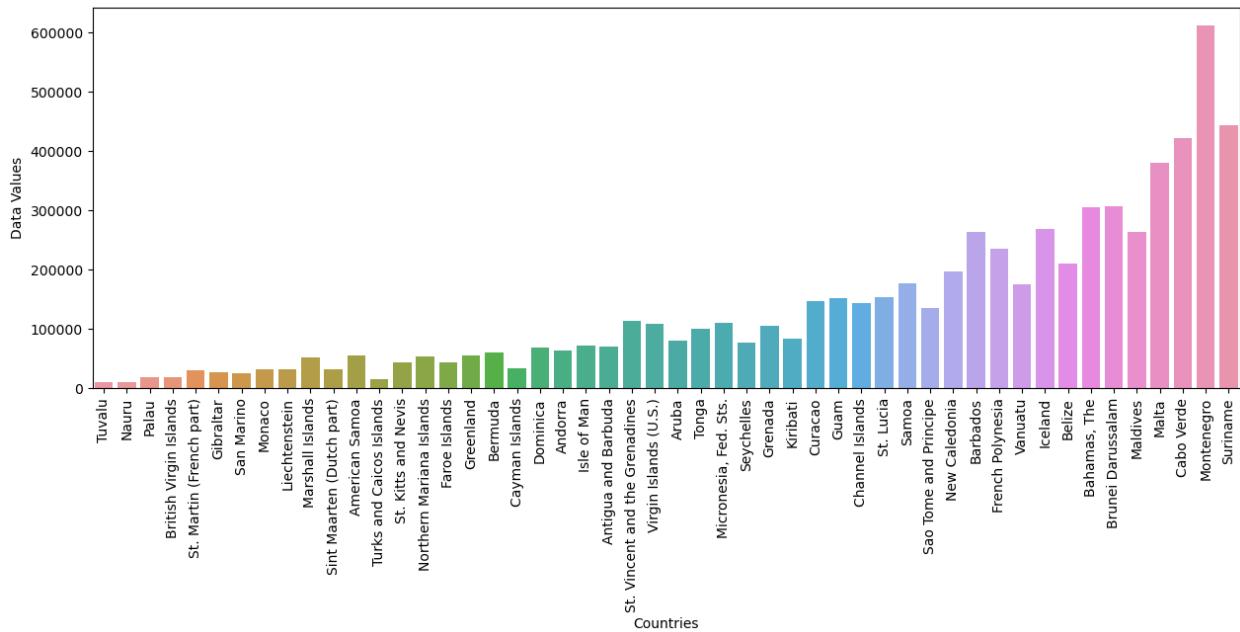
1994 - Data Values from 1960 to 2022



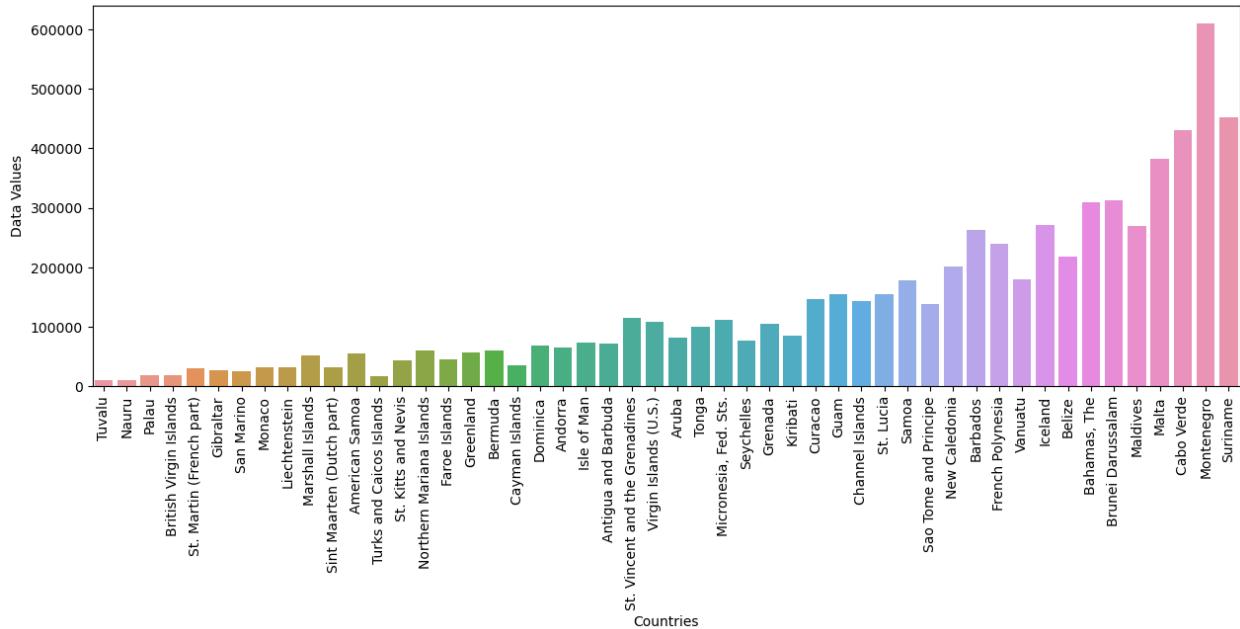
1995 - Data Values from 1960 to 2022



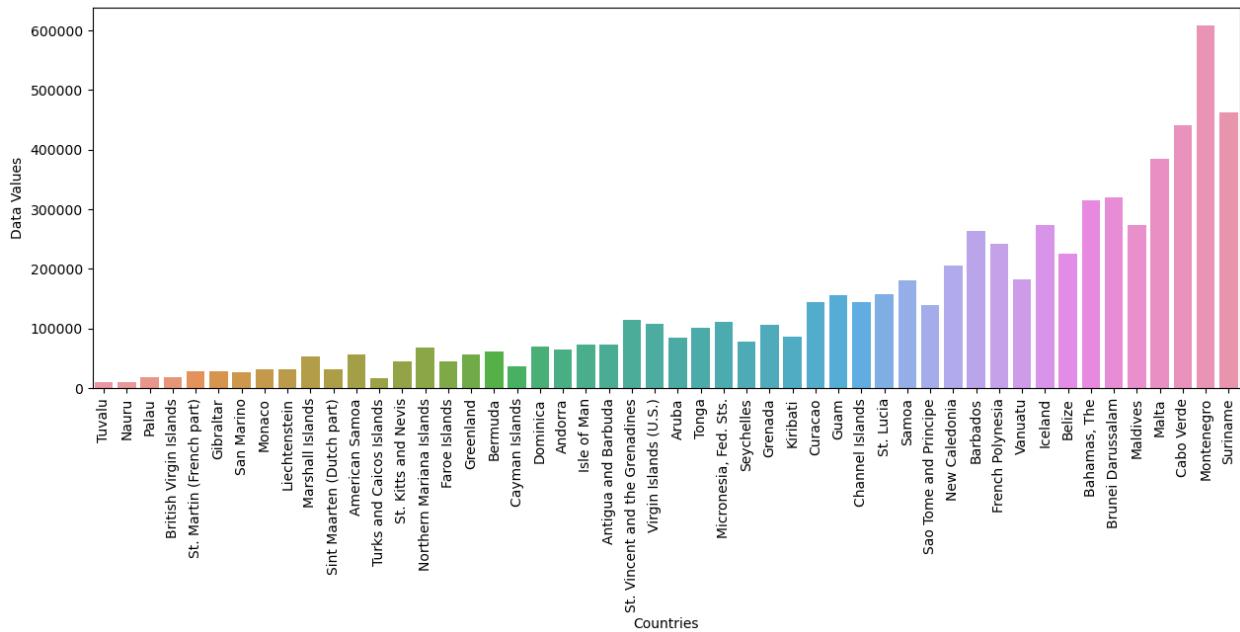
1996 - Data Values from 1960 to 2022



