In [58]:
```
import pandas as pd
from datetime import datetime, timedelta
from matplotlib import pyplot as plt
from matplotlib import dates as mpl_dates
import numpy as np
```

In [59]:
```
df = pd.read_csv(r"C:\Users\ADMIN\OneDrive\API_SP.POP.TOTL_DS2_en_csv_v2_84031.csv")
```

In [60]:
```
df
```

Out[60]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	196
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57475
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630546
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157465
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667517
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599827
...	...	...	...	...	...	...	...	
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0	1022000
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860197
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042215
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431381
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177931

266 rows × 68 columns

In [61]:
```
df.head()
```

Out[61]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	1963
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57475.0
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630546.0
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157465.0
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667517.0
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599827.0

5 rows × 68 columns

In [62]:
```
df.tail()
```

Out[62]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	1963	
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0	1022000.0	1
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860197.0	5
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042215.0	18
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431381.0	3
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177931.0	4

5 rows × 68 columns

In [63]:
```
df.shape
```

Out[63]:
```
(266, 68)
```

In [64]:
```
df.columns
```

Out[64]:
```
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')
```

In [65]:
```
df.dtypes
```

Out[65]:
```
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
```

In [66]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 266 entries, 0 to 265
Data columns (total 68 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
 67  2023            0 non-null      float64
dtypes: float64(64), object(4)
memory usage: 141.4+ KB
```

In [67]:
```
df.describe()
```

Out[67]:

	1960	1961	1962	1963	1964	1965	
count	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+02	2.640000e+02	2.64000(
mean	1.172860e+08	1.188956e+08	1.210661e+08	1.237484e+08	1.264530e+08	1.291965e+08	1.32055{
std	3.695500e+08	3.740958e+08	3.808121e+08	3.895098e+08	3.982497e+08	4.071209e+08	4.16455(
min	2.646000e+03	2.888000e+03	3.171000e+03	3.481000e+03	3.811000e+03	4.161000e+03	4.53100(
25%	5.132212e+05	5.231345e+05	5.337595e+05	5.449288e+05	5.566630e+05	5.651150e+05	5.69147(
50%	3.757486e+06	3.887144e+06	4.023896e+06	4.139356e+06	4.224612e+06	4.277636e+06	4.33182{
75%	2.670606e+07	2.748694e+07	2.830289e+07	2.914708e+07	3.001684e+07	3.084892e+07	3.16301(
max	3.031474e+09	3.072422e+09	3.126850e+09	3.193429e+09	3.260442e+09	3.328209e+09	3.39848(

8 rows × 64 columns

In [68]:
```
df.duplicated().sum()
```

Out[68]:
```
0
```

In [69]:
```
df.isna().sum().any()
```

Out[69]:
```
True
```

In [70]:
```
df = df.fillna(method = "ffill")
df.head()
```

Out[70]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	1963
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57475.0
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630546.0
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157465.0
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667517.0
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599827.0

5 rows × 68 columns

In [71]:
```
df.isna().sum().any()
```

Out[71]:
```
True
```

In [72]:
```
df["Country Name"].unique()
```

Out[72]:
```
array(['Aruba', 'Africa Eastern and Southern', 'Afghanistan',
       'Africa Western and Central', 'Angola', 'Albania', 'Andorra',
       'Arab World', 'United Arab Emirates', 'Argentina', 'Armenia',
       'American Samoa', 'Antigua and Barbuda', 'Australia', 'Austria',
       'Azerbaijan', 'Burundi', 'Belgium', 'Benin', 'Burkina Faso',
       'Bangladesh', 'Bulgaria', 'Bahrain', 'Bahamas, The',
       'Bosnia and Herzegovina', 'Belarus', 'Belize', 'Bermuda',
       'Bolivia', 'Brazil', 'Barbados', 'Brunei Darussalam', 'Bhutan',
       'Botswana', 'Central African Republic', 'Canada',
       'Central Europe and the Baltics', 'Switzerland', 'Channel Islands',
       'Chile', 'China', "Cote d'Ivoire", 'Cameroon', 'Congo, Dem. Rep.',
       'Congo, Rep.', 'Colombia', 'Comoros', 'Cabo Verde', 'Costa Rica',
       'Caribbean small states', 'Cuba', 'Curacao', 'Cayman Islands',
       'Cyprus', 'Czechia', 'Germany', 'Djibouti', 'Dominica', 'Denmark',
       'Dominican Republic', 'Algeria',
       'East Asia & Pacific (excluding high income)',
       'Early-demographic dividend', 'East Asia & Pacific',
       '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)
```

In [73]:
```
df["Country Code"].unique()
```

Out[73]:
```
array(['ABW', 'AFE', 'AFG', 'AFW', 'AGO', 'ALB', 'AND', 'ARB', 'ARE',
       'ARG', 'ARM', 'ASM', 'ATG', 'AUS', 'AUT', 'AZE', 'BDI', 'BEL',
       'BEN', 'BFA', 'BGD', 'BGR', 'BHR', 'BHS', 'BIH', 'BLR', 'BLZ',
       'BMU', 'BOL', 'BRA', 'BRB', 'BRN', 'BTN', 'BWA', 'CAF', 'CAN',
       'CEB', 'CHE', 'CHI', 'CHL', 'CHN', 'CIV', 'CMR', 'COD', 'COG',
       'COL', 'COM', 'CPV', 'CRI', 'CSS', 'CUB', 'CUW', 'CYM', 'CYP',
       'CZE', 'DEU', 'DJI', 'DMA', 'DNK', 'DOM', 'DZA', 'EAP', 'EAR',
       'EAS', 'ECA', 'ECS', 'ECU', 'EGY', 'EMU', 'ERI', 'ESP', 'EST',
       'ETH', 'EUU', 'FCS', 'FIN', 'FJI', 'FRA', 'FRO', 'FSM', 'GAB',
       'GBR', 'GEO', 'GHA', 'GIB', 'GIN', 'GMB', 'GNB', 'GNQ', 'GRC',
       'GRD', 'GRL', 'GTM', 'GUM', 'GUY', 'HIC', 'HKG', 'HND', 'HPC',
       'HRV', 'HTI', 'HUN', 'IBD', 'IBT', 'IDA', 'IDB', 'IDN', 'IDX',
       'IMN', 'IND', 'INX', 'IRL', 'IRN', 'IRQ', 'ISL', 'ISR', 'ITA',
       'JAM', 'JOR', 'JPN', 'KAZ', 'KEN', 'KGZ', 'KHM', 'KIR', 'KNA',
       'KOR', 'KWT', 'LAC', 'LAO', 'LBN', 'LBR', 'LBY', 'LCA', 'LCN',
       'LDC', 'LIC', 'LIE', 'LKA', 'LMC', 'LMY', 'LSO', 'LTE', 'LTU',
       'LUX', 'LVA', 'MAC', 'MAF', 'MAR', 'MCO', 'MDA', 'MDG', 'MDV',
       'MEA', 'MEX', 'MHL', 'MIC', 'MKD', 'MLI', 'MLT', 'MMR', 'MNA',
       'MNE', 'MNG', 'MNP', 'MOZ', 'MRT', 'MUS', 'MWI', 'MYS', 'NAC',
       'NAM', 'NCL', 'NER', 'NGA', 'NIC', 'NLD', 'NOR', 'NPL', 'NRU',
       'NZL', 'OED', 'OMN', 'OSS', 'PAK', 'PAN', 'PER', 'PHL', 'PLW',
       'PNG', 'POL', 'PRE', 'PRI', 'PRK', 'PRT', 'PRY', 'PSE', 'PSS',
       'PST', 'PYF', 'QAT', 'ROU', 'RUS', 'RWA', 'SAS', 'SAU', 'SDN',
       'SEN', 'SGP', 'SLB', 'SLE', 'SLV', 'SMR', 'SOM', 'SRB', 'SSA',
       'SSD', 'SSF', 'SST', 'STP', 'SUR', 'SVK', 'SVN', 'SWE', 'SWZ',
       'SXM', 'SYC', 'SYR', 'TCA', 'TCD', 'TEA', 'TEC', 'TGO', 'THA',
       'TJK', 'TKM', 'TLA', 'TLS', 'TMN', 'TON', 'TSA', 'TSS', 'TTO',
       'TUN', 'TUR', 'TUV', 'TZA', 'UGA', 'UKR', 'UMC', 'URY', 'USA',
       'UZB', 'VCT', 'VEN', 'VGB', 'VIR', 'VNM', 'VUT', 'WLD', 'WSM',
       'XKX', 'YEM', 'ZAF', 'ZMB', 'ZWE'], dtype=object)
```

In [74]:
```
df['Indicator Name'].unique()
```

Out[74]:
```
array(['Population, total'], dtype=object)
```

In [75]:
```
df['Indicator Code'].unique()
```

Out[75]:
```
array(['SP.POP.TOTL'], dtype=object)
```

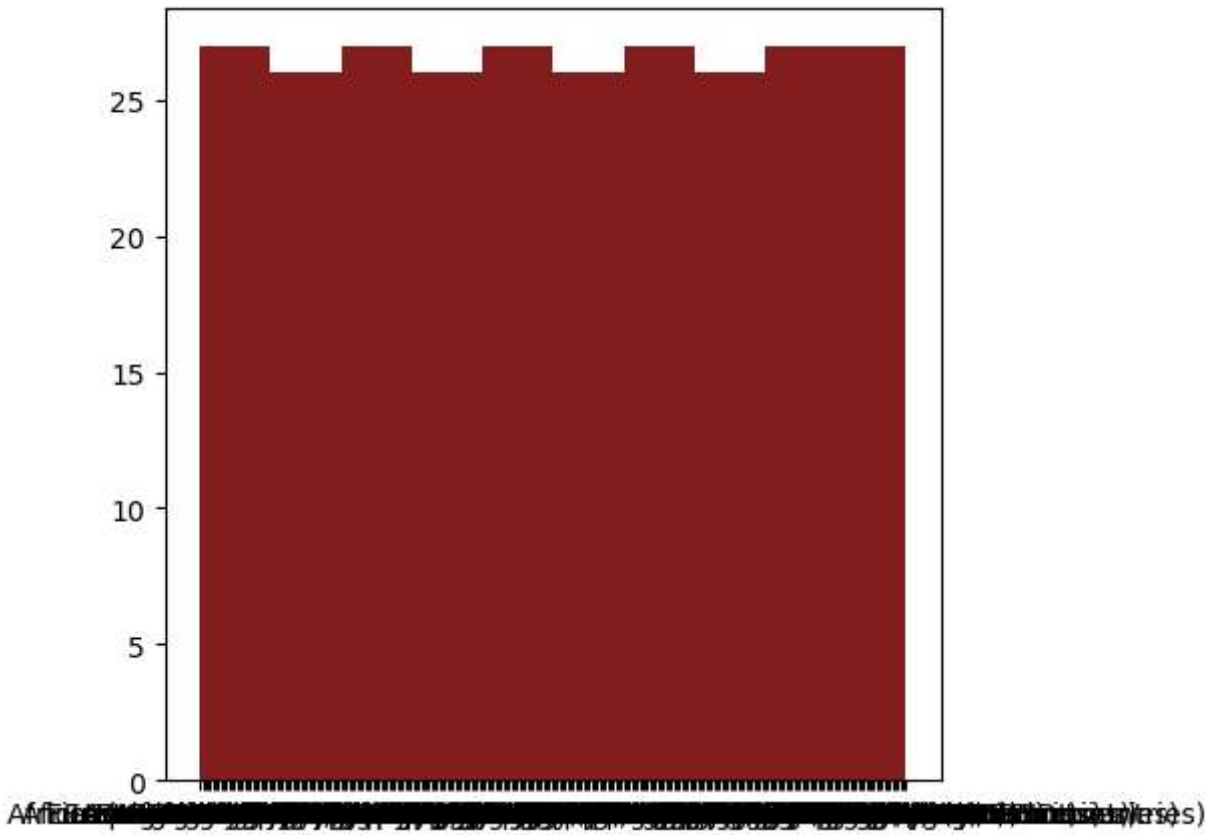
In [76]:
```
df.drop(['Indicator Name','Indicator Code','Country Code'],axis = 1, inplace = True)
```

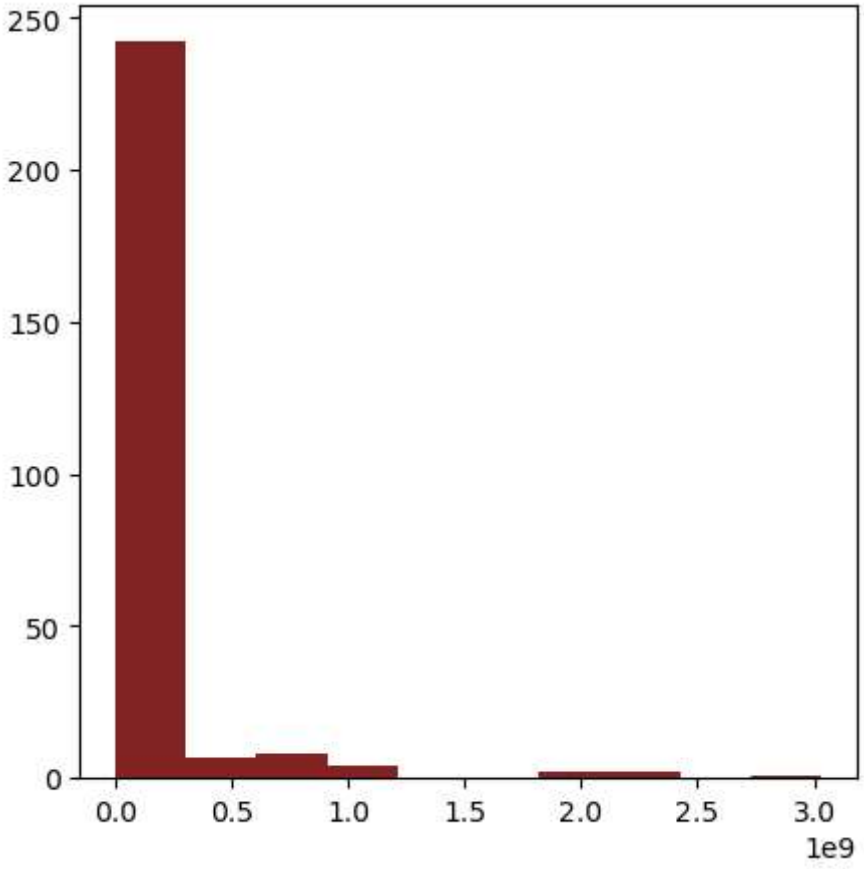
In [77]:
```
df.columns
```

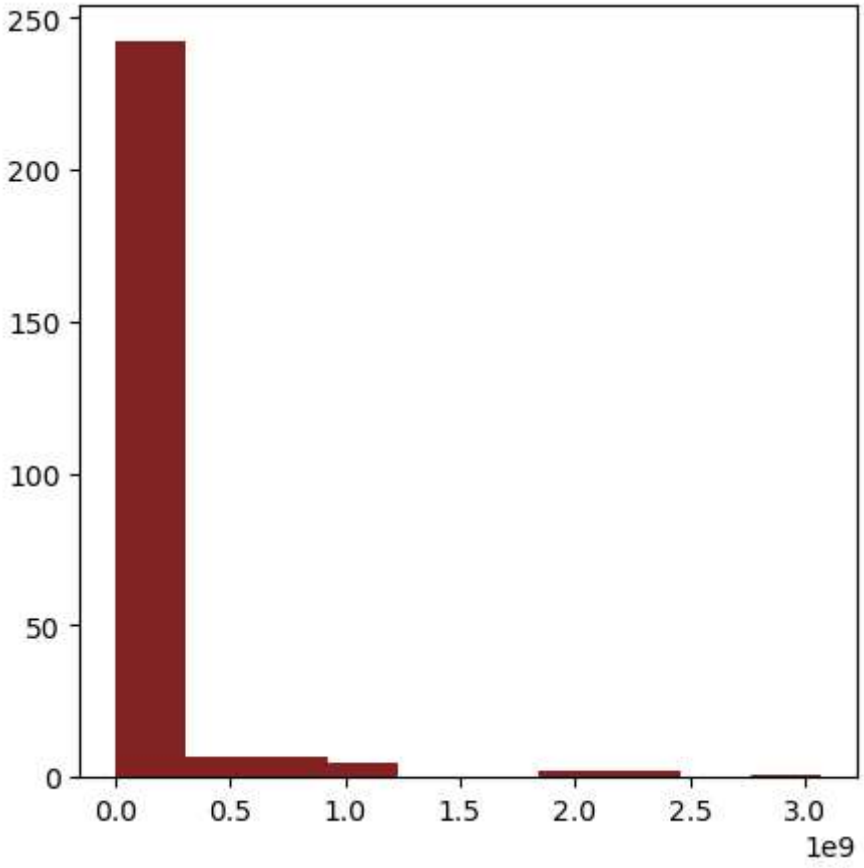
Out[77]:
```
Index(['Country Name', '1960', '1961', '1962', '1963', '1964', '1965', '1966',
       '1967', '1968', '1969', '1970', '1971', '1972', '1973', '1974', '1975',
       '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983', '1984',
       '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992', '1993',
       '1994', '1995', '1996', '1997', '1998', '1999', '2000', '2001', '2002',
       '2003', '2004', '2005', '2006', '2007', '2008', '2009', '2010', '2011',
       '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '2020',
       '2021', '2022', '2023'],
      dtype='object')
```

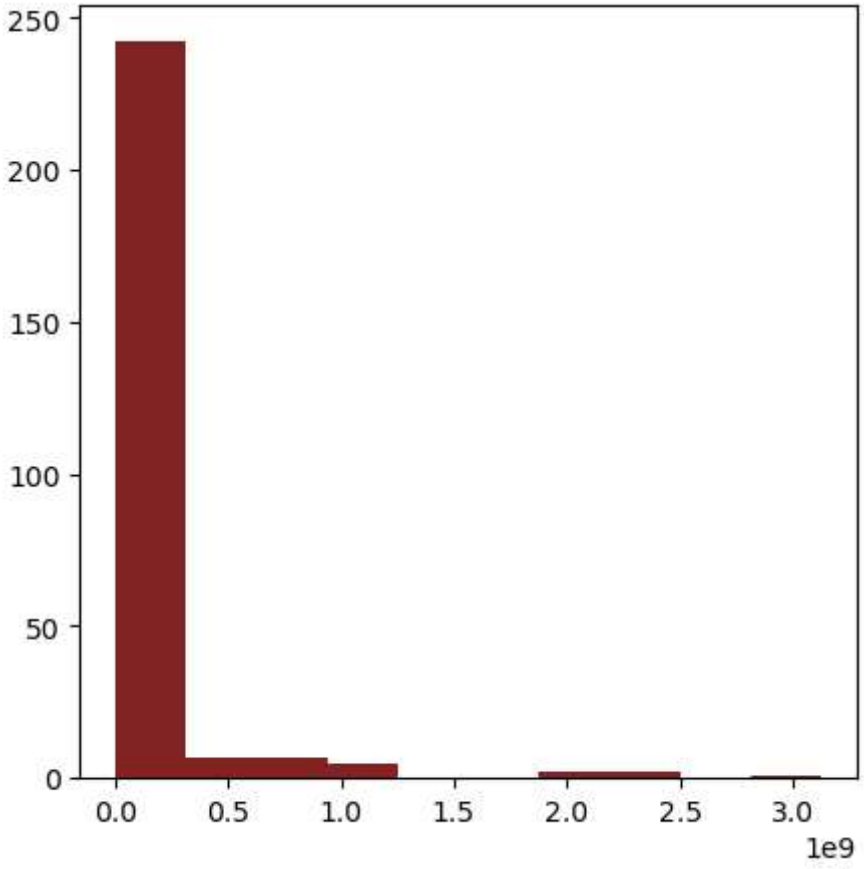
In [78]:
```
cols= ['Country Name', '1960', '1961', '1962', '1963', '1964', '1965', '1966',
       '1967', '1968', '1969', '1970', '1971', '1972', '1973', '1974', '1975',
       '1976', '1977', '1978', '1979', '1980', '1981', '1982', '1983', '1984',
       '1985', '1986', '1987', '1988', '1989', '1990', '1991', '1992', '1993',
       '1994', '1995', '1996', '1997', '1998', '1999', '2000', '2001', '2002',
       '2003', '2004', '2005', '2006', '2007', '2008', '2009', '2010', '2011',
       '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '2020',
       '2021', '2022', '2023']
```

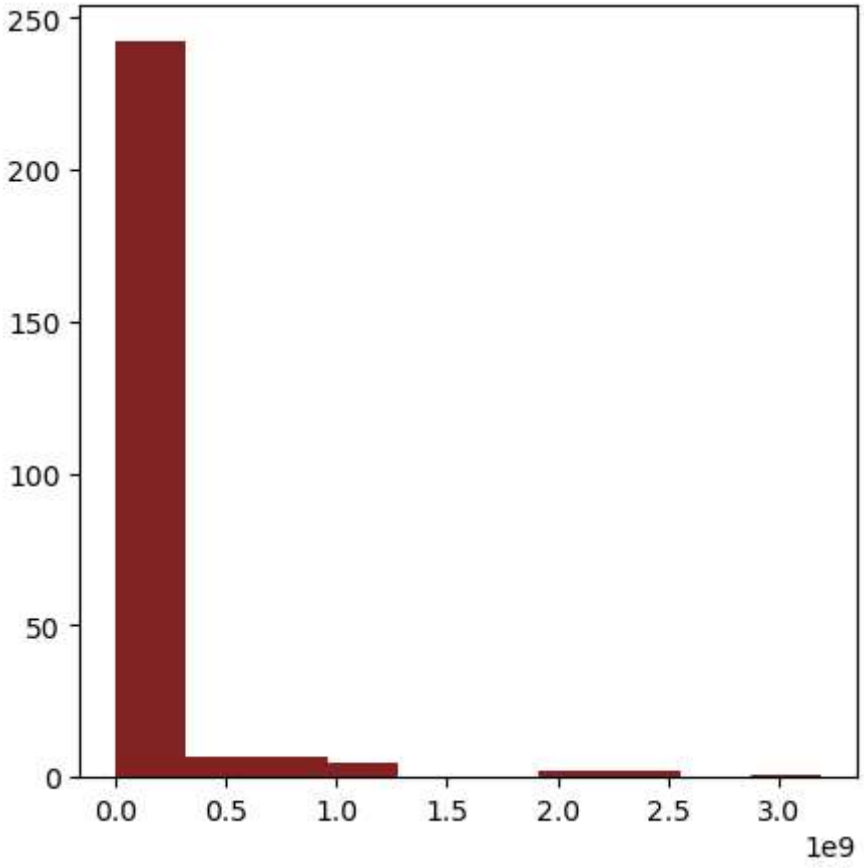
In [97]:
```
for i in cols:
    fig = plt.figure(figsize=(5,5))
    plt.hist(df[i],color='#822222',bins=10)
    plt.xlabel(i)
    plt.show()
```




250
200
150
100
50
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1e9


250
200
150
100
50
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1e9


250
200
150
100
50
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1e9


250
200
150
100
50
0
0.0
0.5
1.0
1.5
2.0
2.5
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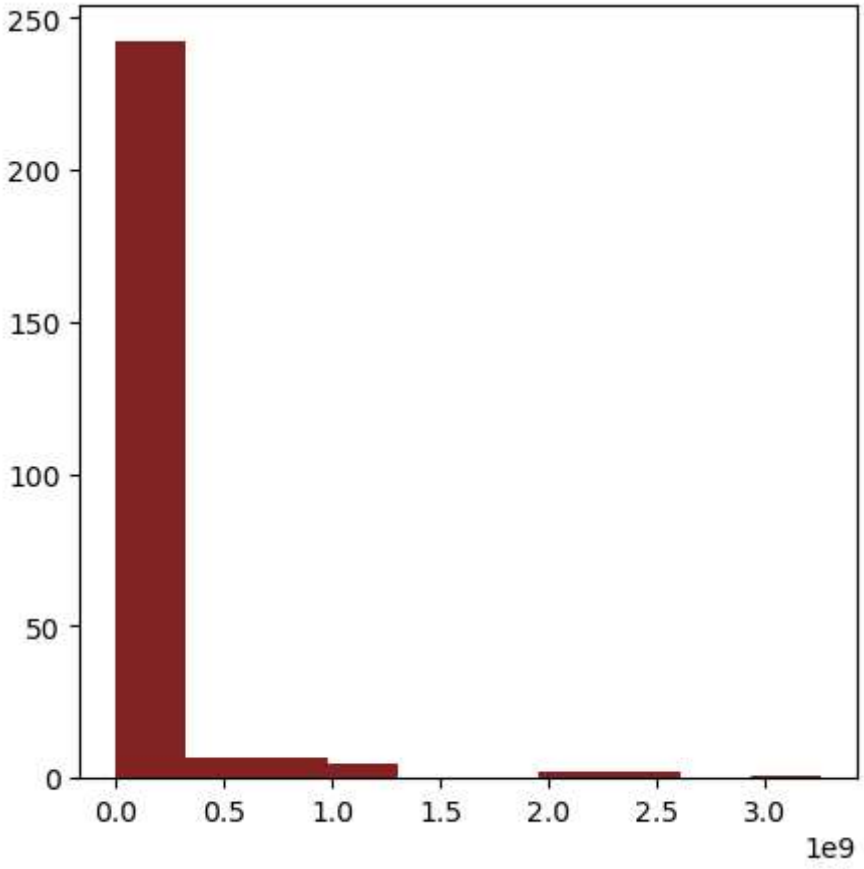
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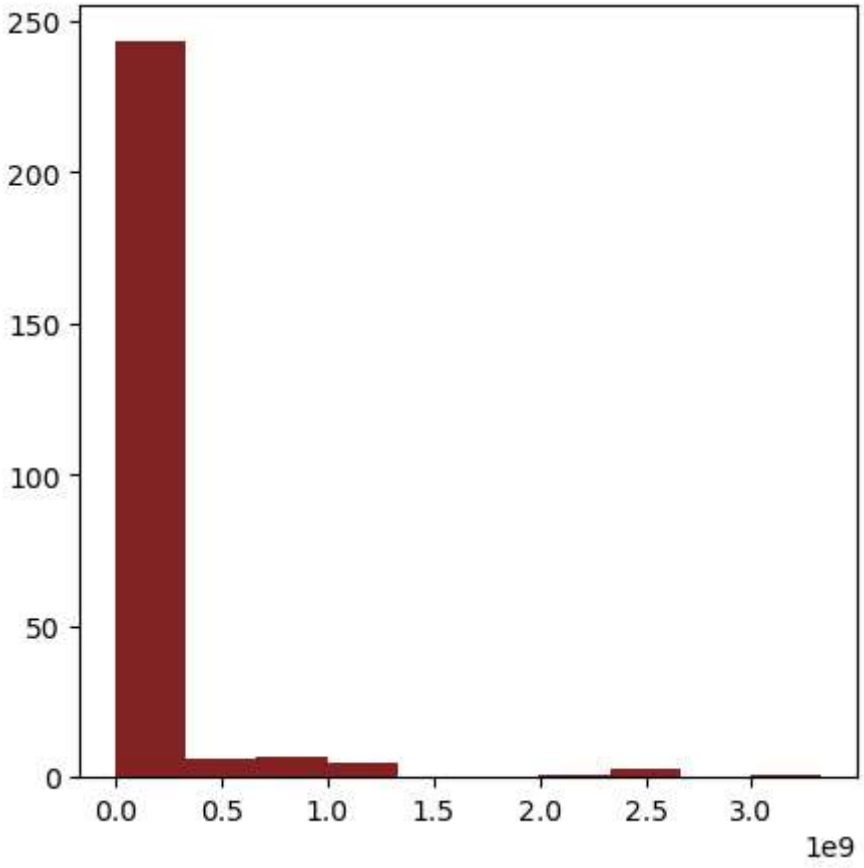
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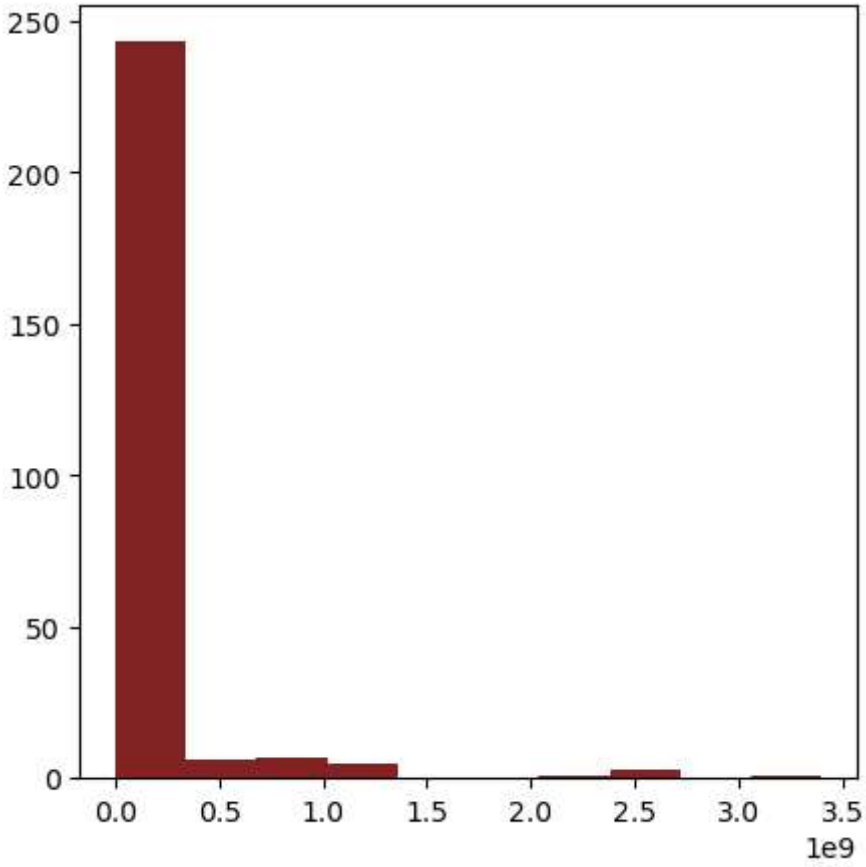
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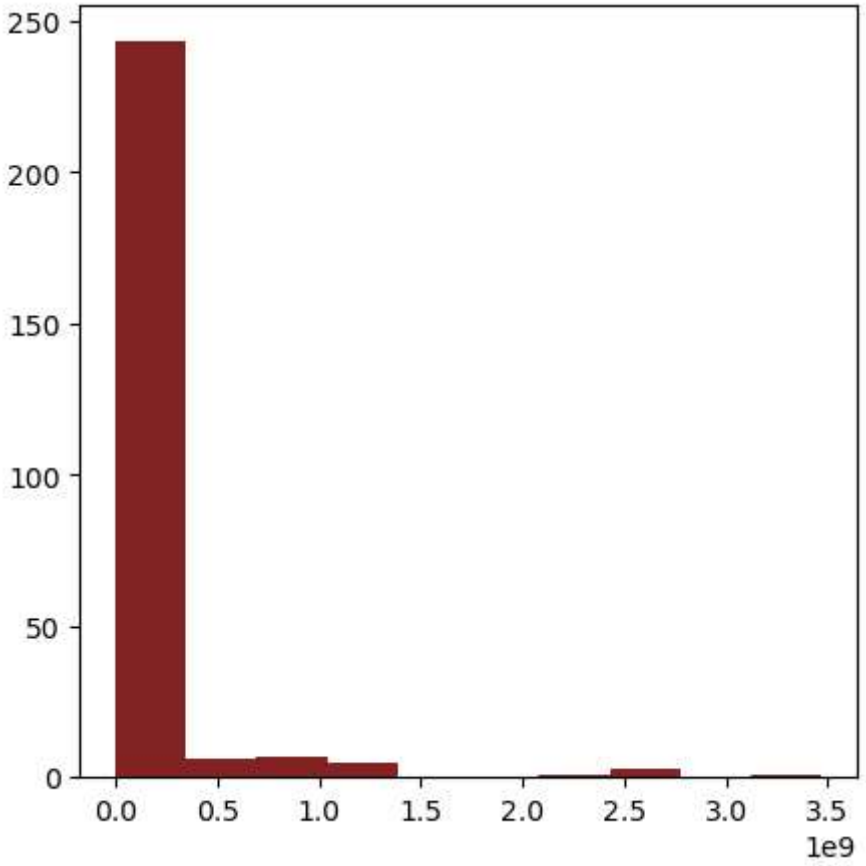
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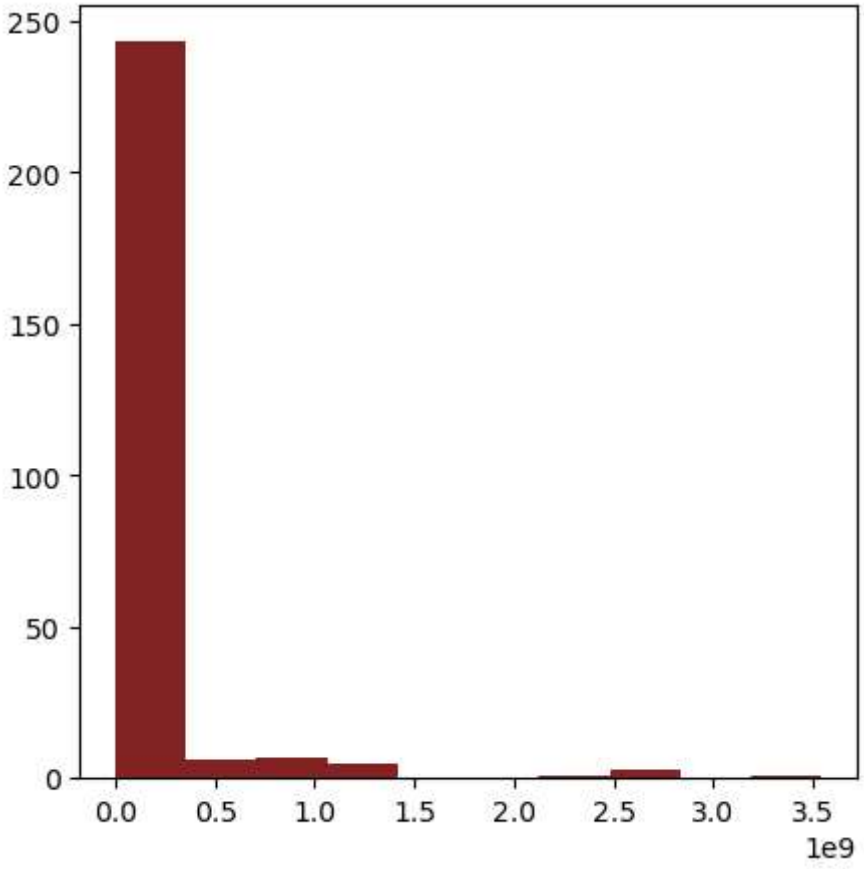
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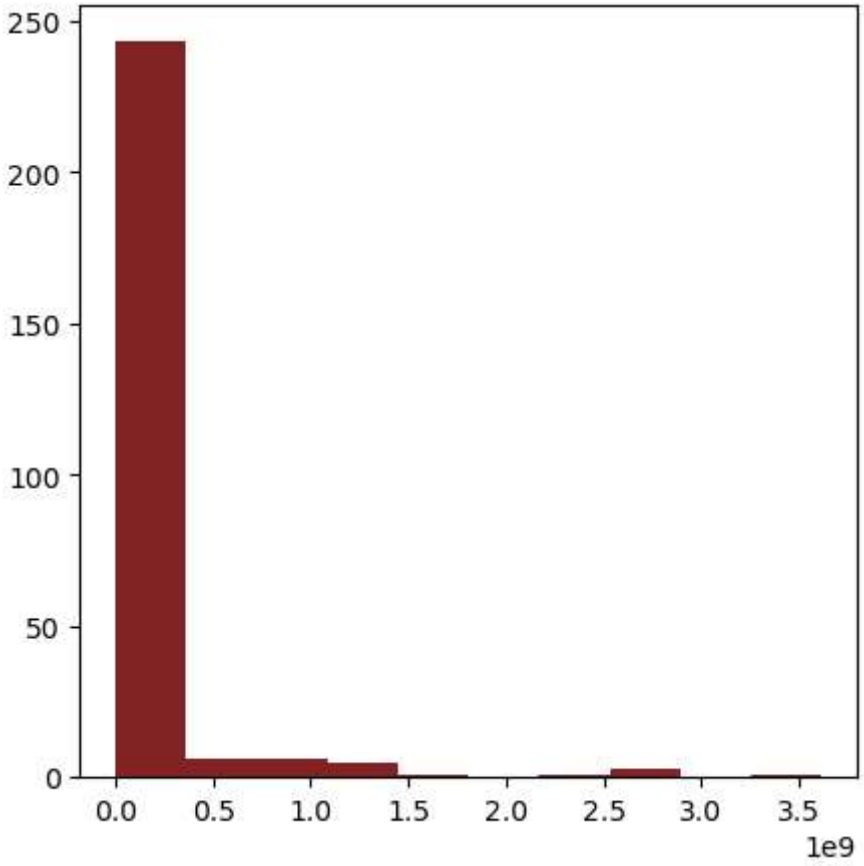
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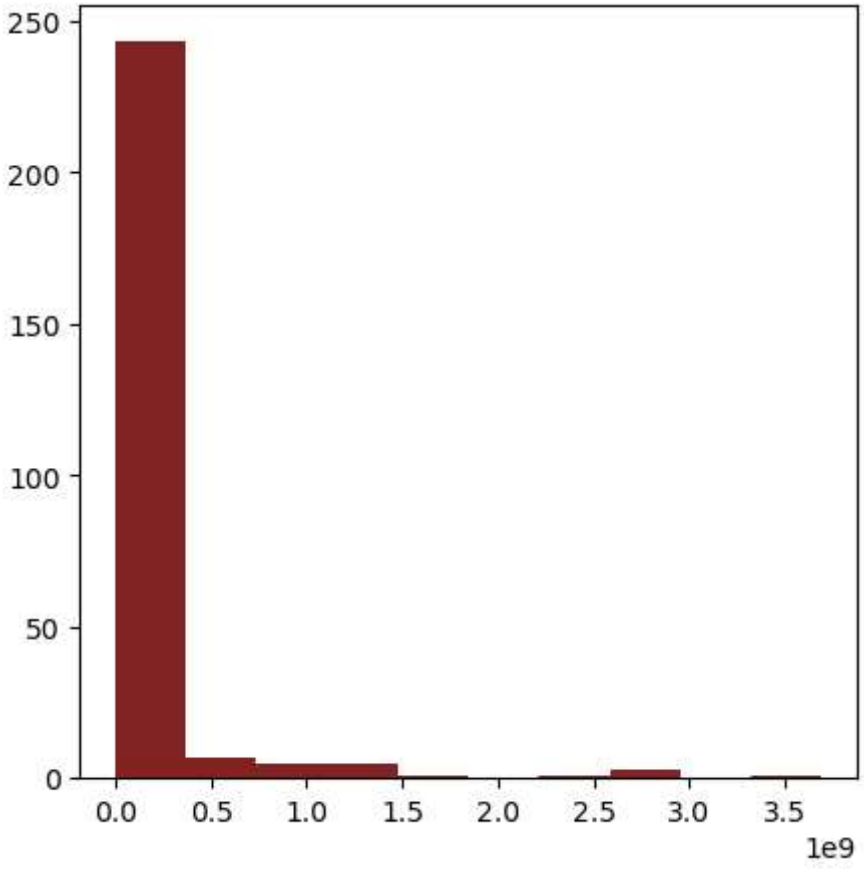
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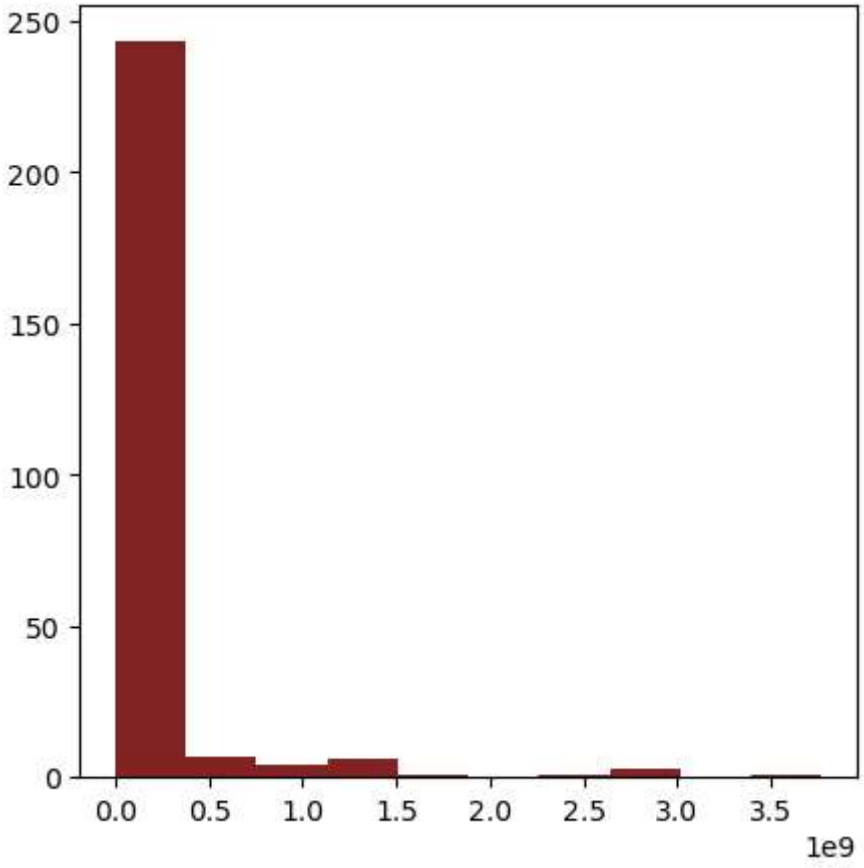
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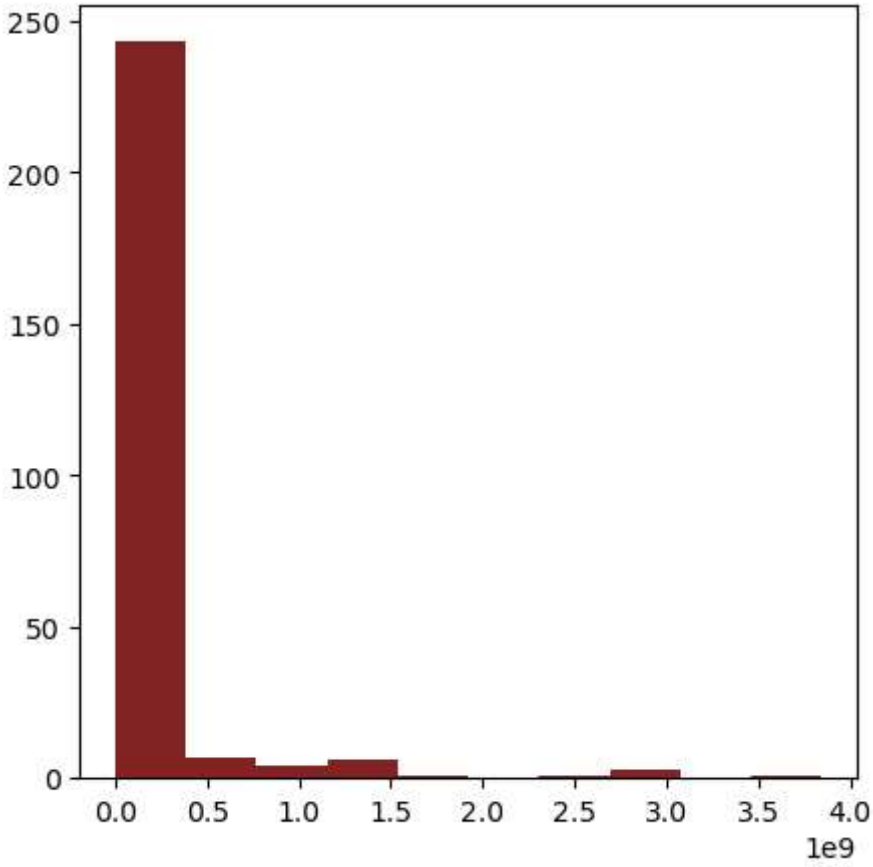
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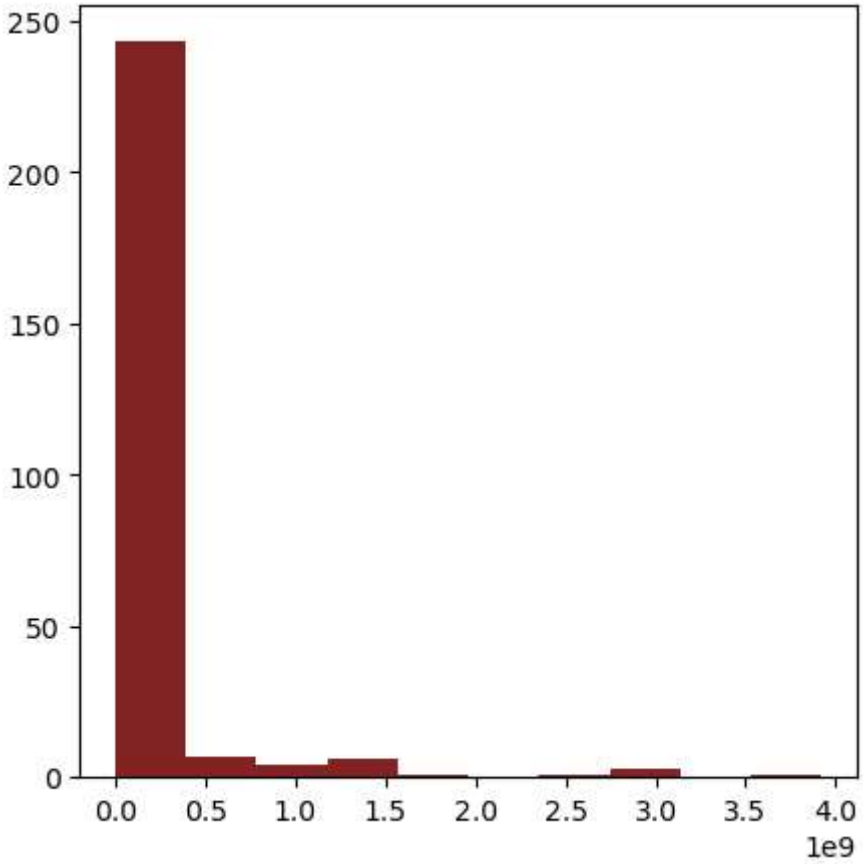
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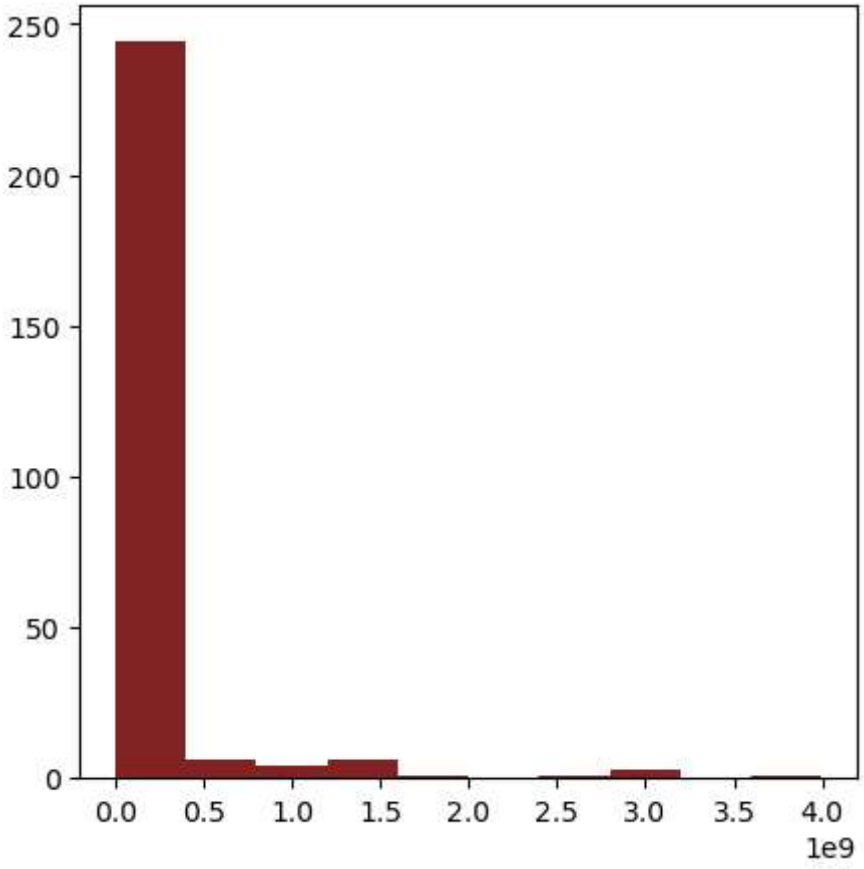
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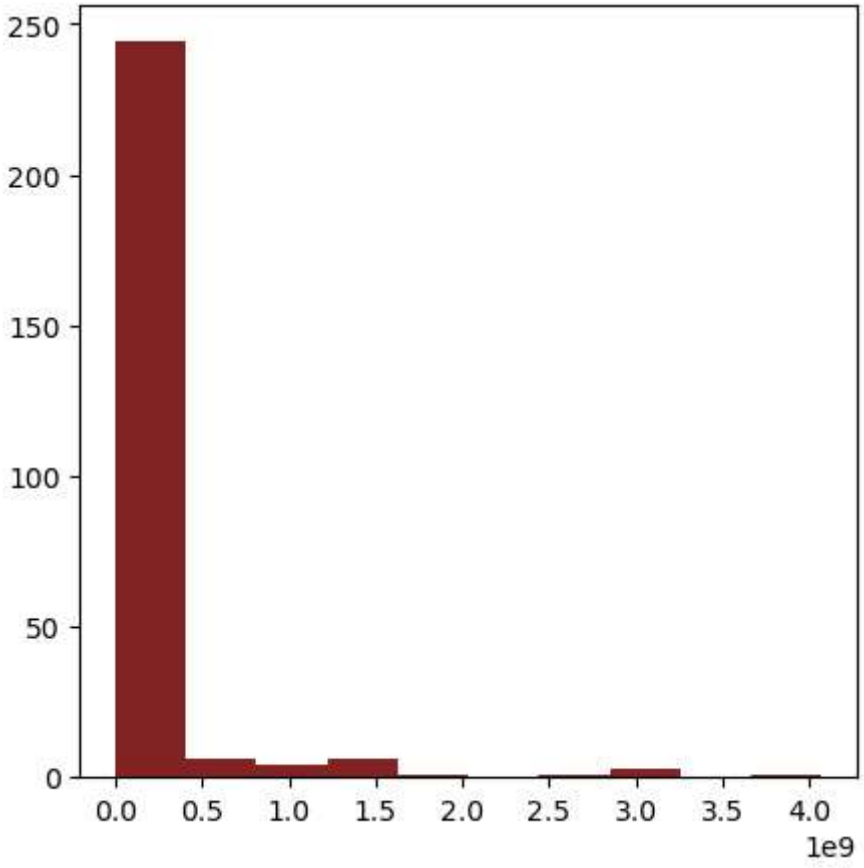
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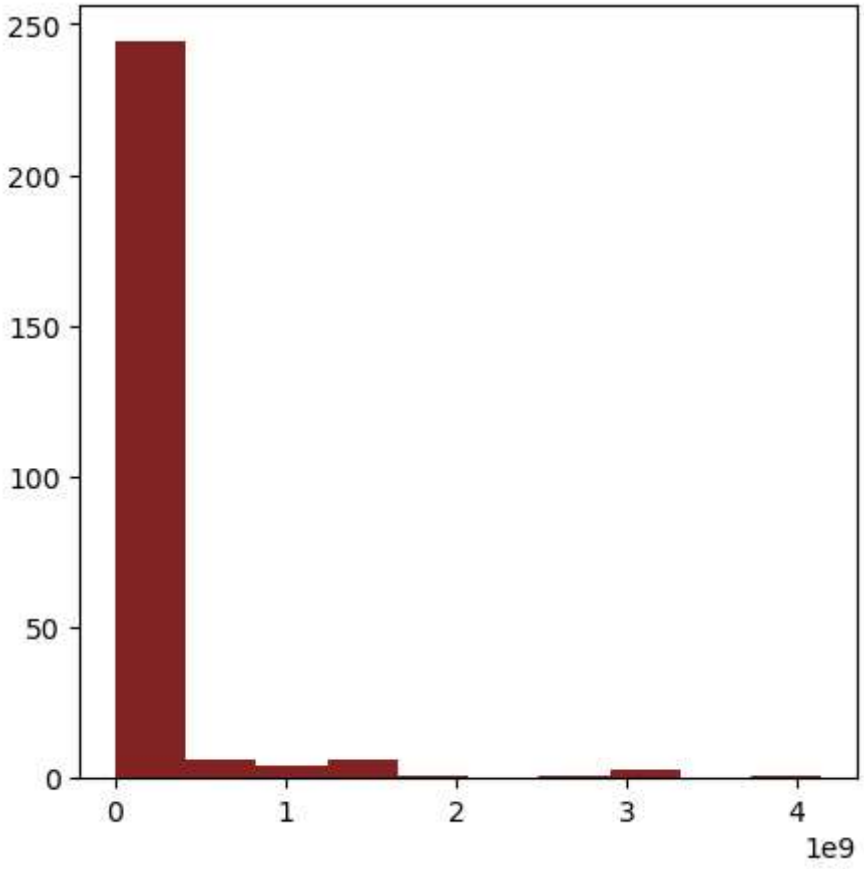
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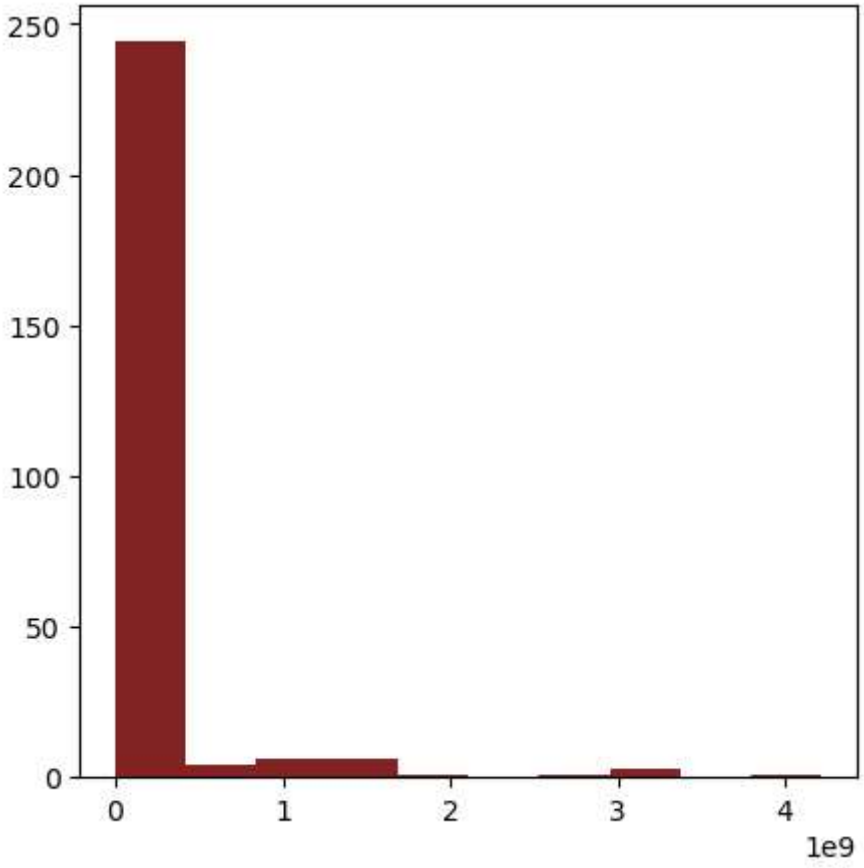
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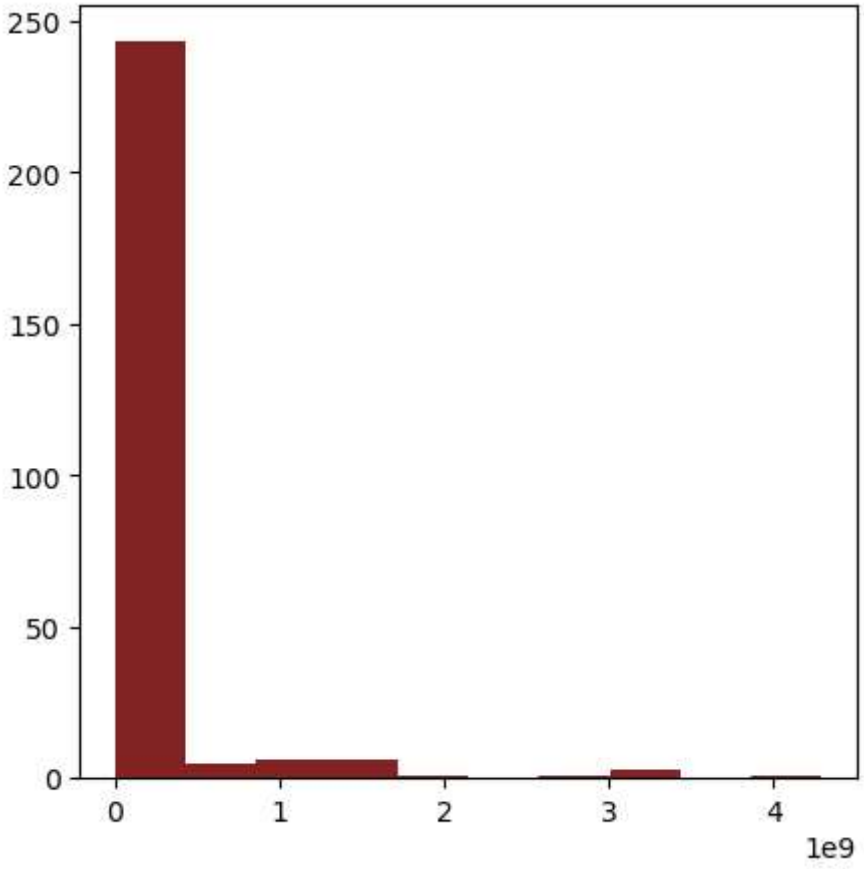
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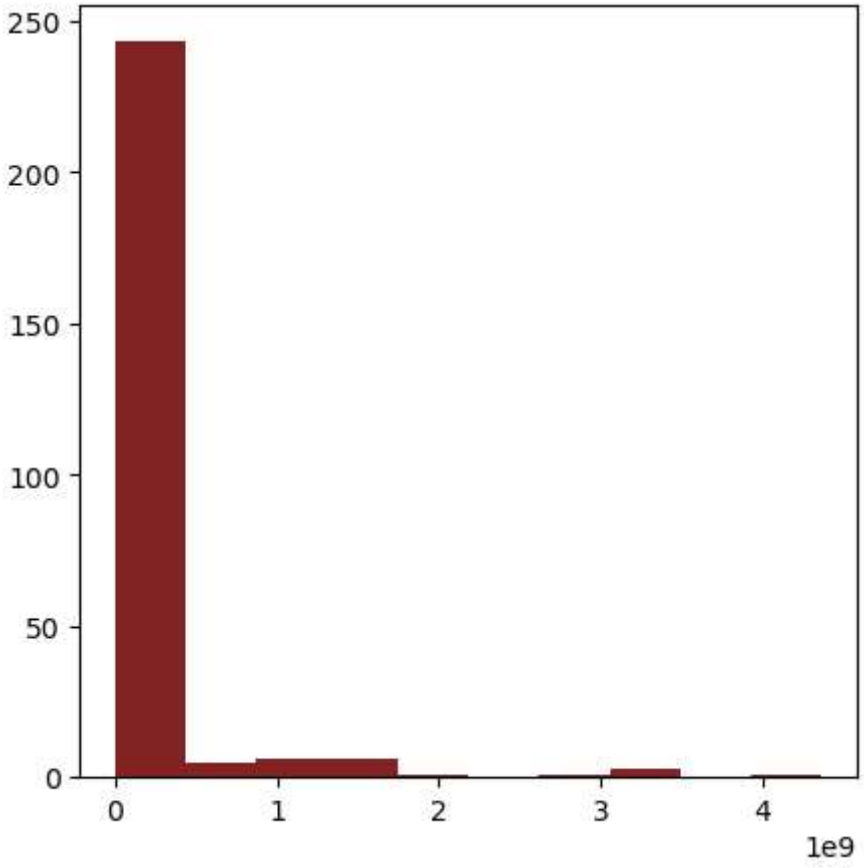
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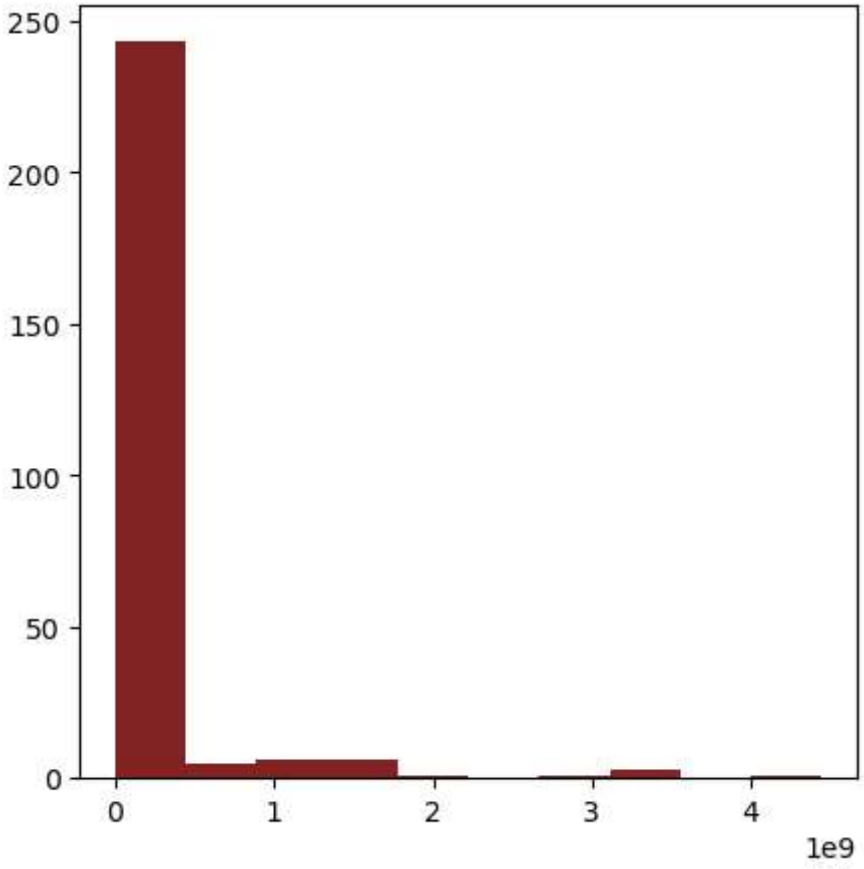
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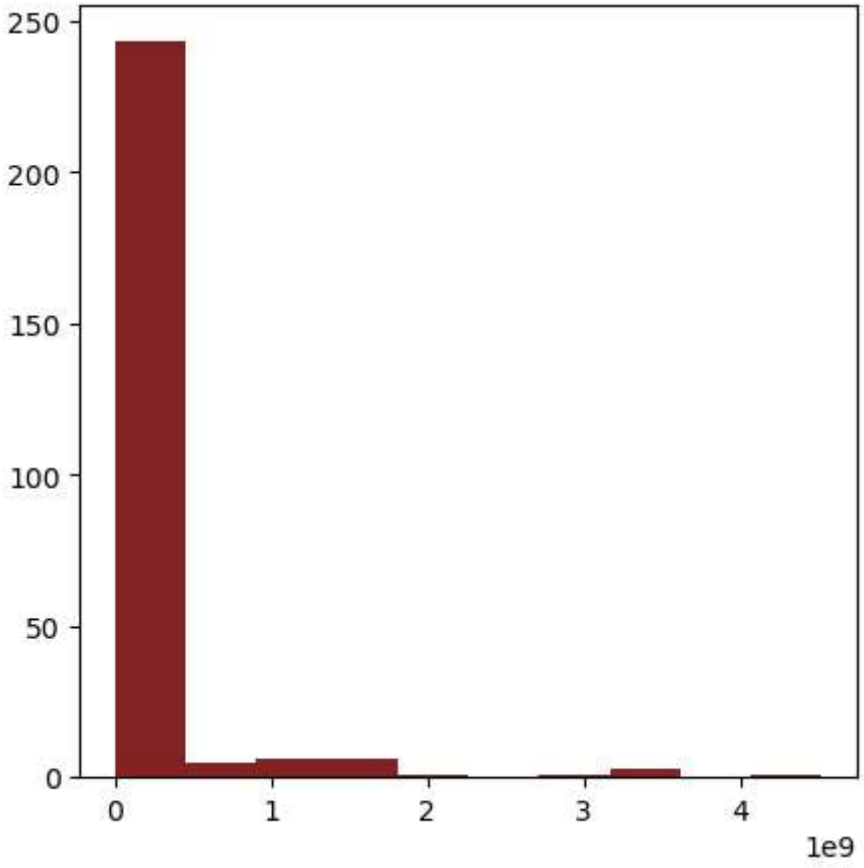
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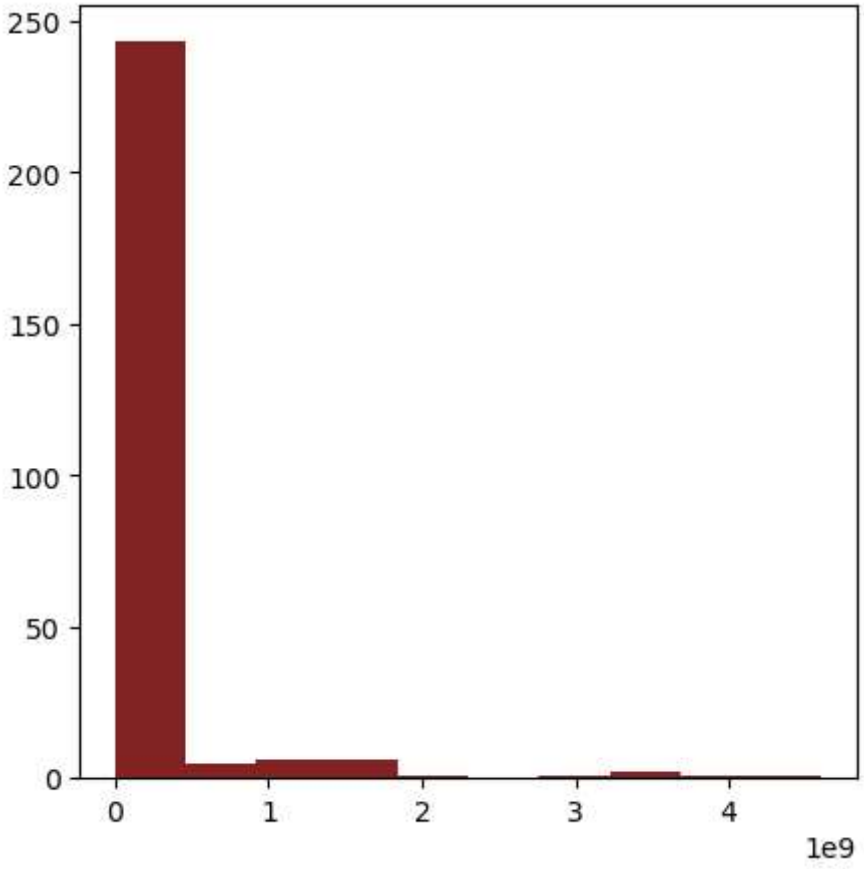
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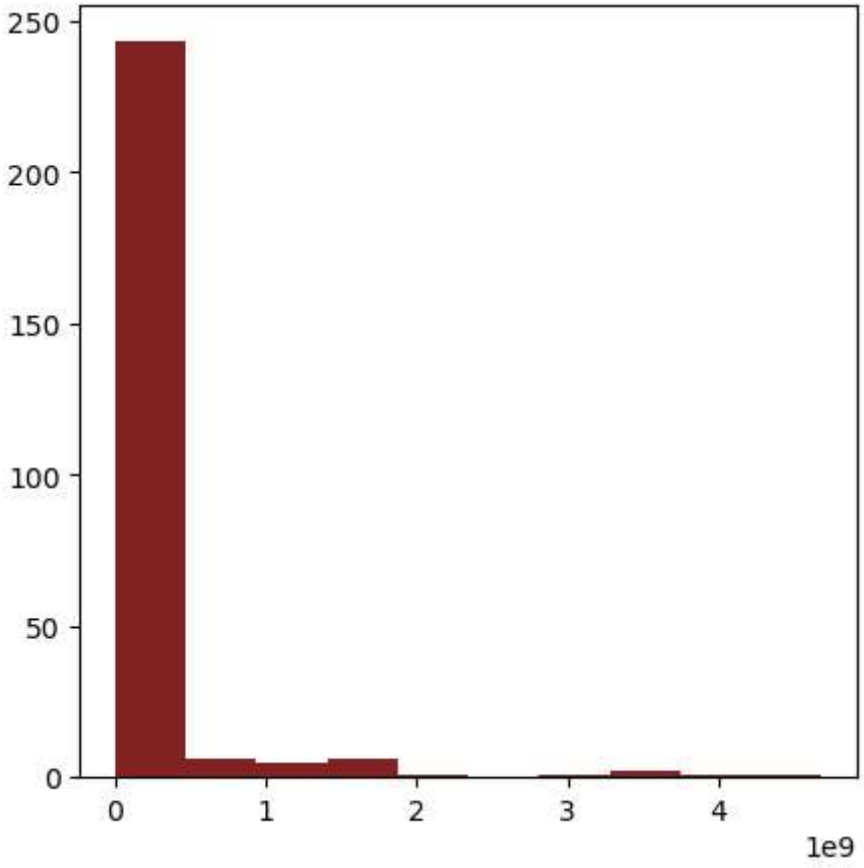
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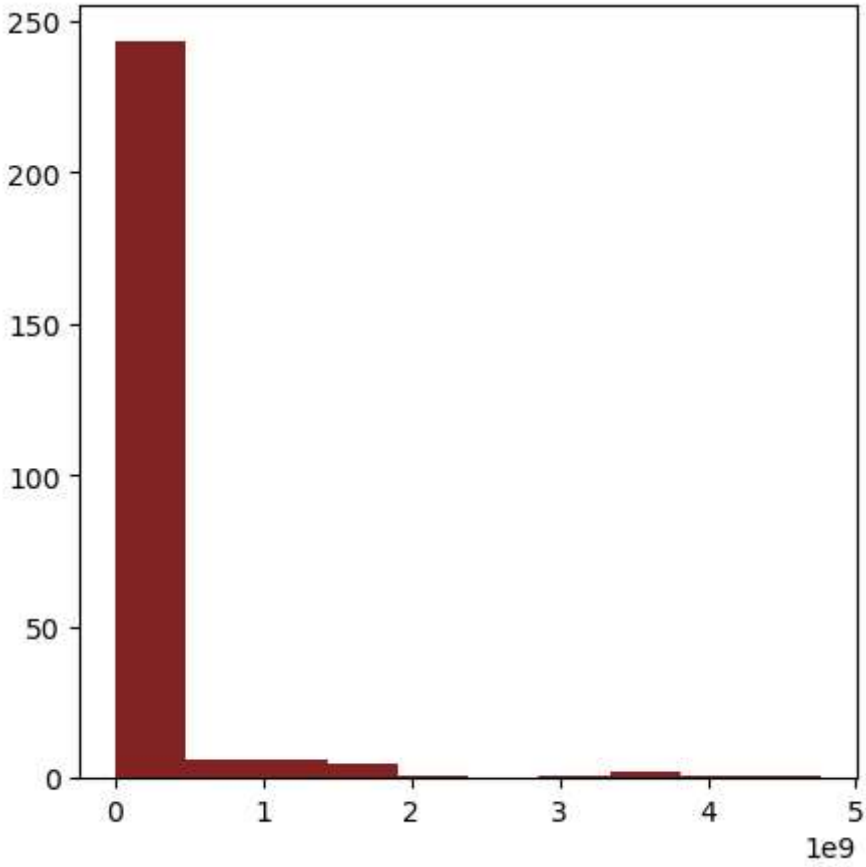
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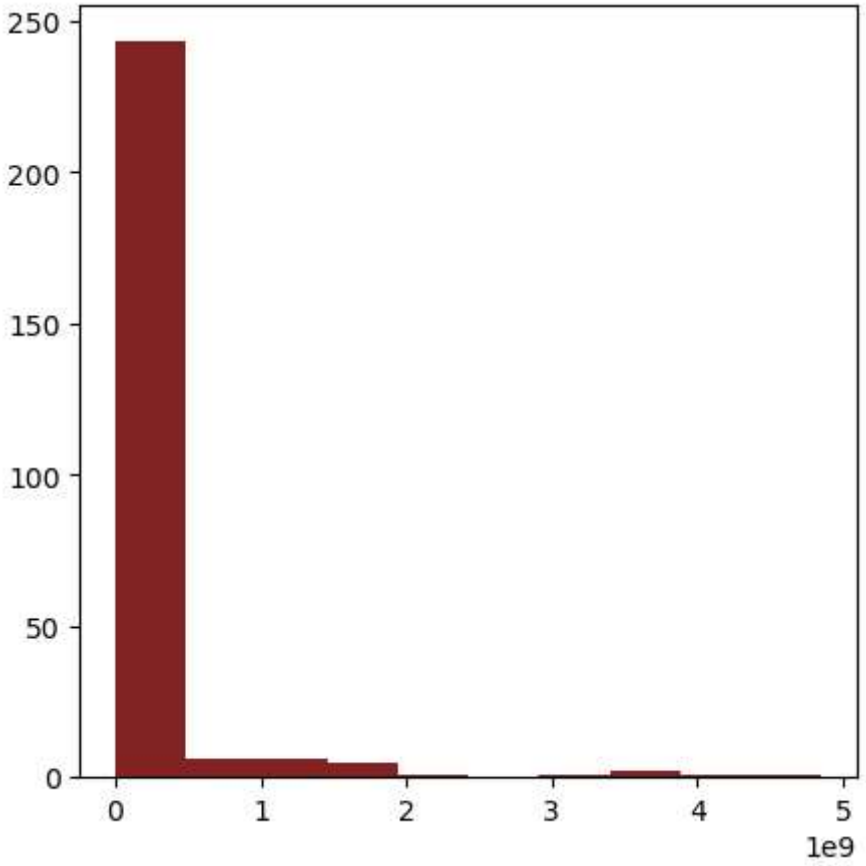
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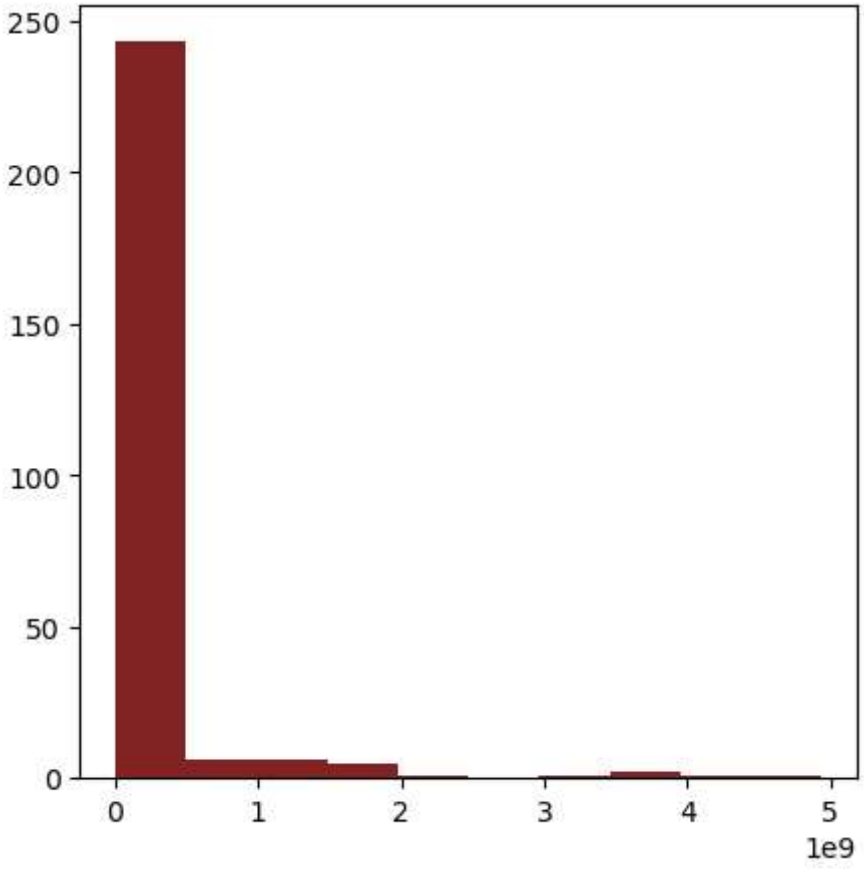
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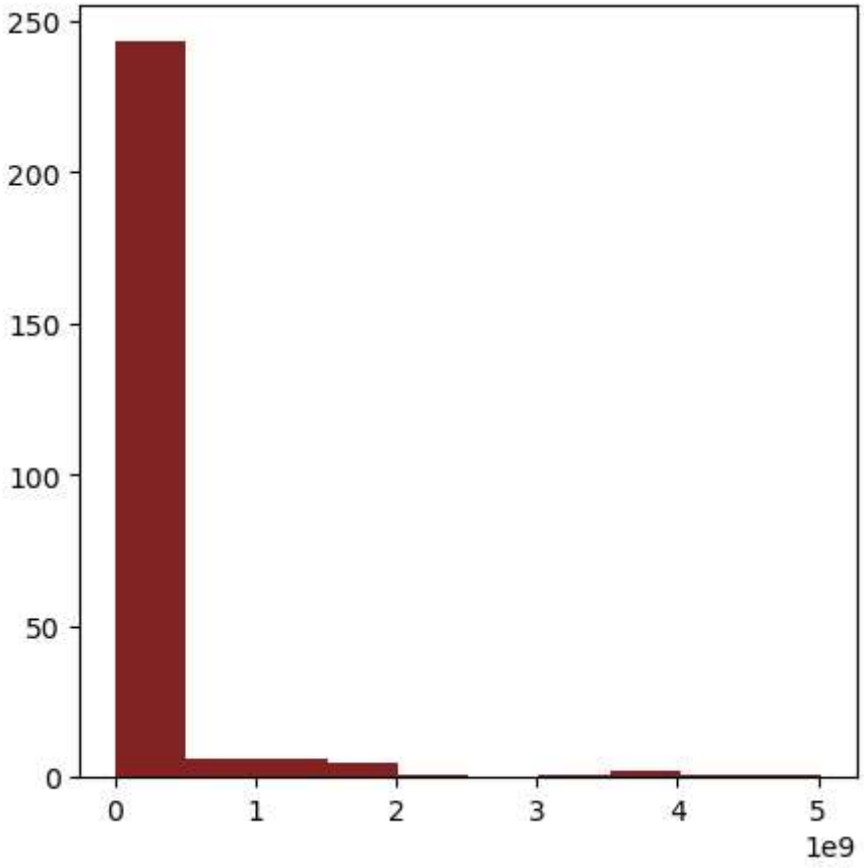
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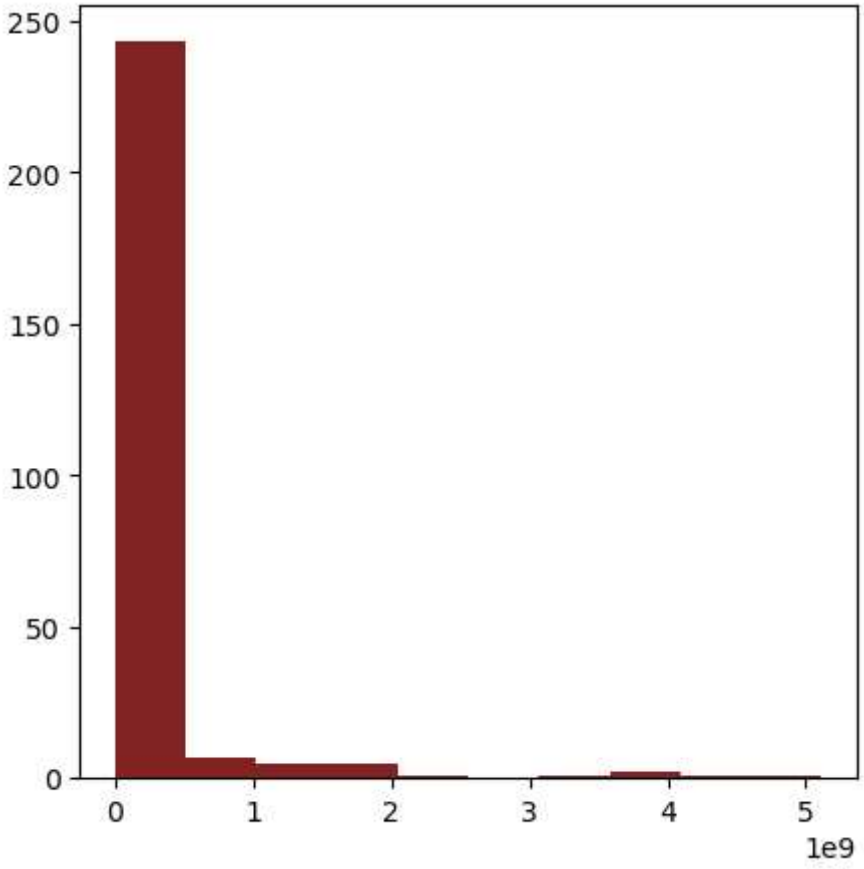
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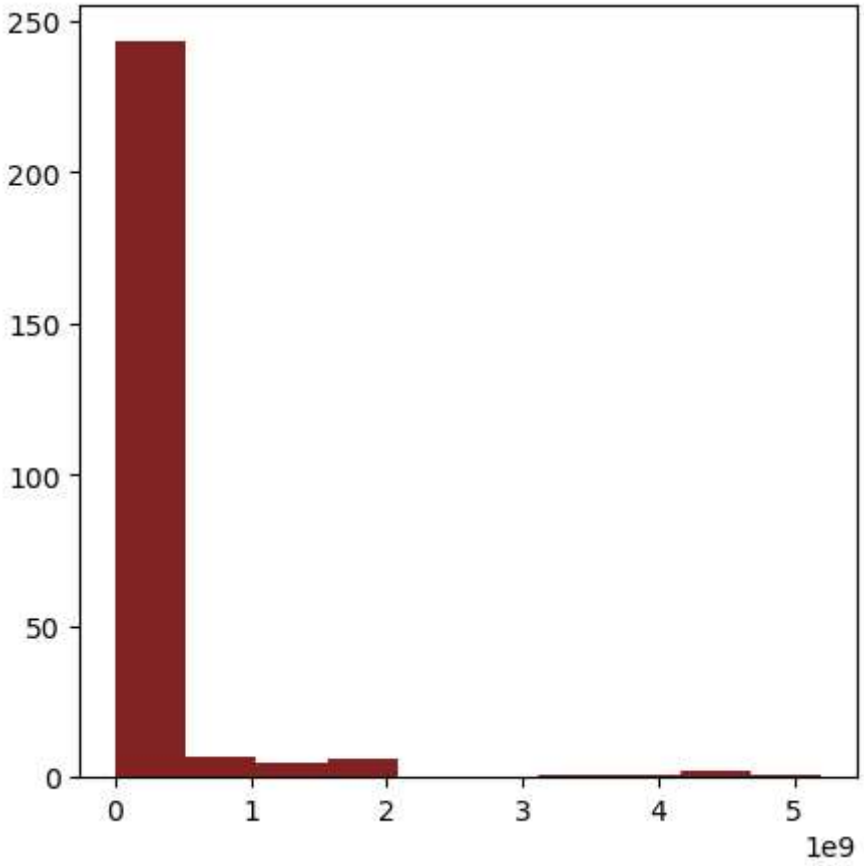
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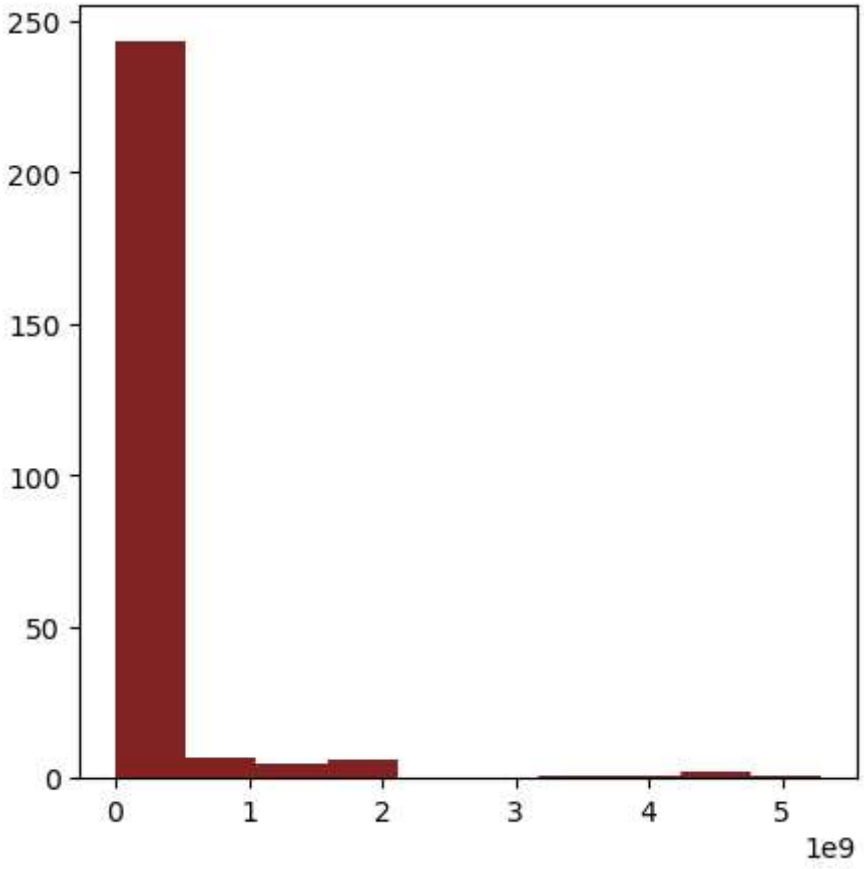
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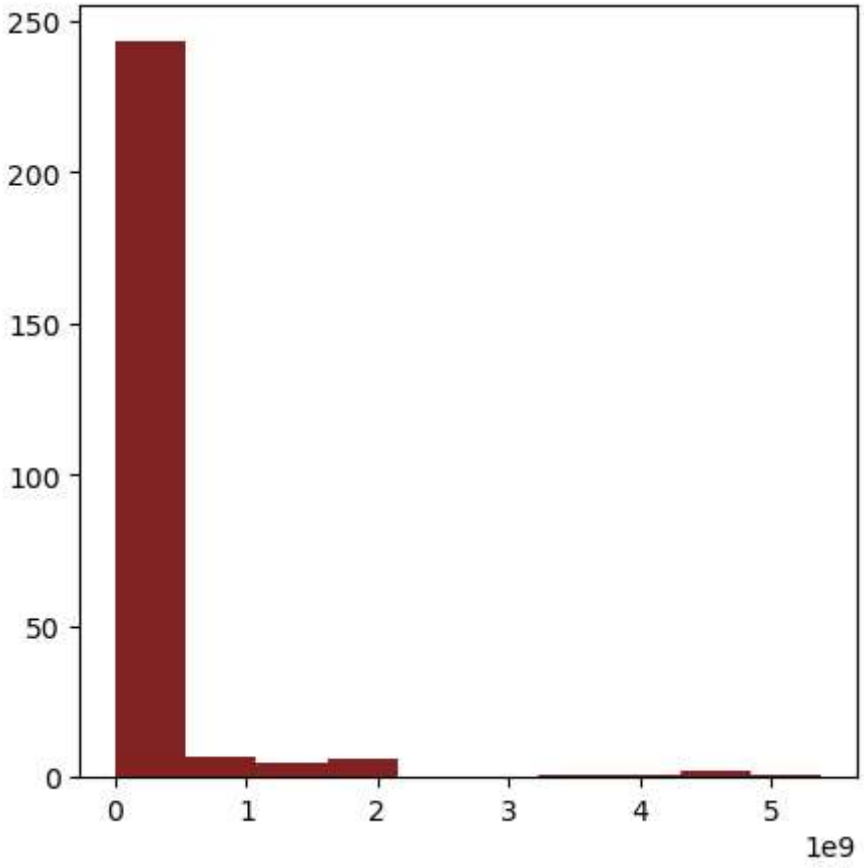
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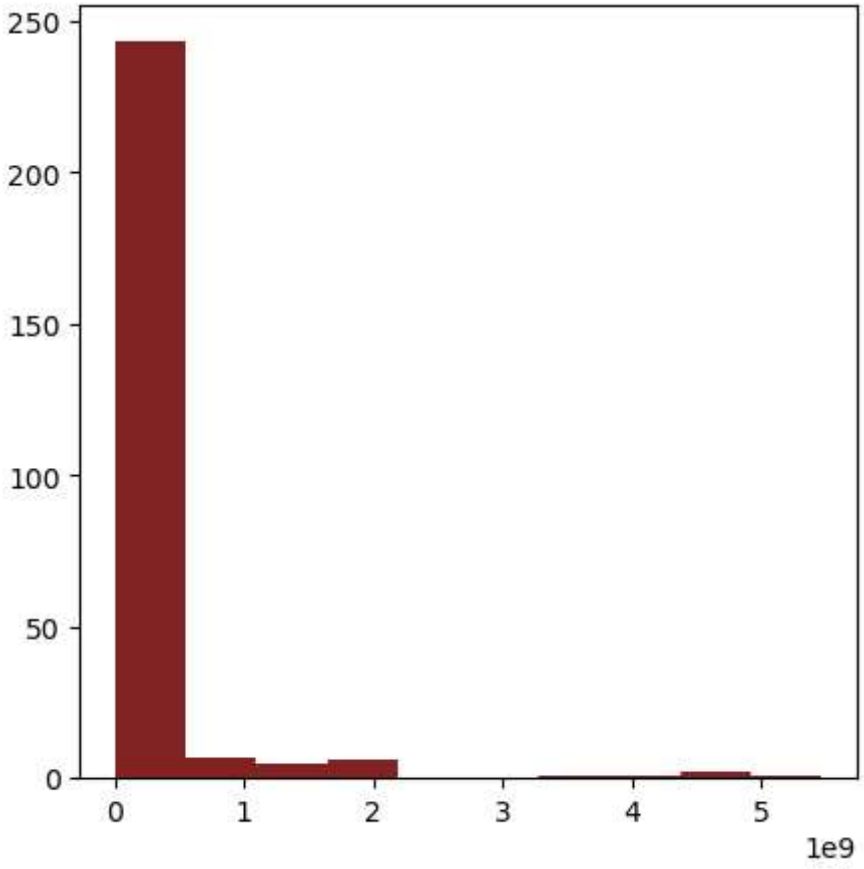
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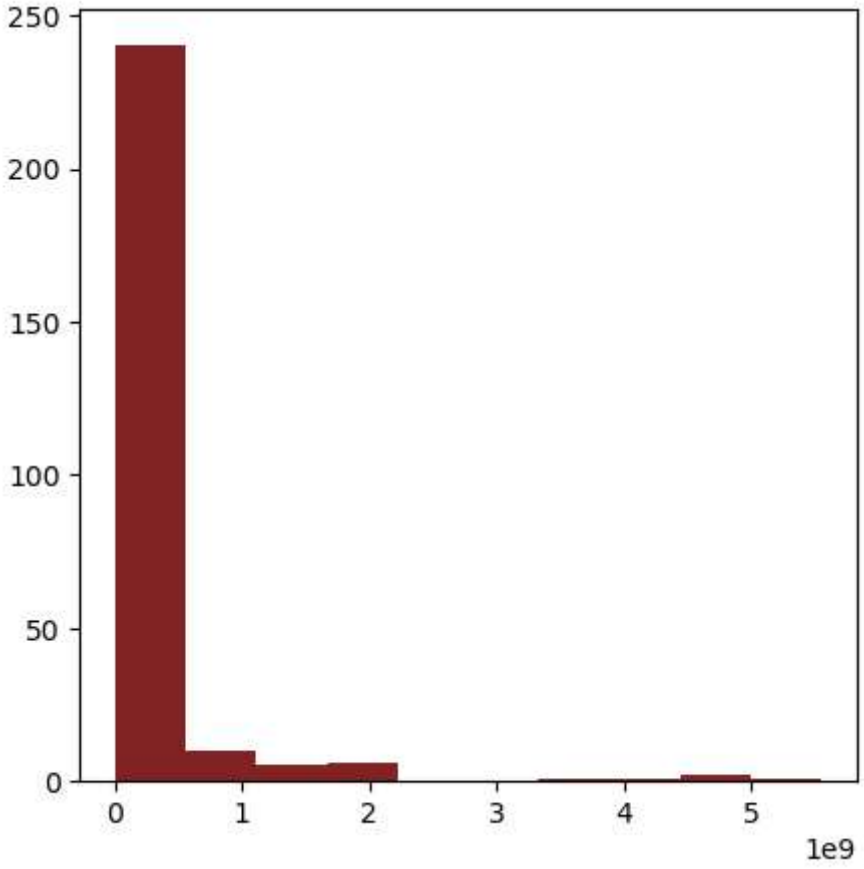
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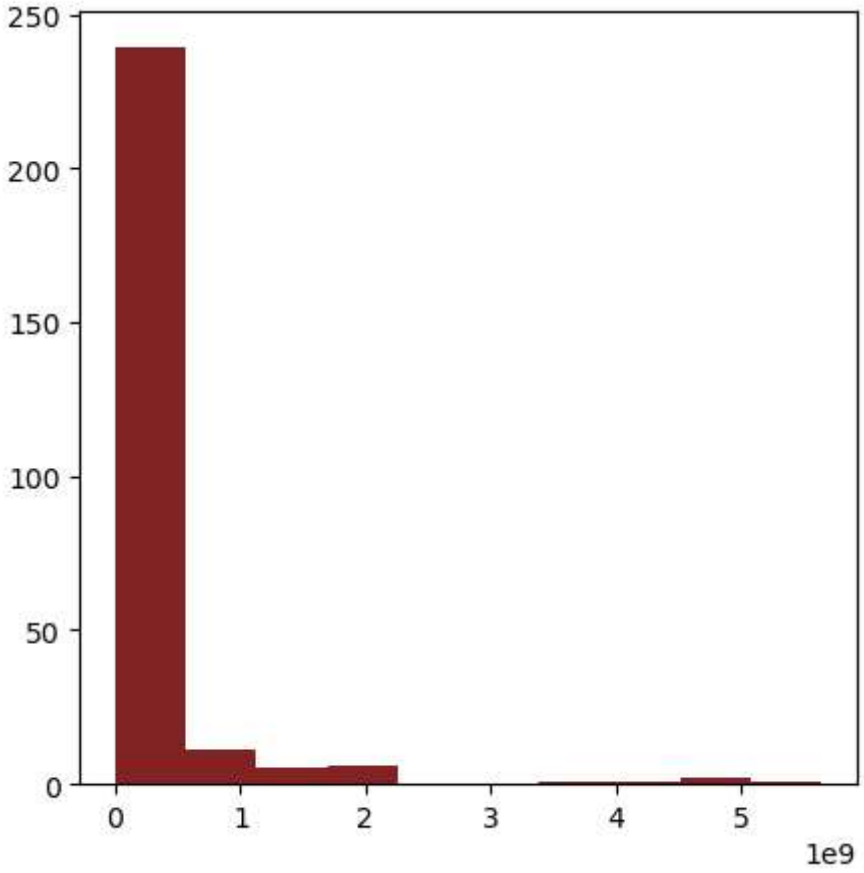
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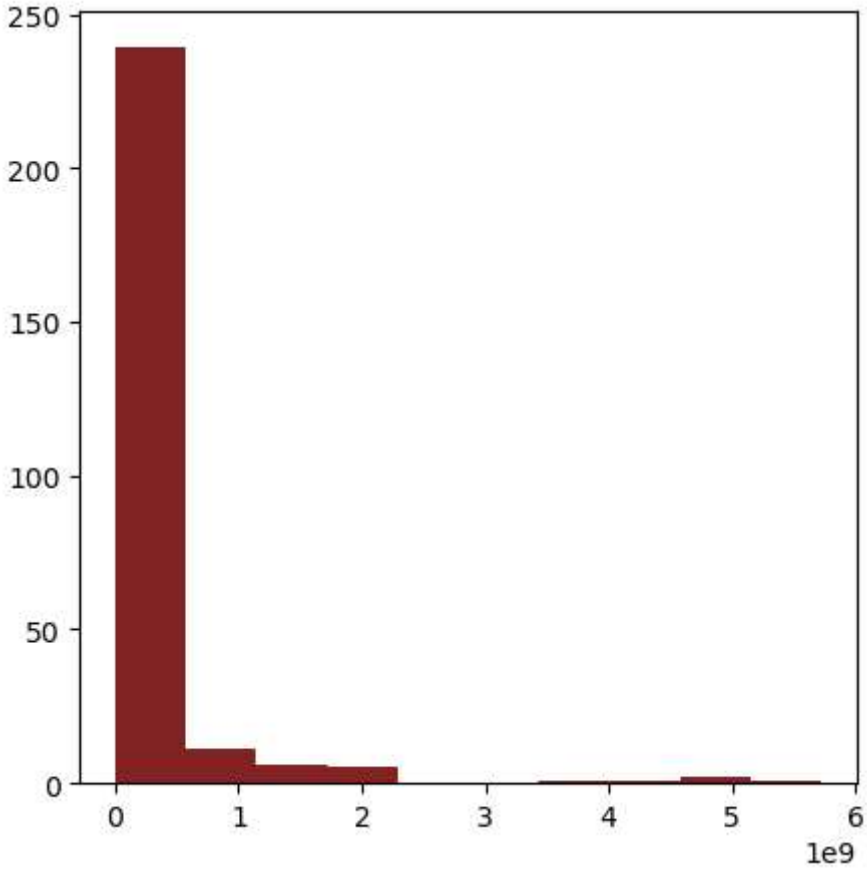
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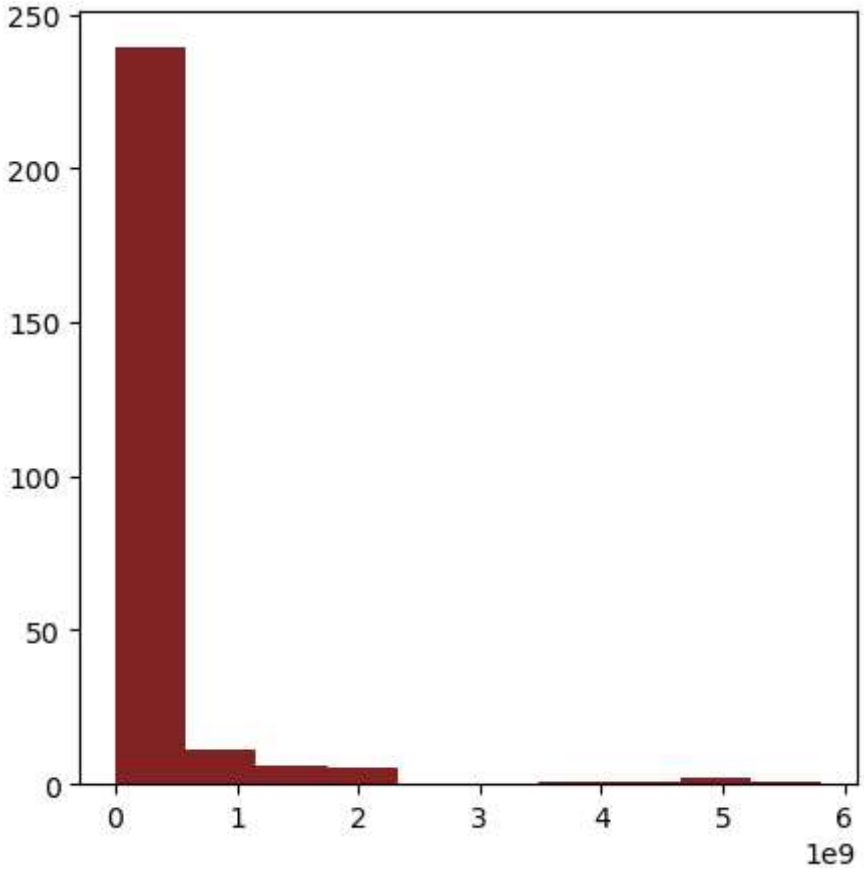
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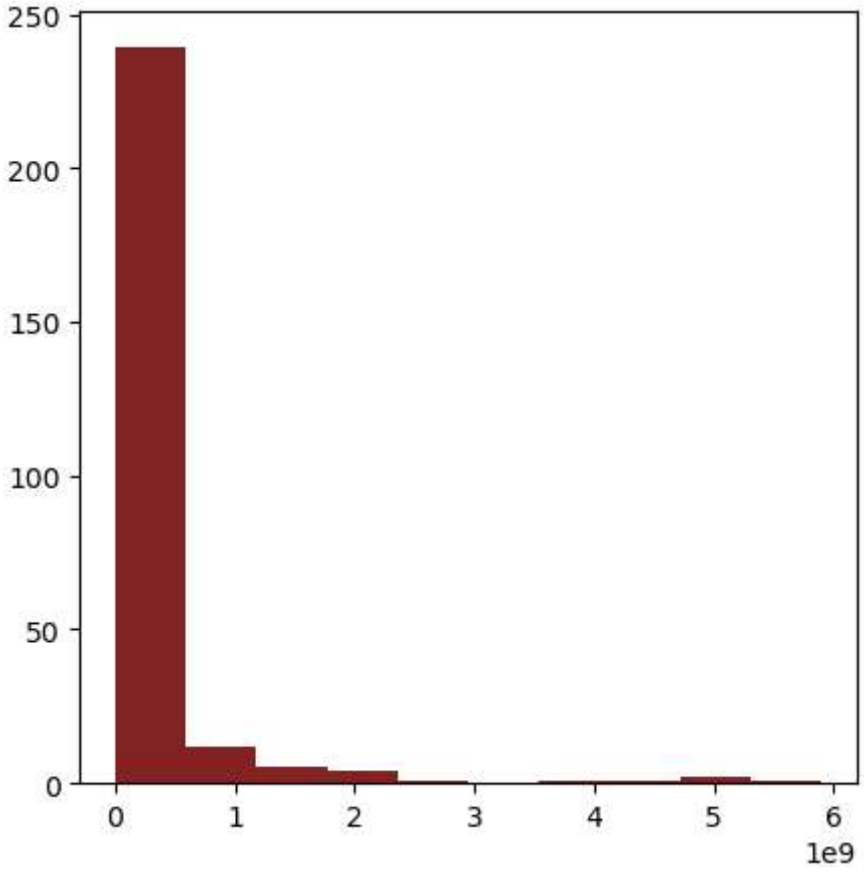
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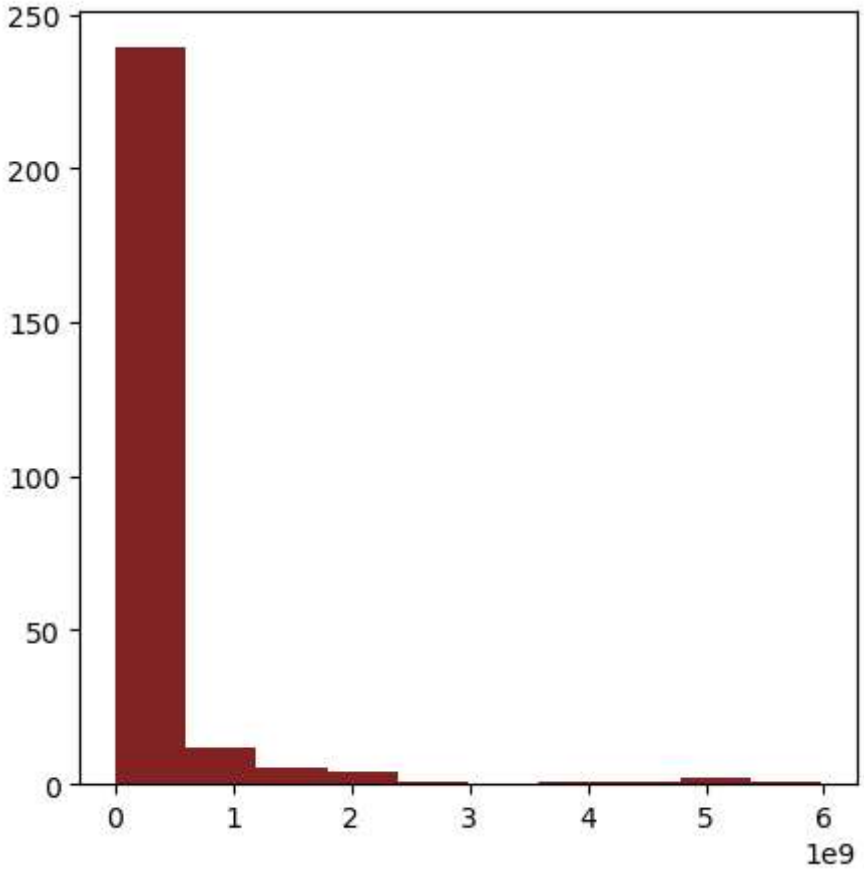
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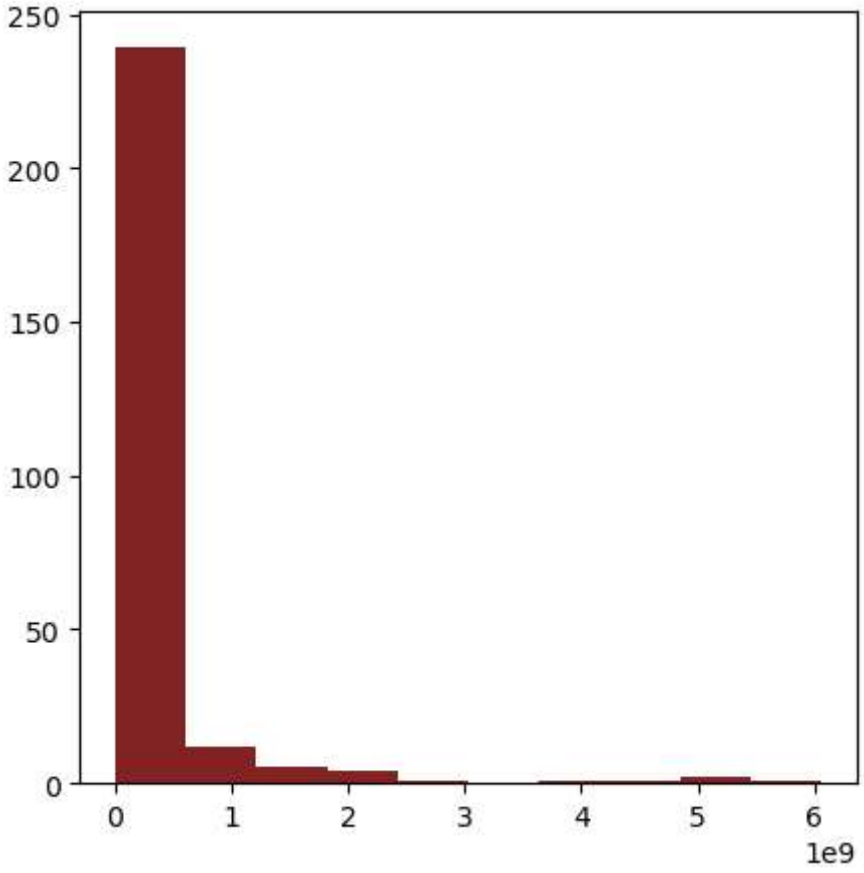
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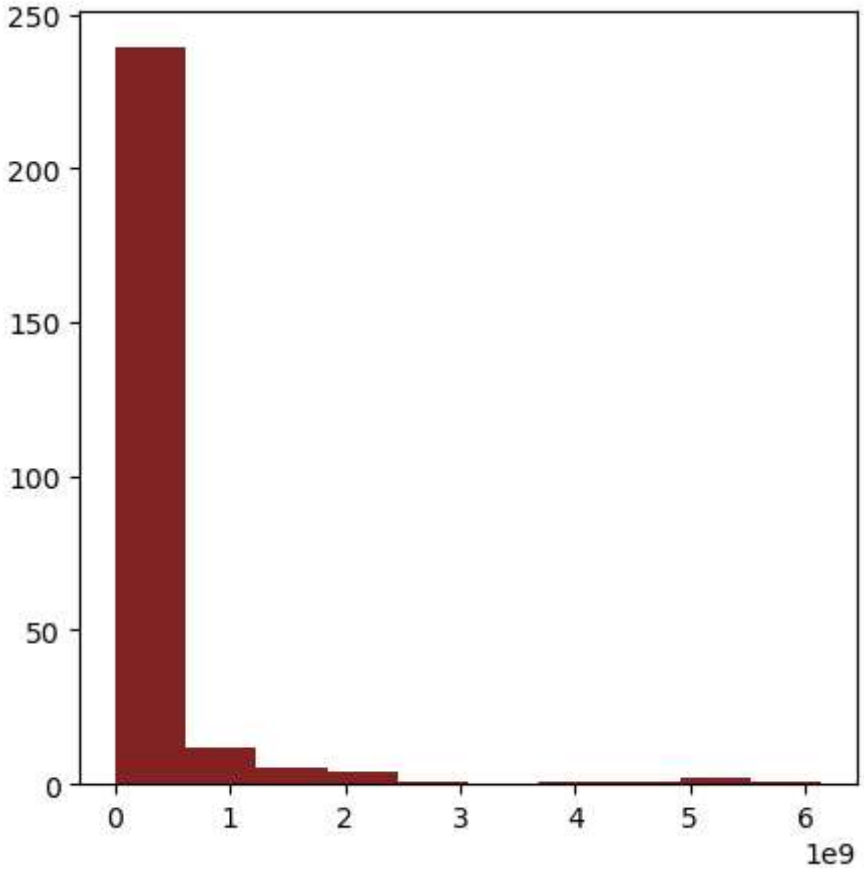
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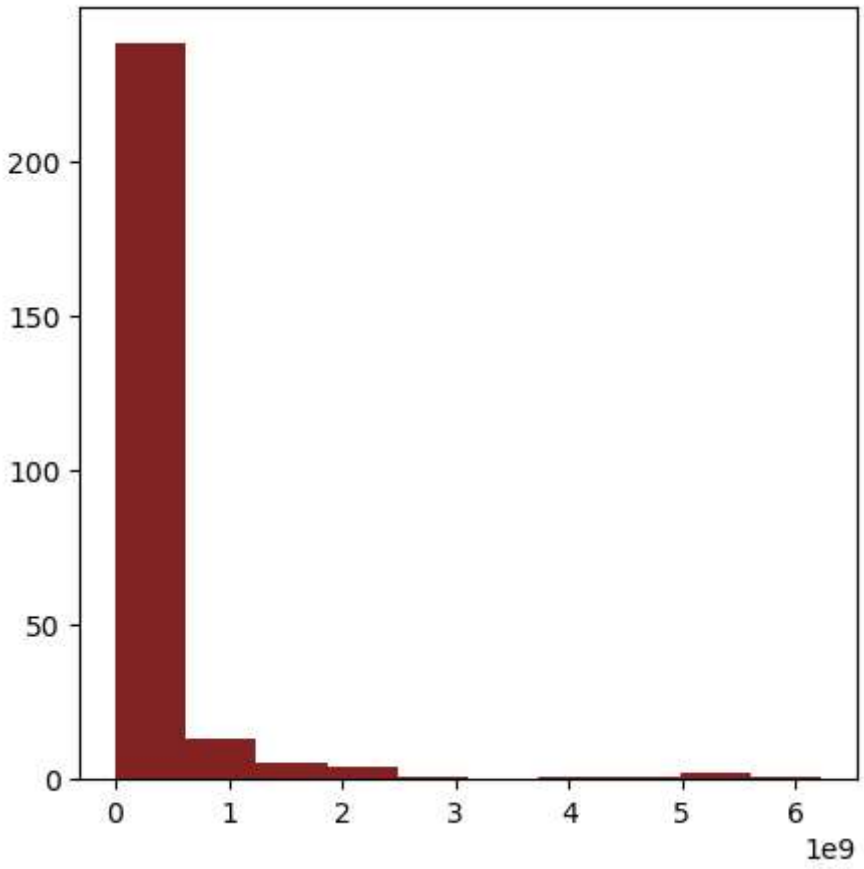
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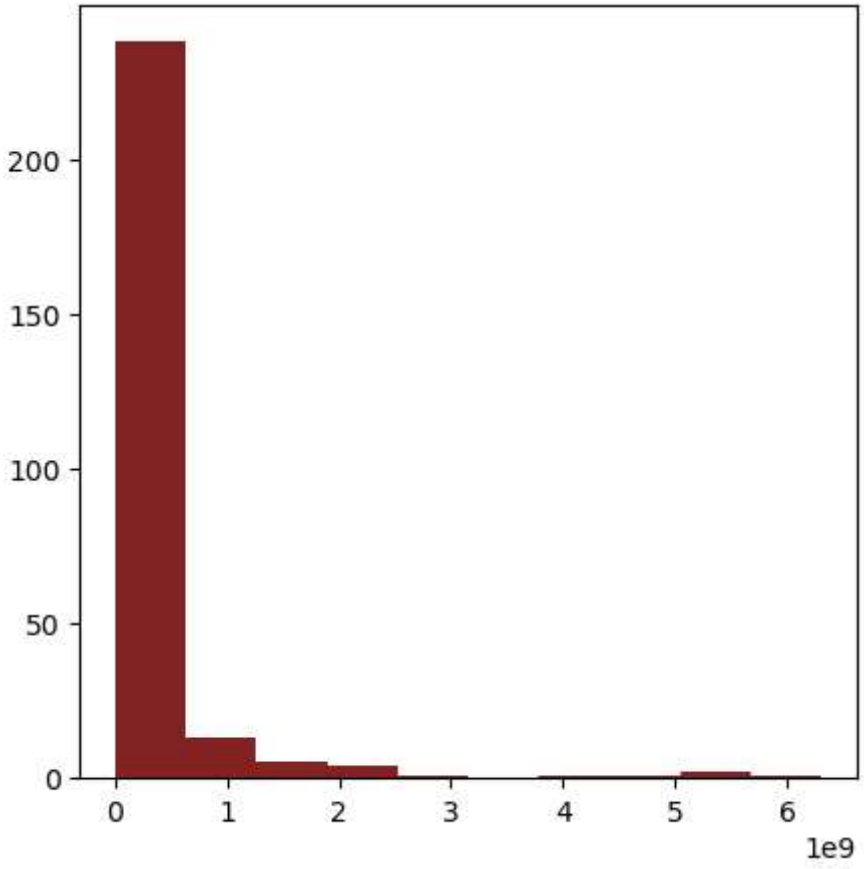
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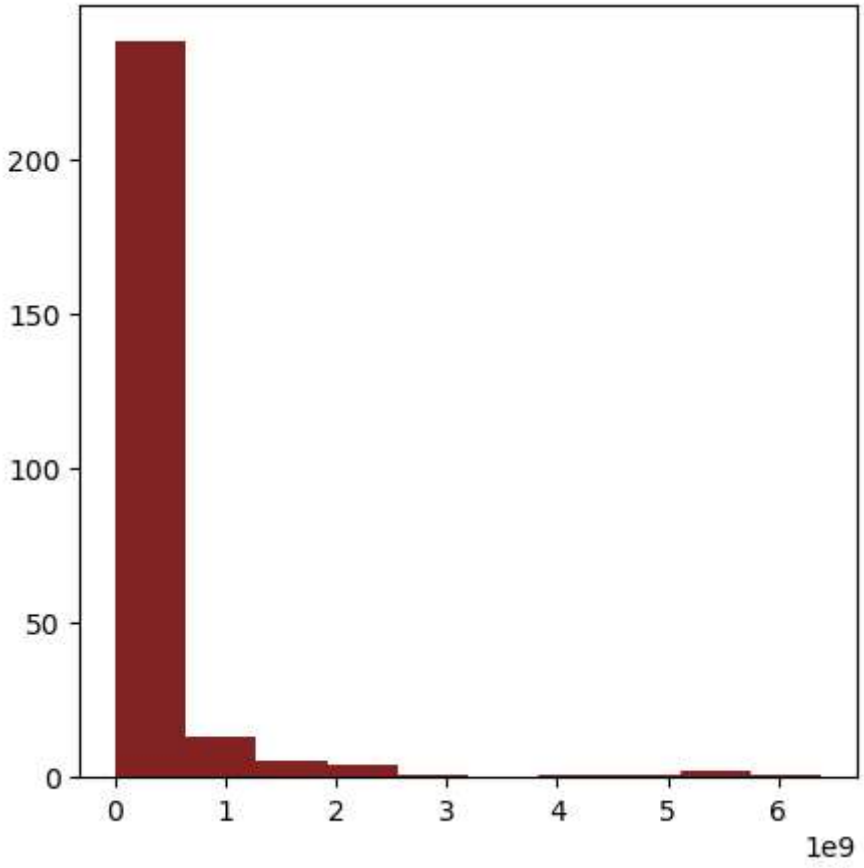
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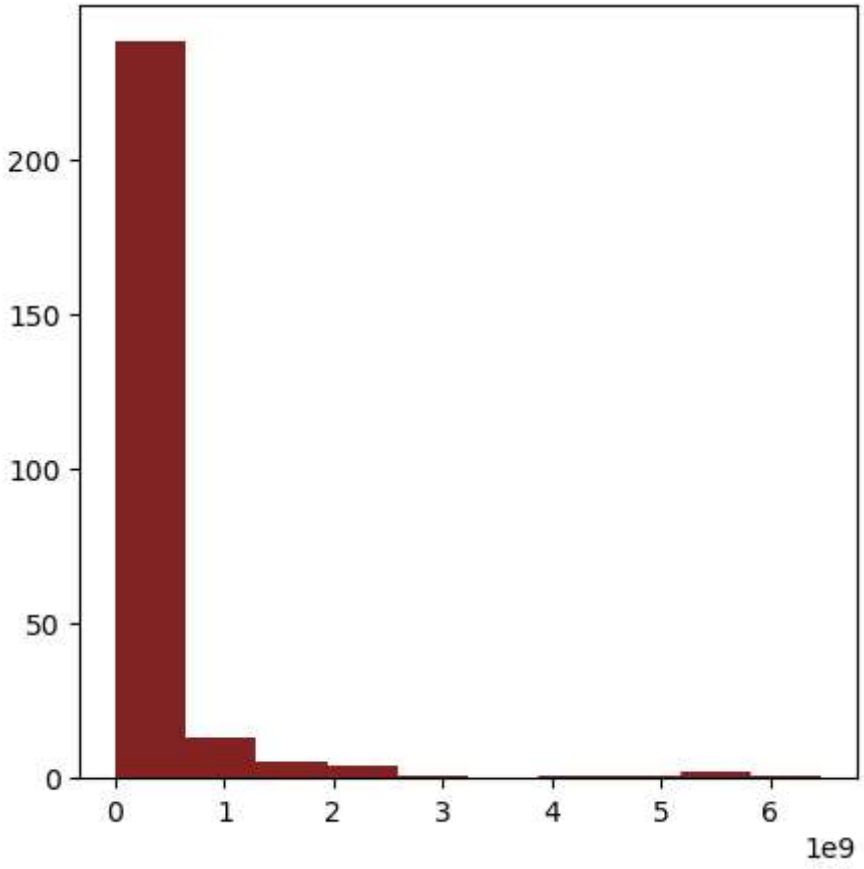
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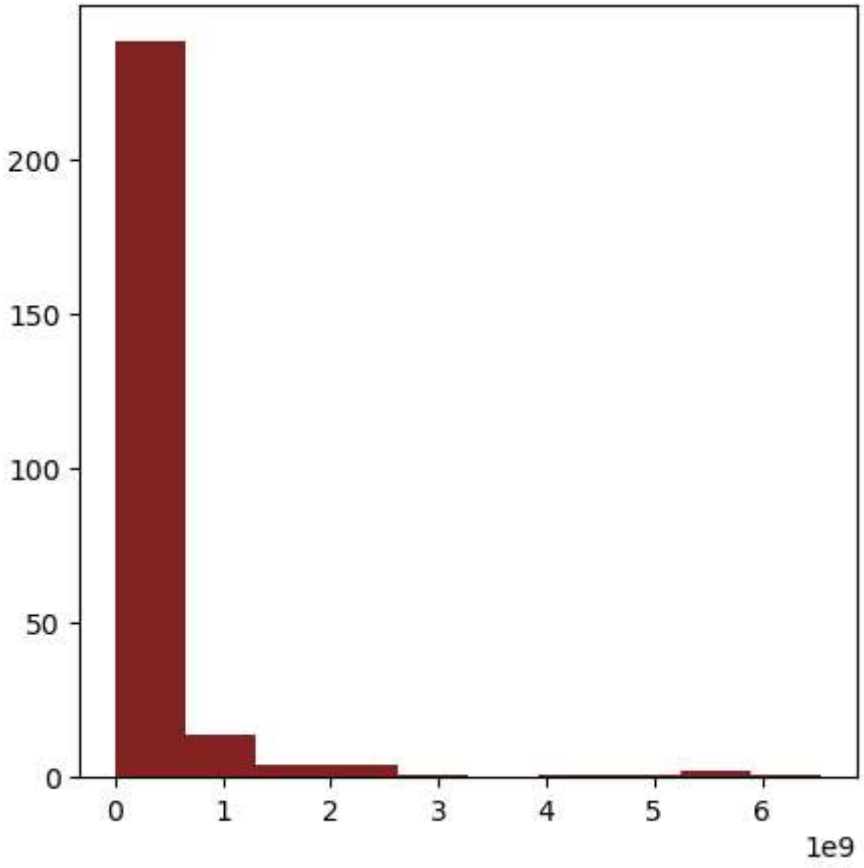
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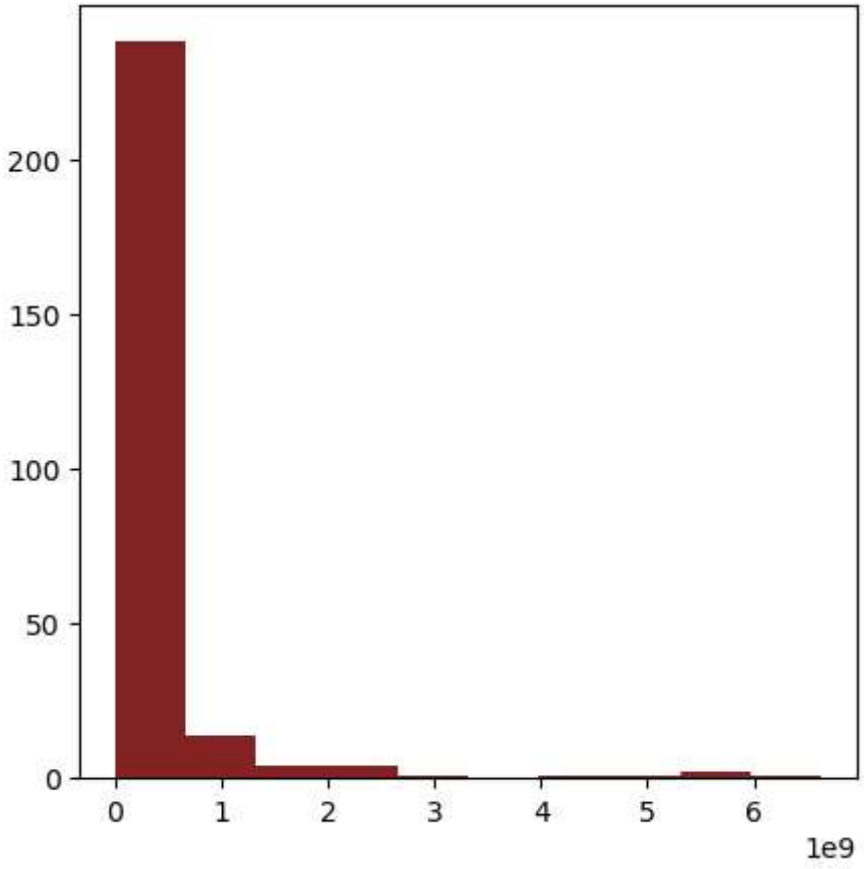
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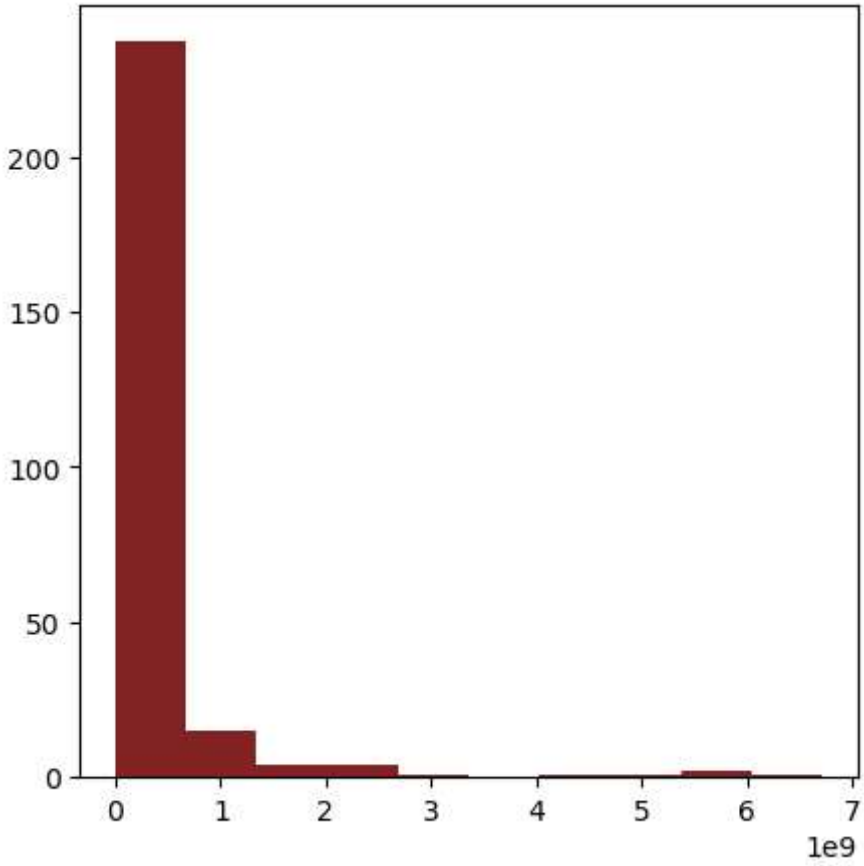
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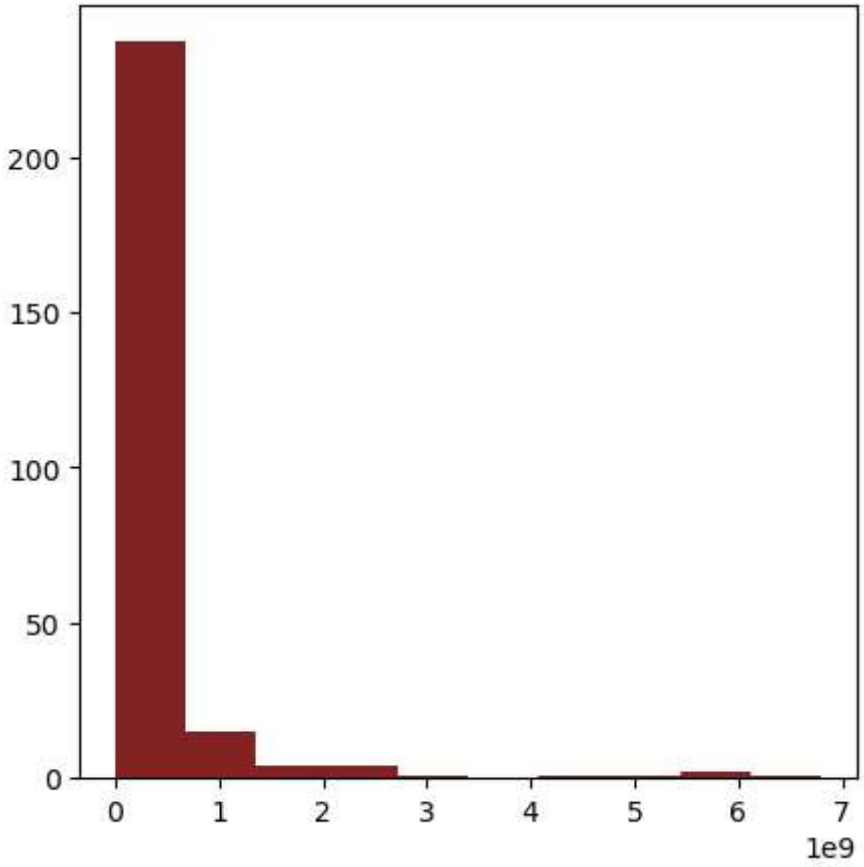
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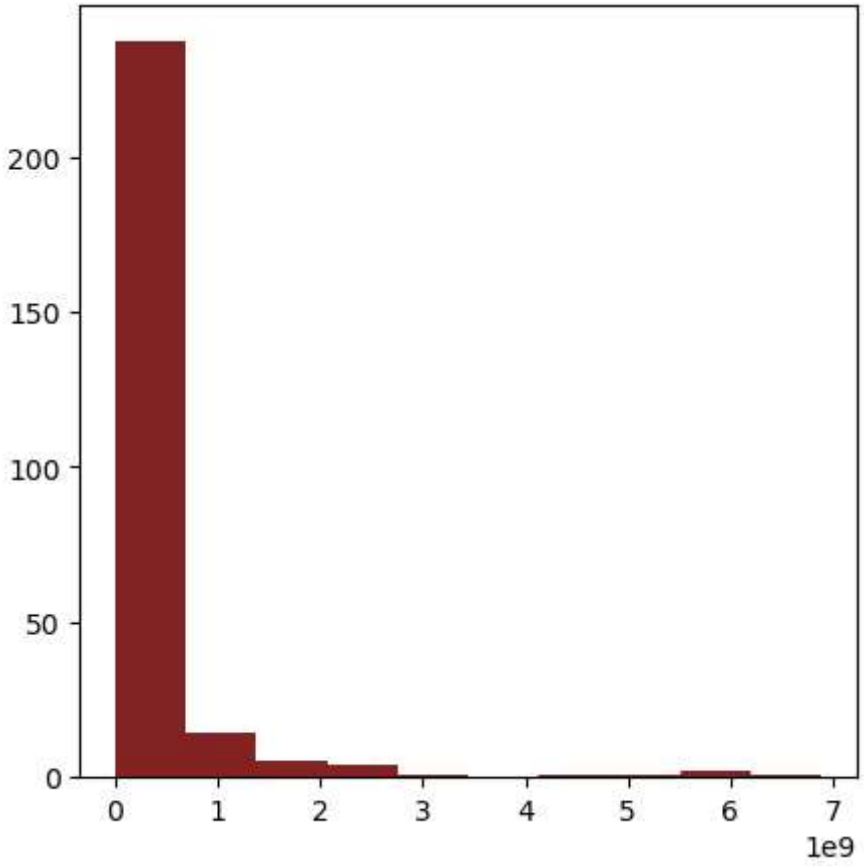
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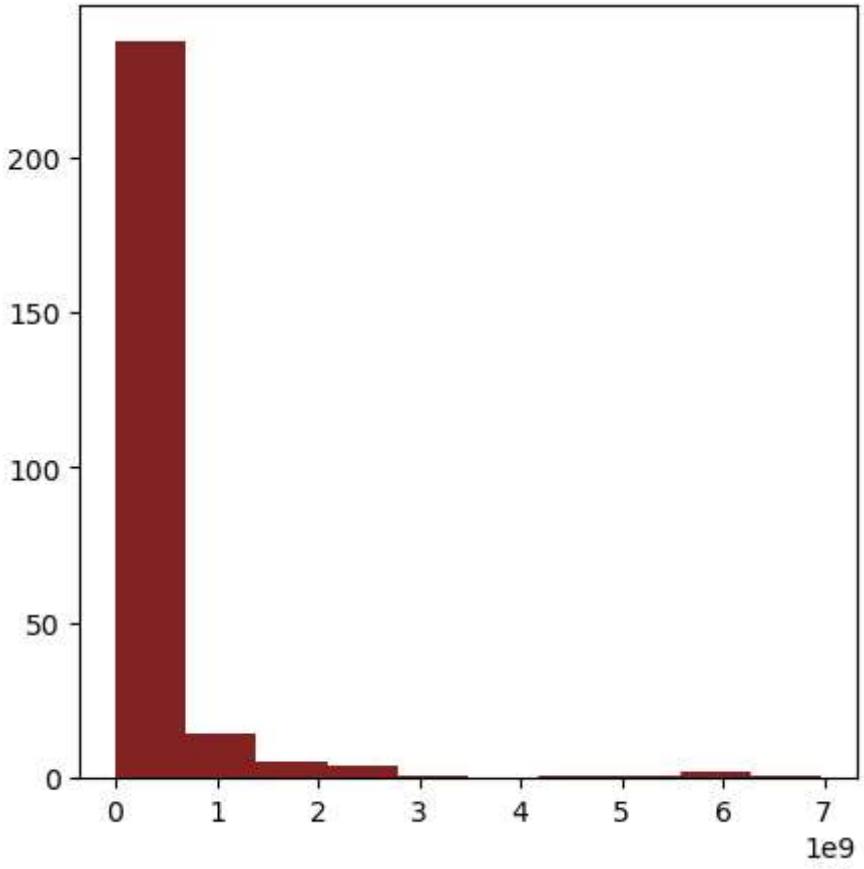
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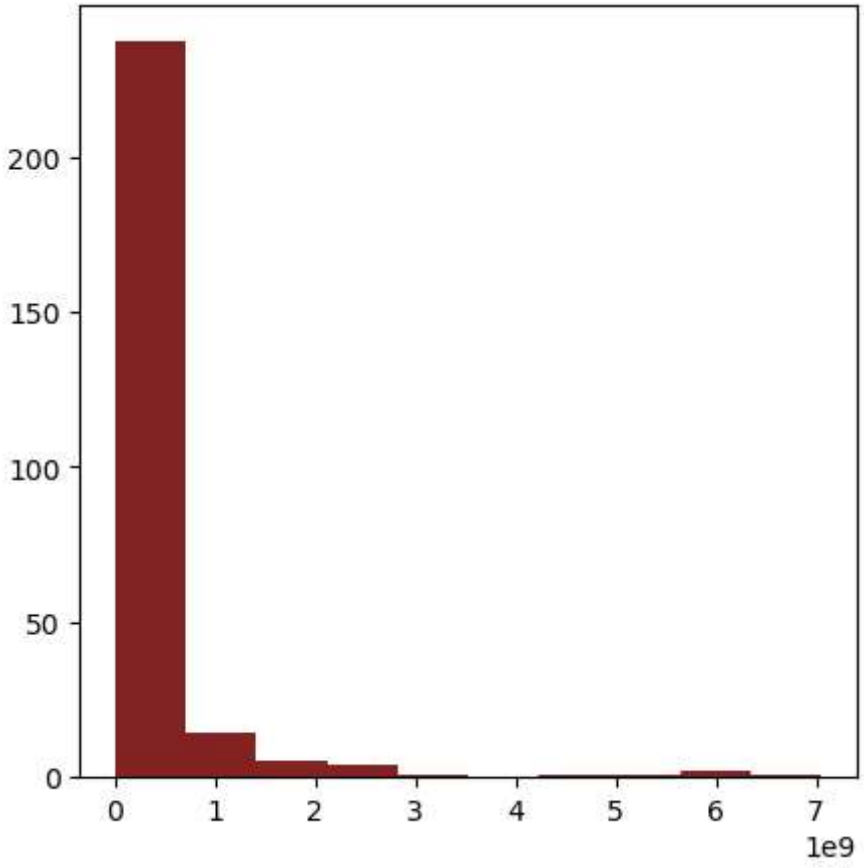
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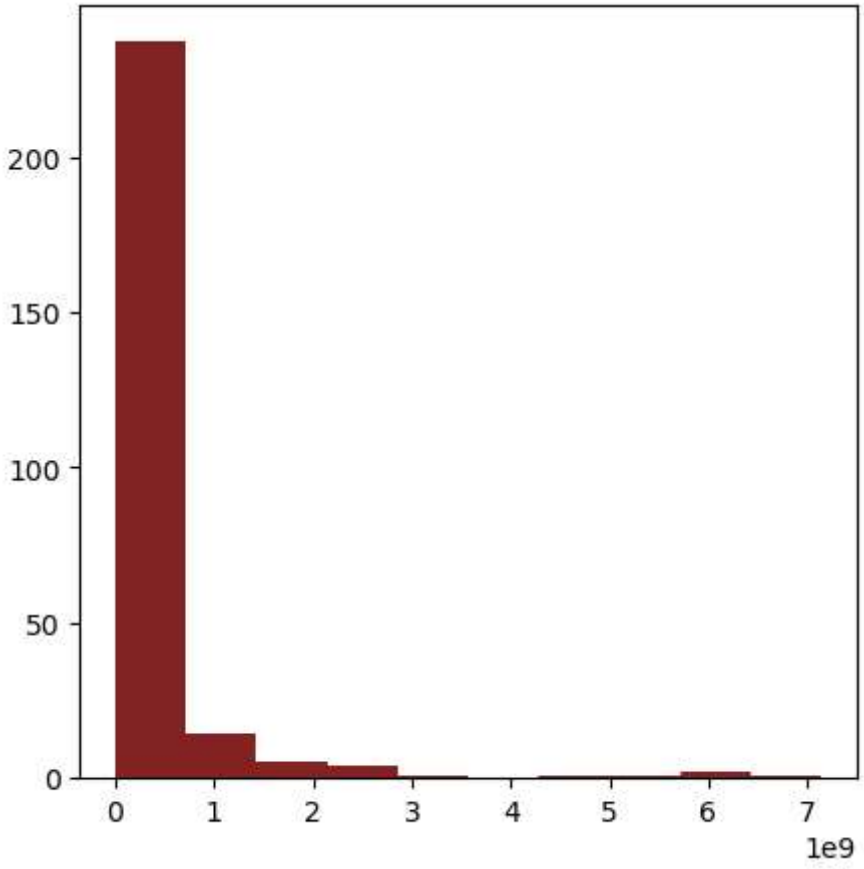
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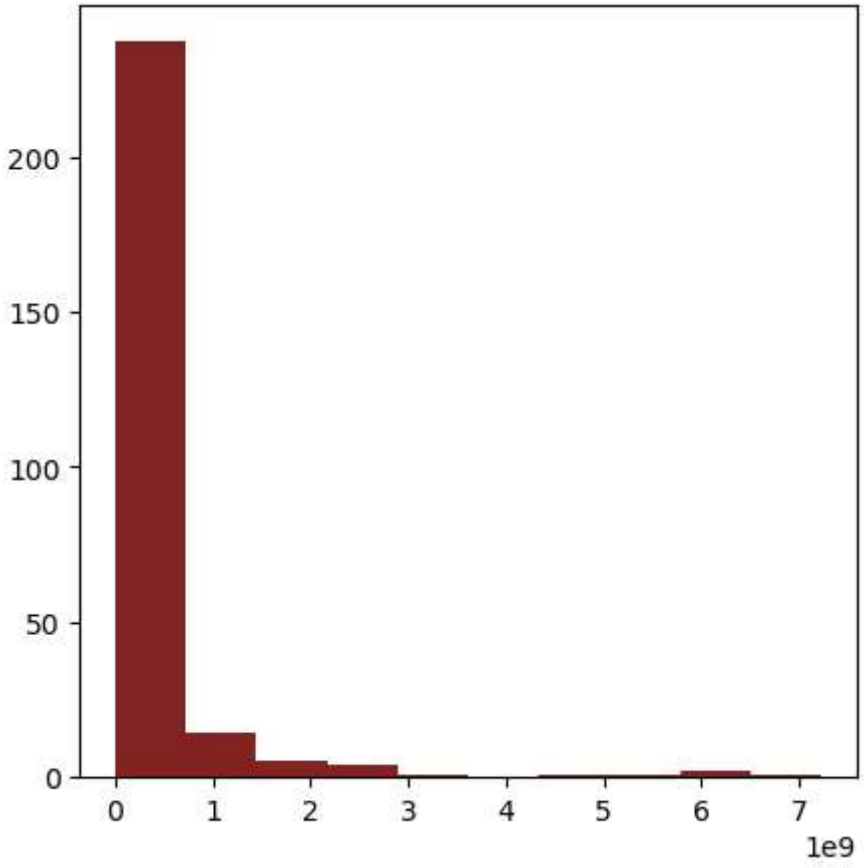
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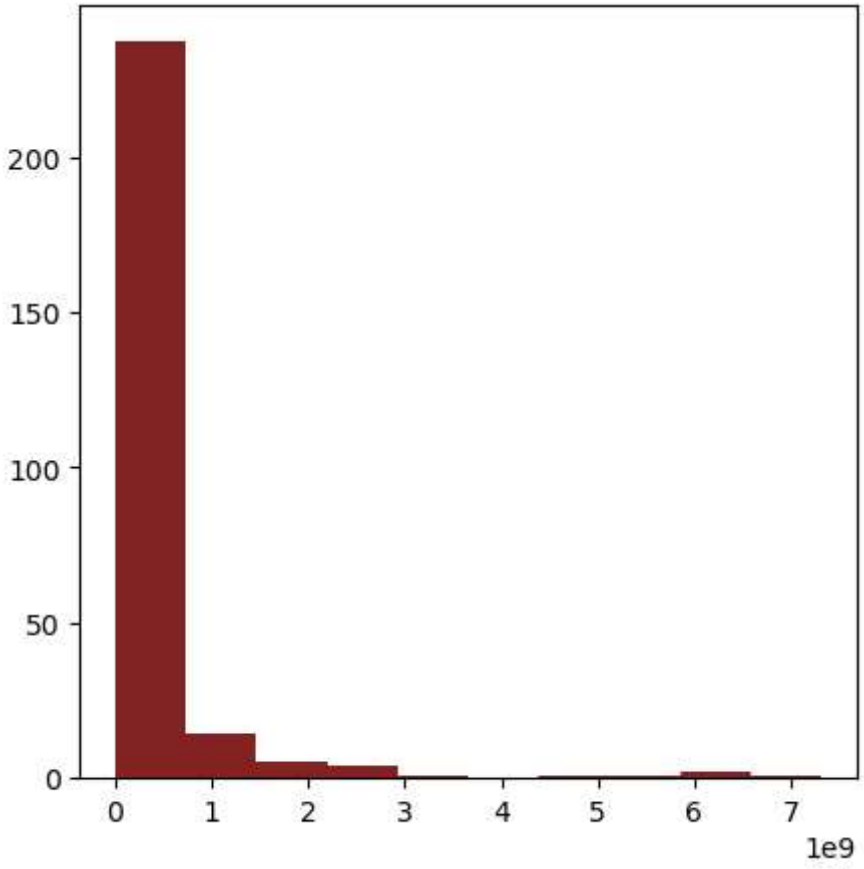
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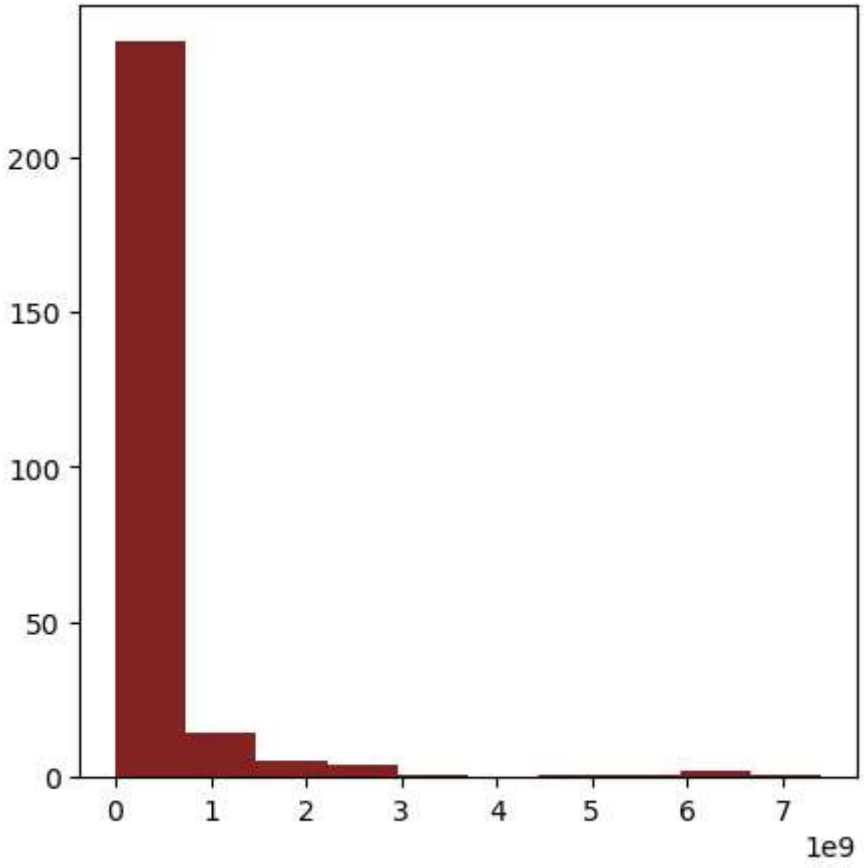
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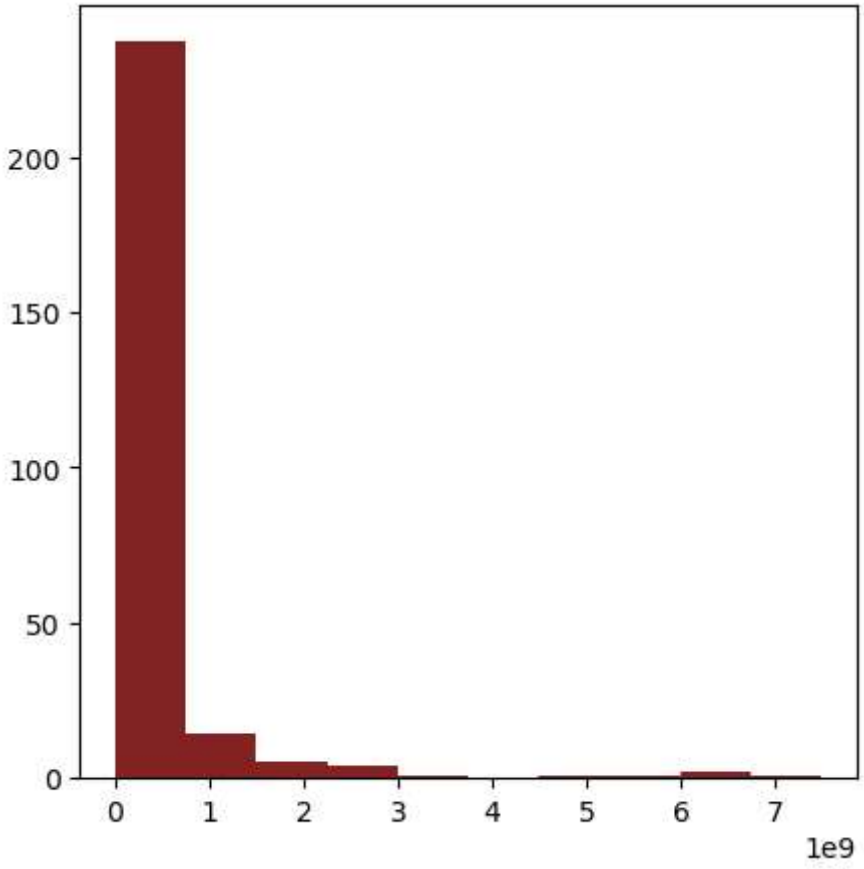
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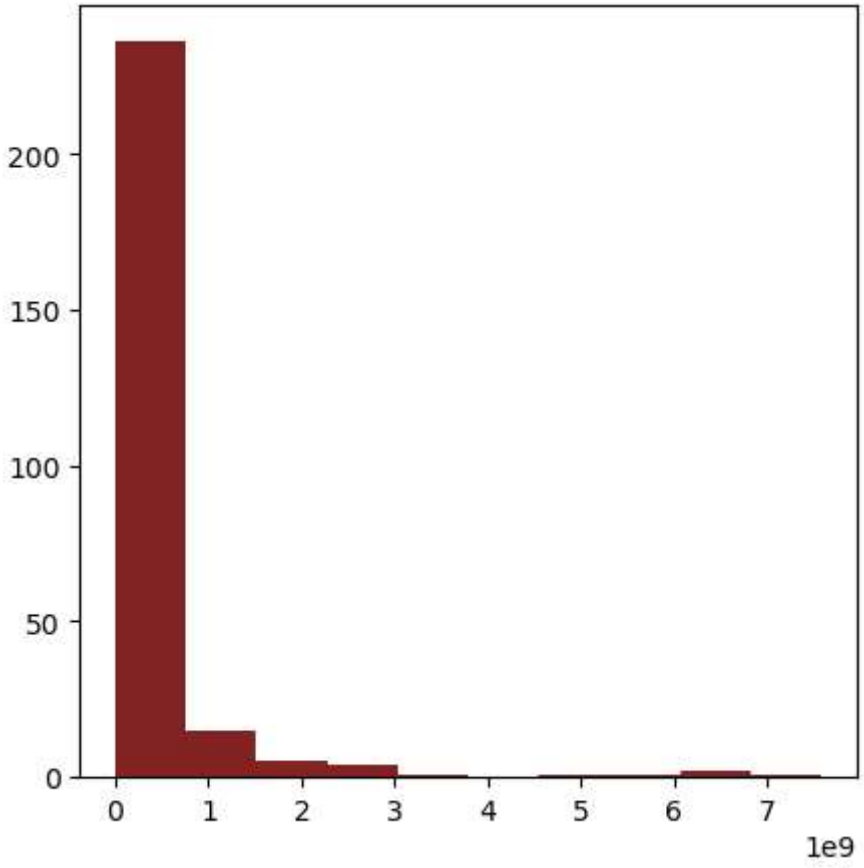
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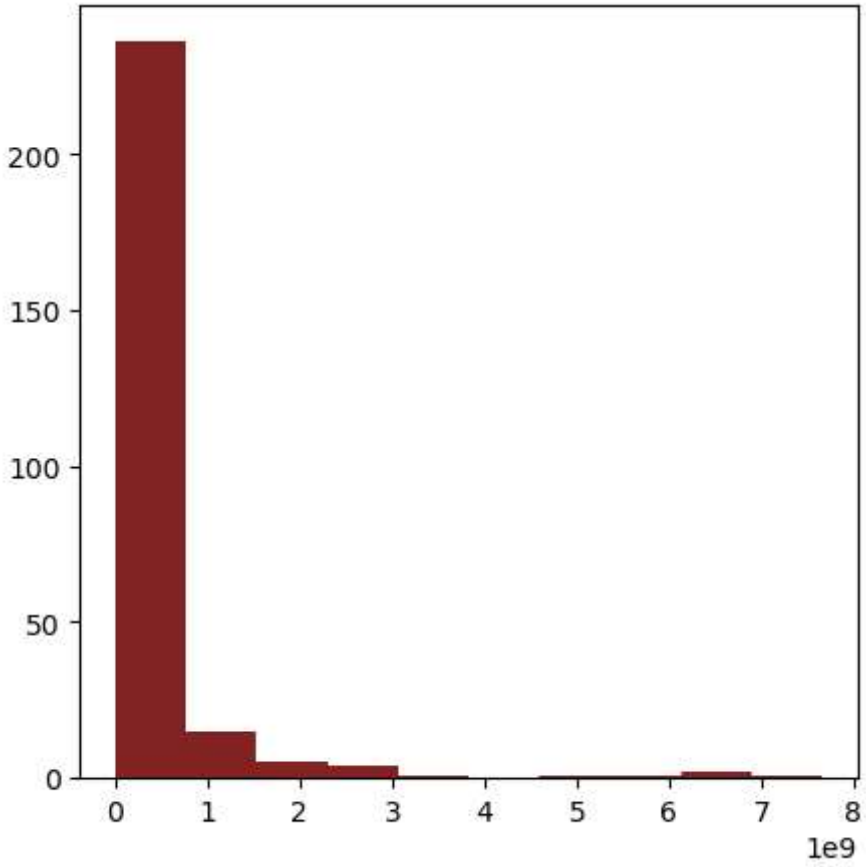
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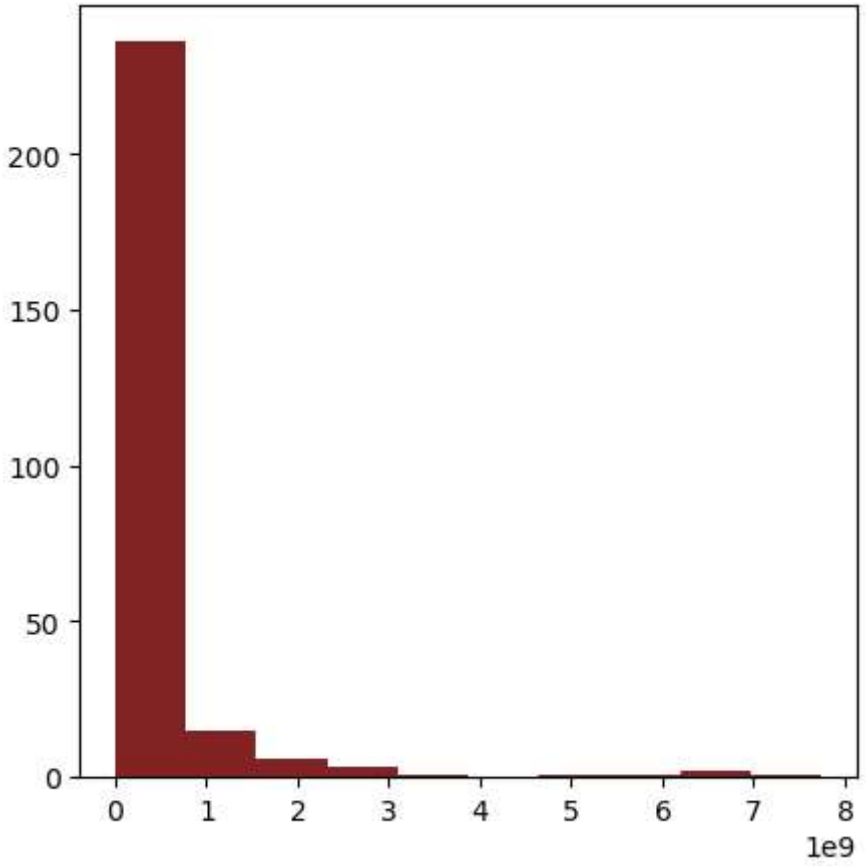
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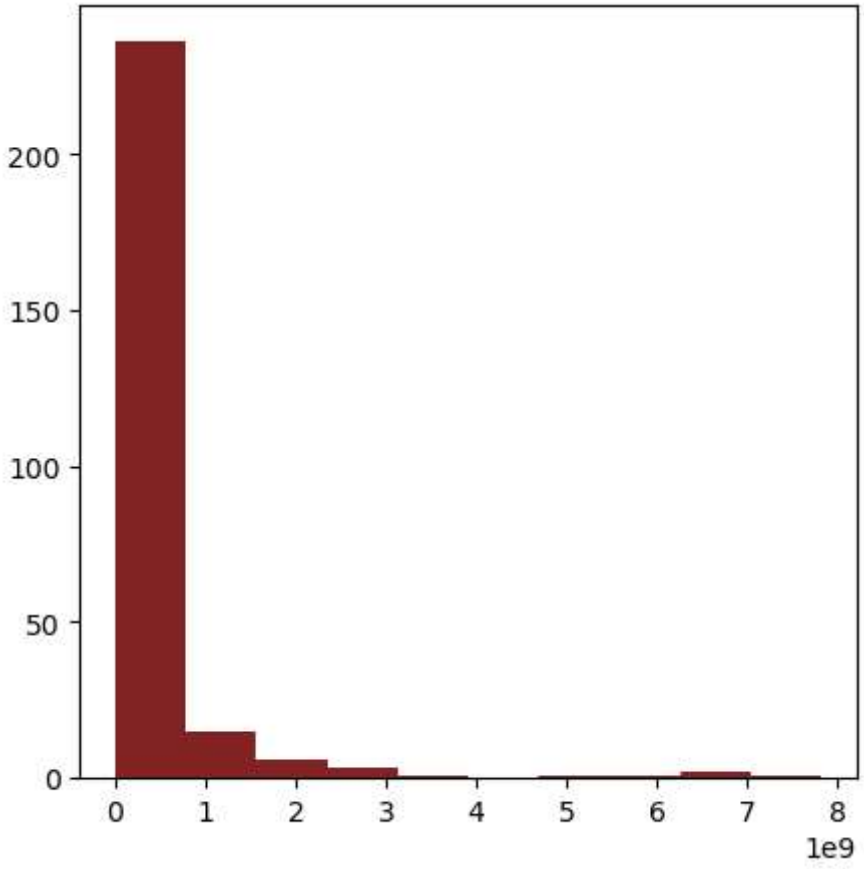
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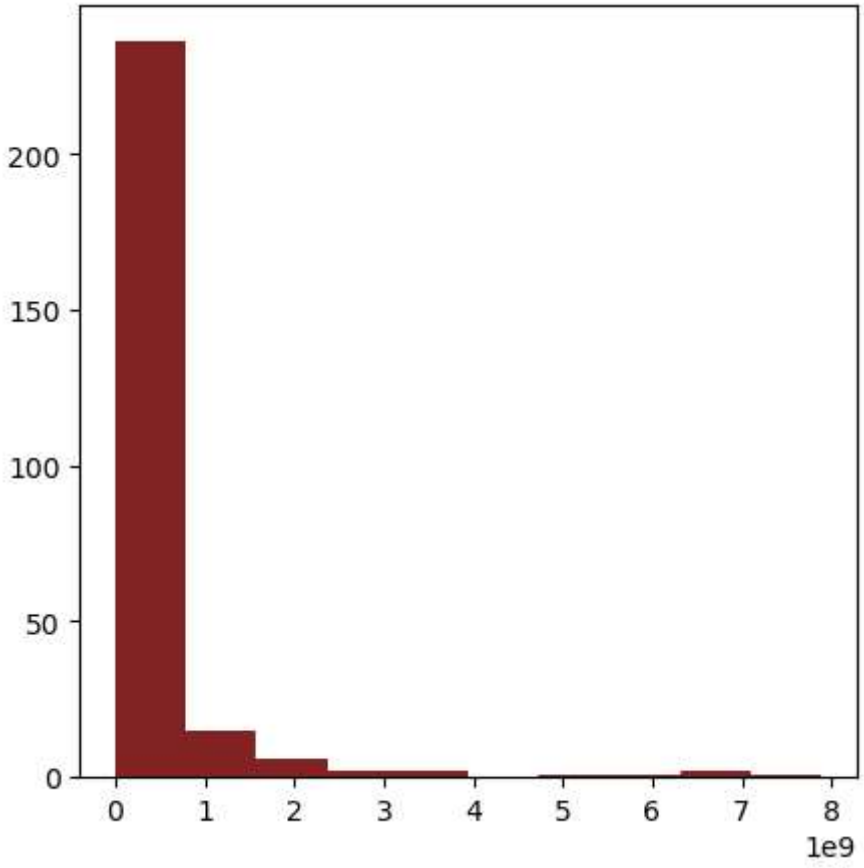
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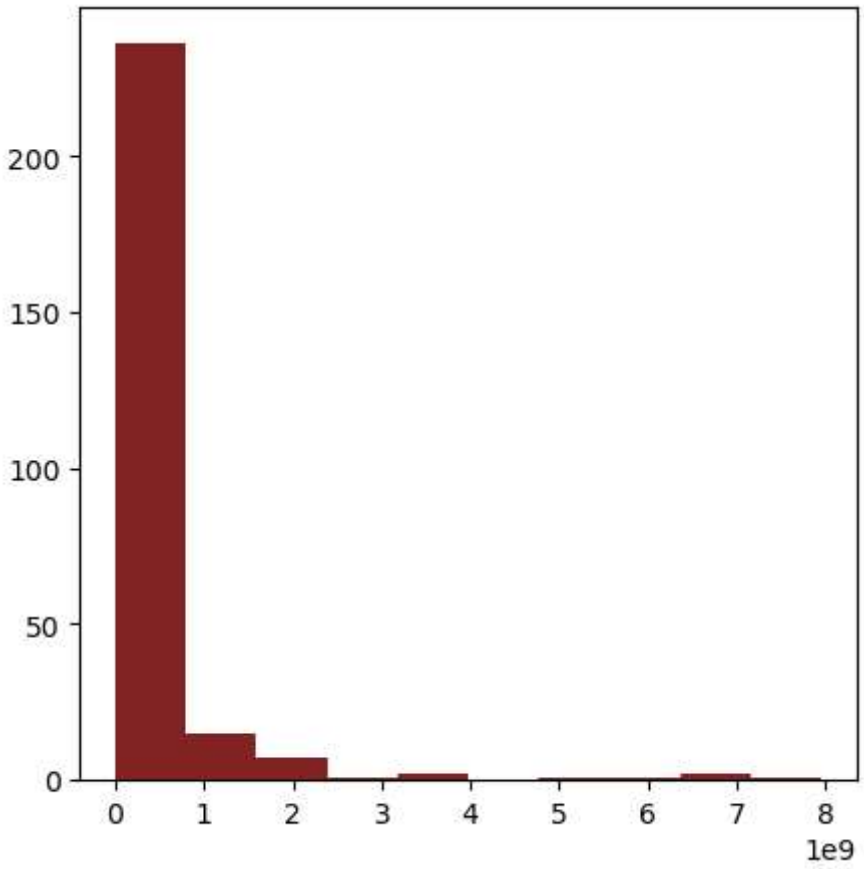
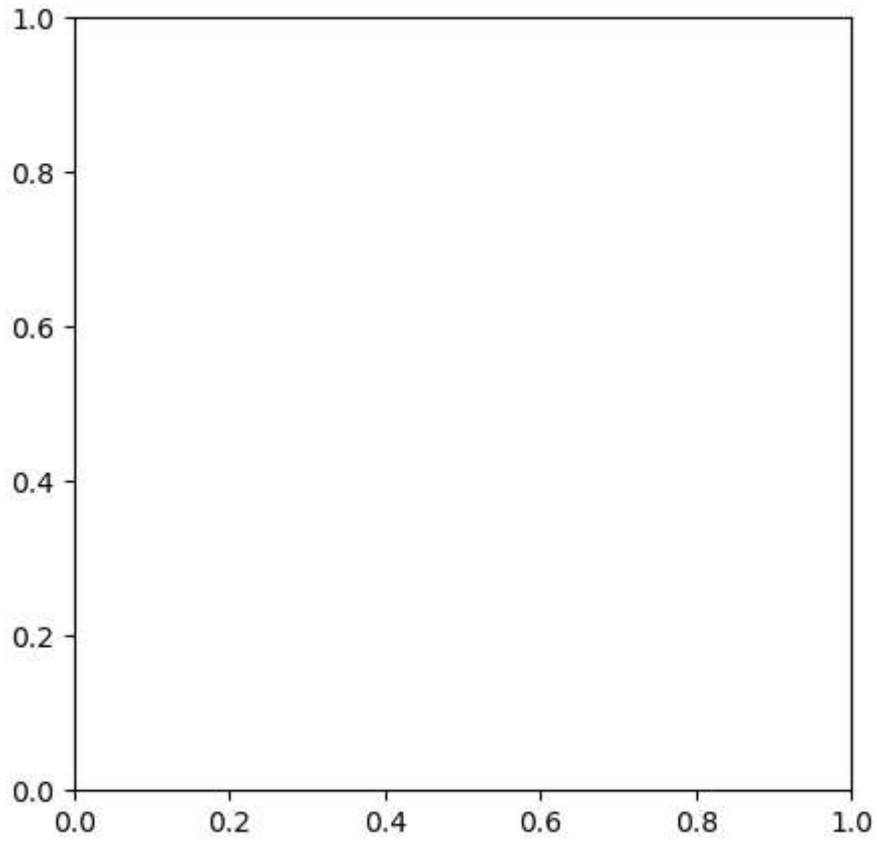