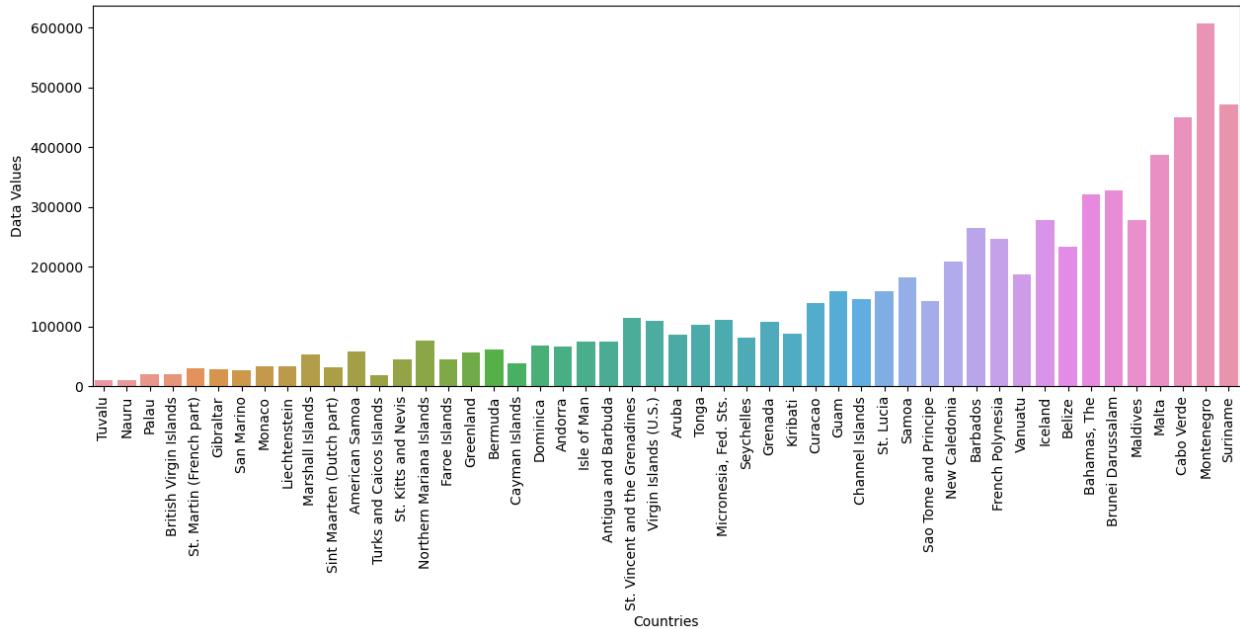
1997 - Data Values from 1960 to 2022



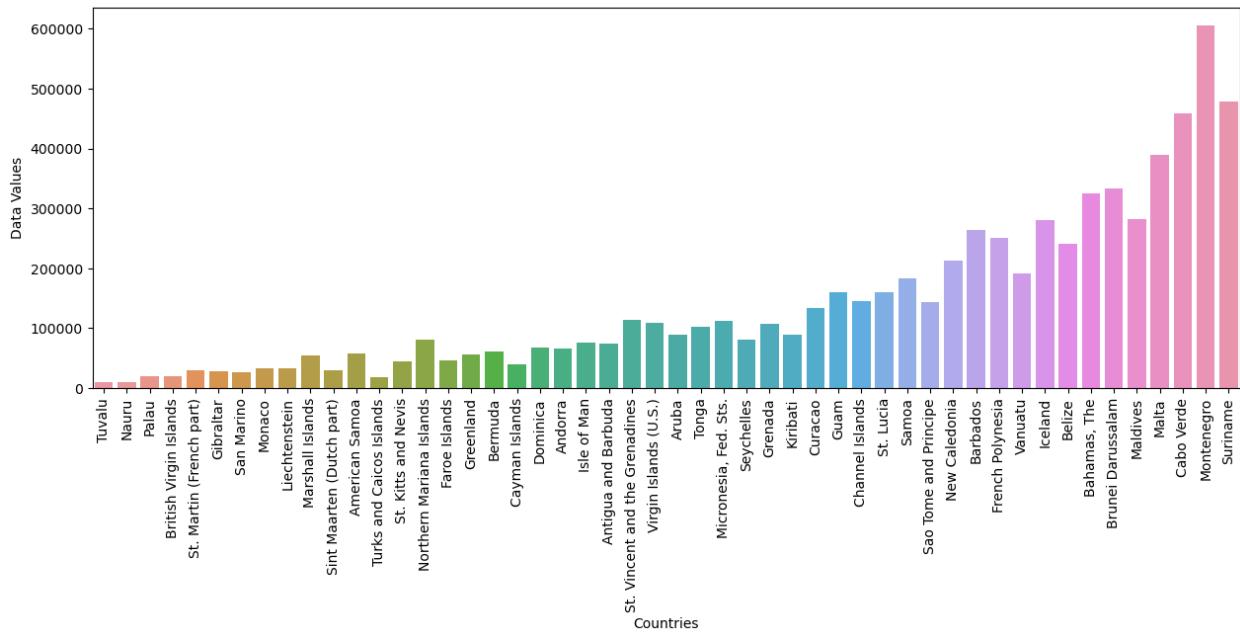
1998 - Data Values from 1960 to 2022



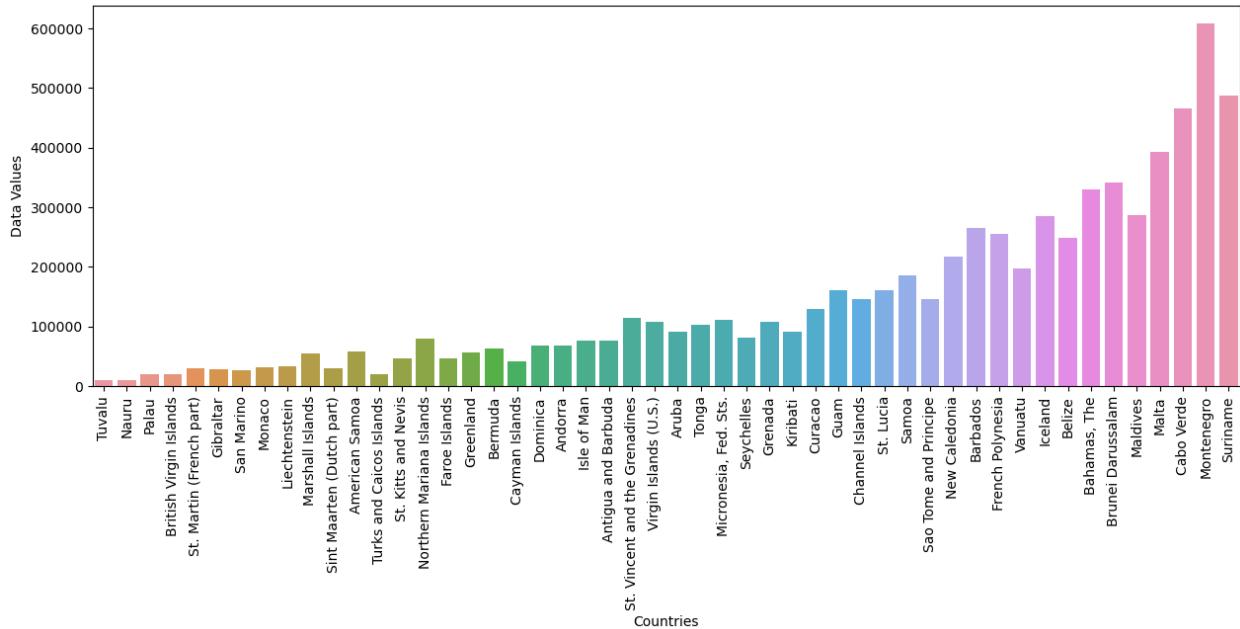
1999 - Data Values from 1960 to 2022



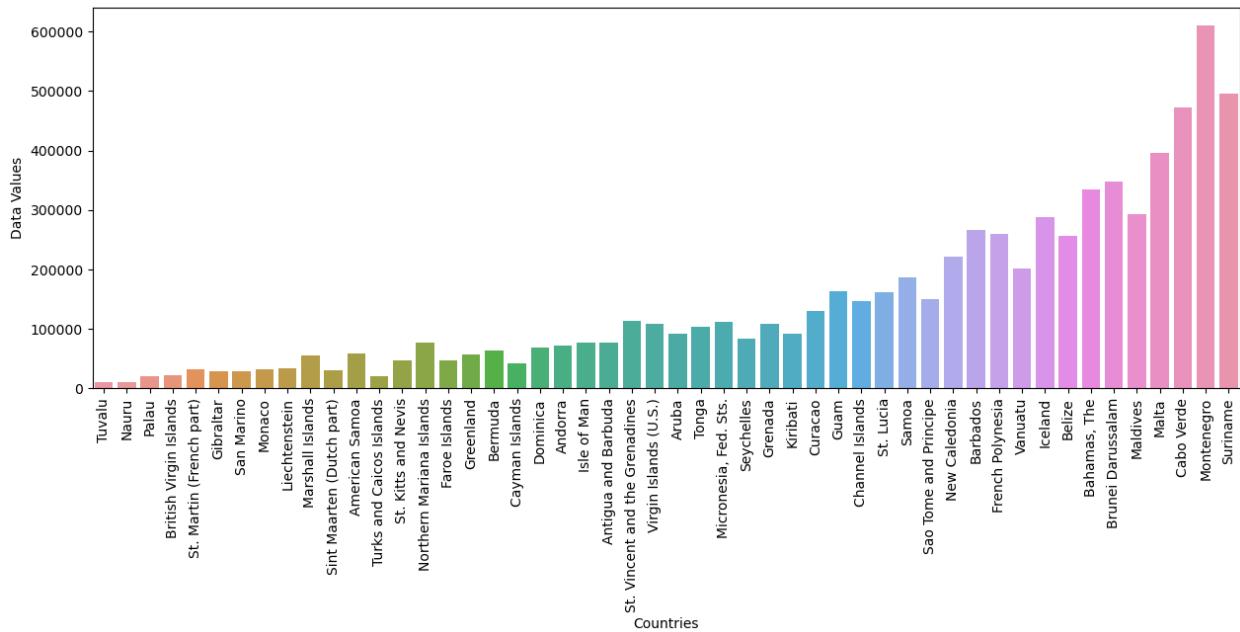
2000 - Data Values from 1960 to 2022



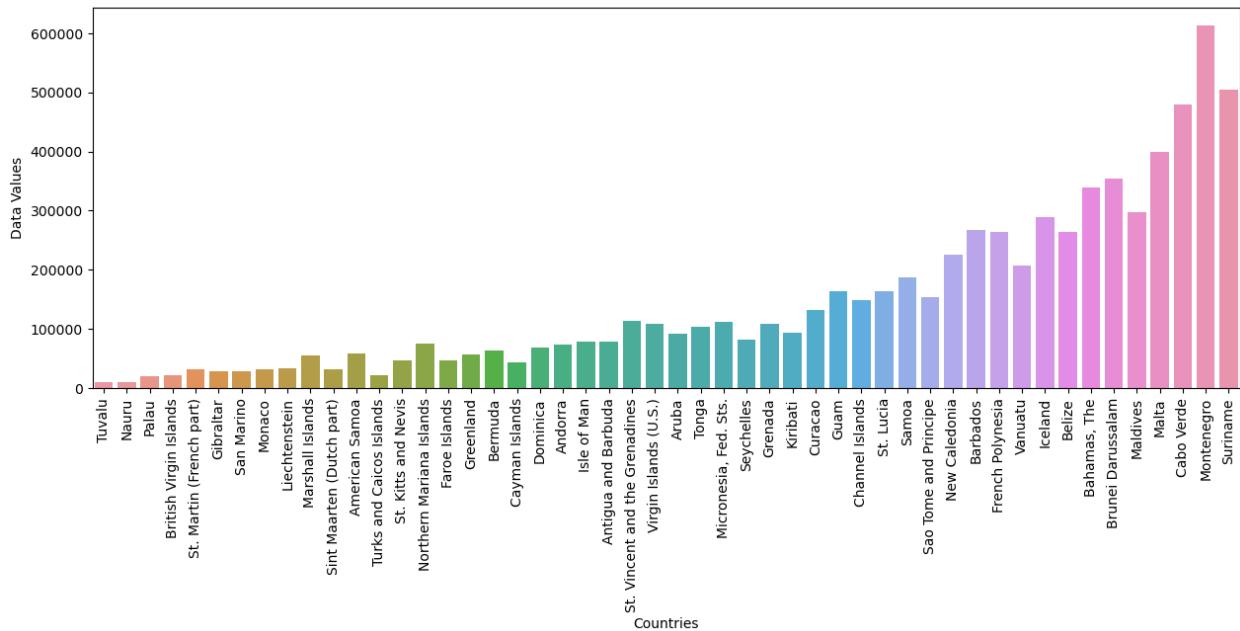
2001 - Data Values from 1960 to 2022



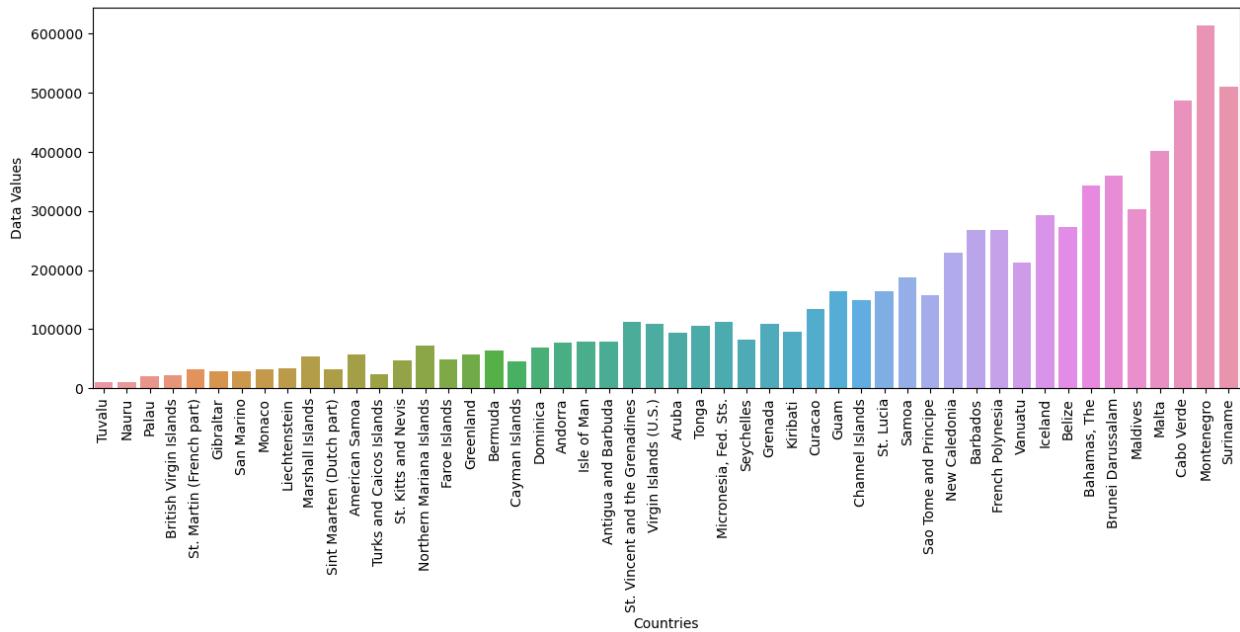
2002 - Data Values from 1960 to 2022