```
C:\Users\ADMIN\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:6763: RuntimeWarn
ing: All-NaN slice encountered
  xmin = min(xmin, np.nanmin(xi))
C:\Users\ADMIN\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:6764: RuntimeWarn
ing: All-NaN slice encountered
  xmax = max(xmax, np.nanmax(xi))
```

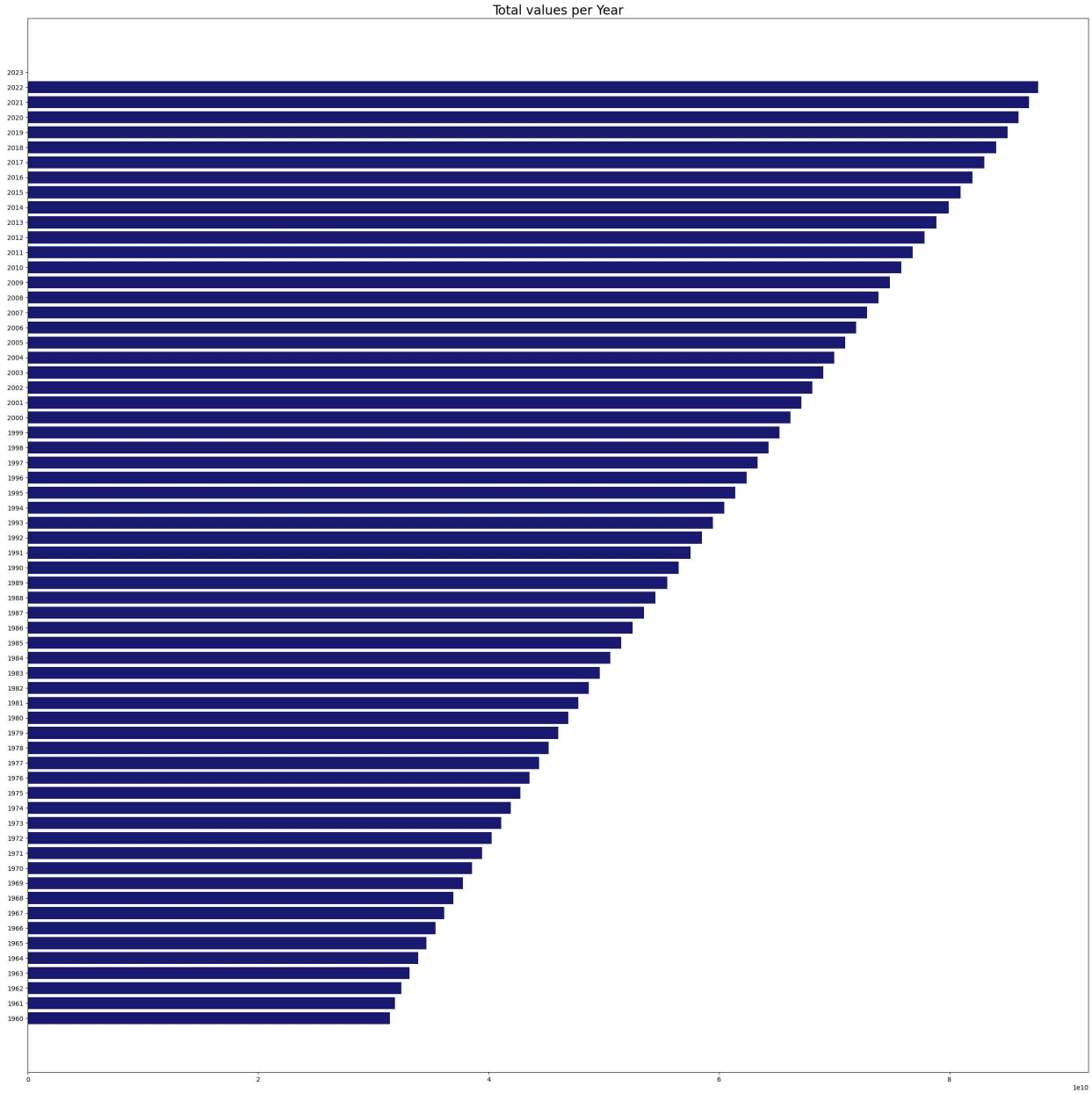
```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[97], line 3
      1 for i in cols:
      2     fig = plt.figure(figsize=(5,5))
----> 3     plt.hist(df[i],color='#822222',bins=10)
      5     plt.show()