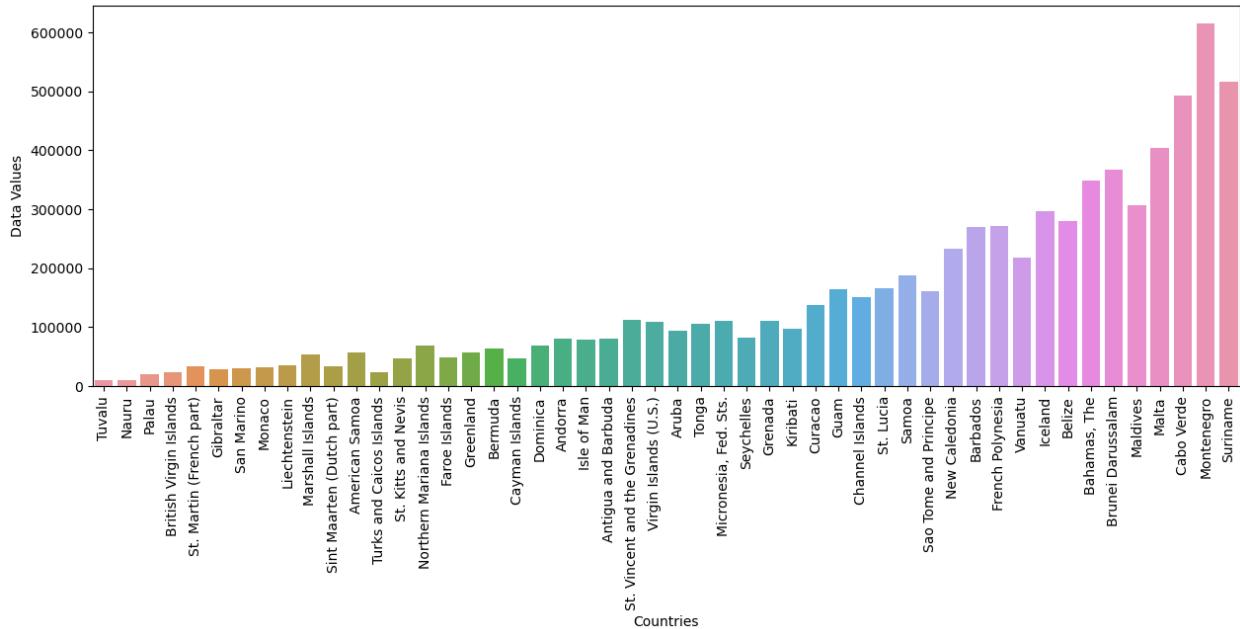
2003 - Data Values from 1960 to 2022



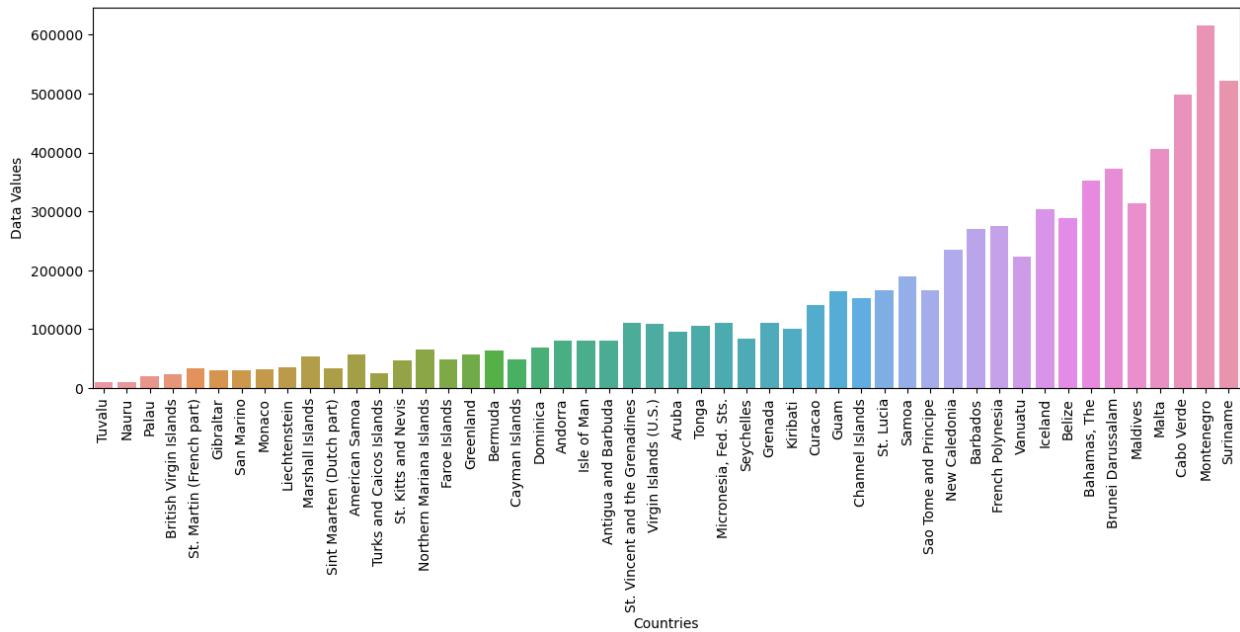
2004 - Data Values from 1960 to 2022



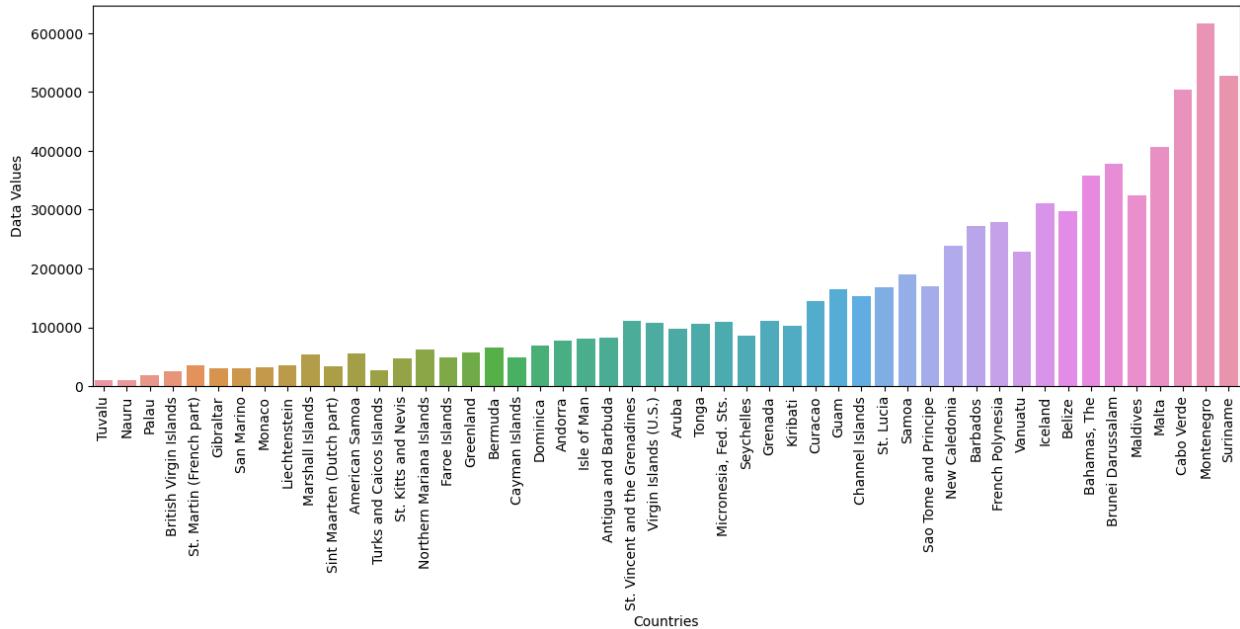
2005 - Data Values from 1960 to 2022