File ~\anaconda3\Lib\site-packages\matplotlib\pyplot.py:2645, in hist(x, bins, range, density, weights, cumulative, bottom, histtype, align, orientation, rwidth, log, color, label, stacked, data, **kwargs)
   2639 @_copy_docstring_and_deprecators(Axes.hist)
   2640 def hist(
   2641         x, bins=None, range=None, density=False, weights=None,
   2642         cumulative=False, bottom=None, histtype='bar', align='mid',
   2643         orientation='vertical', rwidth=None, log=False, color=None,
   2644         label=None, stacked=False, *, data=None, **kwargs):
-> 2645     return gca().hist(
   2646         x, bins=bins, range=range, density=density, weights=weights,
   2647         cumulative=cumulative, bottom=bottom, histtype=histtype,
   2648         align=align, orientation=orientation, rwidth=rwidth, log=log,
   2649         color=color, label=label, stacked=stacked,
   2650         **({"data": data} if data is not None else {}), **kwargs)

File ~\anaconda3\Lib\site-packages\matplotlib\__init__.py:1446, in _preprocess_data.<locals>.inner(ax, data, *args, **kwargs)
   1443 @functools.wraps(func)
   1444 def inner(ax, *args, data=None, **kwargs):
   1445     if data is None:
-> 1446         return func(ax, *map(sanitize_sequence, args), **kwargs)
   1448     bound = new_sig.bind(ax, *args, **kwargs)
   1449     auto_label = (bound.arguments.get(label_namer)
   1450                   or bound.kwargs.get(label_namer))

File ~\anaconda3\Lib\site-packages\matplotlib\axes\_axes.py:6791, in Axes.hist(self, x, bins, range, density, weights, cumulative, bottom, histtype, align, orientation, rwidth, log, color, label, stacked, **kwargs)
   6787 # Loop through datasets
   6788 for i in range(nx):
   6789     # this will automatically overwrite bins,
   6790     # so that each histogram uses the same bins
-> 6791     m, bins = np.histogram(x[i], bins, weights=w[i], **hist_kwargs)
   6792     tops.append(m)
   6793 tops = np.array(tops, float)  # causes problems later if it's an int

File <__array_function__ internals>:200, in histogram(*args, **kwargs)

File ~\anaconda3\Lib\site-packages\numpy\lib\histograms.py:780, in histogram(a, bins, range, density, weights)
    680 r"""
    681 Compute the histogram of a dataset.
    682
   (...)
    776
    777 """
    778 a, weights = _ravel_and_check_weights(a, weights)
--> 780 bin_edges, uniform_bins = _get_bin_edges(a, bins, range, weights)
    782 # Histogram is an integer or a float array depending on the weights.
    783 if weights is None:
```

```
File ~\anaconda3\Lib\site-packages\numpy\lib\histograms.py:426, in _get_bin_edges(a,
bins, range, weights)
    423     if n_equal_bins < 1:
    424         raise ValueError('`bins` must be positive, when an integer')
--> 426     first_edge, last_edge = _get_outer_edges(a, range)
    428 elif np.ndim(bins) == 1:
    429     bin_edges = np.asarray(bins)

File ~\anaconda3\Lib\site-packages\numpy\lib\histograms.py:323, in _get_outer_edges
(a, range)
    321     first_edge, last_edge = a.min(), a.max()
    322     if not (np.isfinite(first_edge) and np.isfinite(last_edge)):
--> 323         raise ValueError(
    324             "autodetected range of [{}, {}] is not finite".format(first_edge,
last_edge))
    326 # expand empty range to avoid divide by zero
    327 if first_edge == last_edge:

ValueError: autodetected range of [nan, nan] is not finite
```



In [90]:

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

total_values = df[years].sum()

plt.figure(figsize=(30, 30))
plt.barh(years, total_values,color='#191970')


plt.title('Total values per Year', size=20)
plt.show()
```



In [91]:
```
country_by_1960 = df.sort_values(by='1960').head(20)
country_by_1960
```

Out[91]:

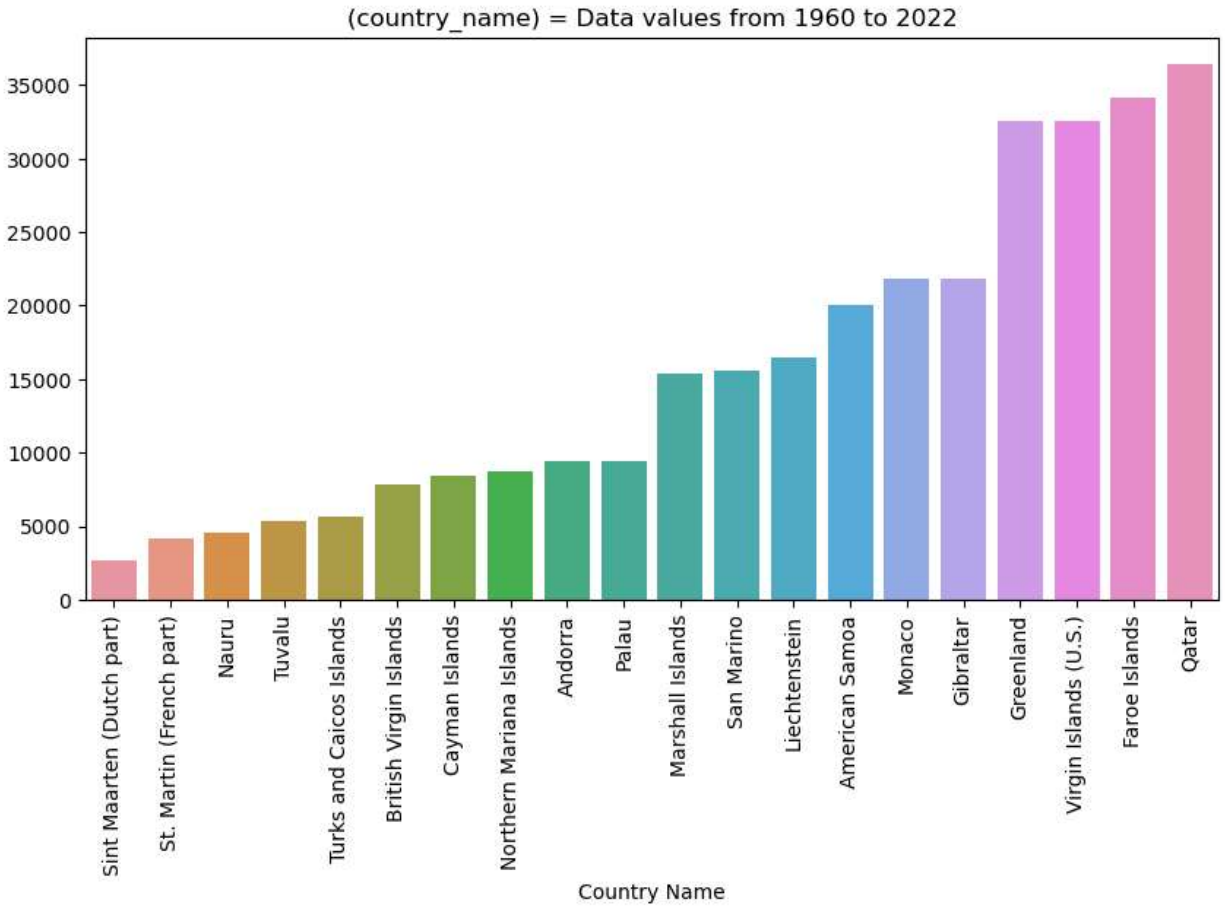
	Country Name	1960	1961	1962	1963	1964	1965	1966	1967	1968	...
225	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0	3481.0	3811.0	4161.0	4531.0	4930.0	5354.0	...
147	St. Martin (French part)	4135.0	4258.0	4388.0	4524.0	4666.0	4832.0	5044.0	5294.0	5497.0	...
179	Nauru	4582.0	4753.0	4950.0	5198.0	5484.0	5804.0	6021.0	6114.0	6288.0	...
245	Tuvalu	5404.0	5436.0	5471.0	5503.0	5525.0	5548.0	5591.0	5657.0	5729.0	...
228	Turks and Caicos Islands	5604.0	5625.0	5633.0	5634.0	5642.0	5650.0	5652.0	5662.0	5668.0	...
255	British Virgin Islands	7850.0	7885.0	7902.0	7919.0	7949.0	8018.0	8139.0	8337.0	8649.0	...
52	Cayman Islands	8473.0	8626.0	8799.0	8985.0	9172.0	9366.0	9566.0	9771.0	9981.0	...
164	Northern Mariana Islands	8702.0	8965.0	9252.0	9561.0	9890.0	10229.0	10577.0	10720.0	10440.0	...
6	Andorra	9443.0	10216.0	11014.0	11839.0	12690.0	13563.0	14546.0	15745.0	17079.0	...
188	Palau	9446.0	9639.0	9851.0	10076.0	10318.0	10563.0	10813.0	10992.0	11079.0	...
155	Marshall Islands	15374.0	15867.0	16387.0	16947.0	17537.0	18154.0	18794.0	19665.0	21001.0	...
212	San Marino	15556.0	15895.0	16242.0	16583.0	16926.0	17273.0	17588.0	17907.0	18291.0	...
137	Liechtenstein	16472.0	16834.0	17221.0	17625.0	18058.0	18500.0	18957.0	19467.0	20011.0	...
11	American Samoa	20085.0	20626.0	21272.0	21949.0	22656.0	23391.0	24122.0	24848.0	25608.0	...
149	Monaco	21797.0	21907.0	22106.0	22442.0	22766.0	23022.0	23198.0	23281.0	23481.0	...
84	Gibraltar	21822.0	21907.0	22249.0	22796.0	23347.0	23910.0	24477.0	25047.0	25610.0	...
91	Greenland	32500.0	33700.0	35000.0	36400.0	37600.0	39200.0	40500.0	41900.0	43400.0	...
256	Virgin Islands (U.S.)	32500.0	34300.0	35000.0	39800.0	40800.0	43500.0	46200.0	49100.0	55700.0	...
78	Faroe Islands	34154.0	34572.0	34963.0	35385.0	35841.0	36346.0	36825.0	37234.0	37630.0	...
200	Qatar	36385.0	40111.0	45123.0	50950.0	57531.0	64843.0	73102.0	82517.0	93022.0	...