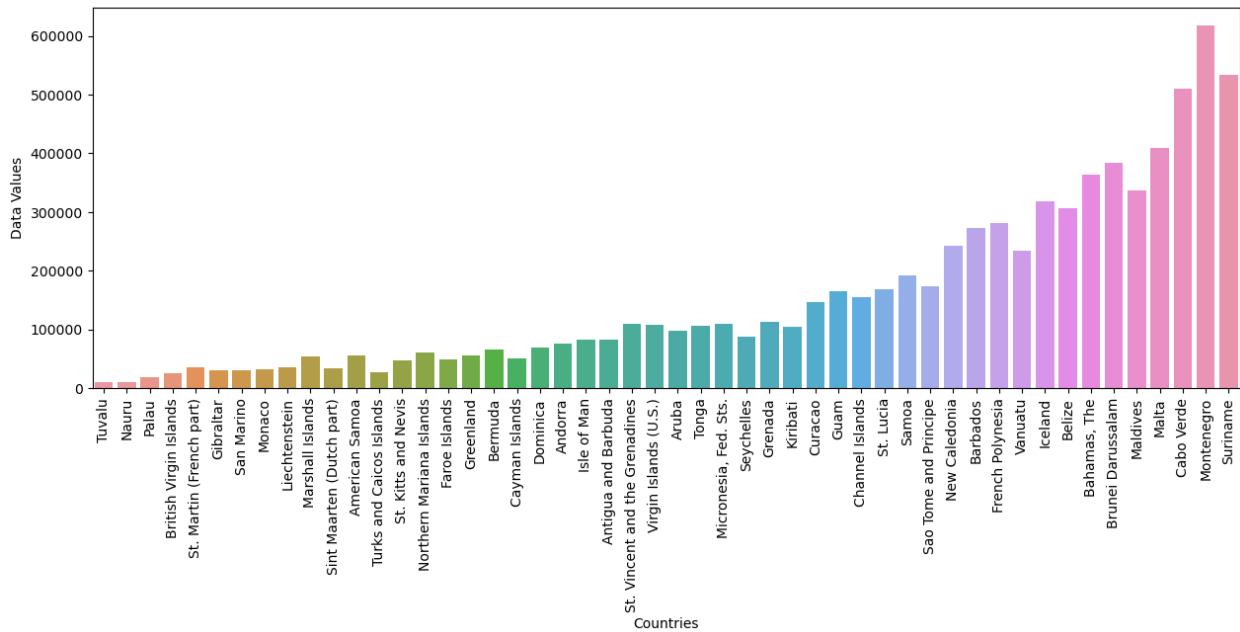
2006 - Data Values from 1960 to 2022



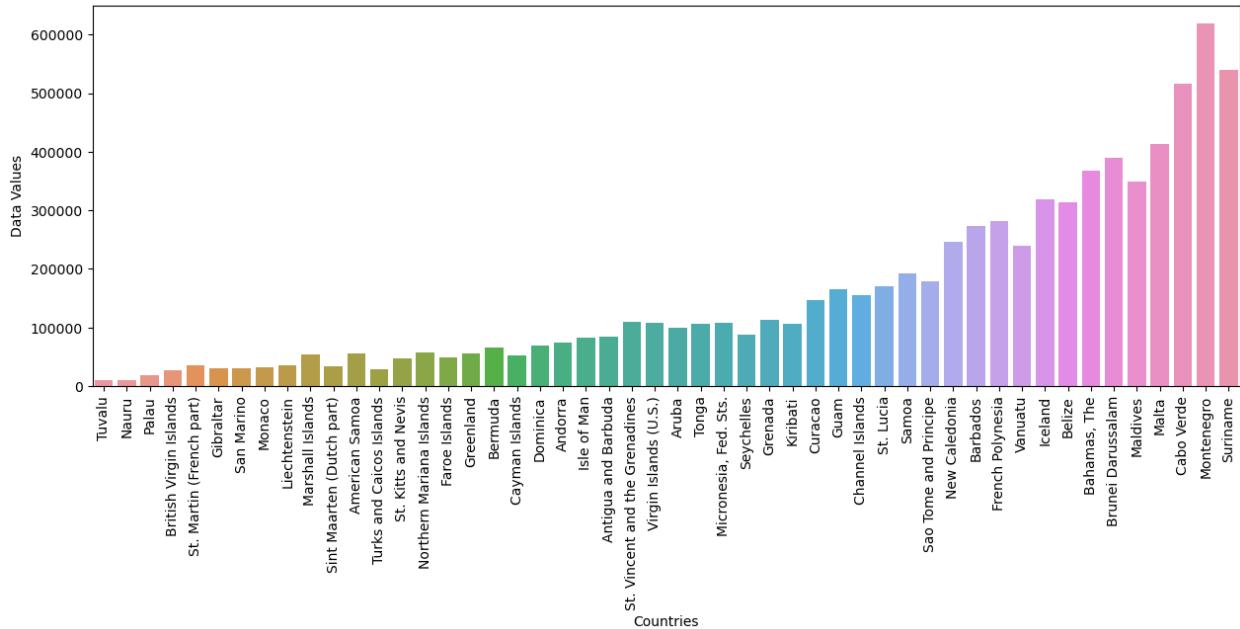
2007 - Data Values from 1960 to 2022



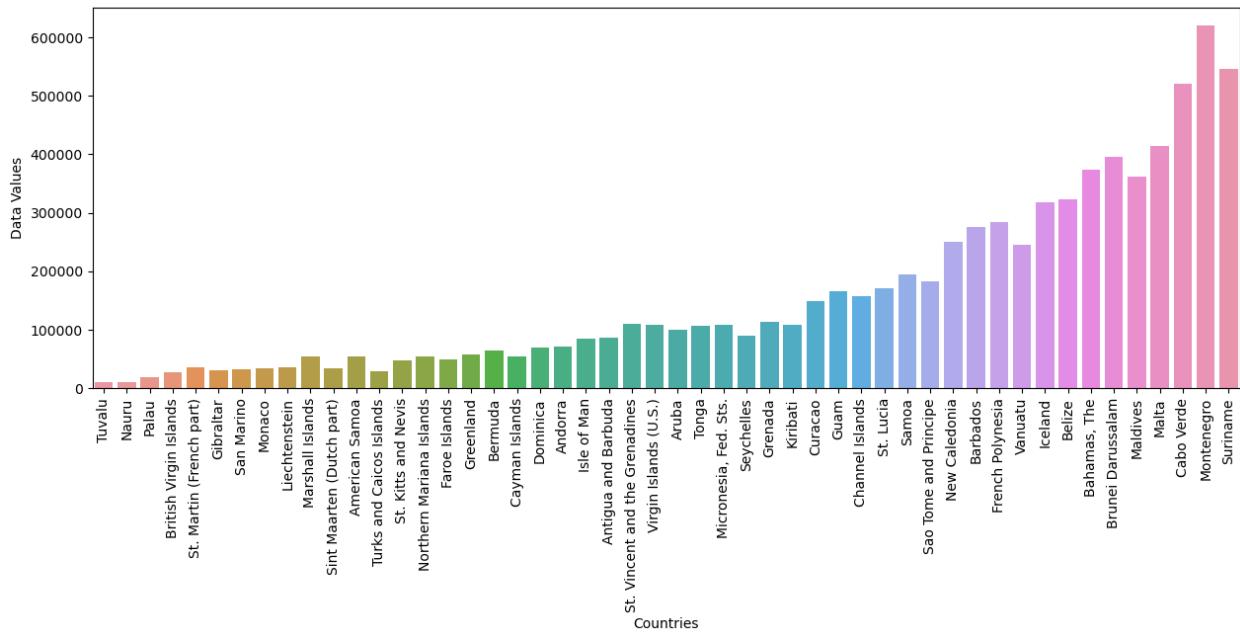
2008 - Data Values from 1960 to 2022



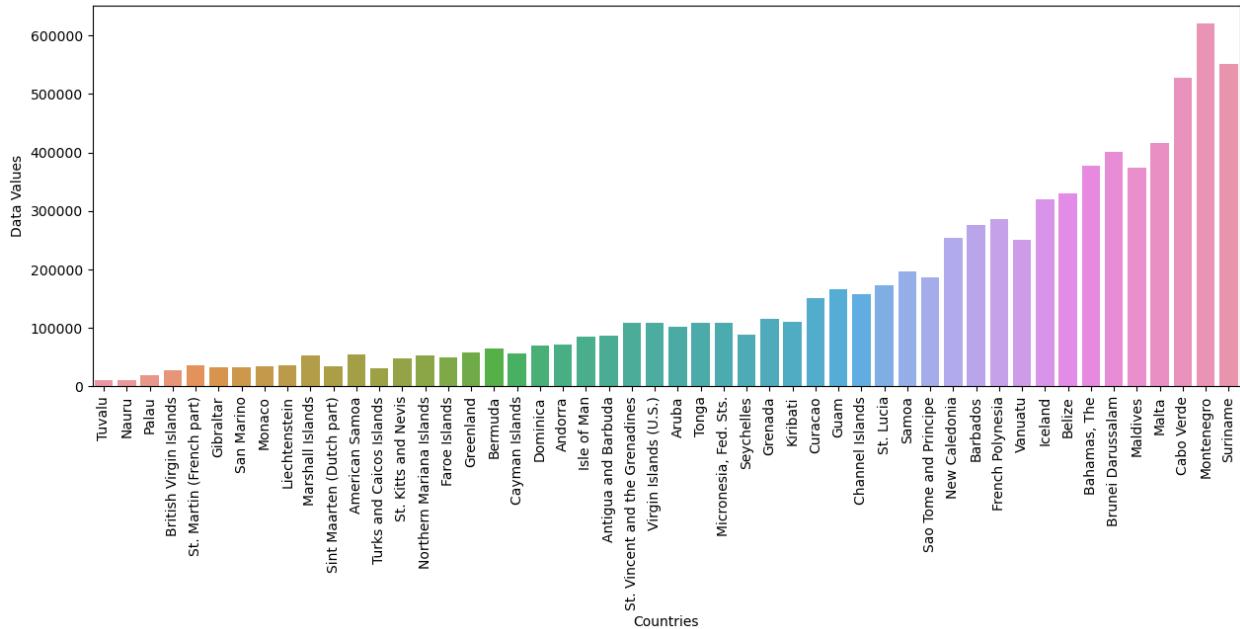
2009 - Data Values from 1960 to 2022



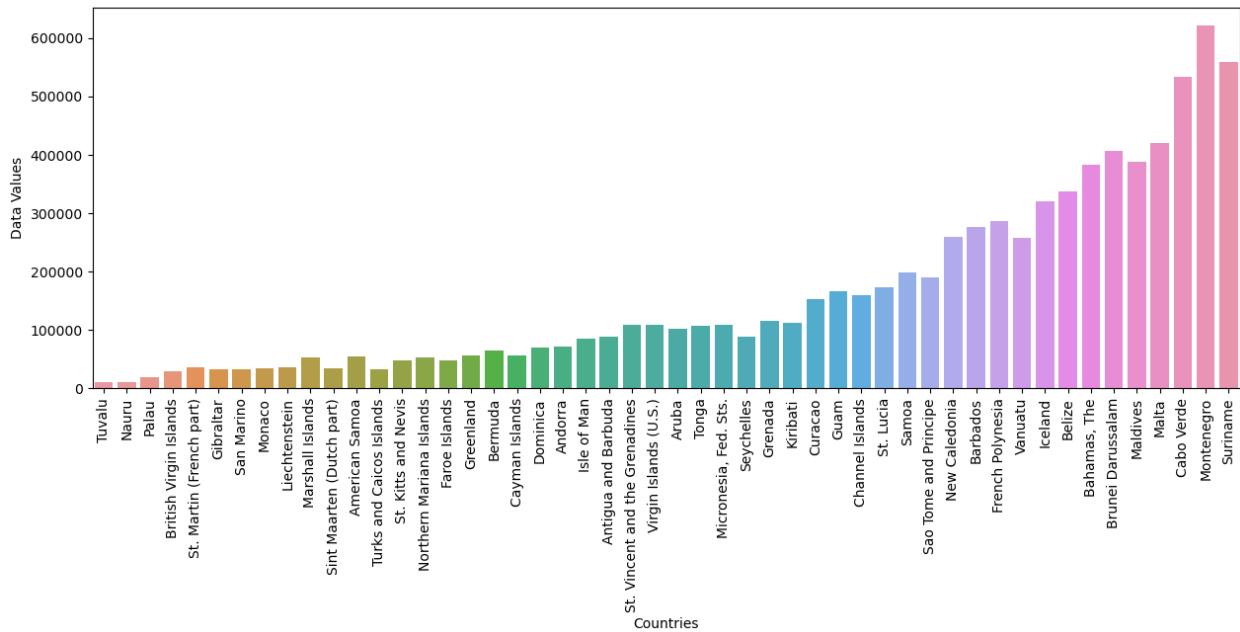
2010 - Data Values from 1960 to 2022



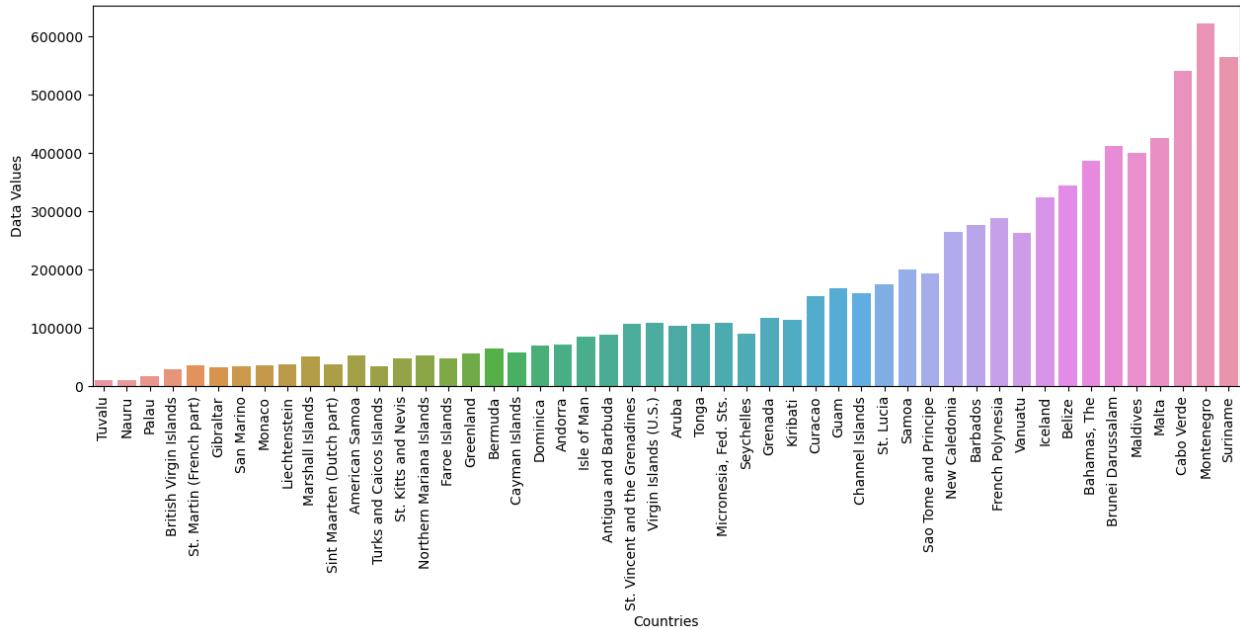
2011 - Data Values from 1960 to 2022



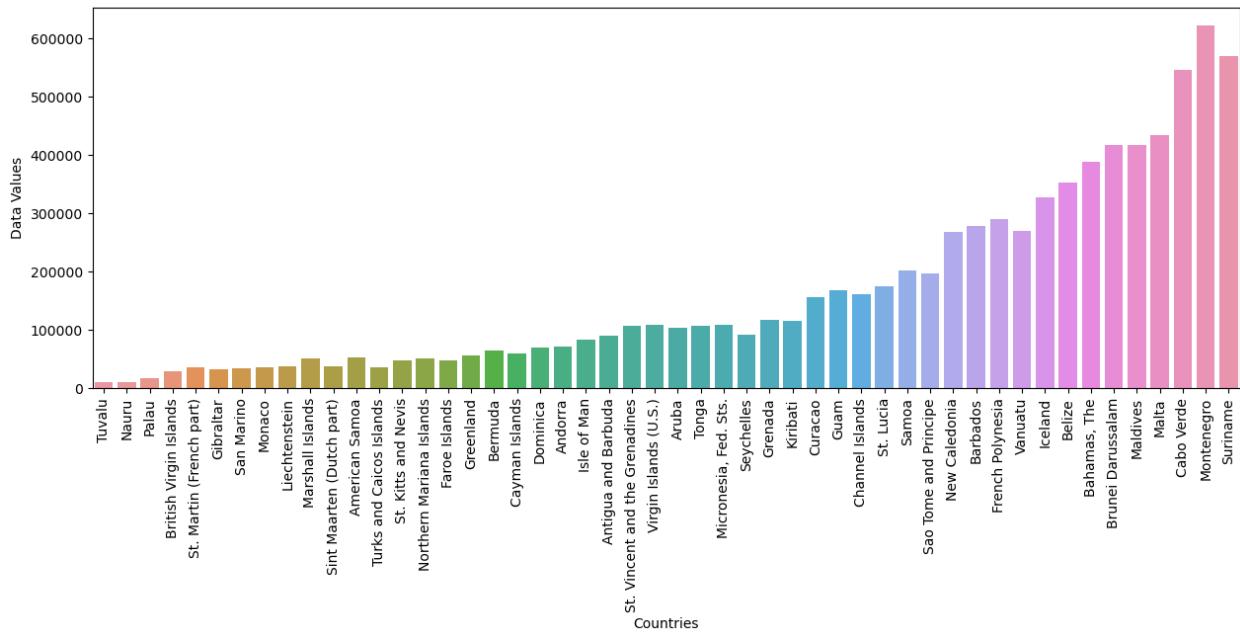