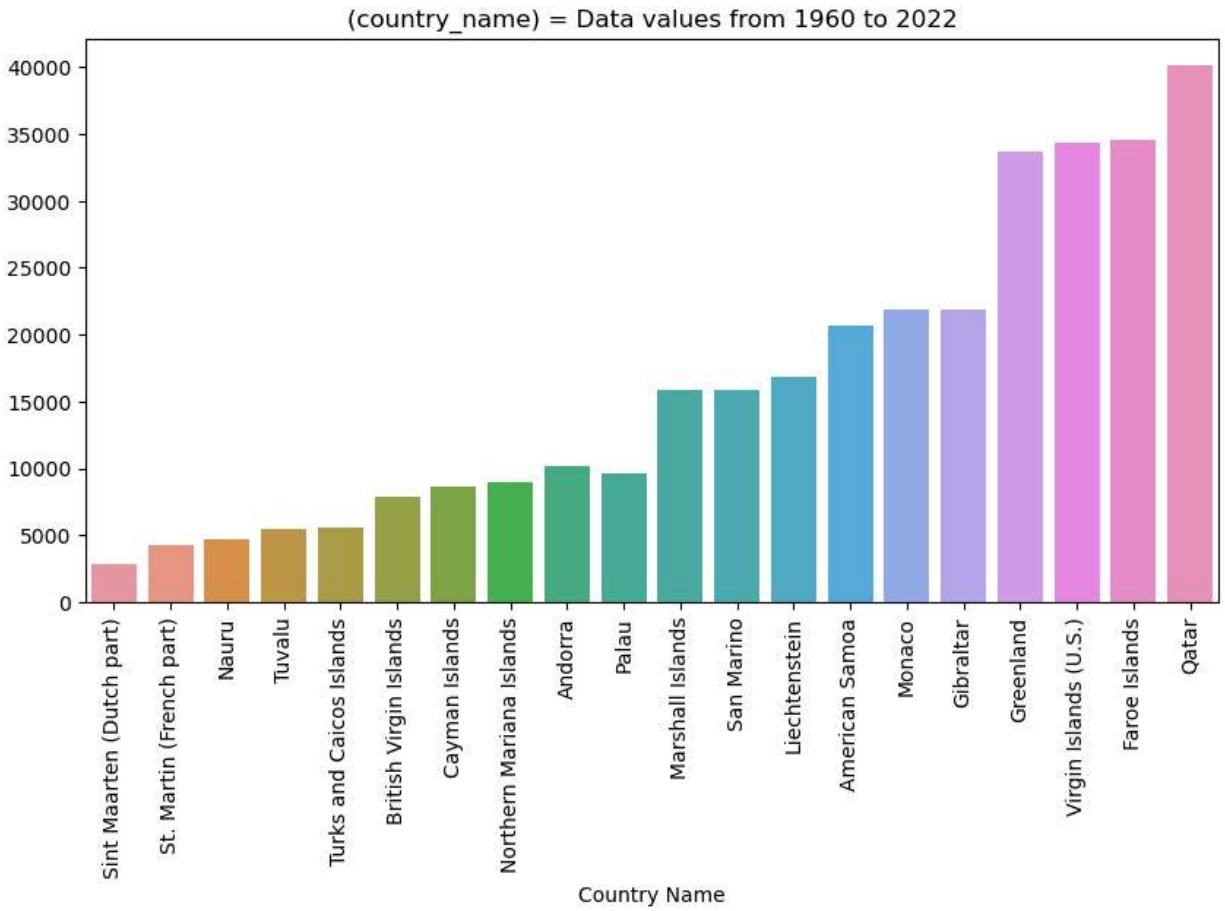
20 rows × 65 columns

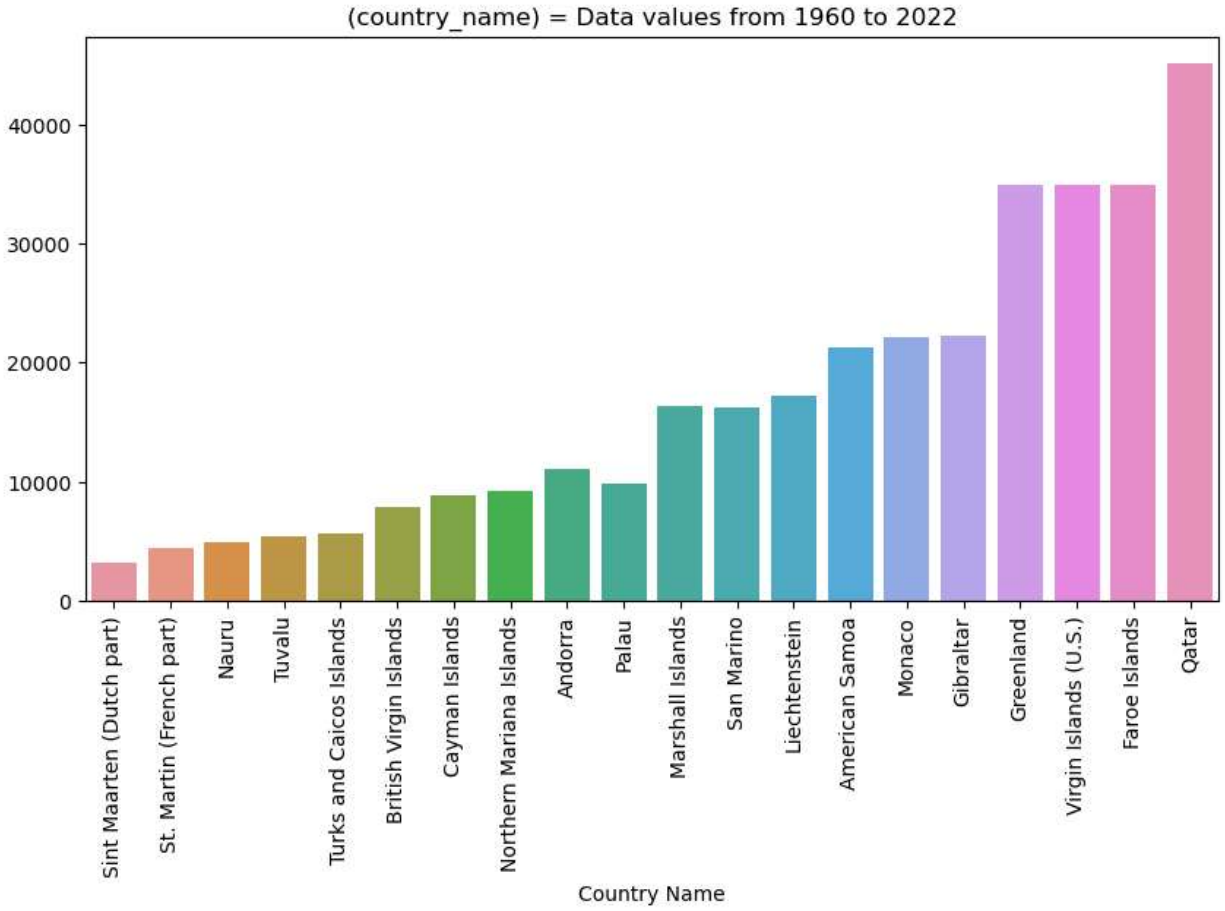
In [92]:

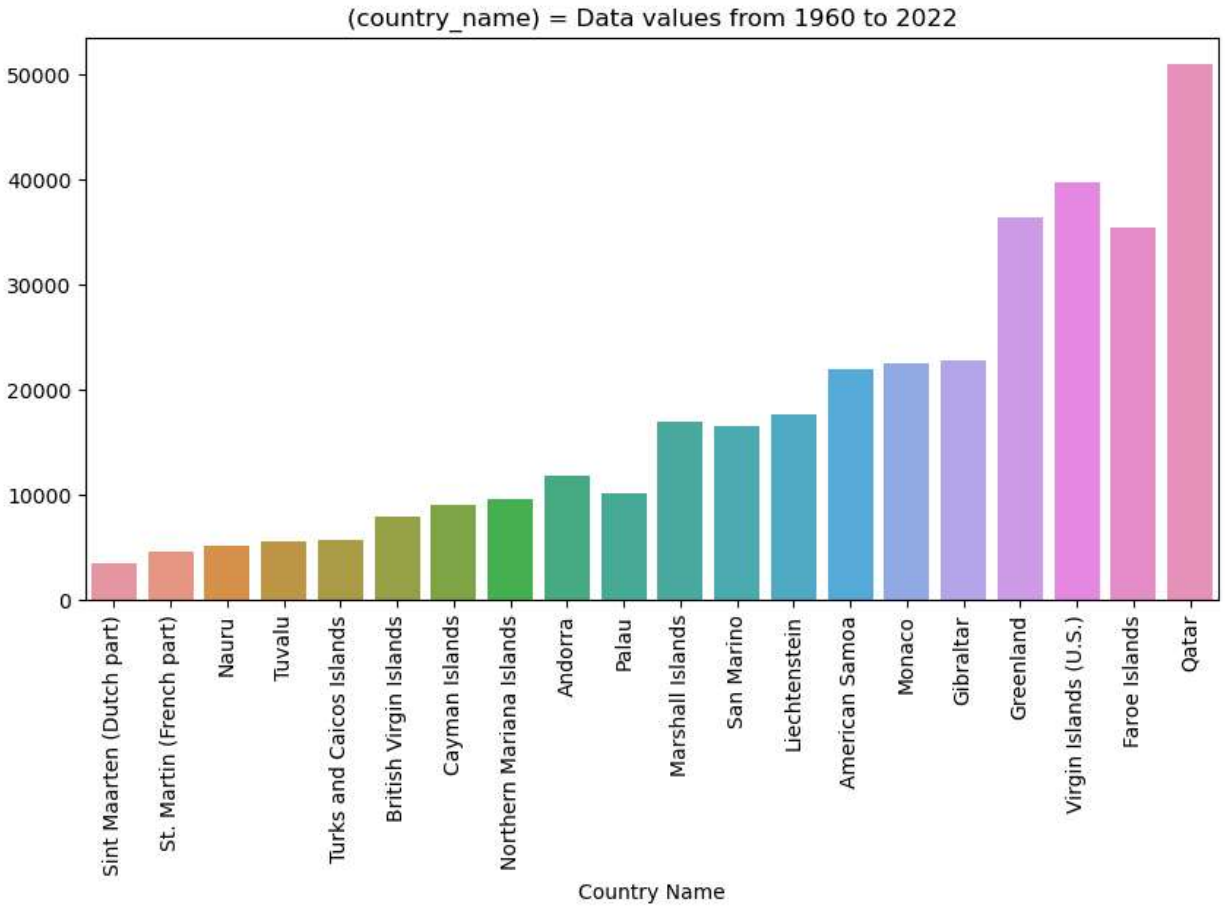
```
import seaborn as sns
country_by_1960_t = country_by_1960.set_index('Country Name').T
for country_name, data_values in country_by_1960_t.iterrows():
    fig = plt.figure(figsize=(10, 5))
    sns.barplot(x=data_values.index, y=data_values.values)

    plt.title(f"(country_name) = Data values from 1960 to 2022")
```

```
    plt.xticks(rotation=90)
    plt.show()
```






(country_name) = Data values from 1960 to 2022
40000
30000
20000
10000
0
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name


(country_name) = Data values from 1960 to 2022
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40000
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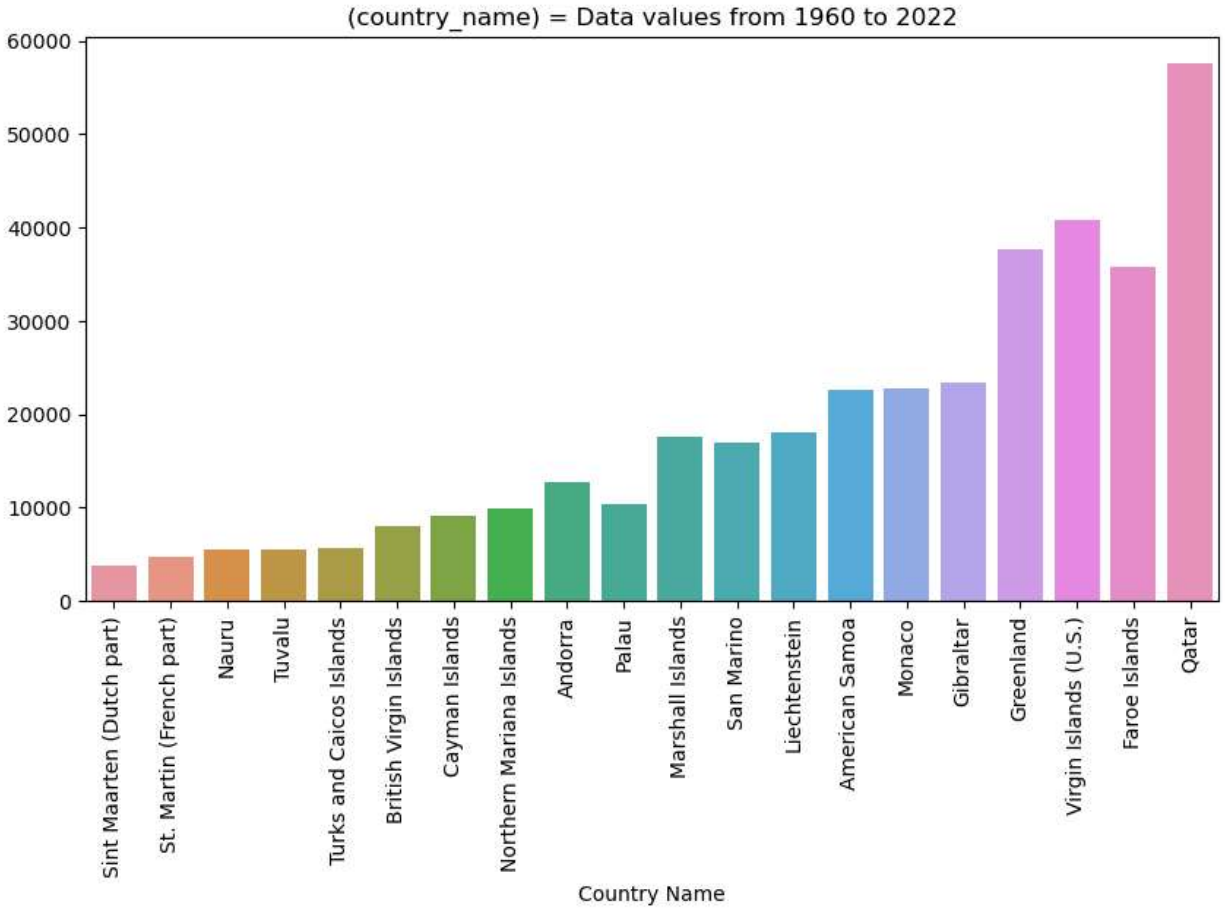
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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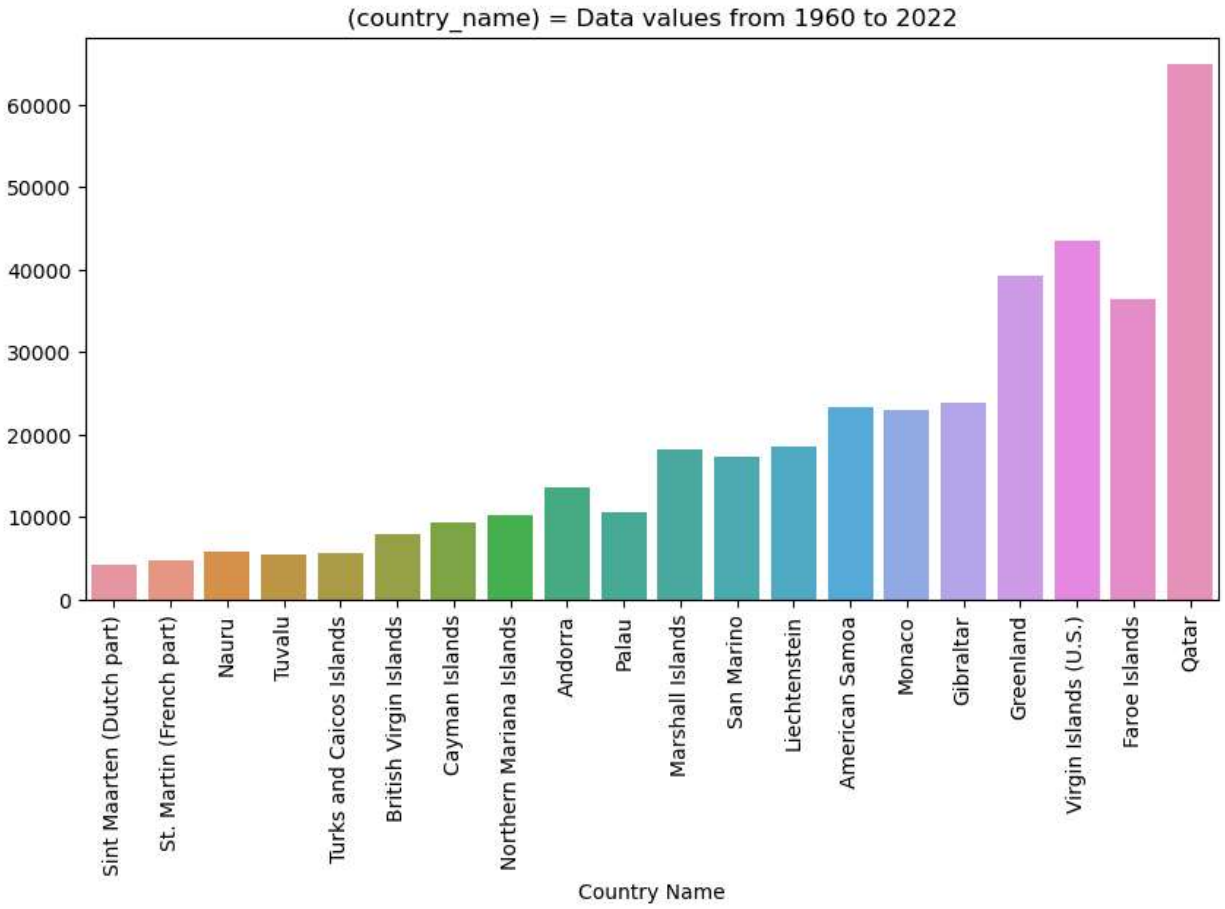
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name