2012 - Data Values from 1960 to 2022



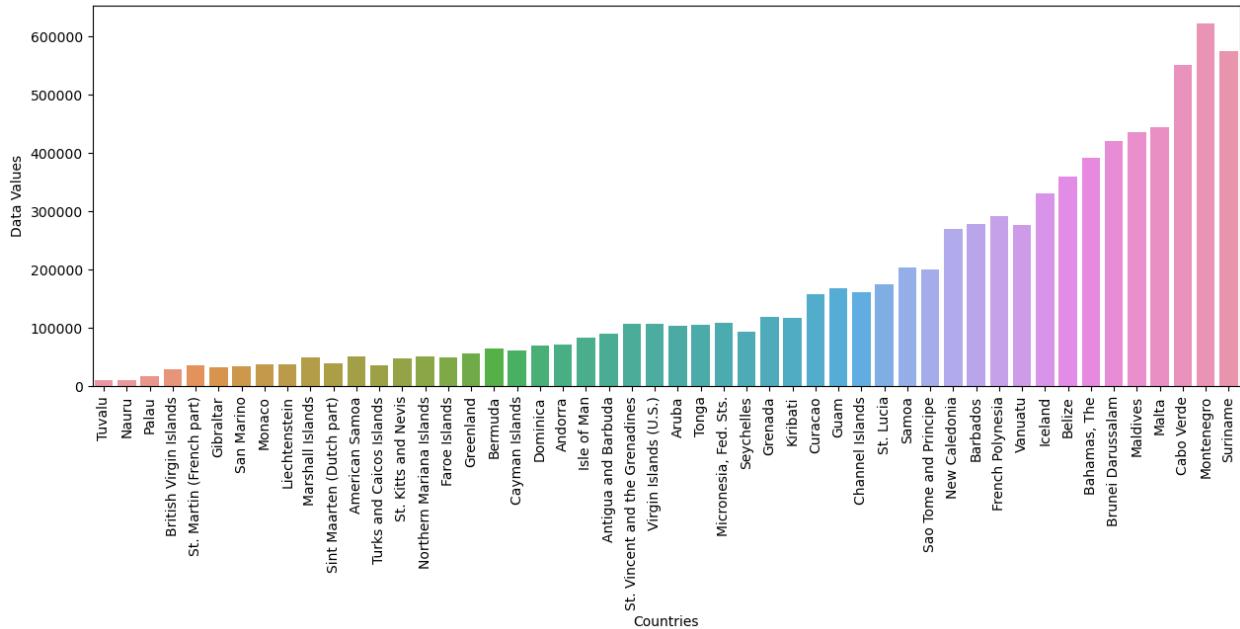
2013 - Data Values from 1960 to 2022



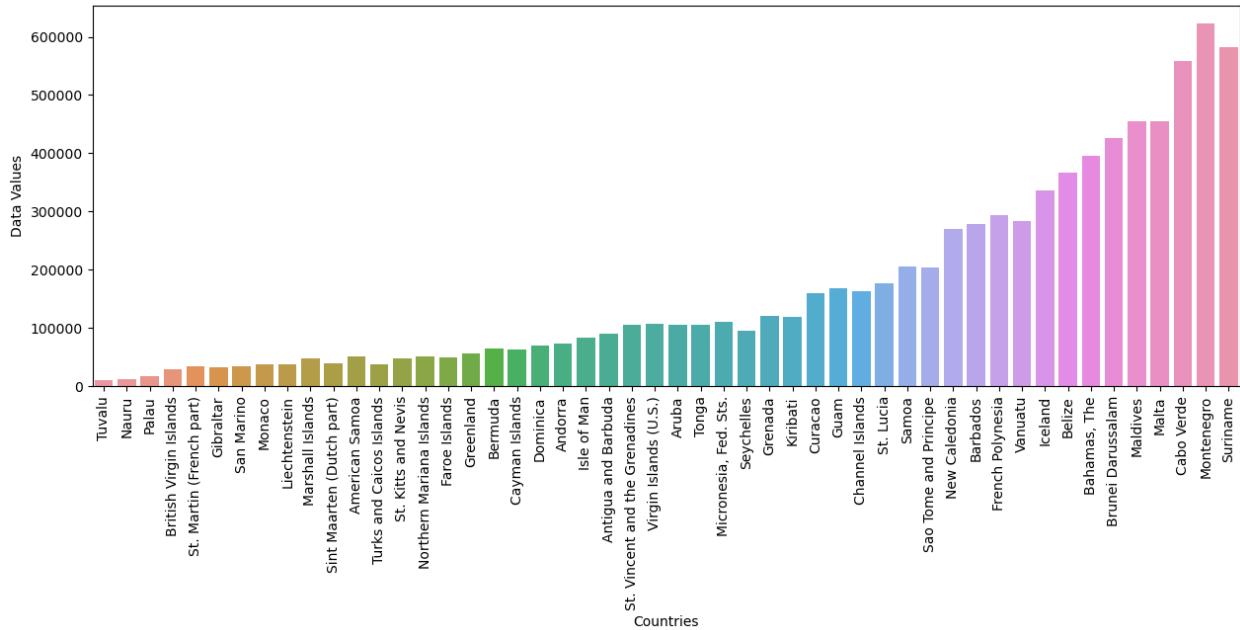
2014 - Data Values from 1960 to 2022



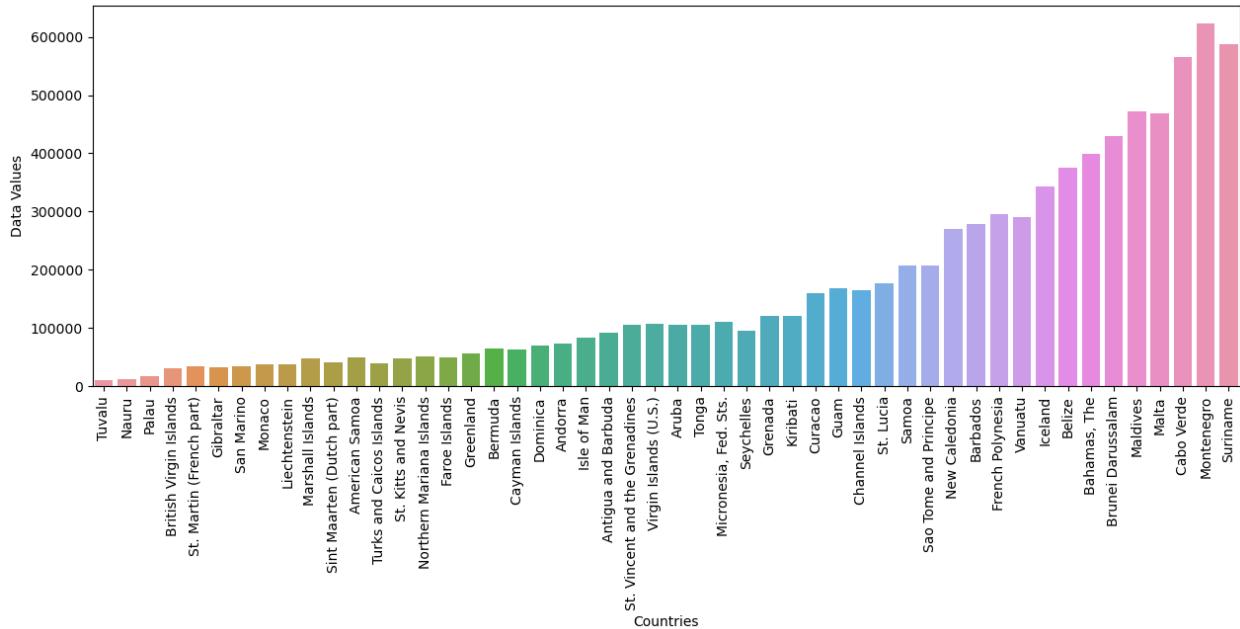
2015 - Data Values from 1960 to 2022



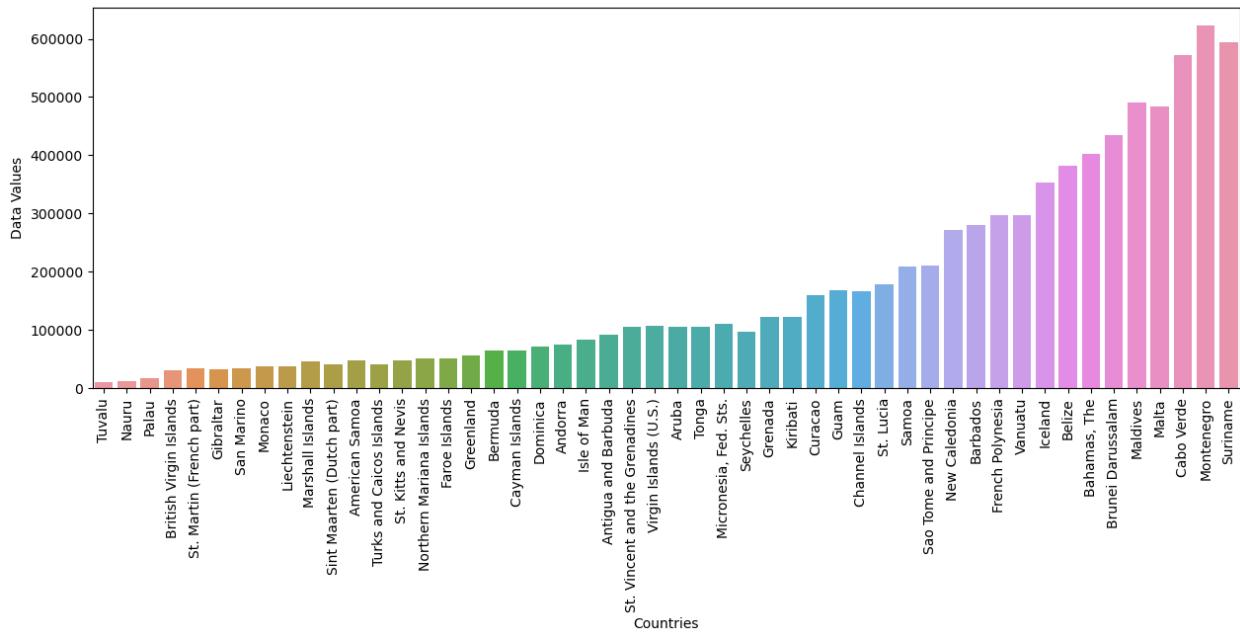
2016 - Data Values from 1960 to 2022



2017 - Data Values from 1960 to 2022



2018 - Data Values from 1960 to 2022



2019 - Data Values from 1960 to 2022