(country_name) = Data values from 1960 to 2022
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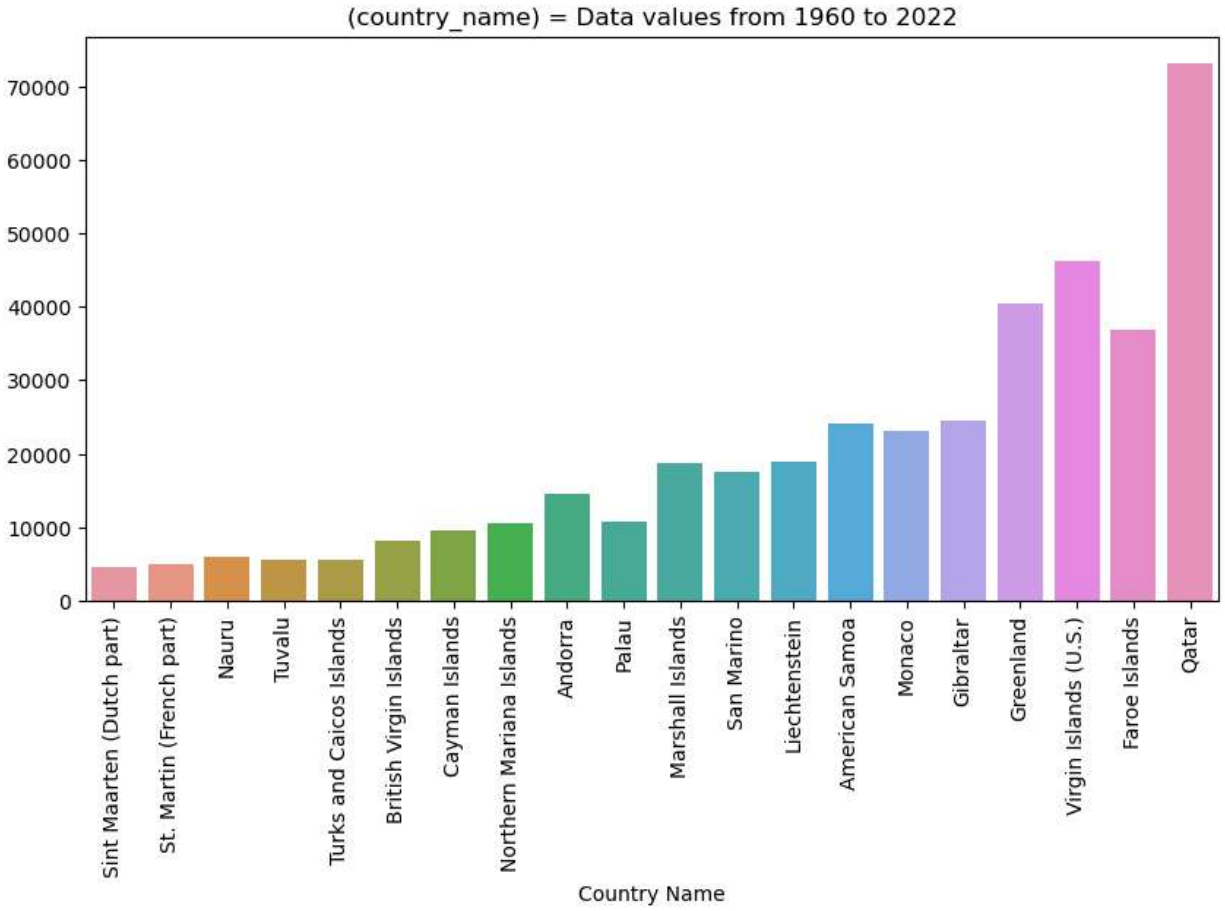
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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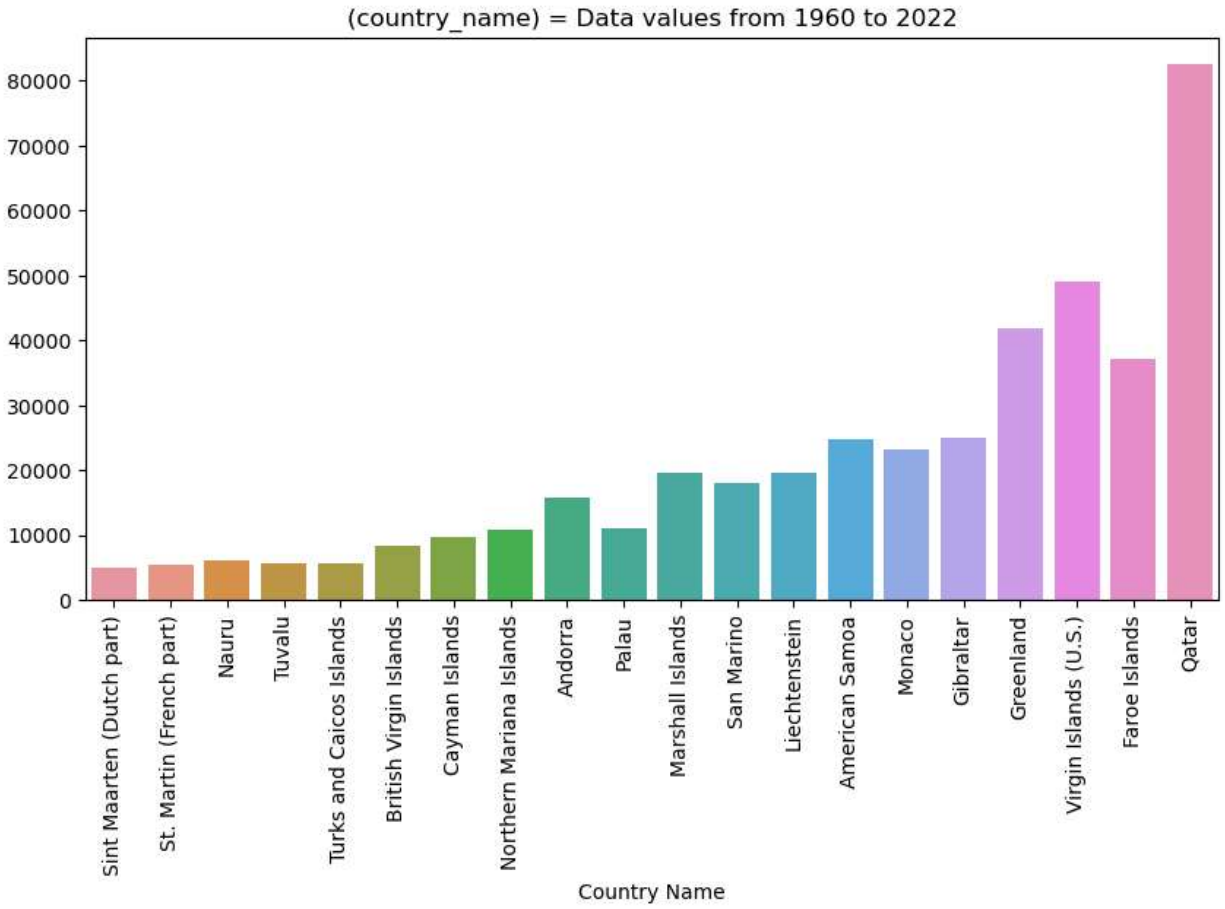
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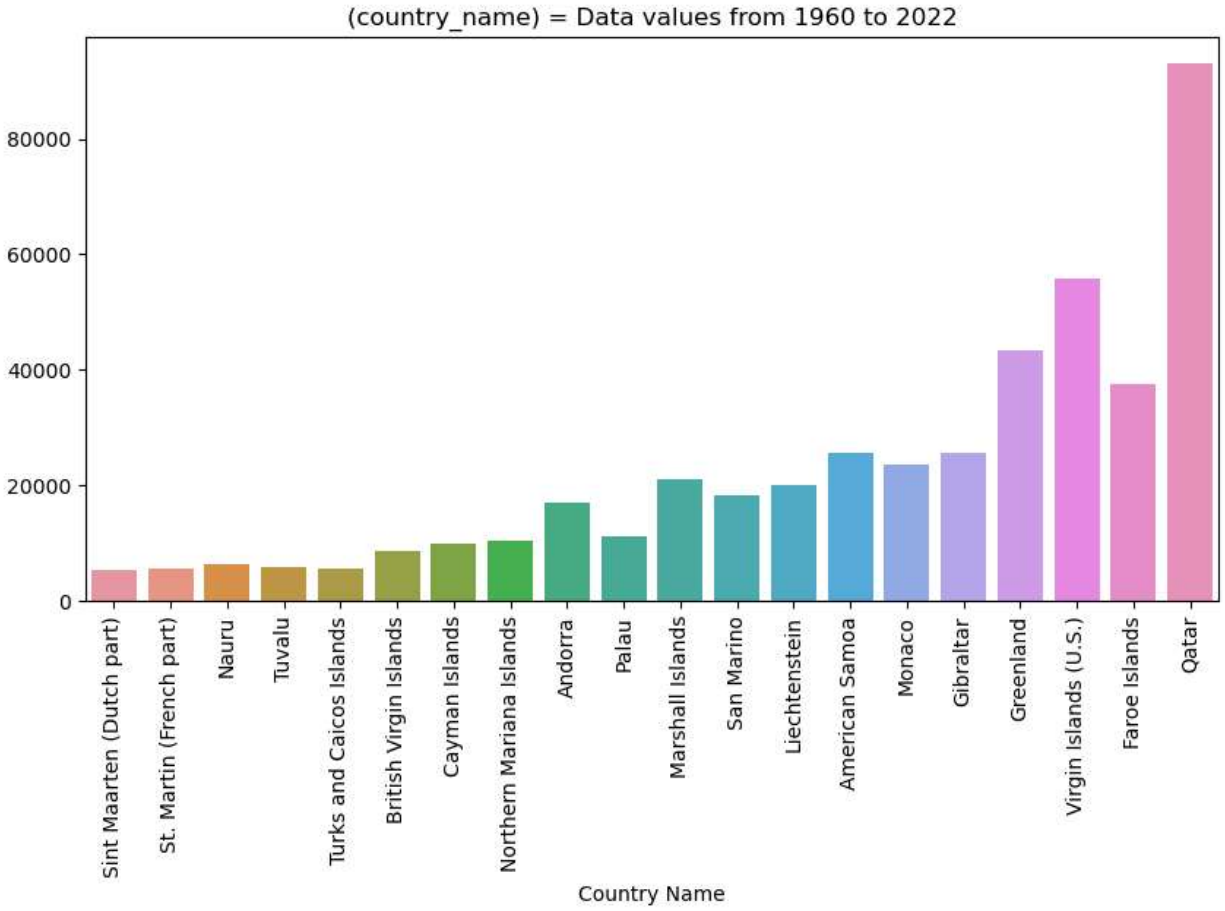
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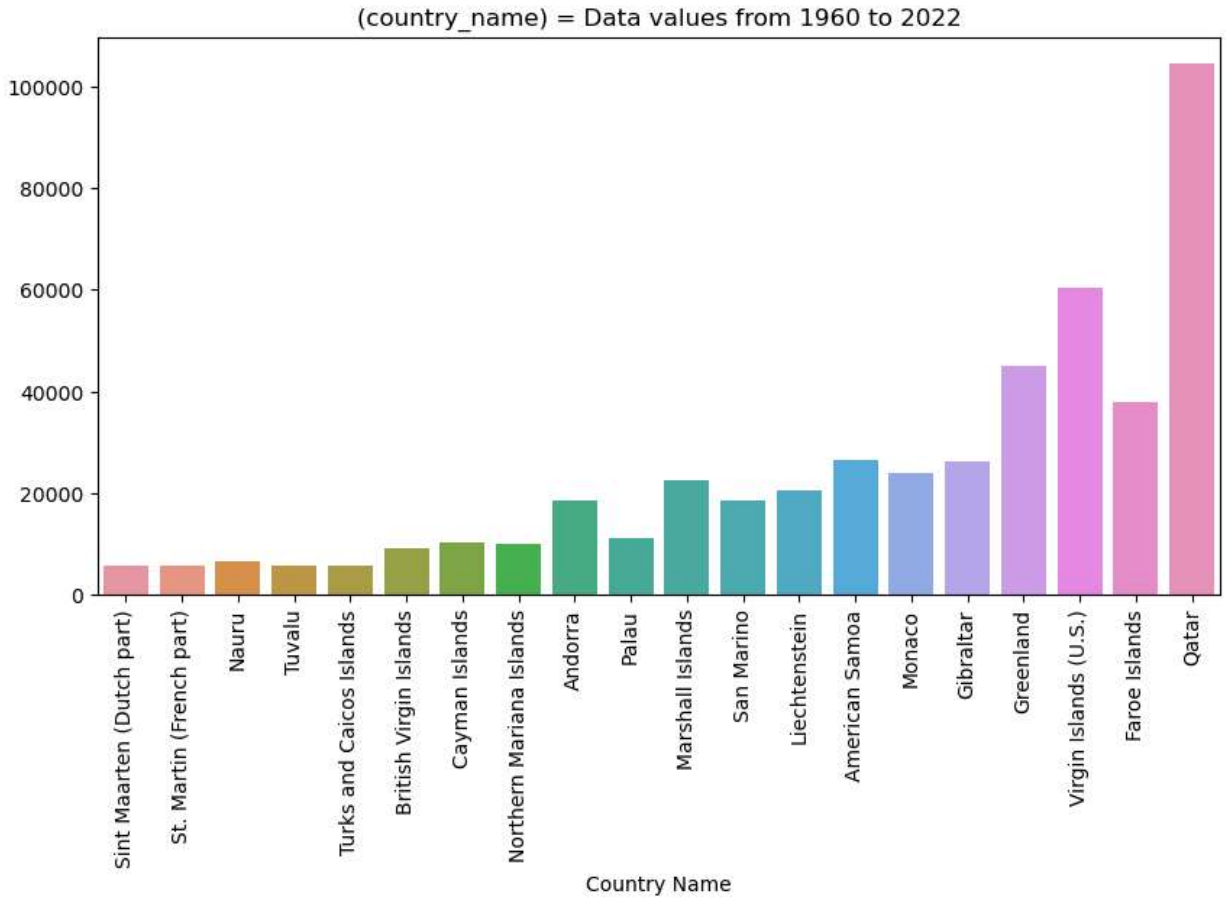
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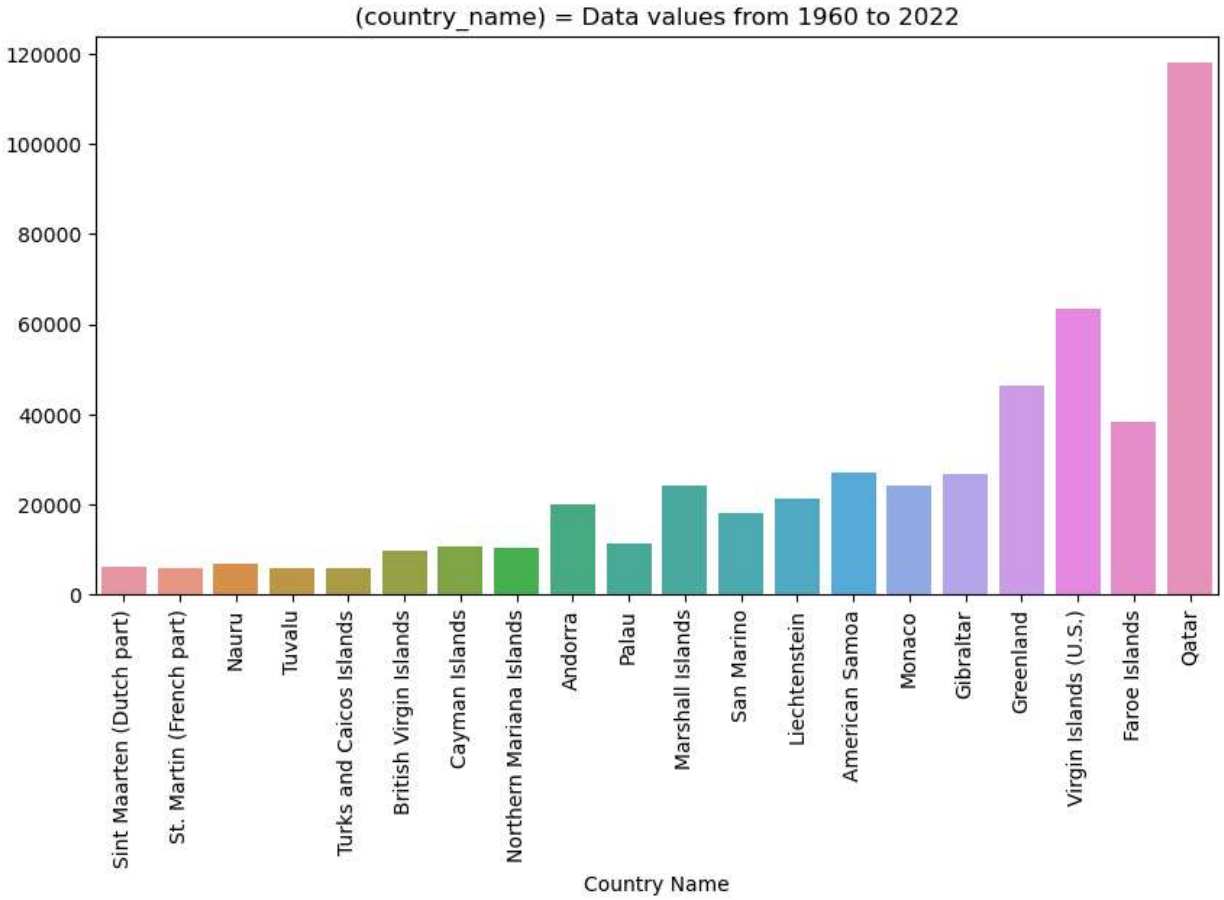
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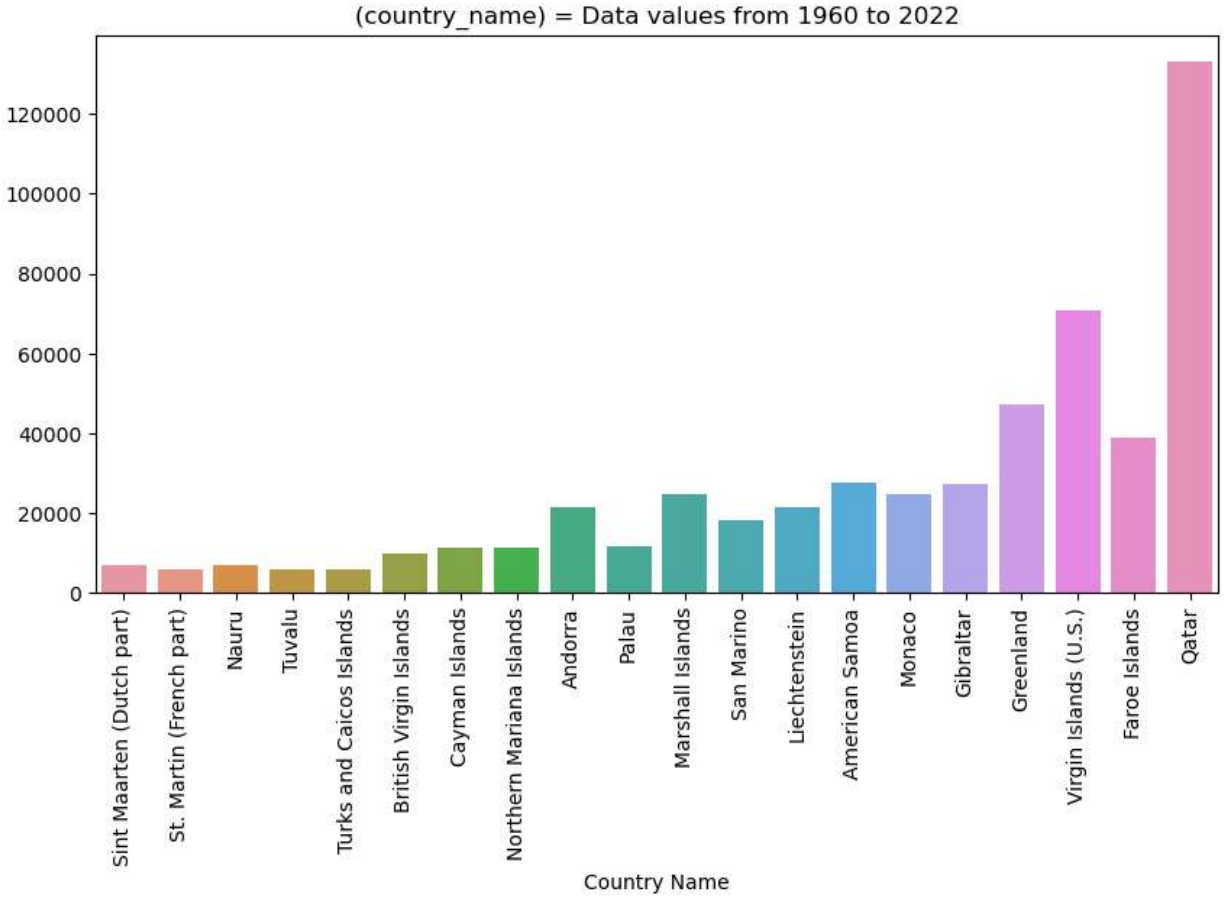
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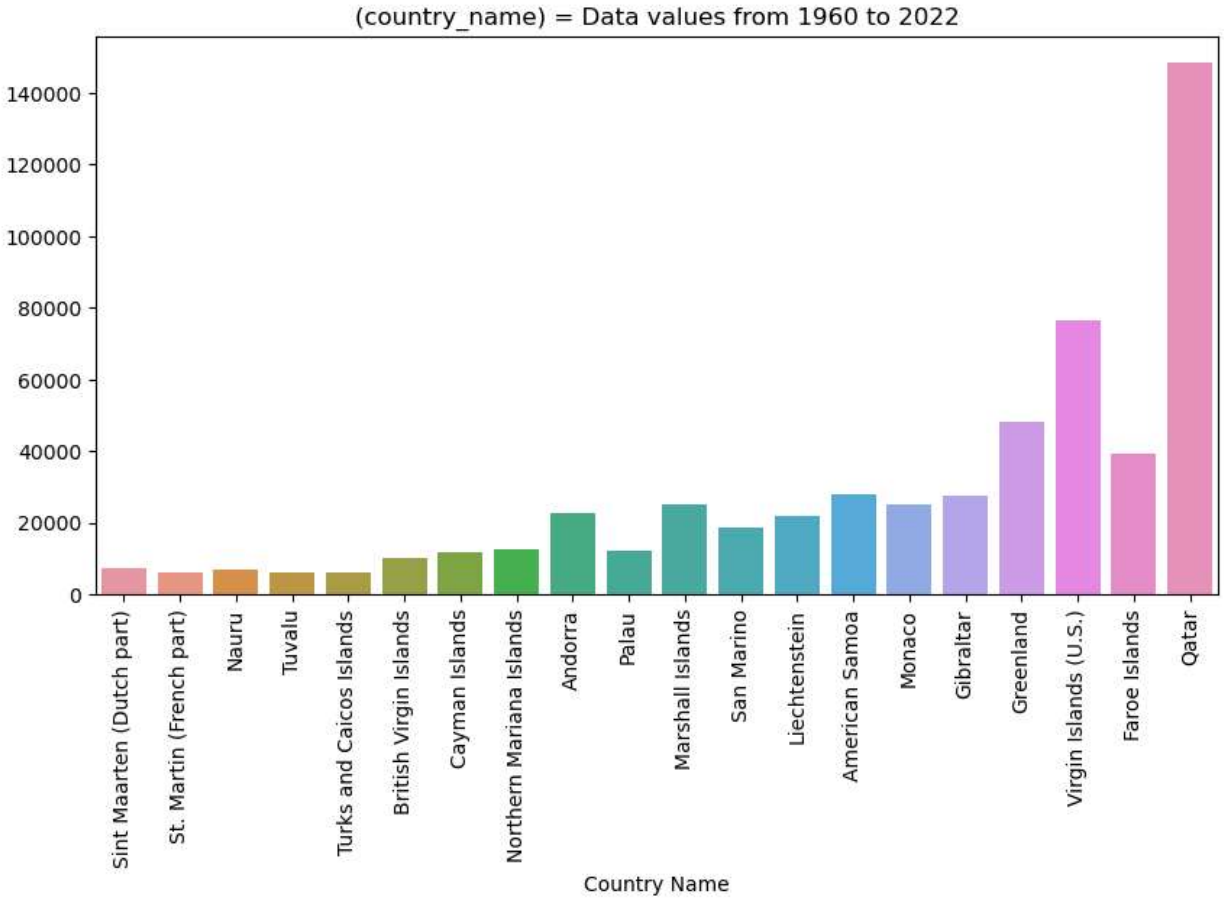
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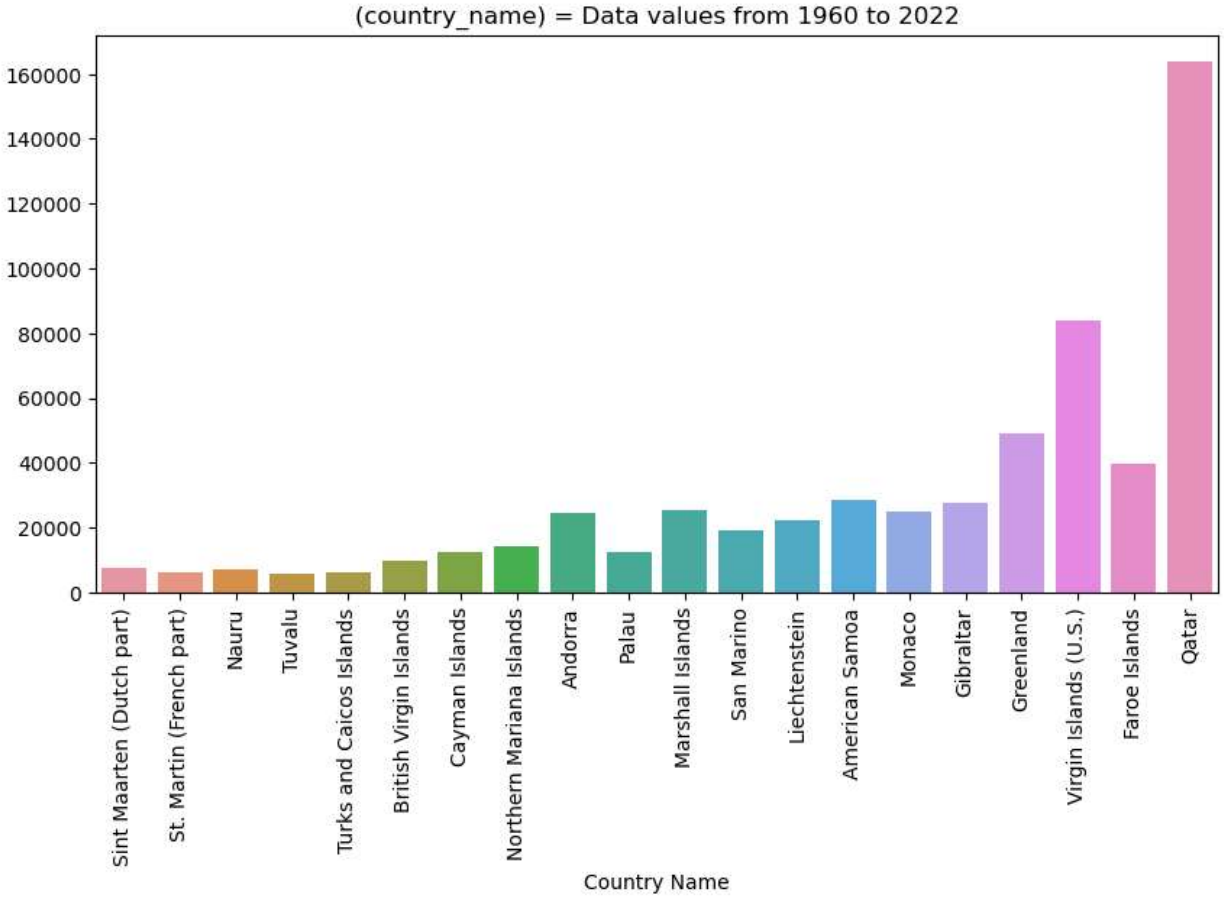
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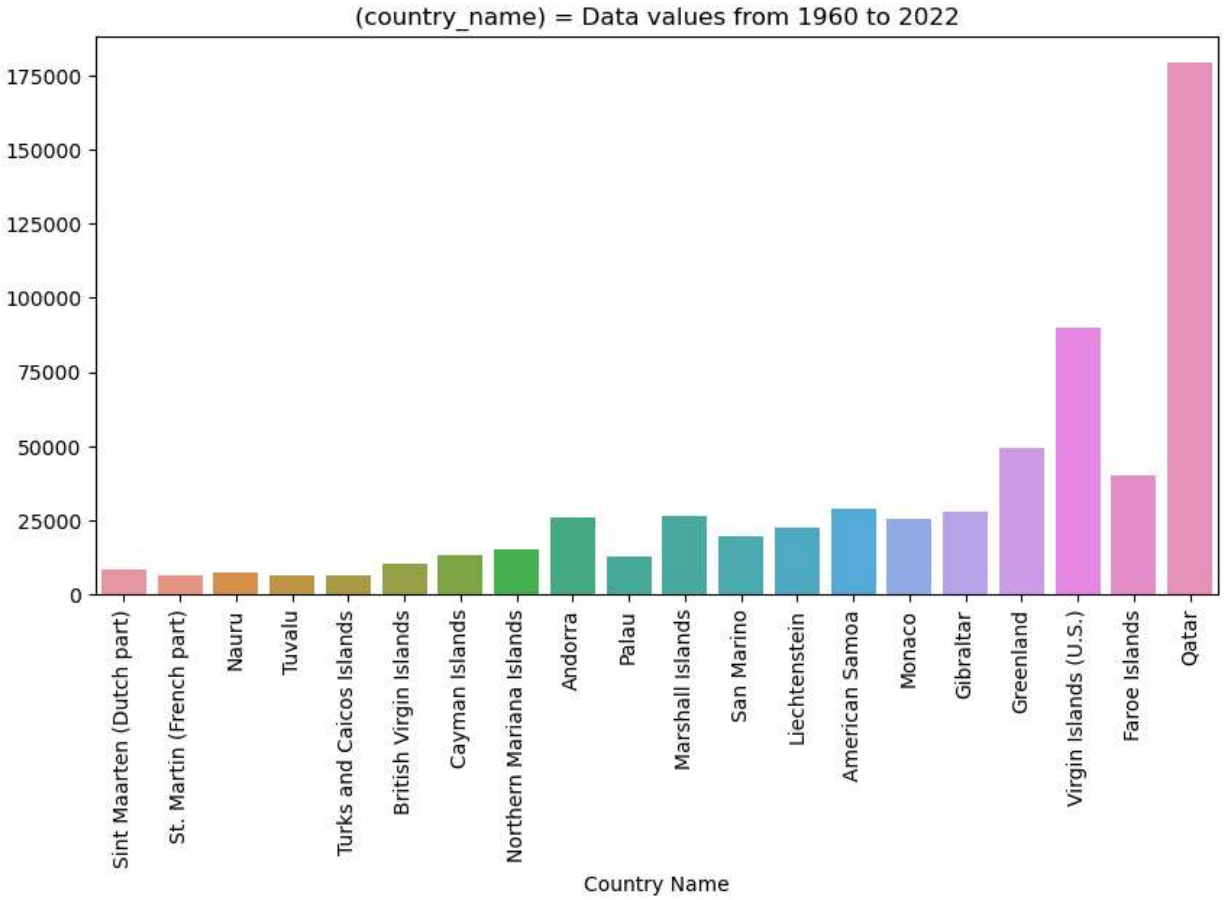
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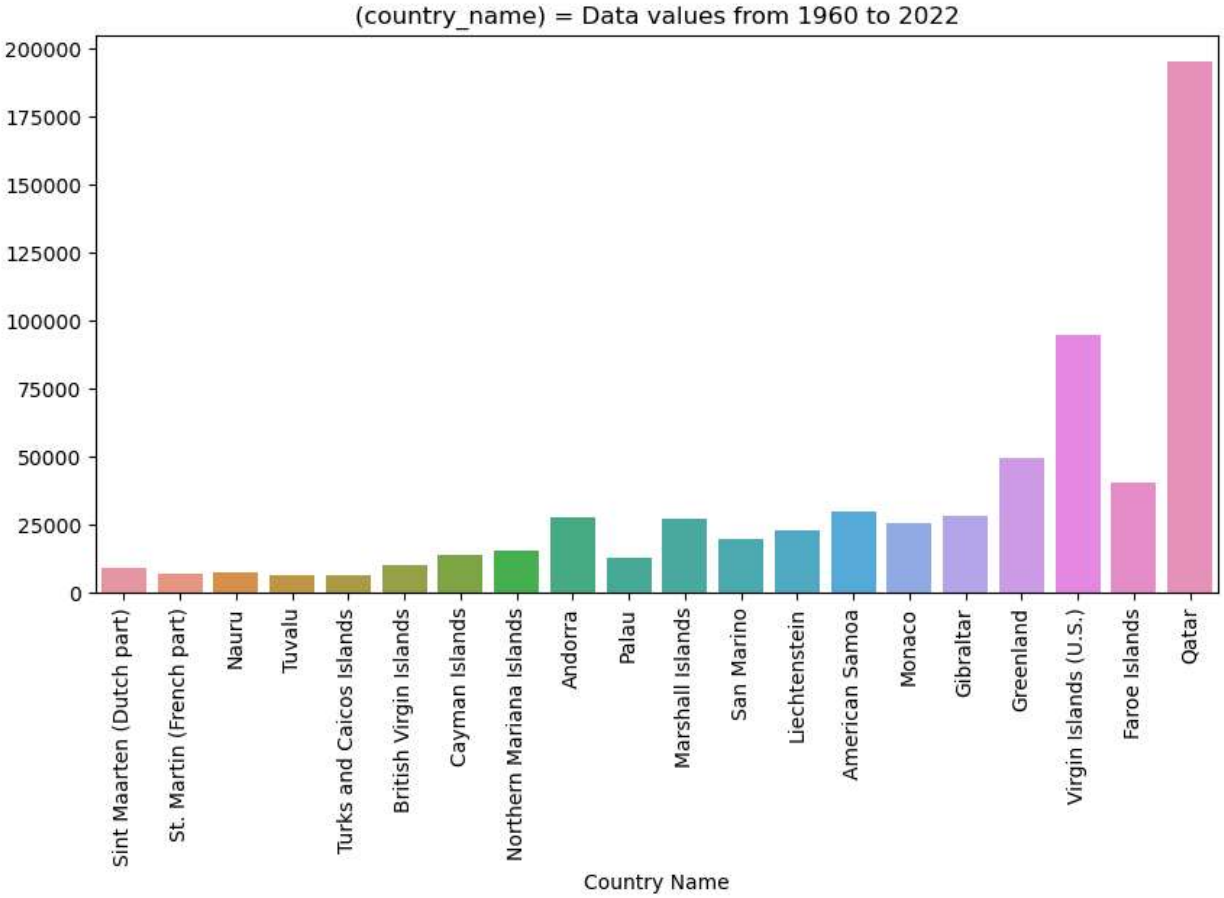
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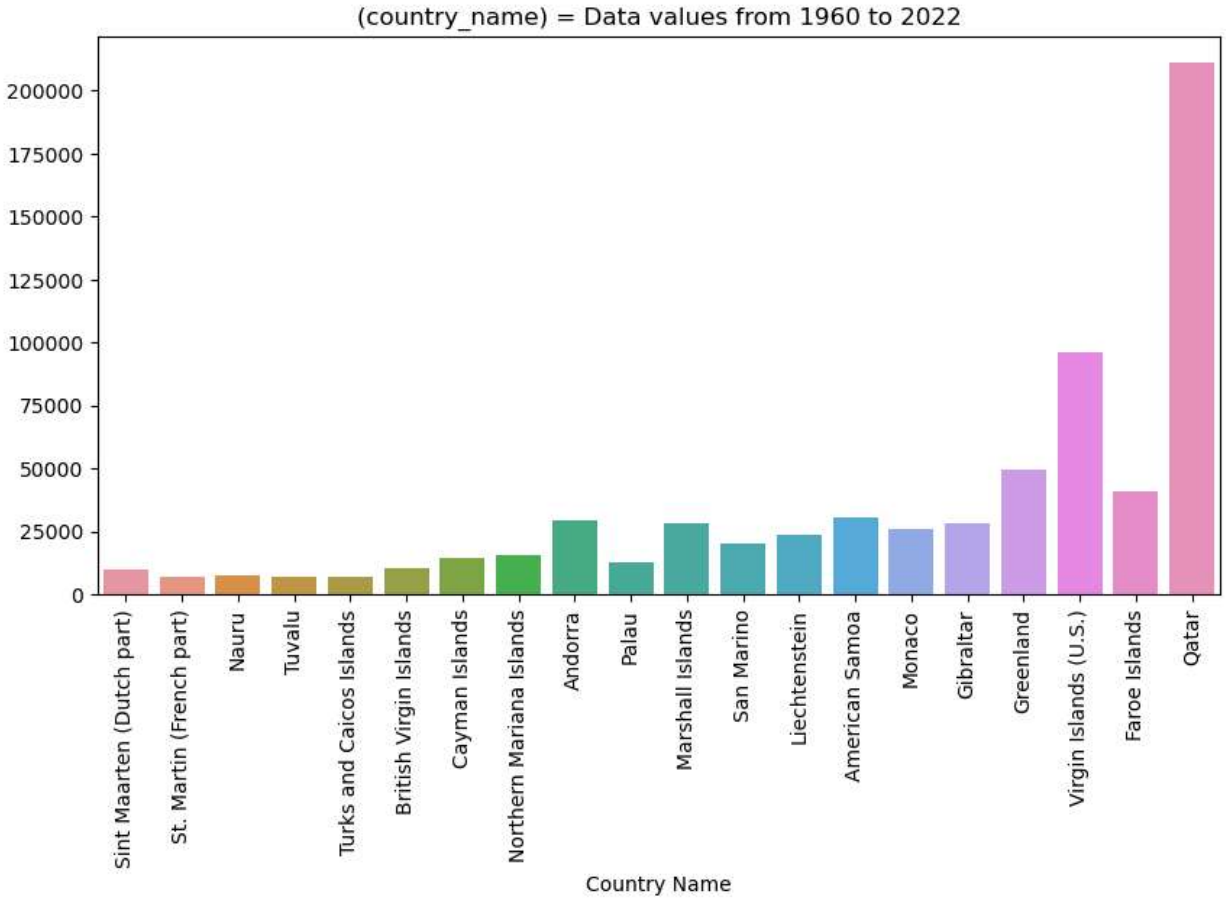
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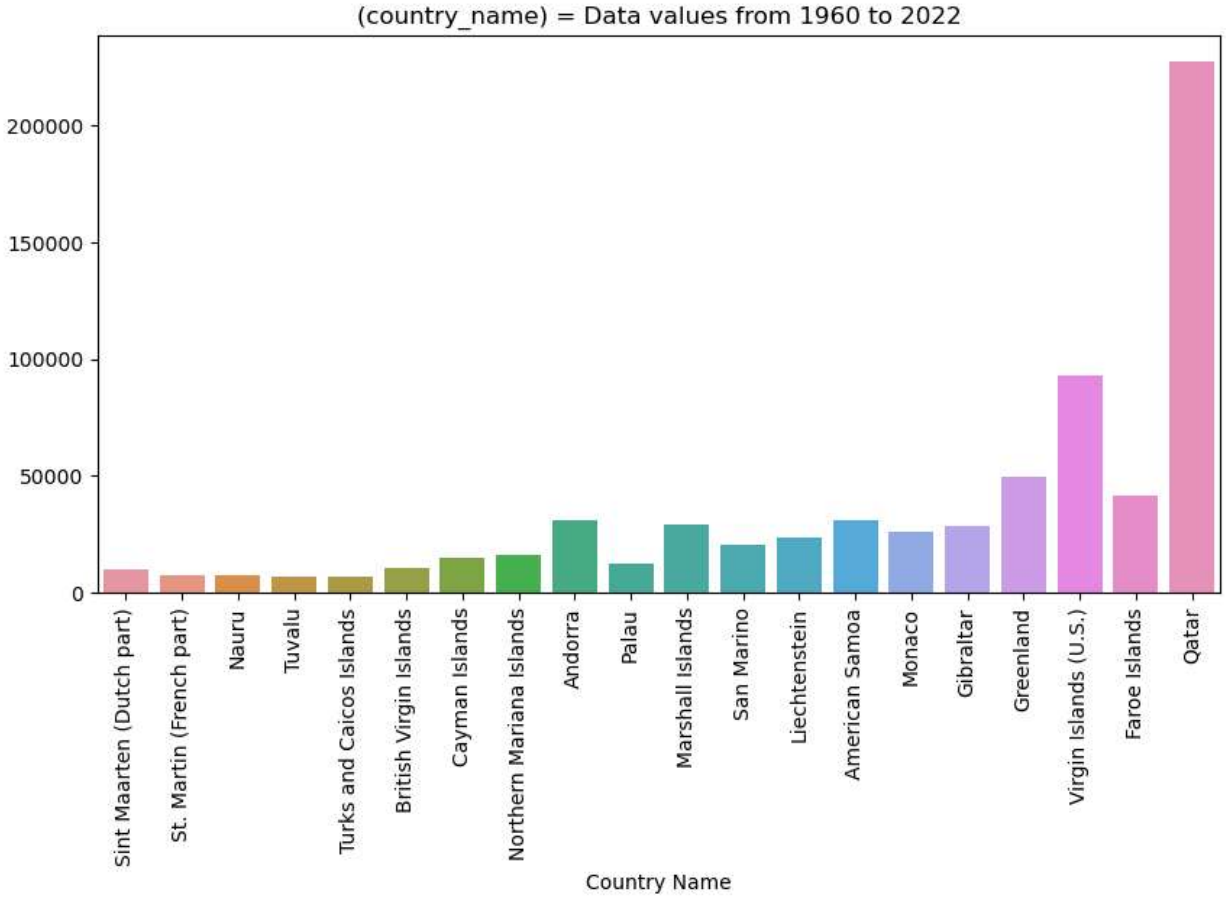
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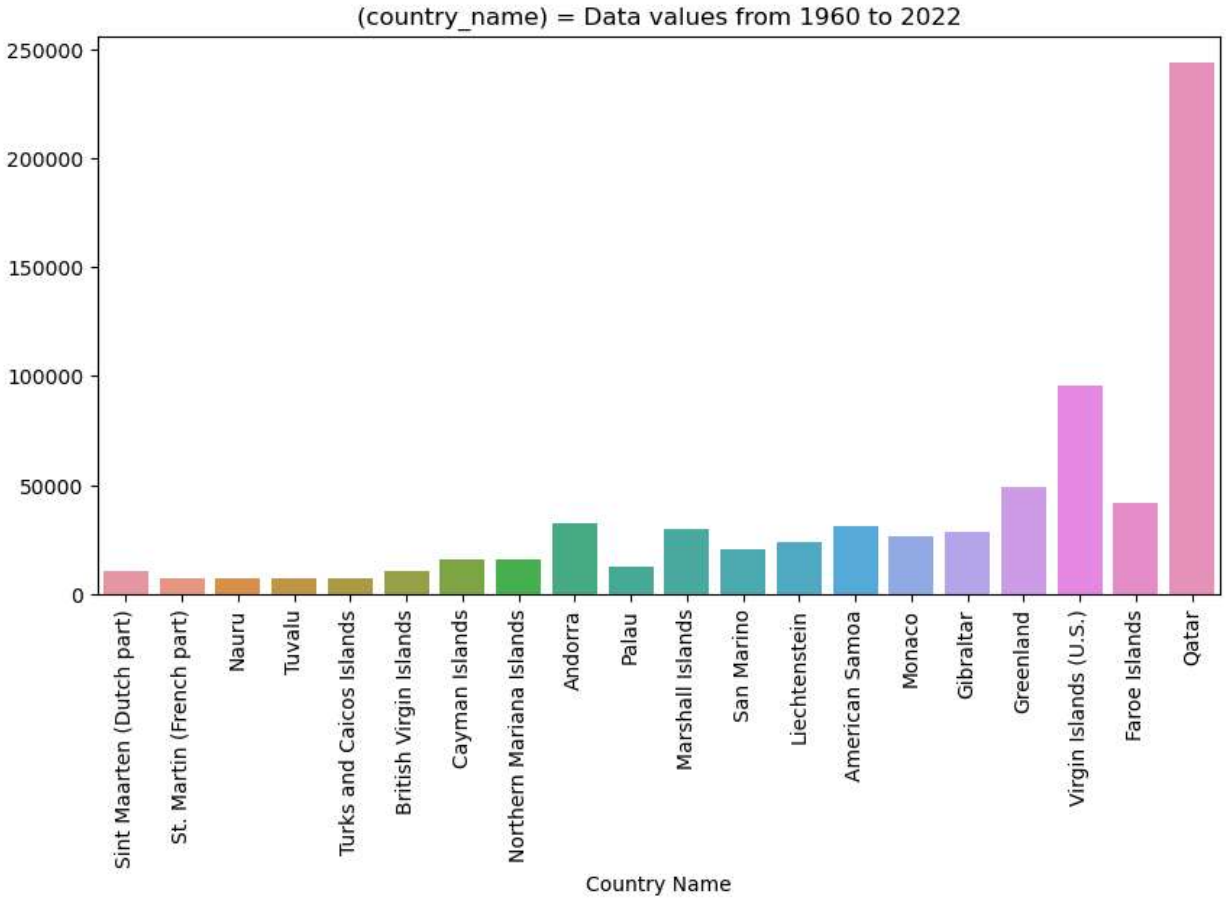
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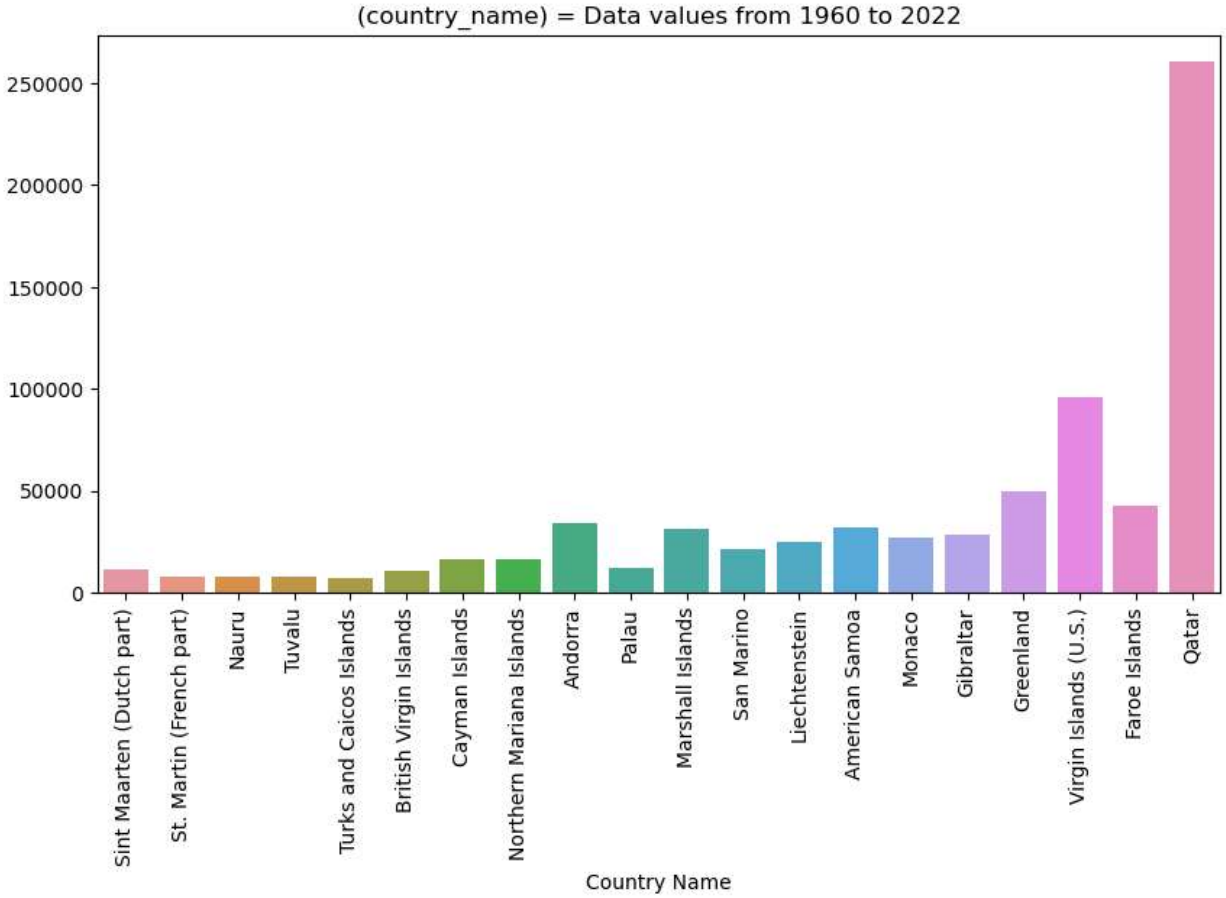
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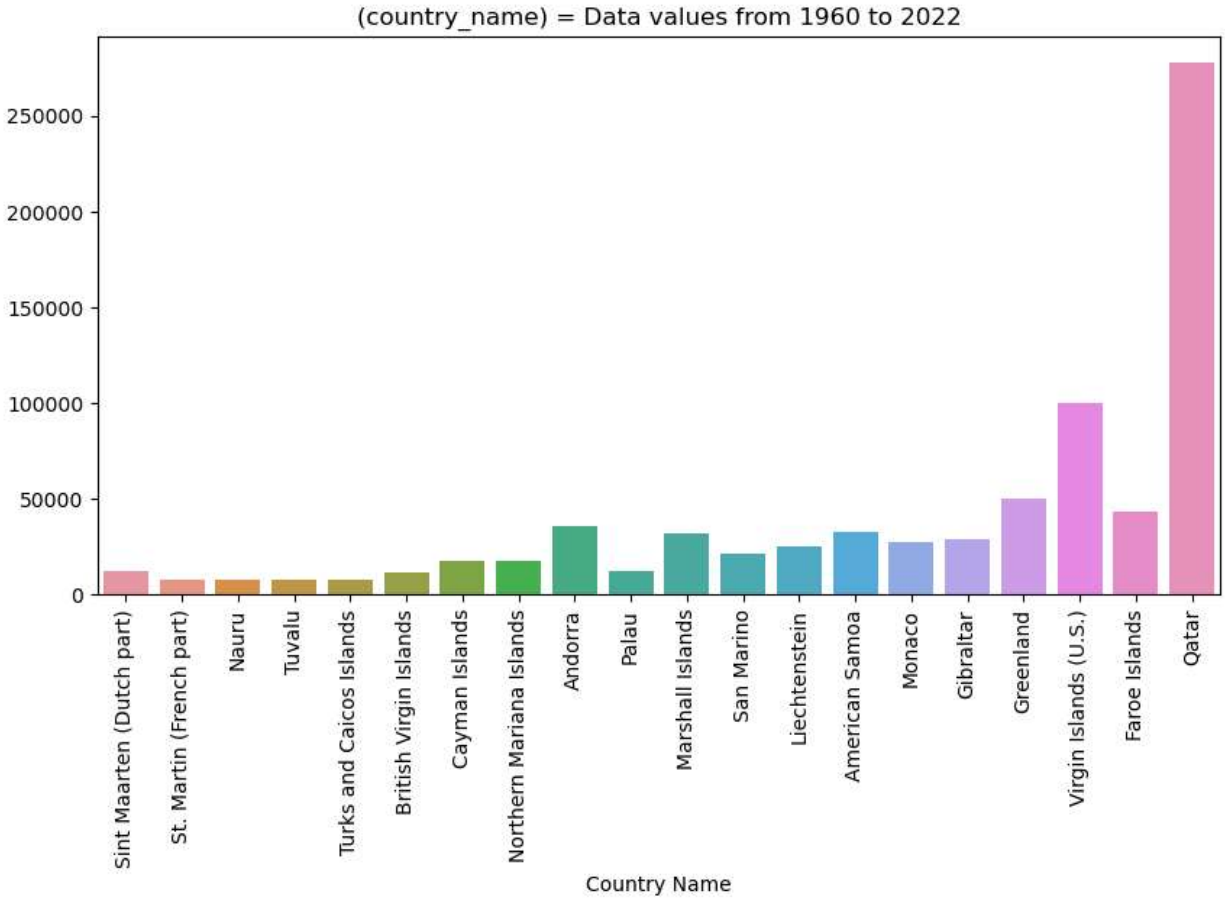
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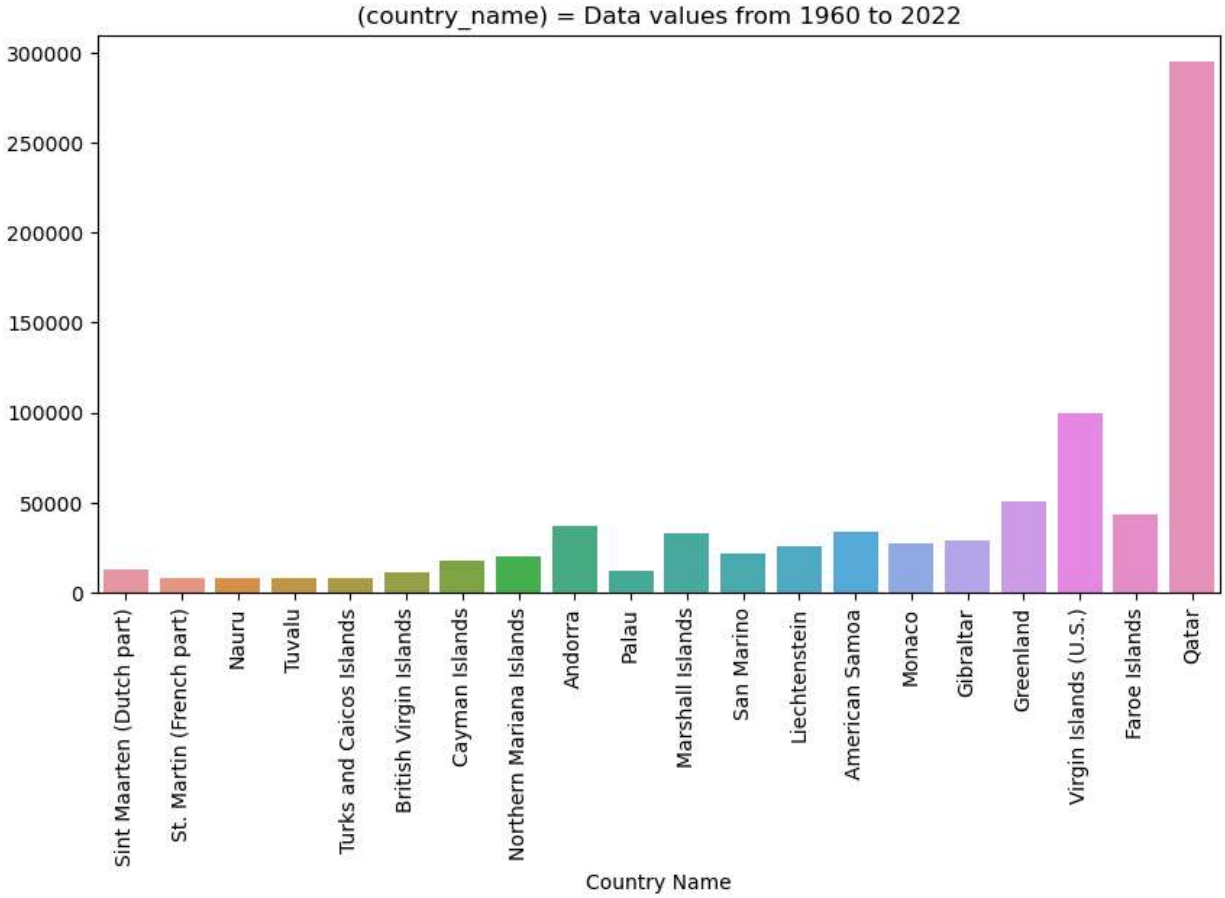
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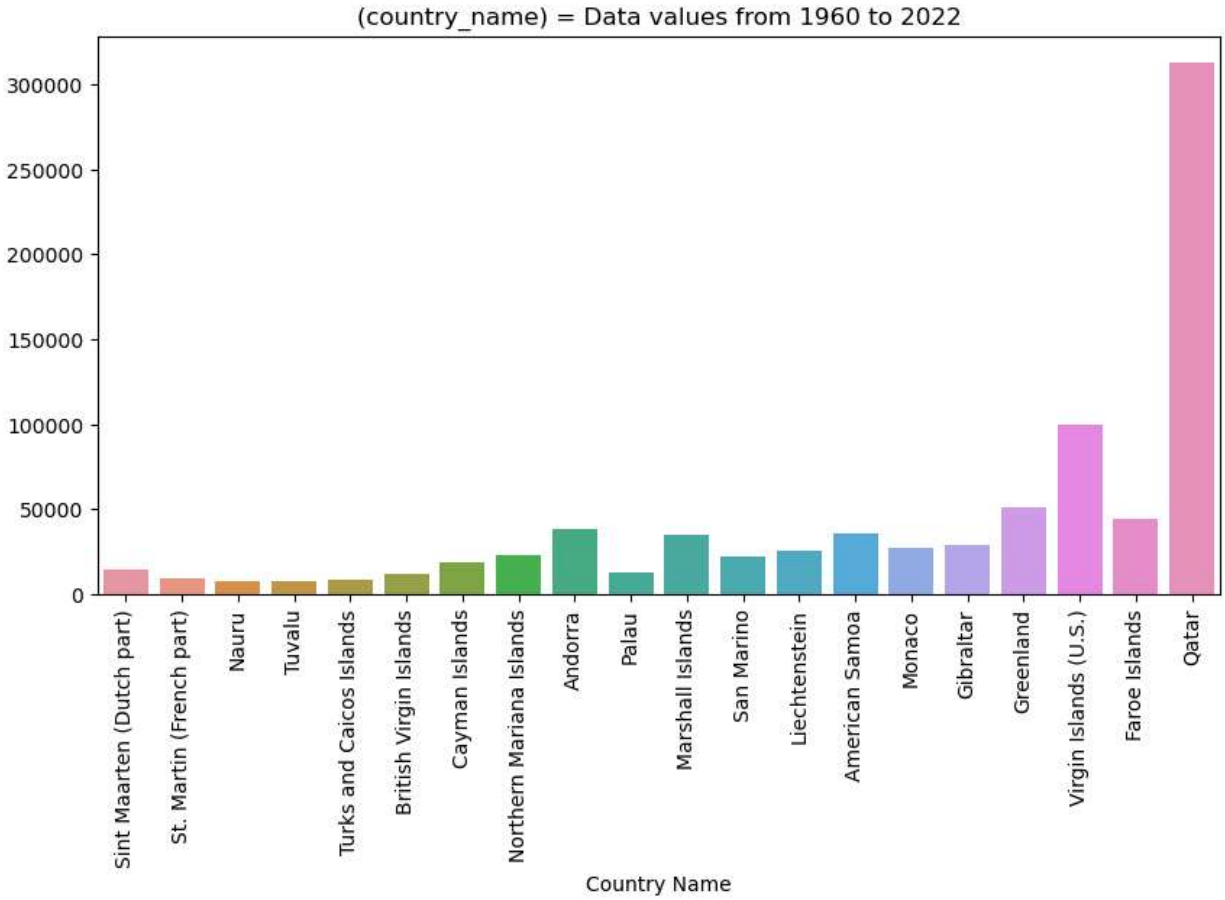
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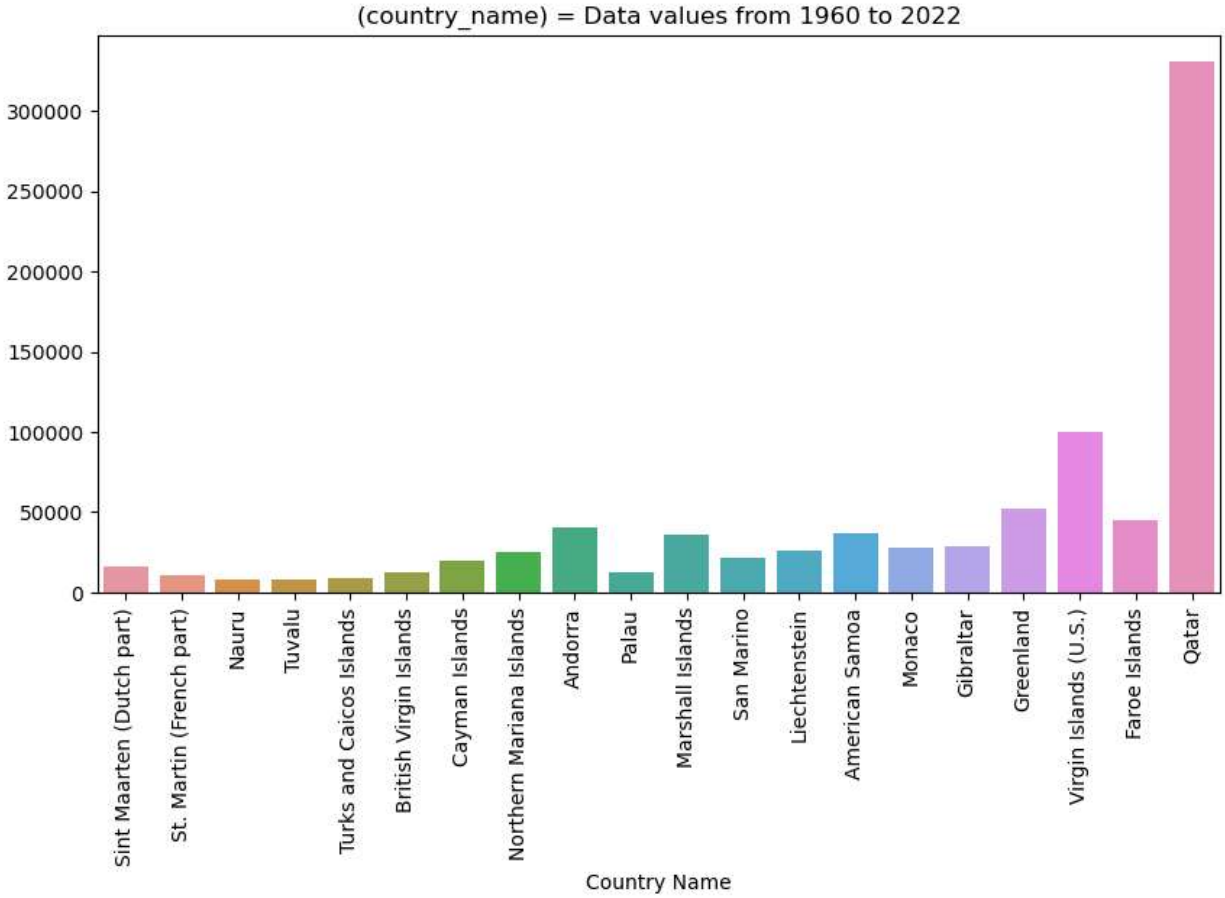
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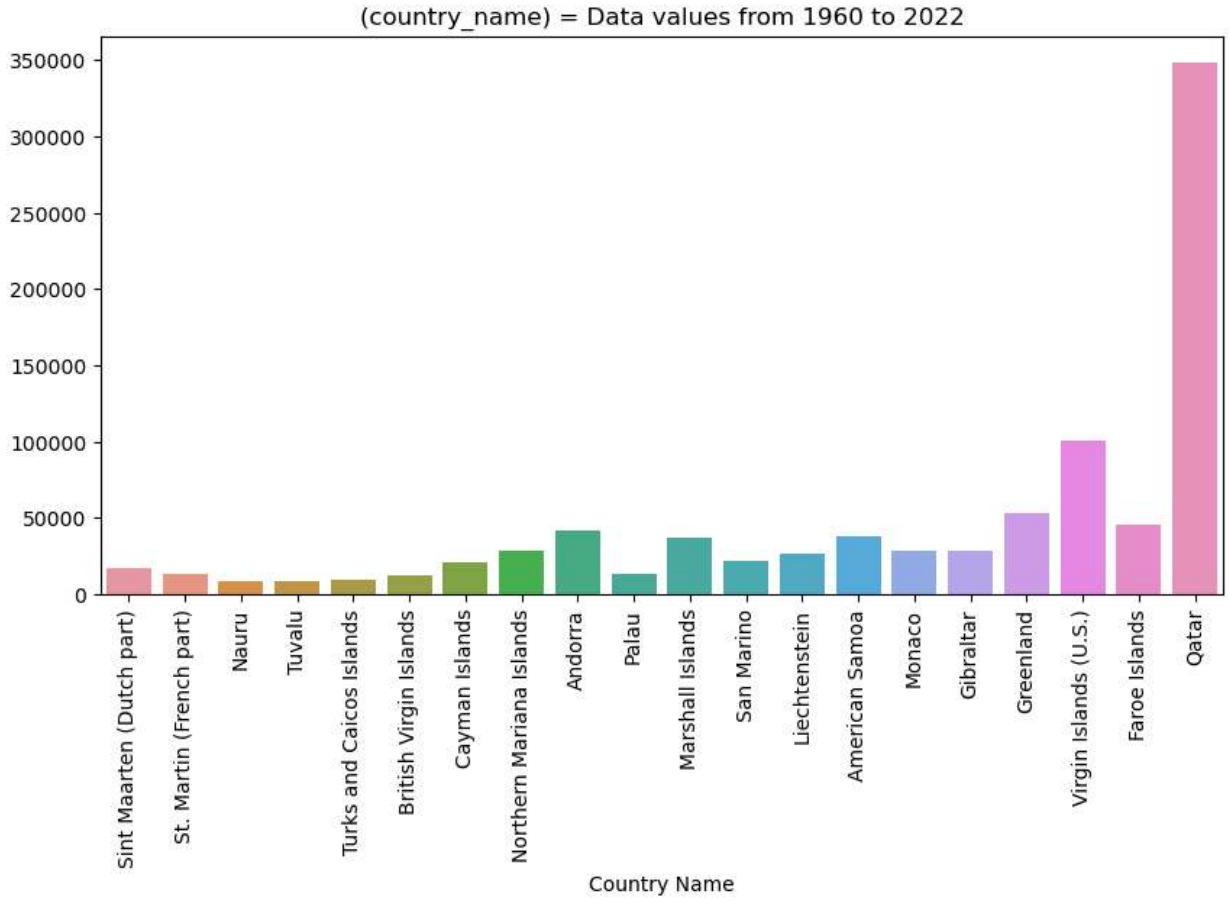
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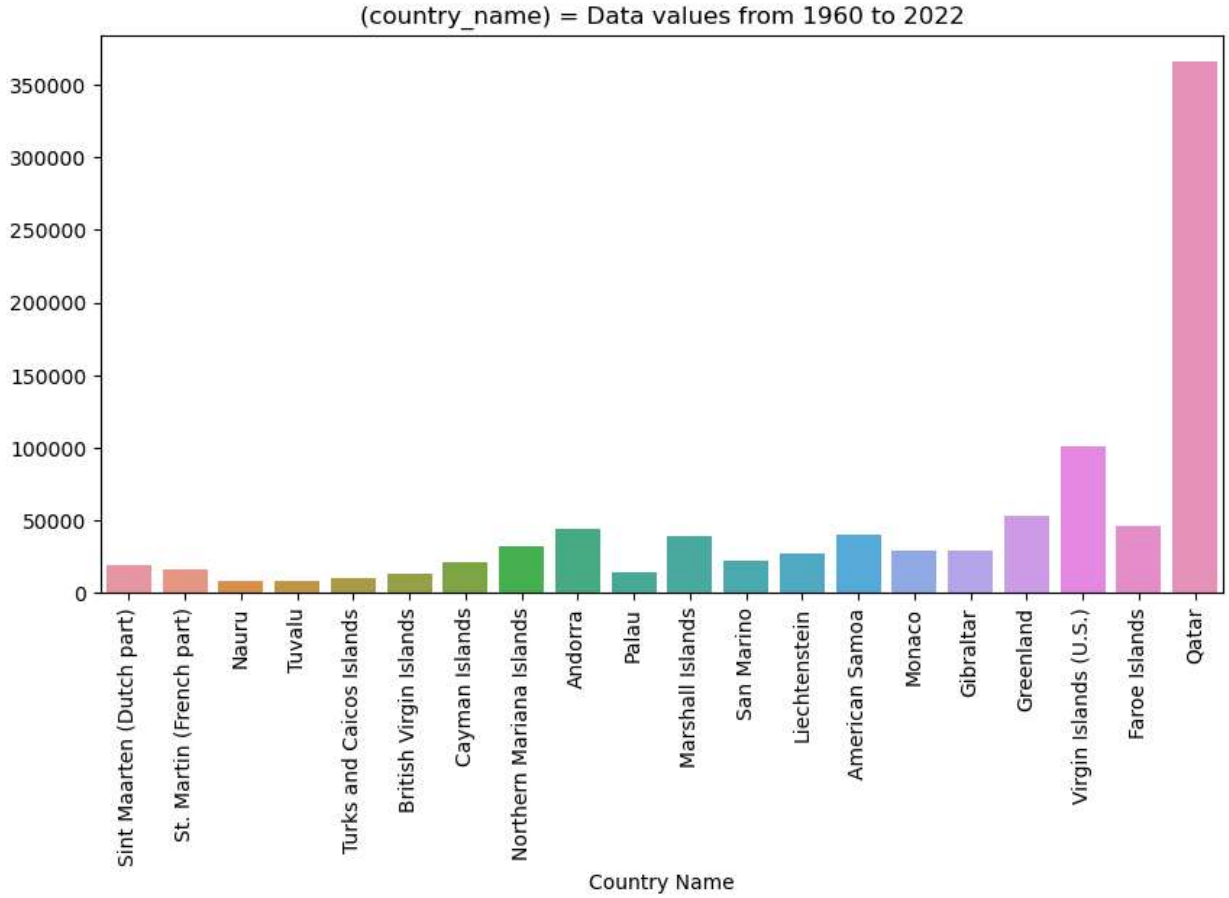
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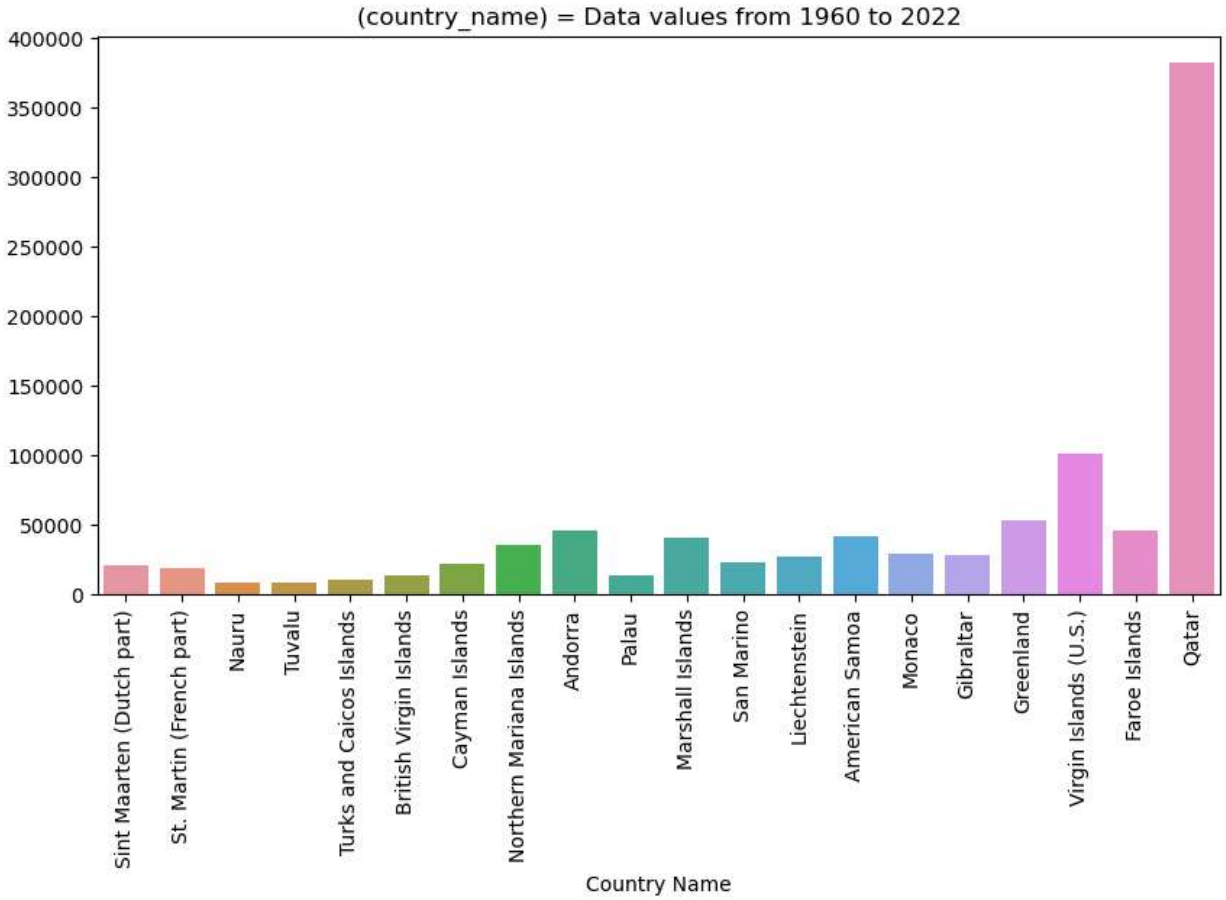
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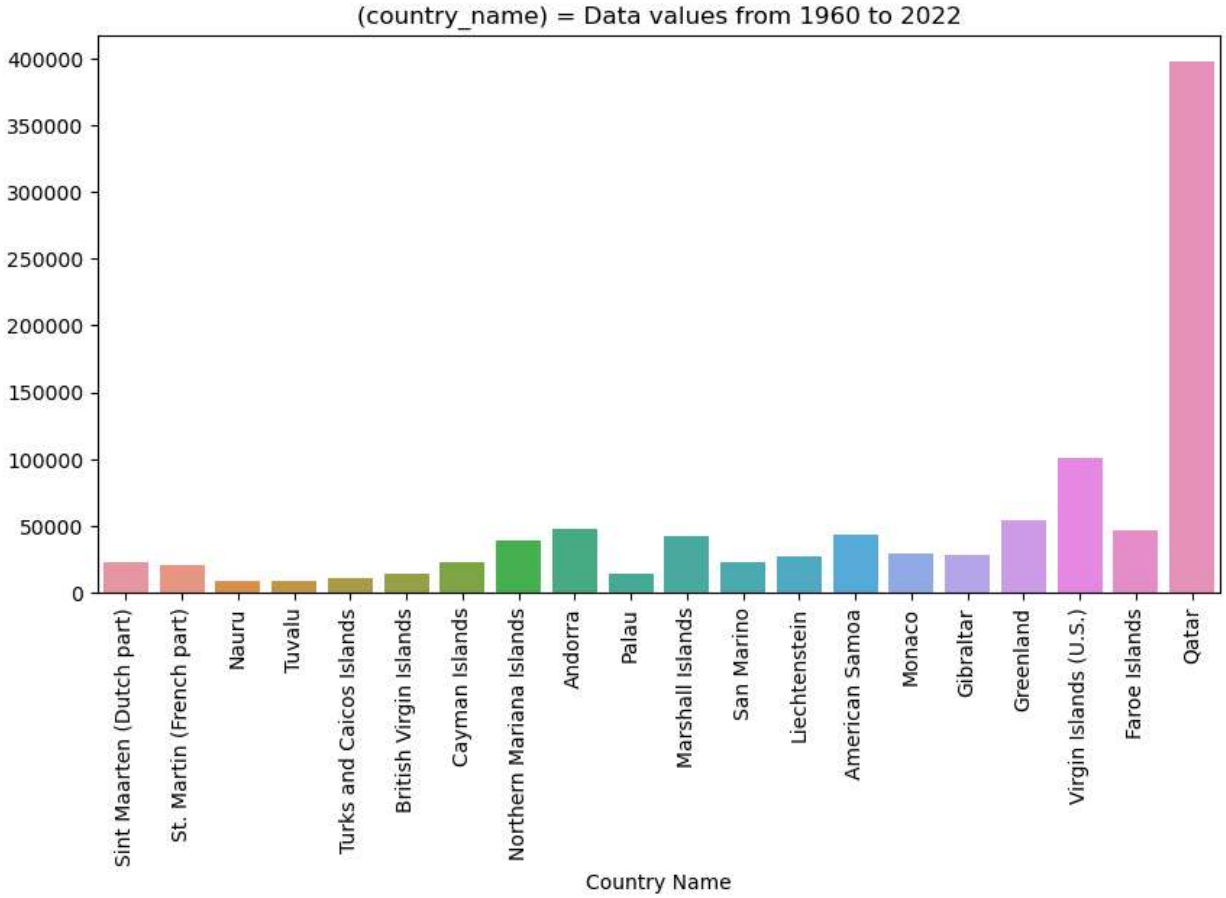
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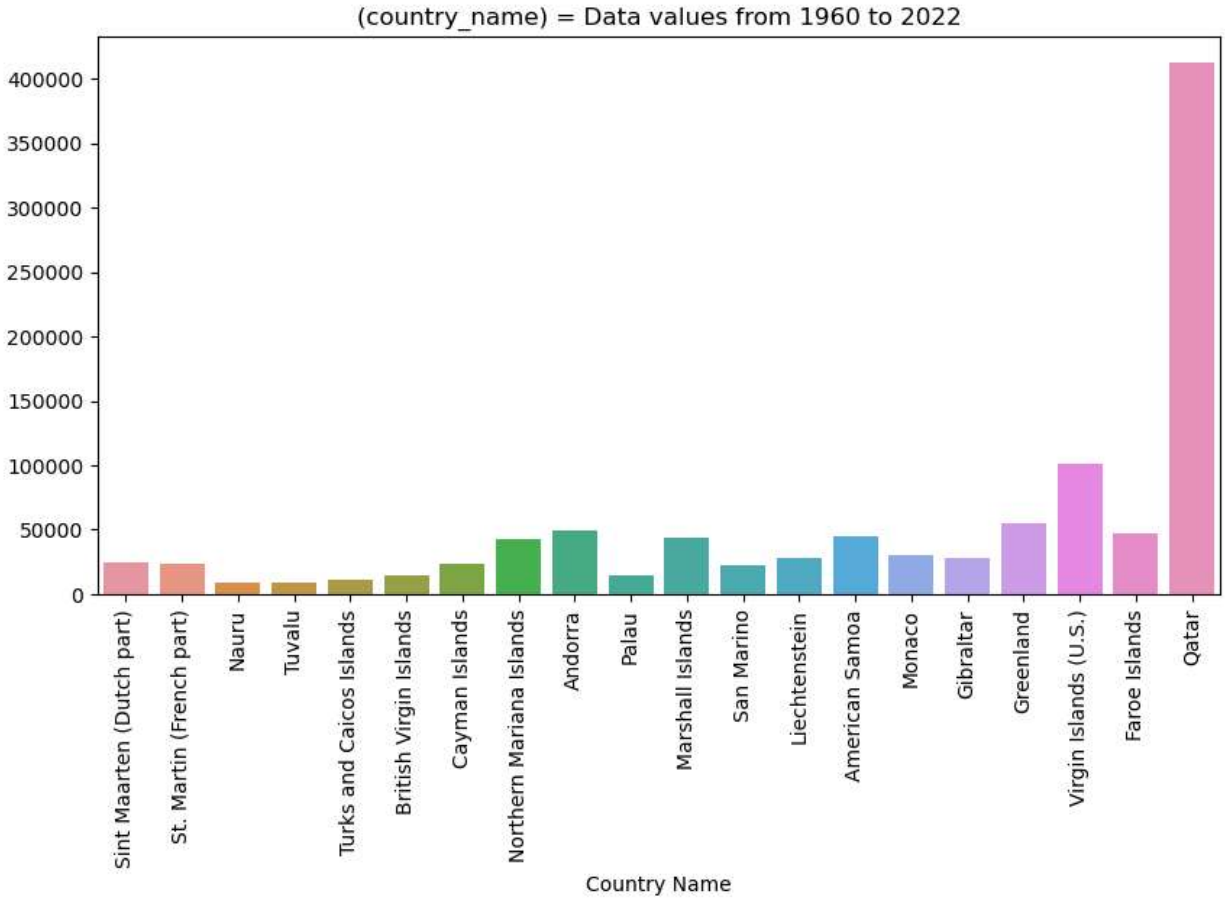
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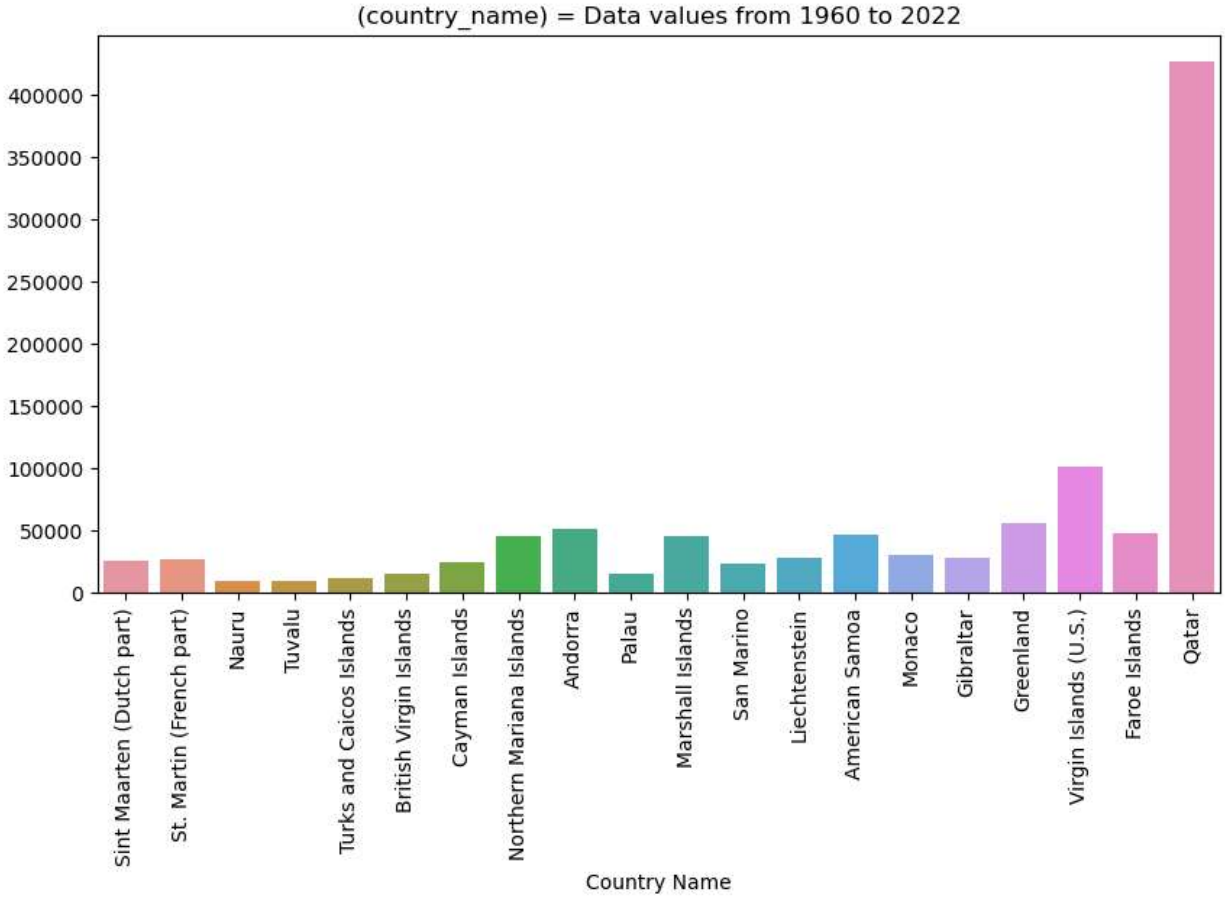
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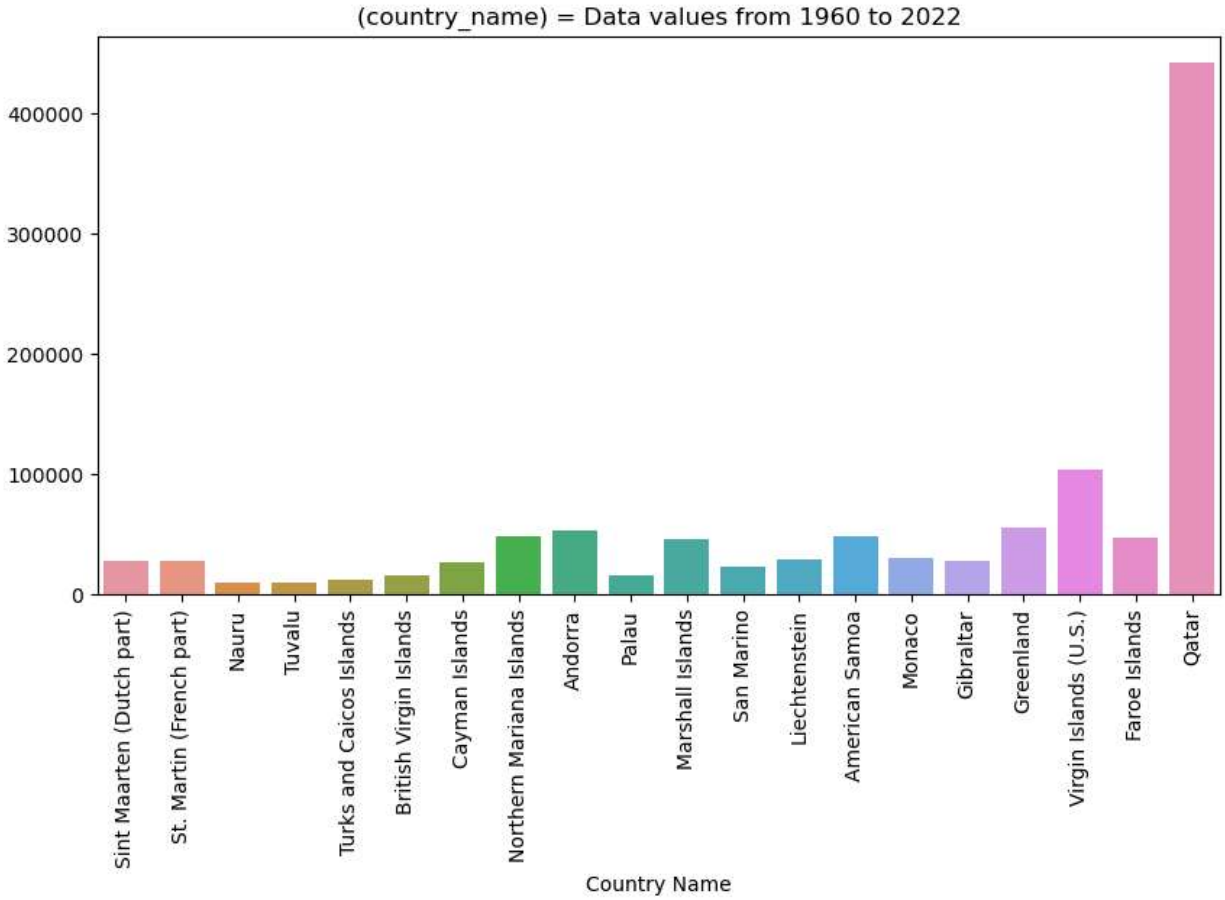
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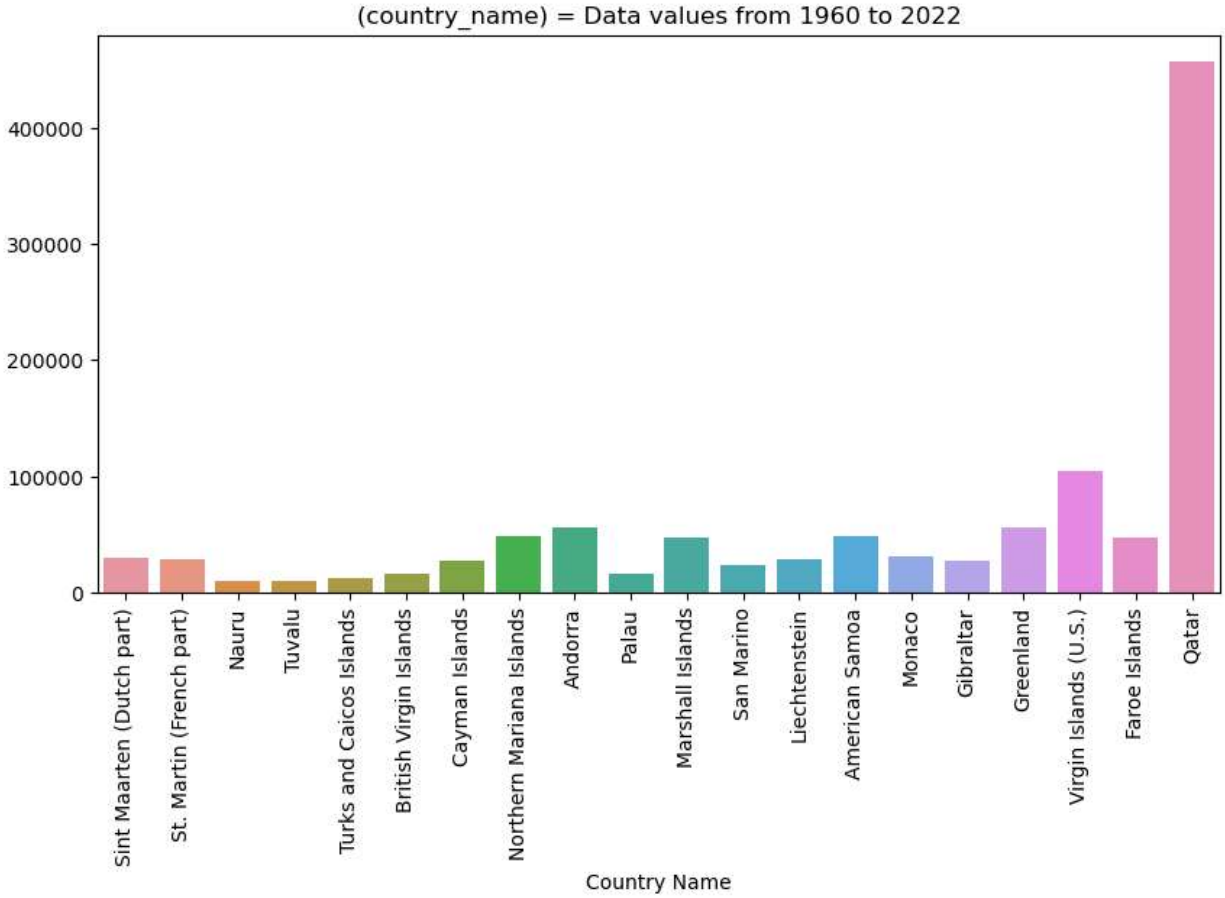
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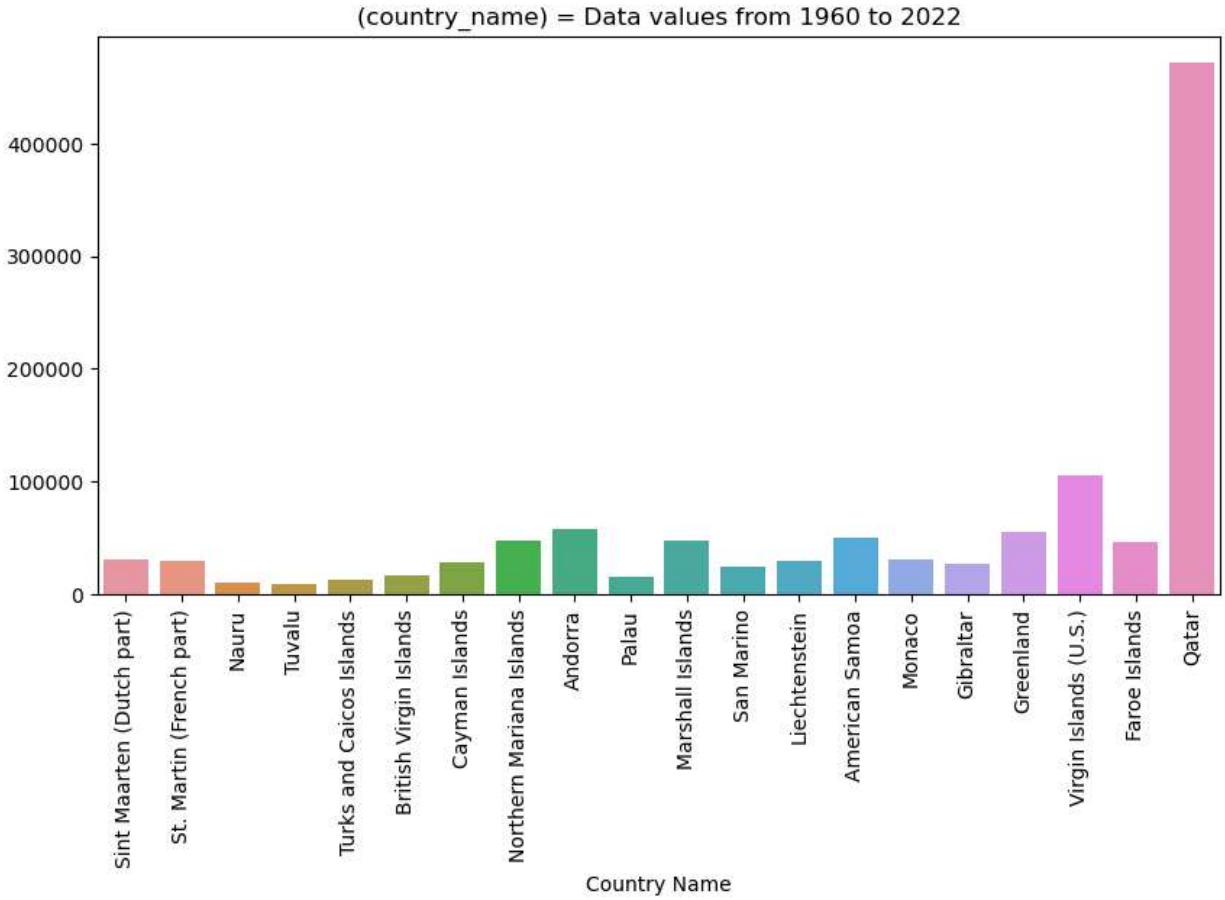
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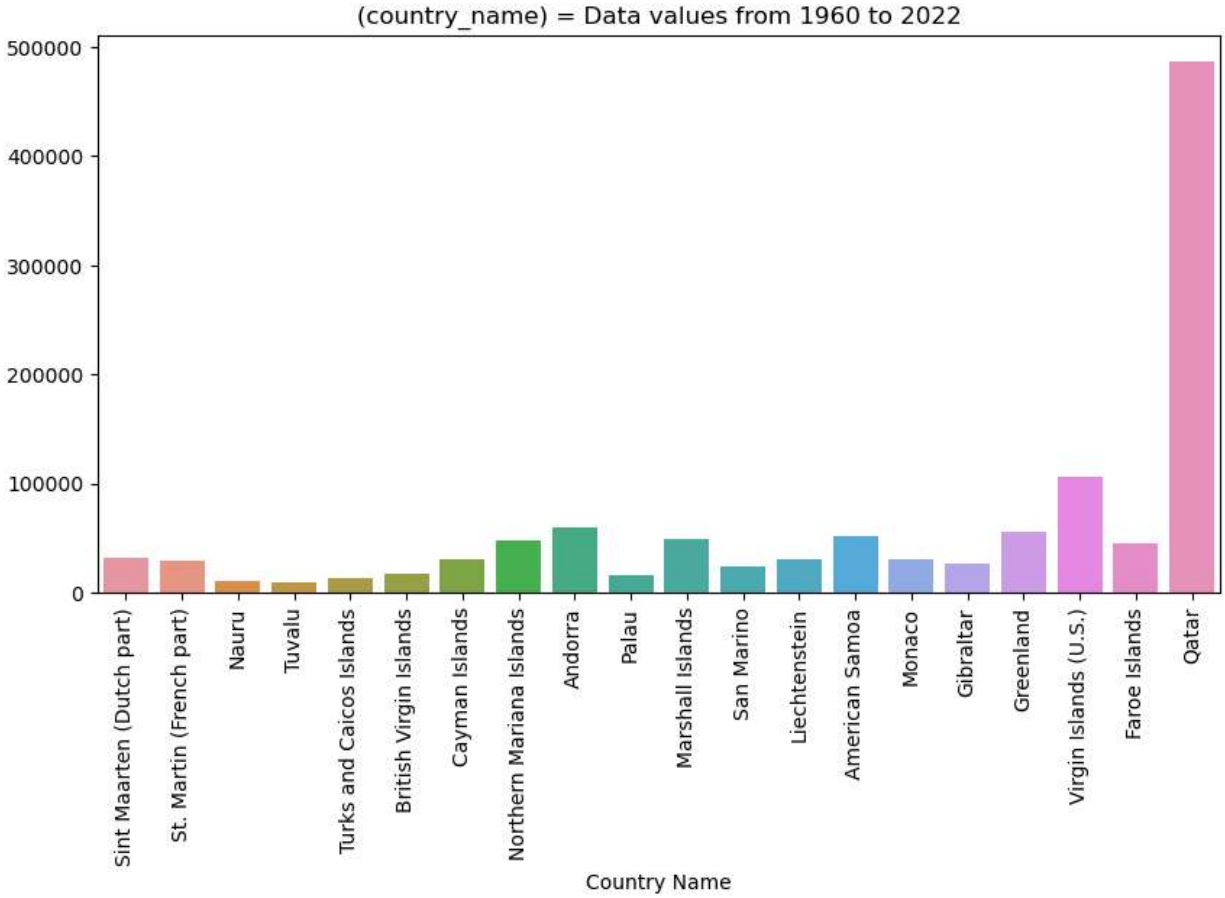
Country Name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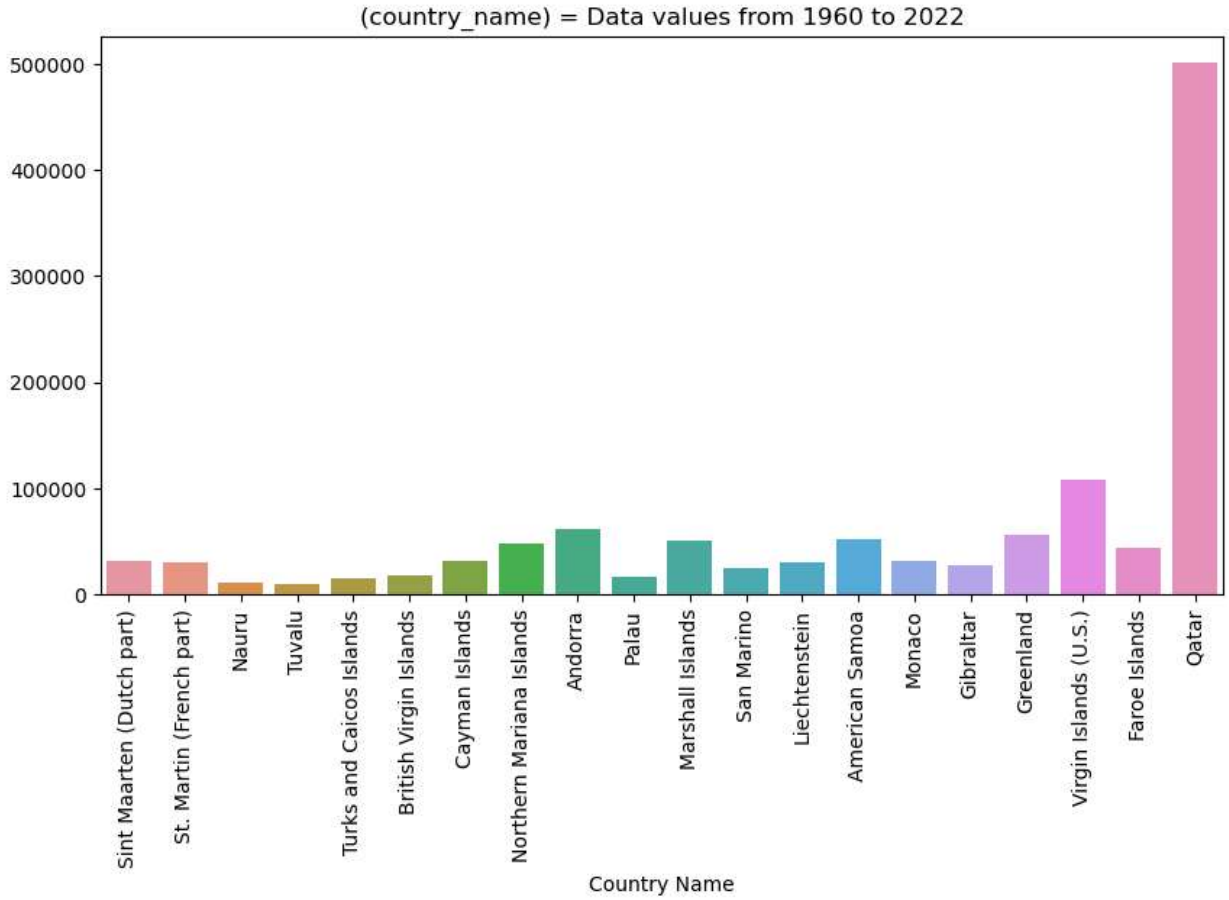
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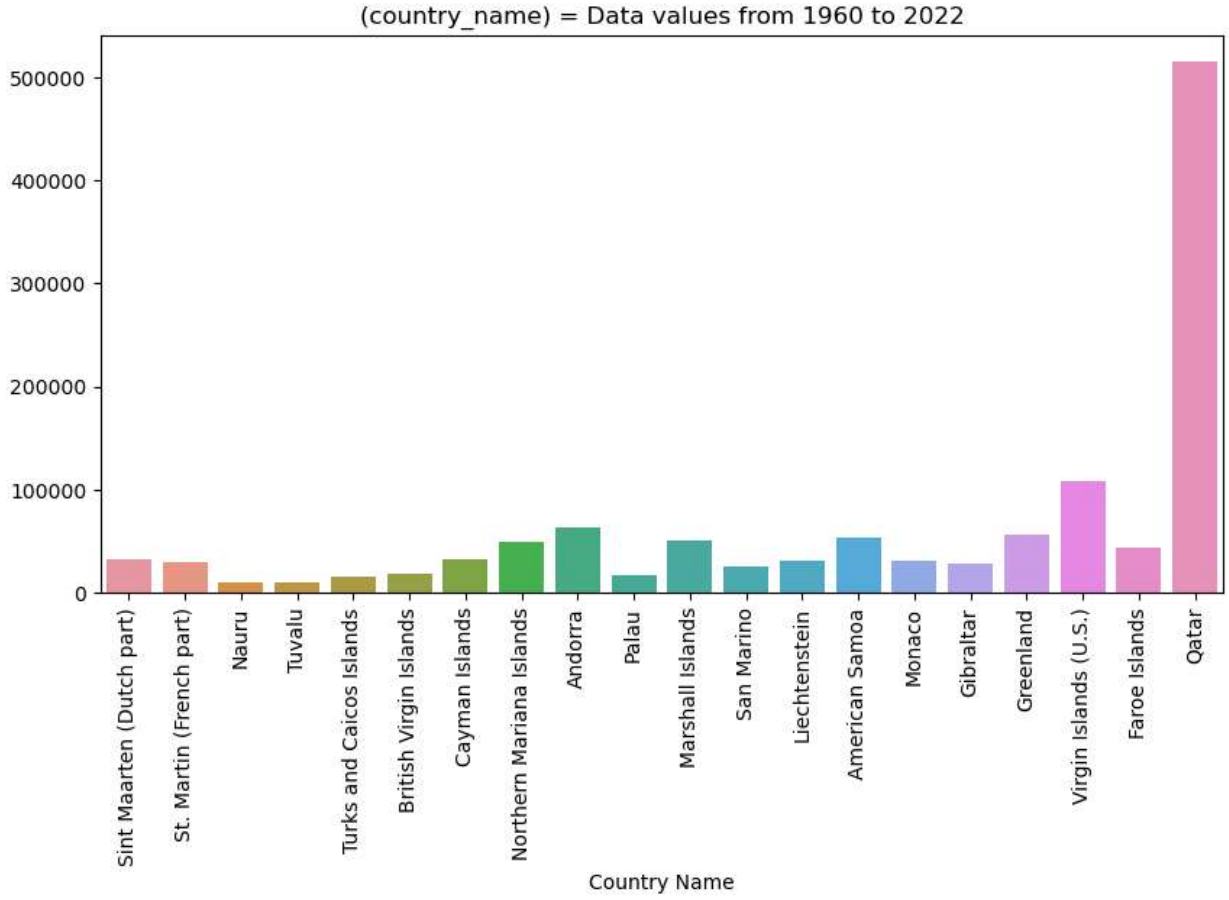
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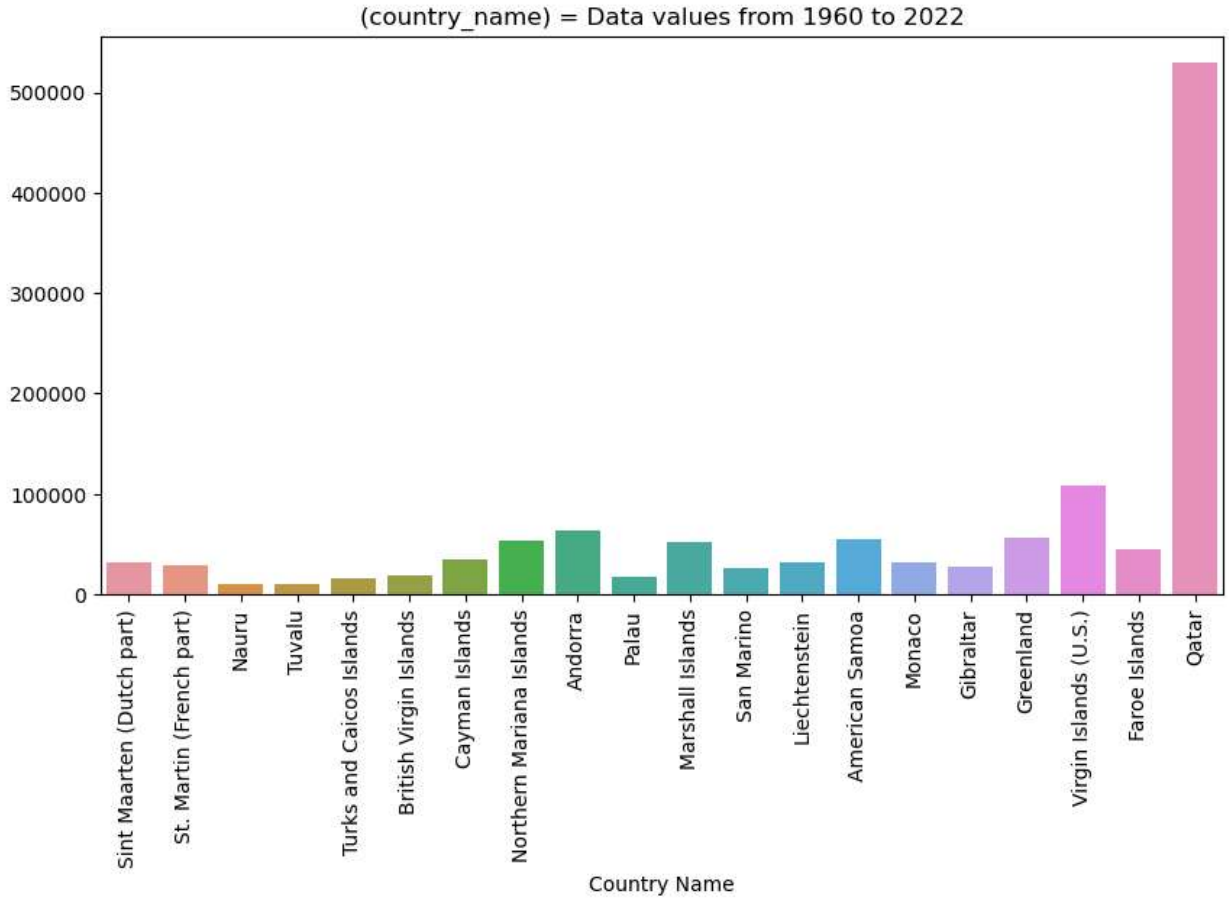
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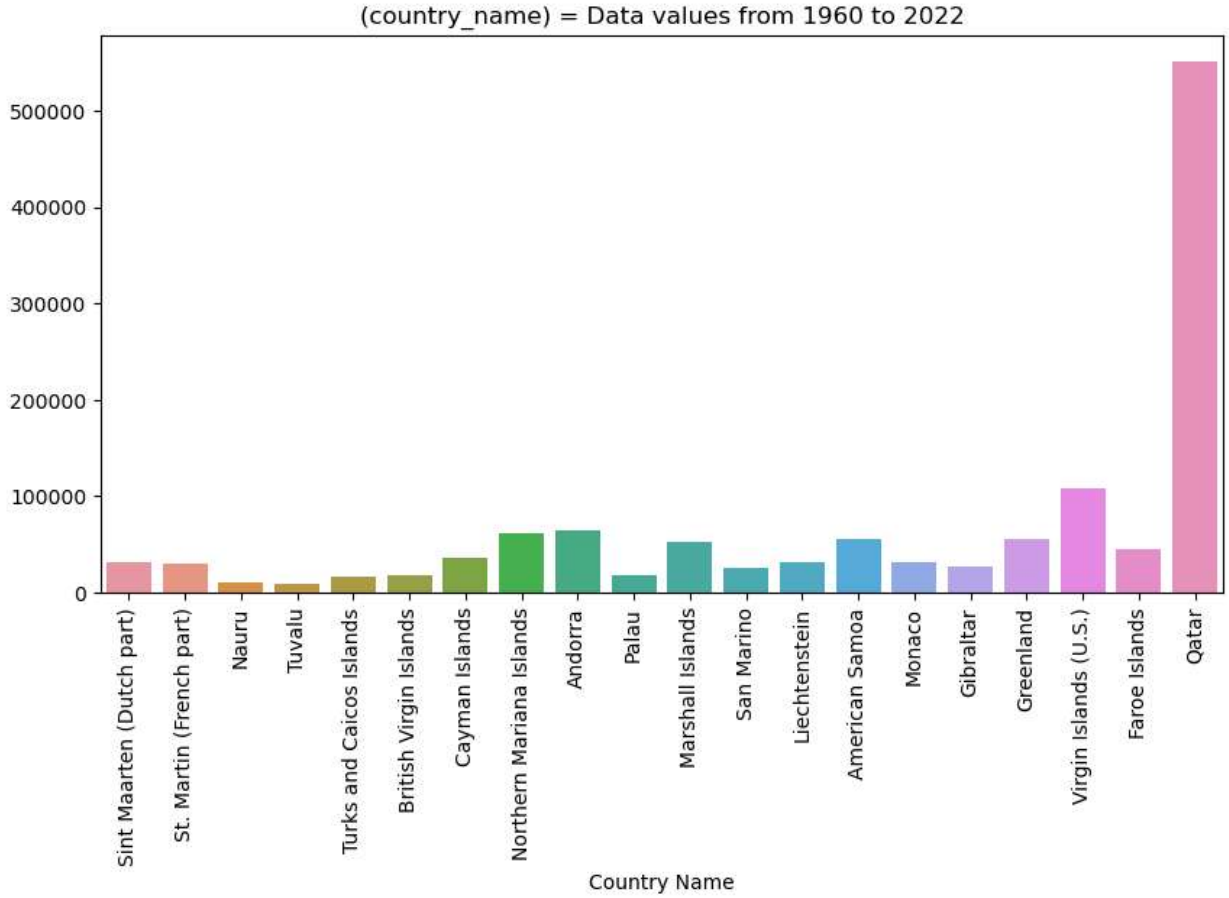
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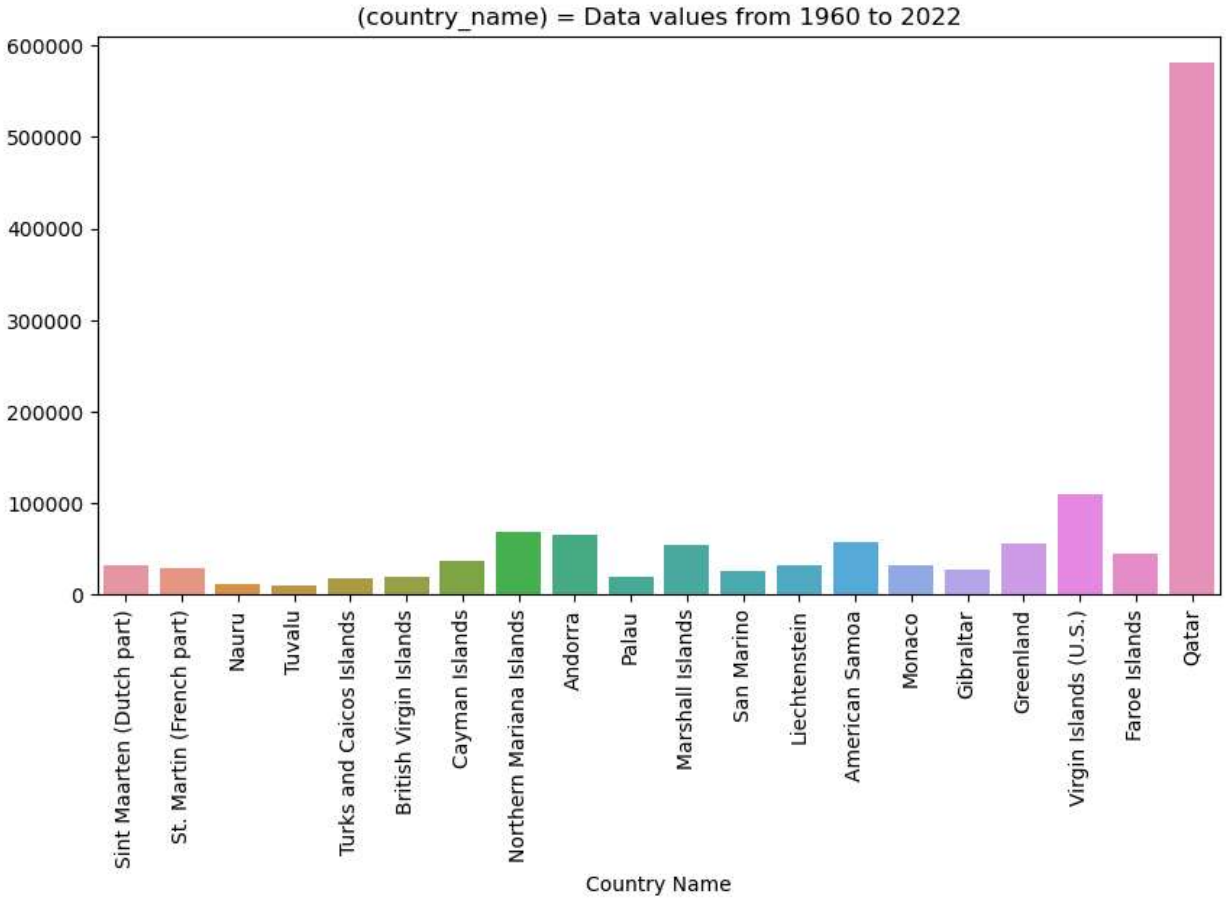
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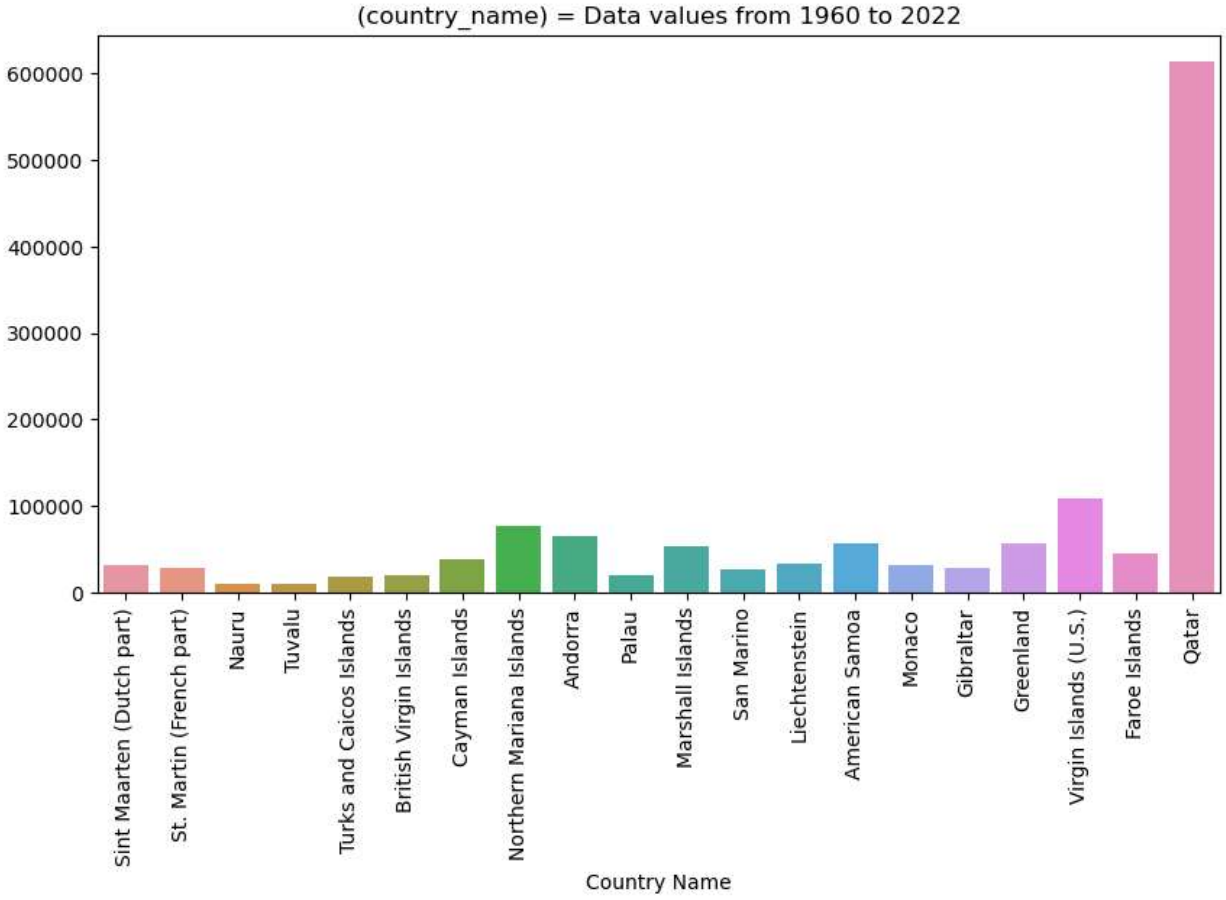
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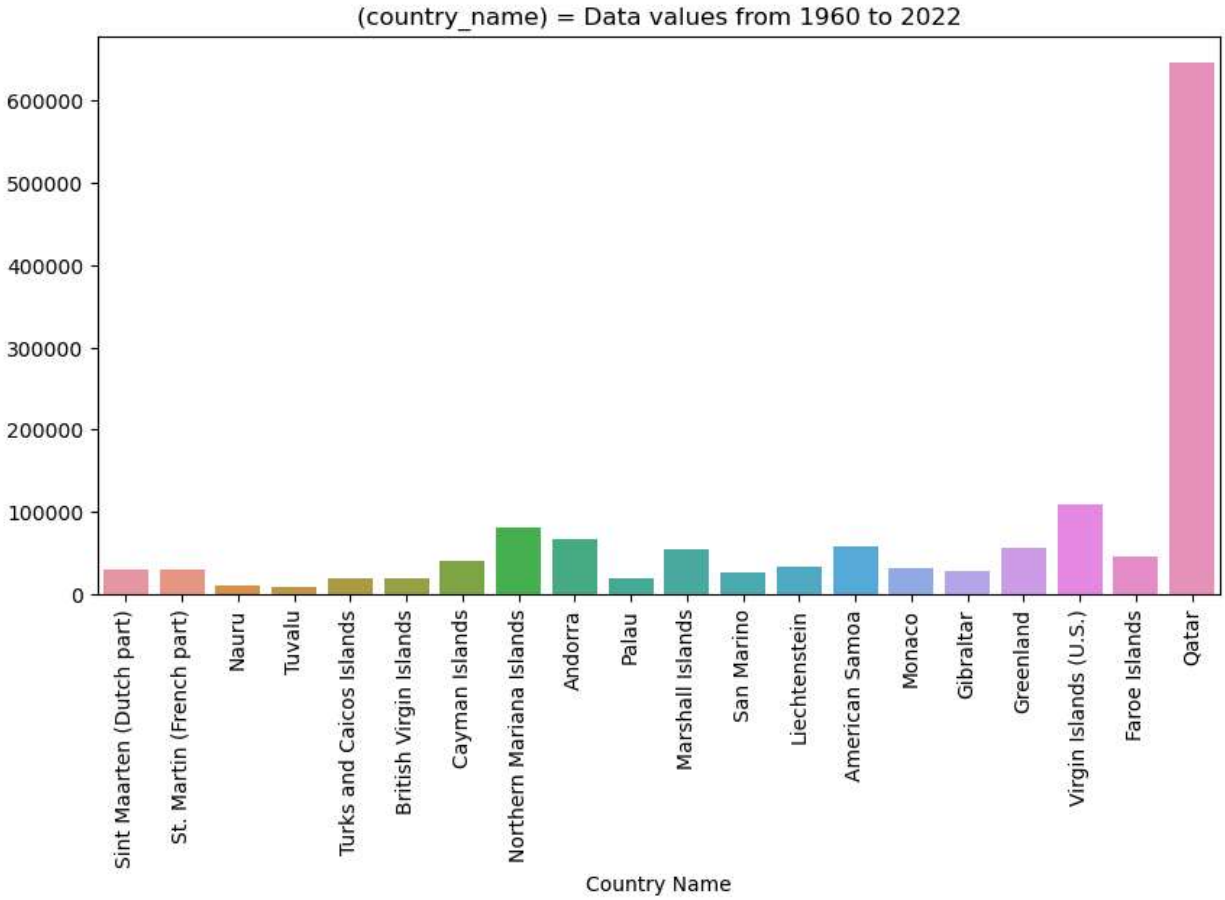
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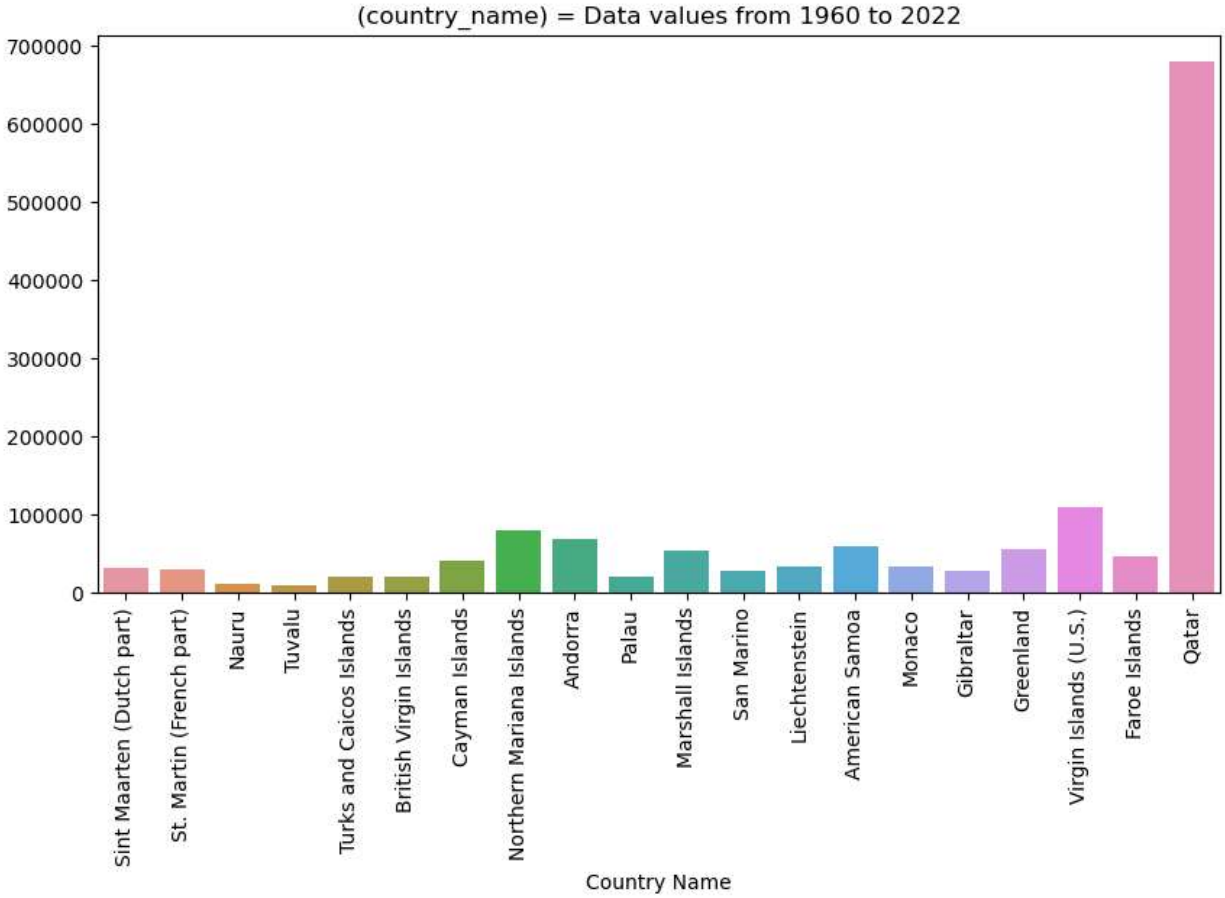
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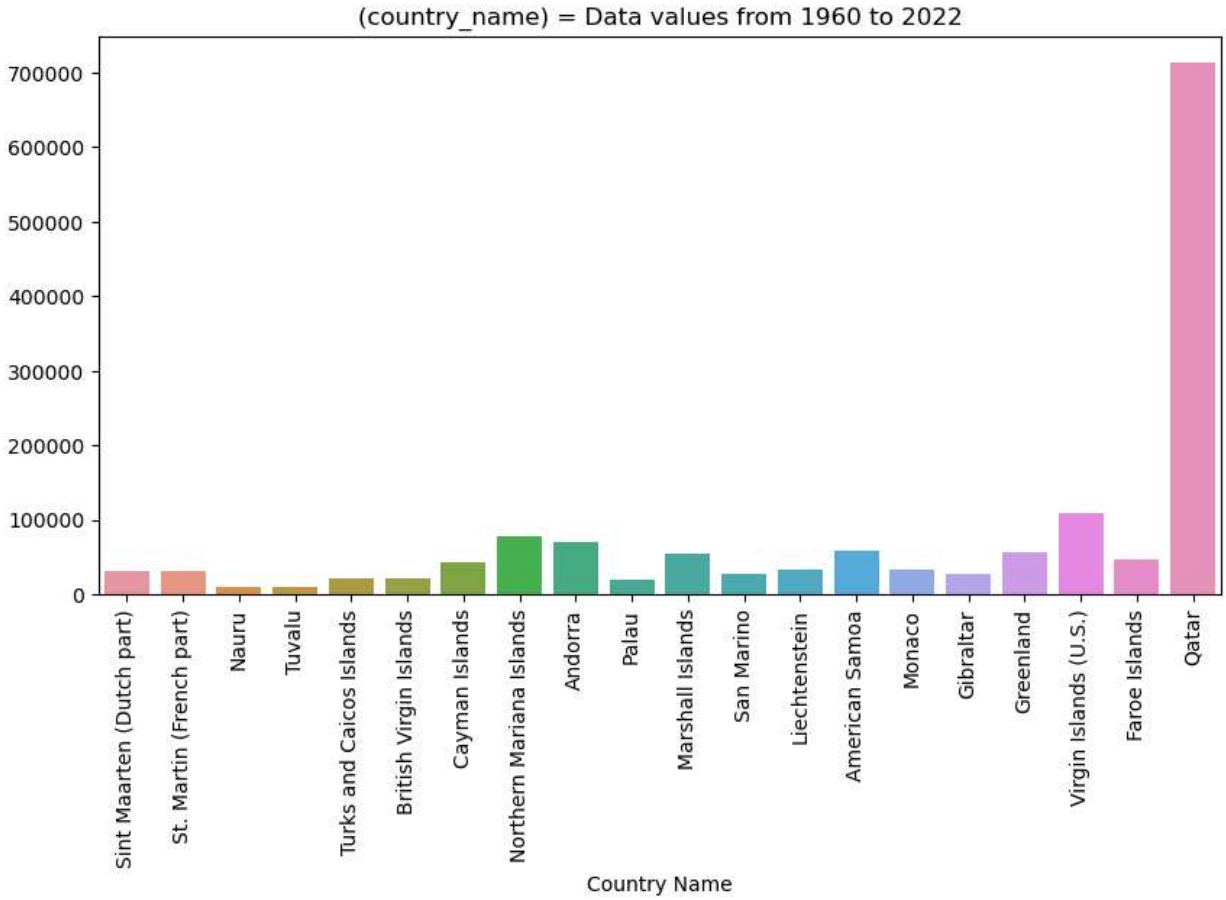
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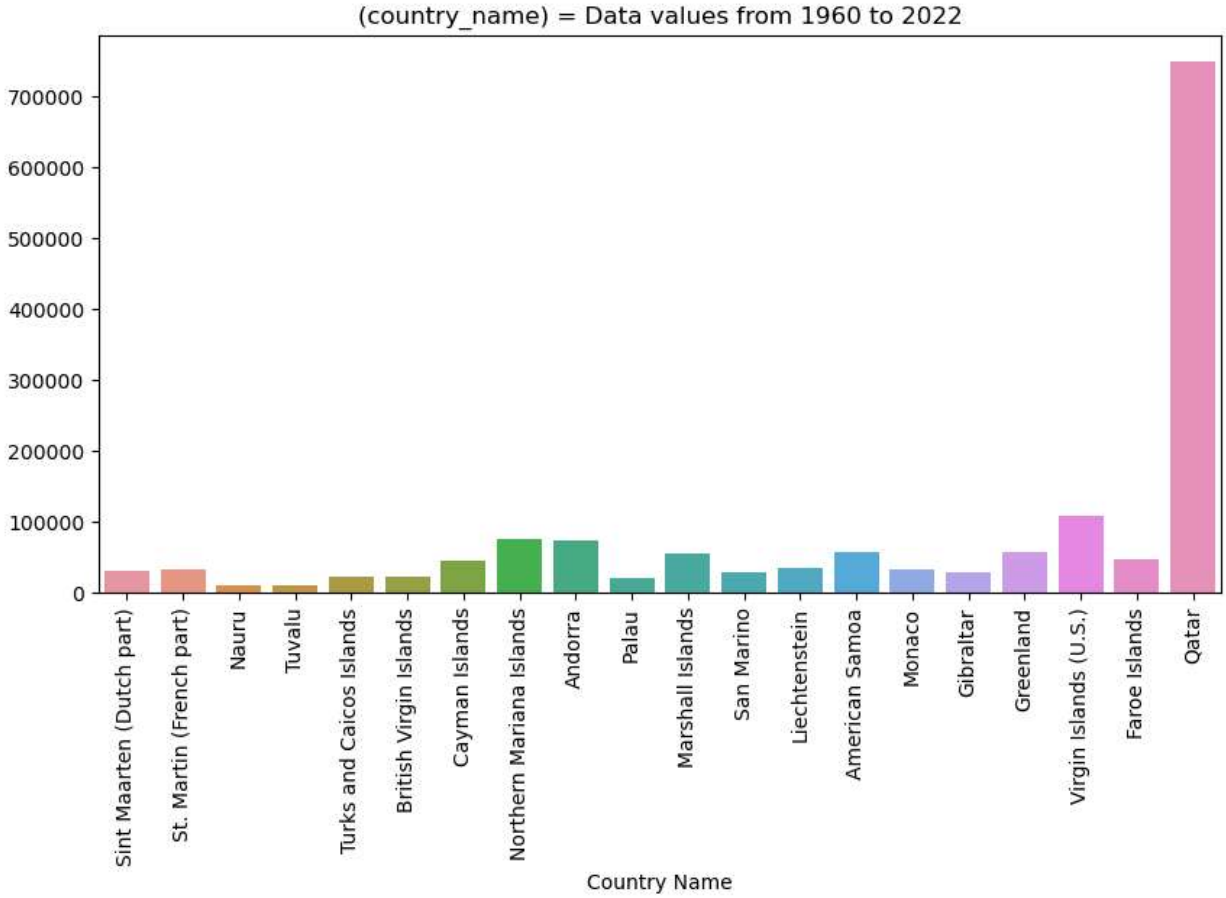
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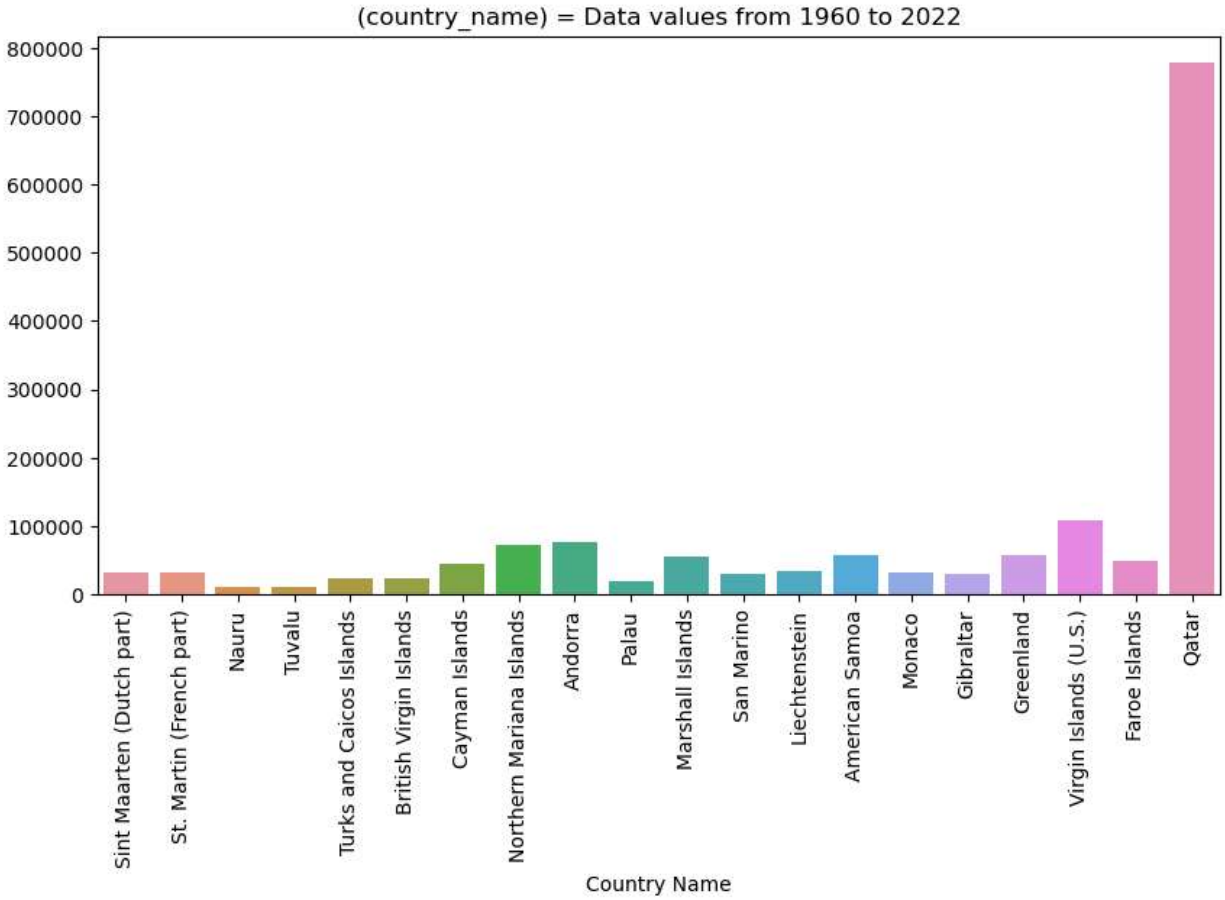
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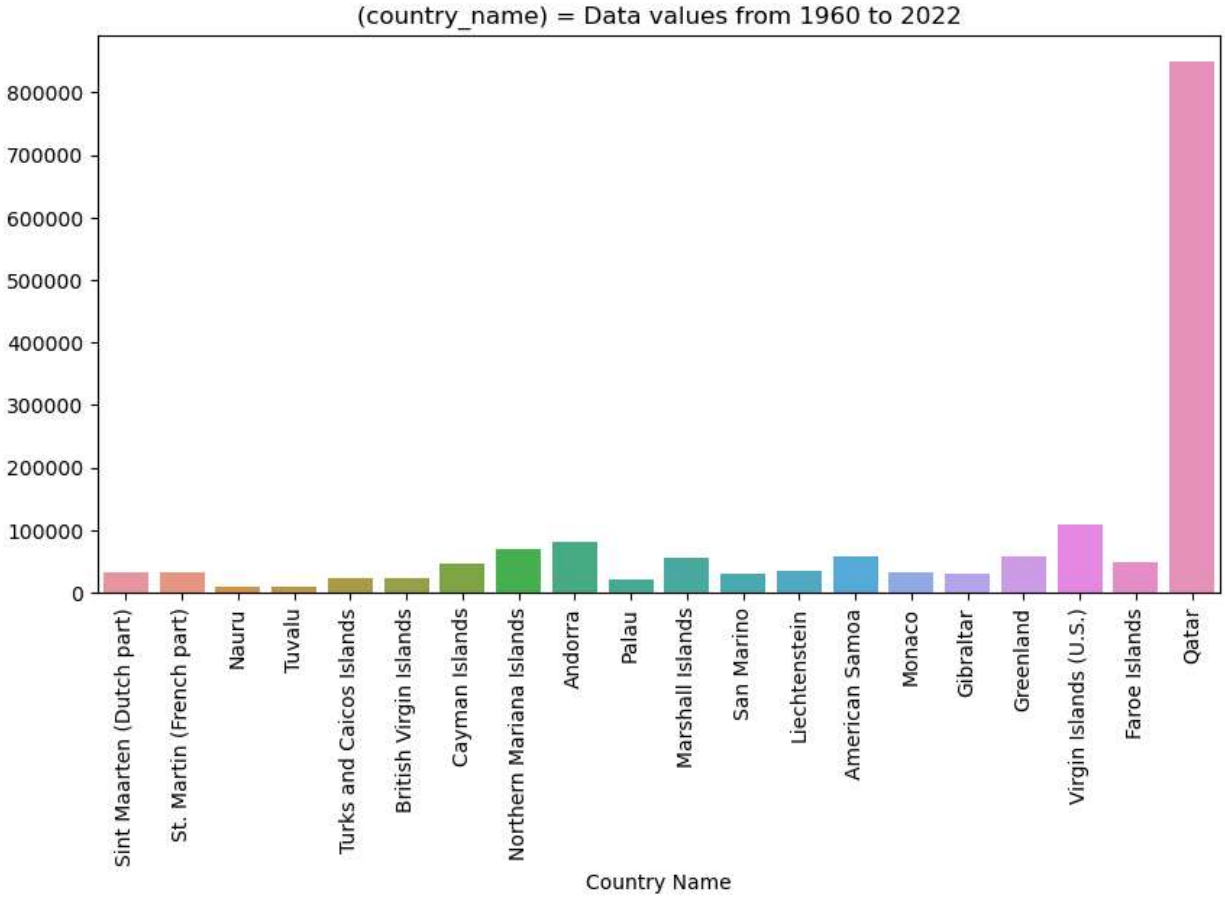
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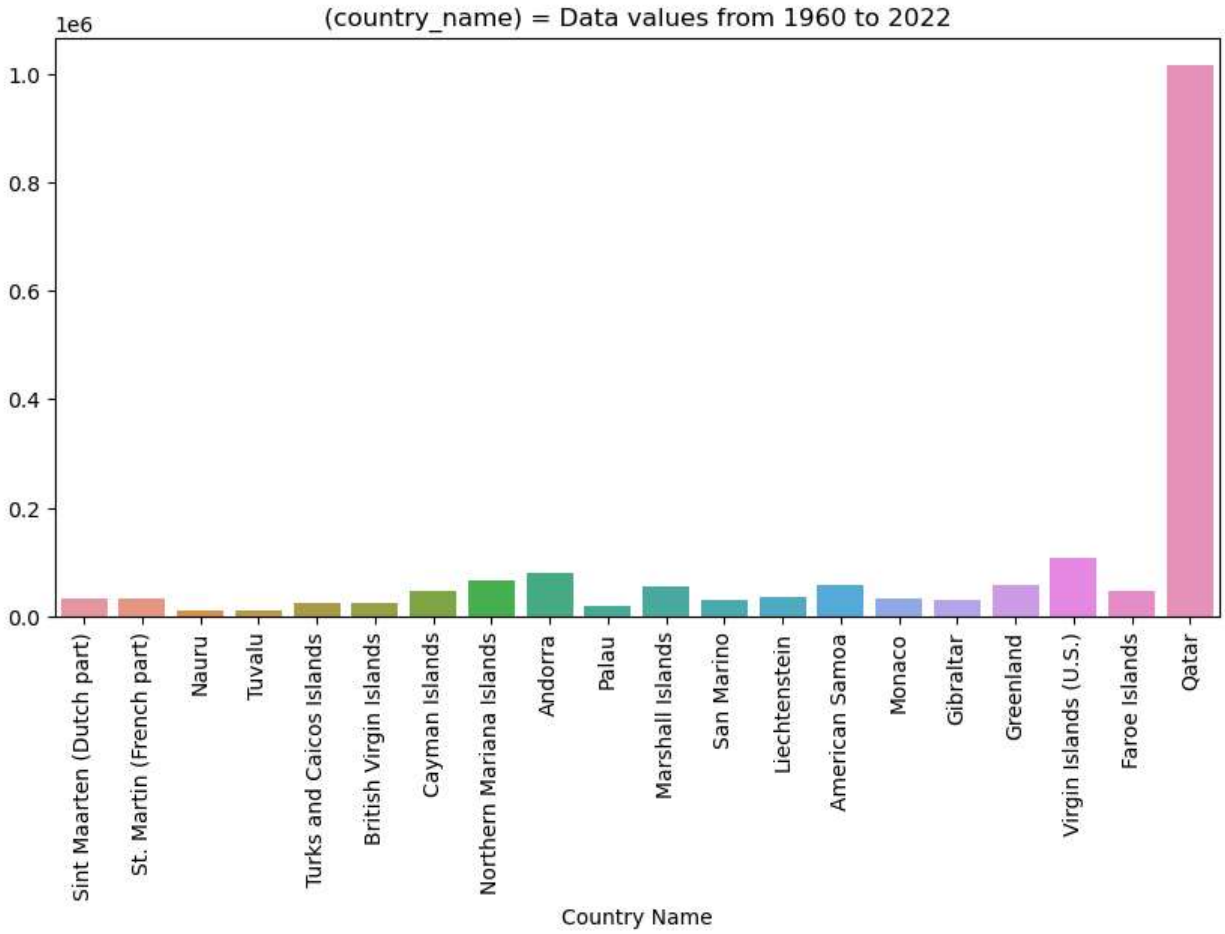
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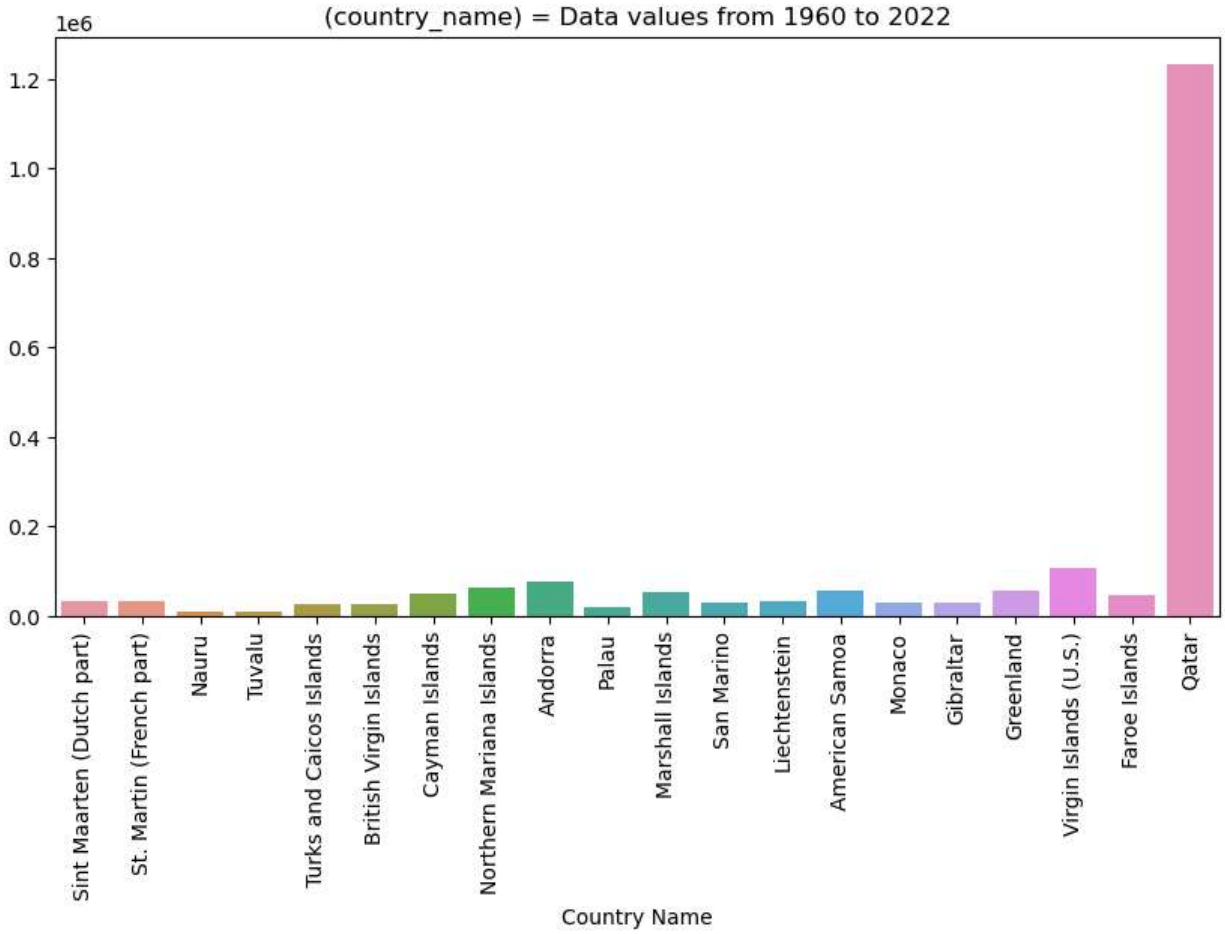
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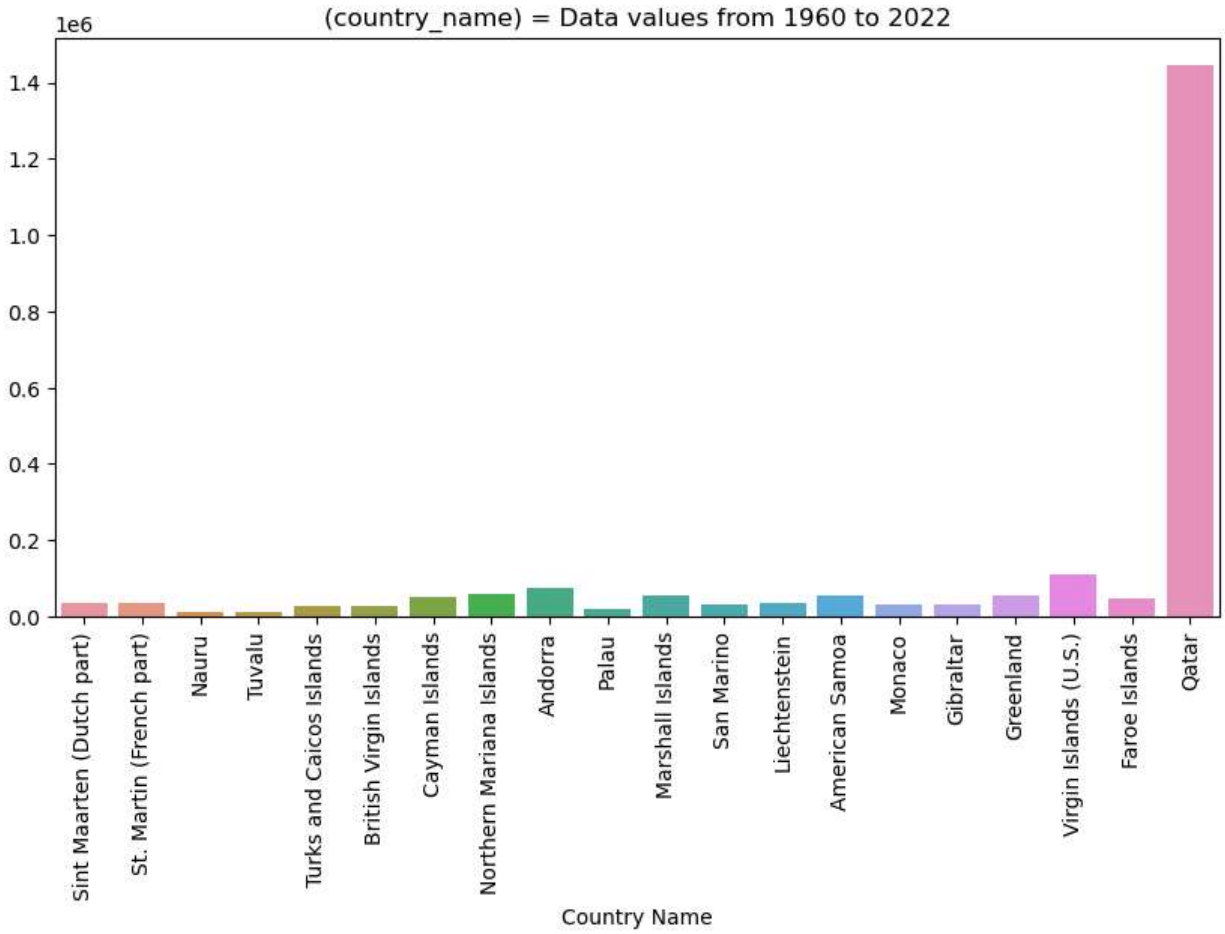
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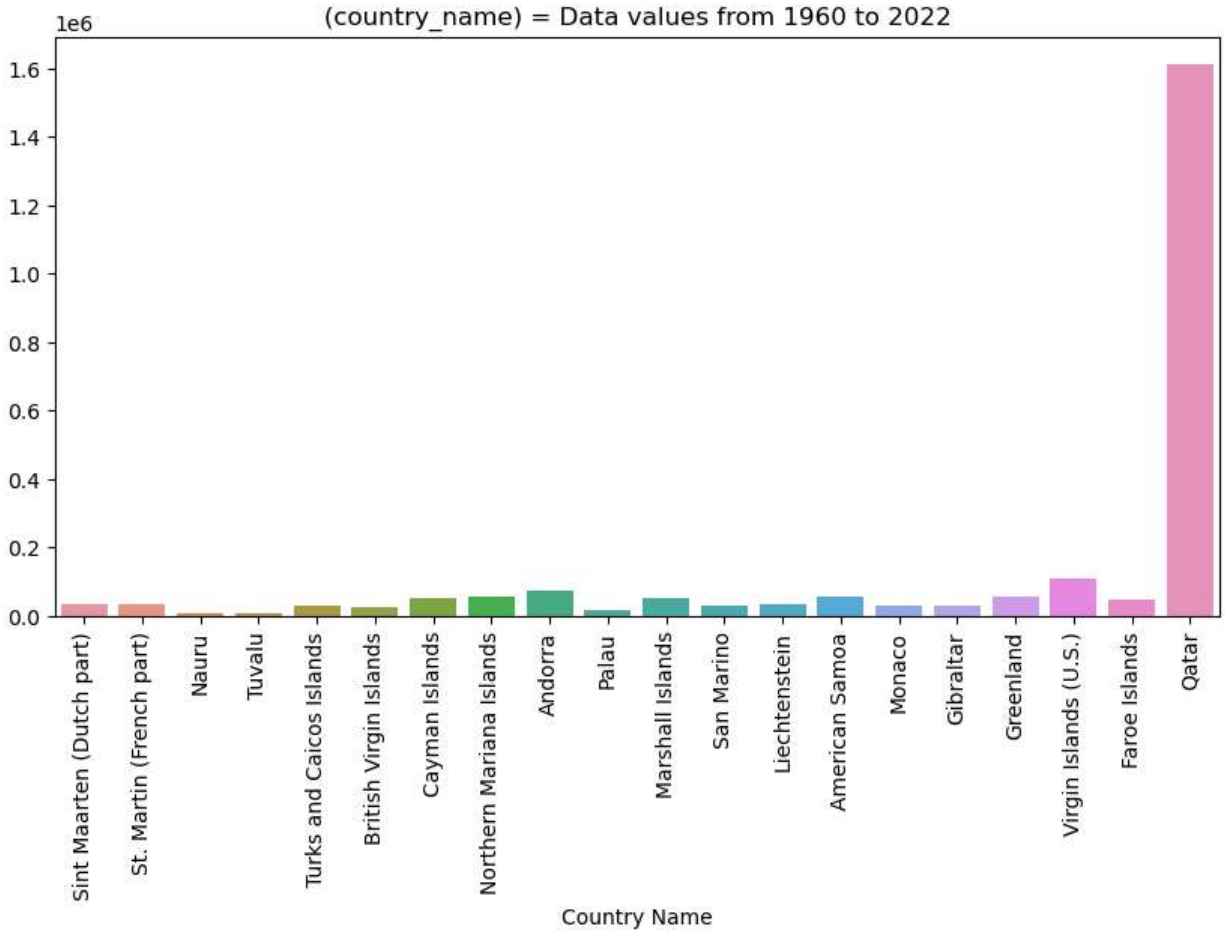
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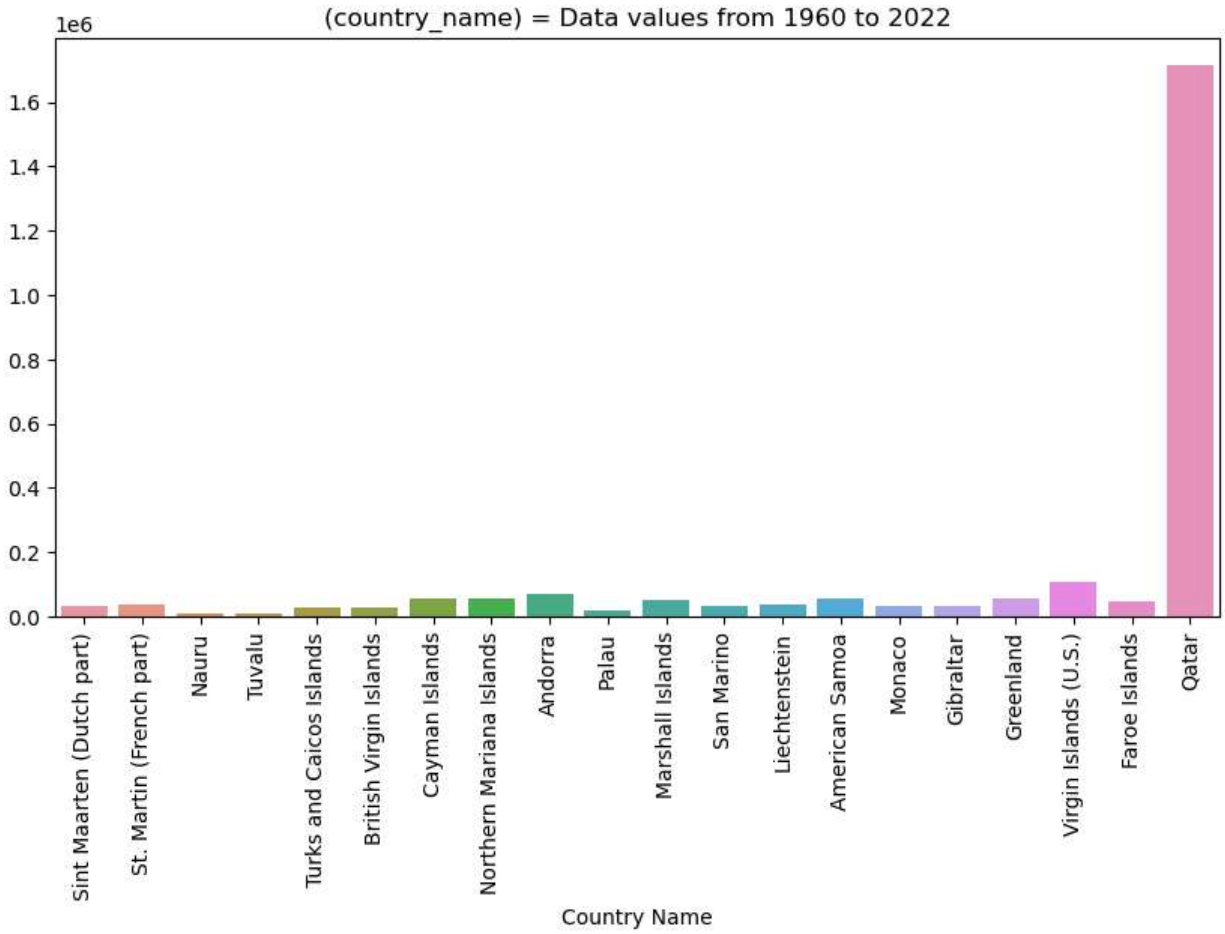
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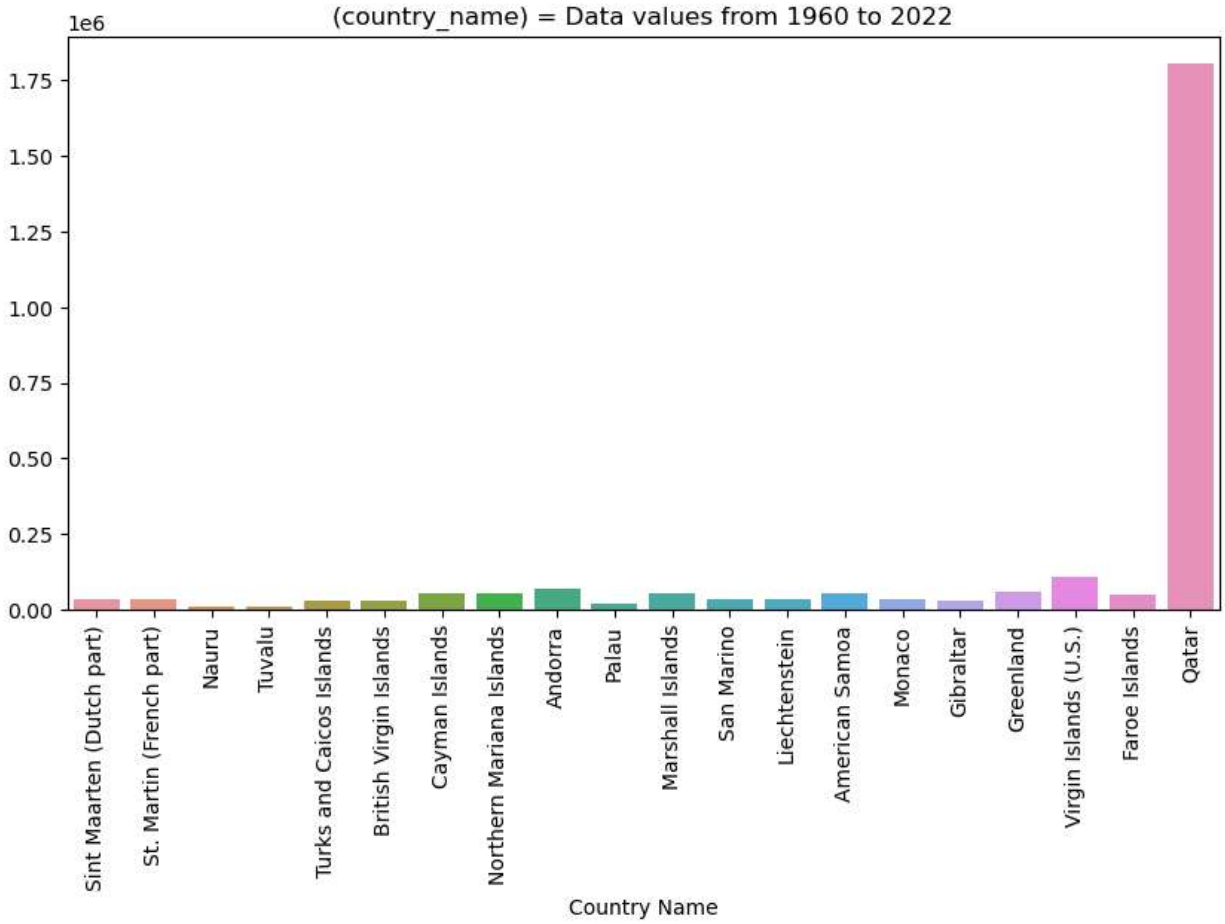
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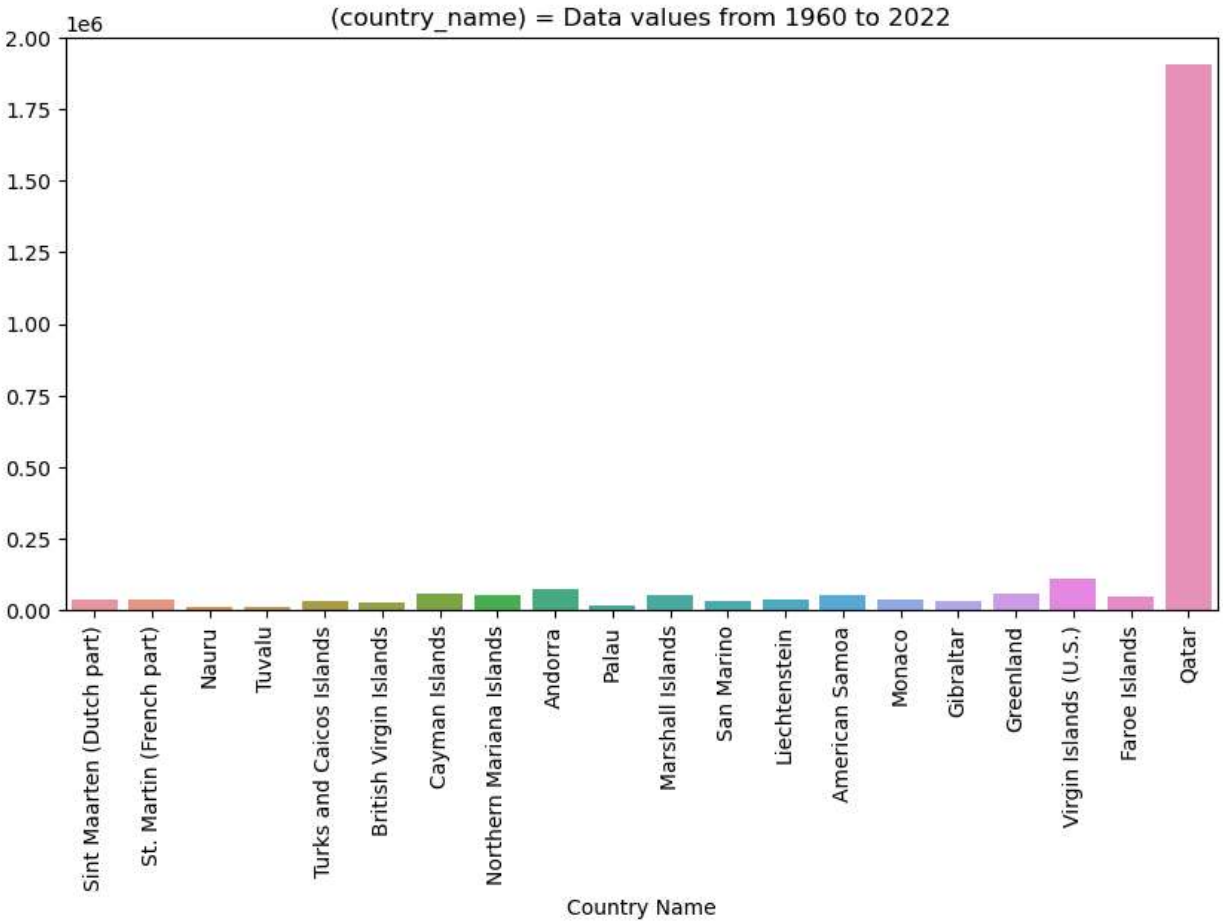
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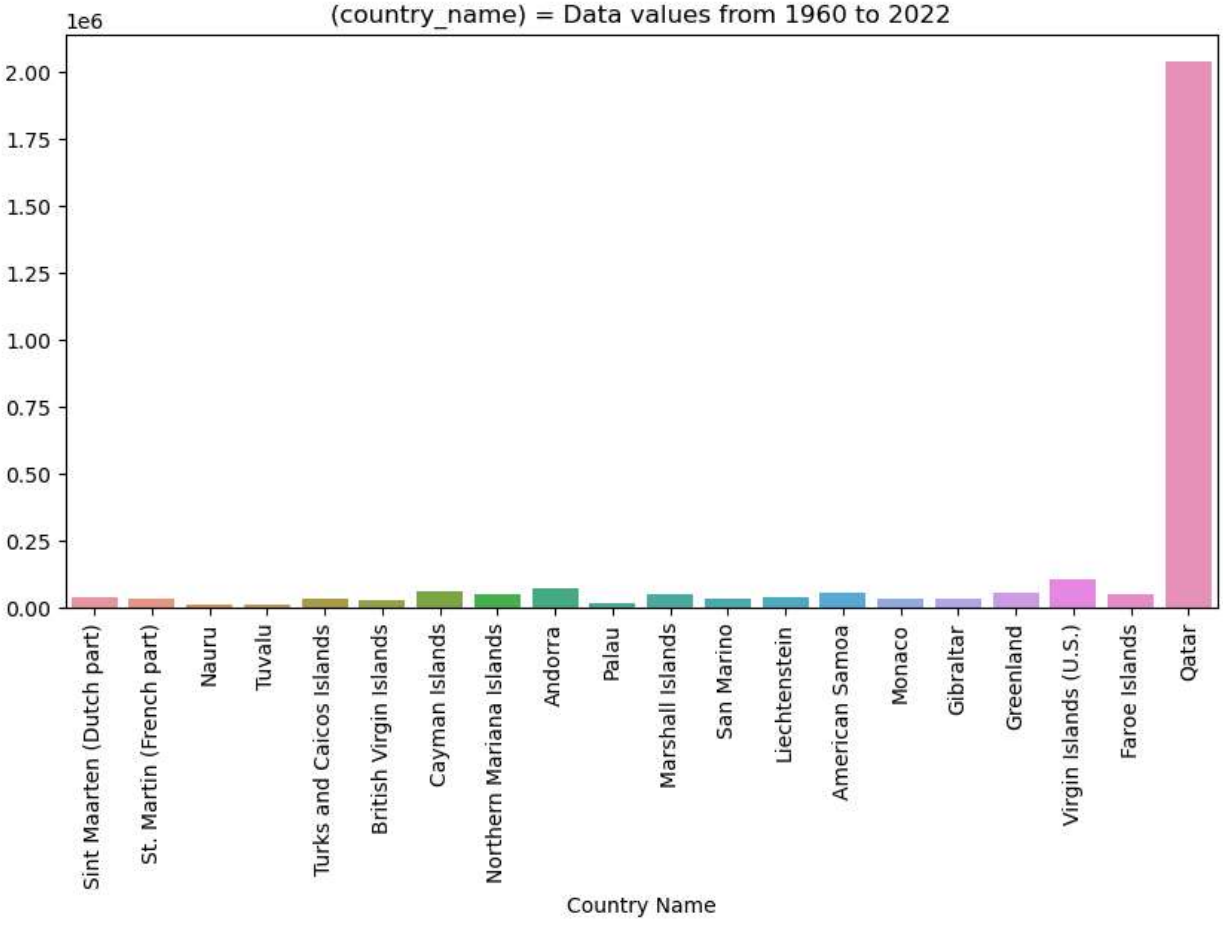
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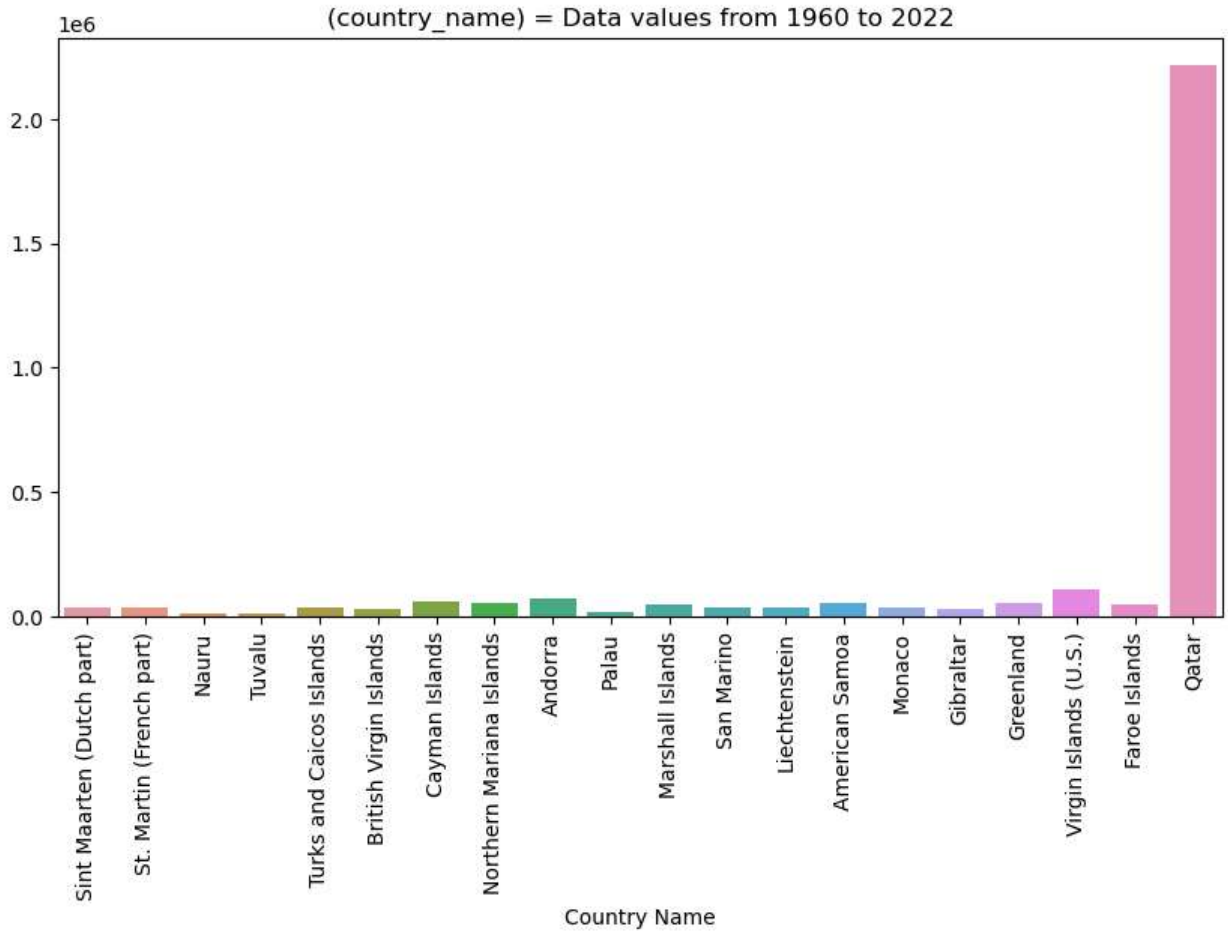
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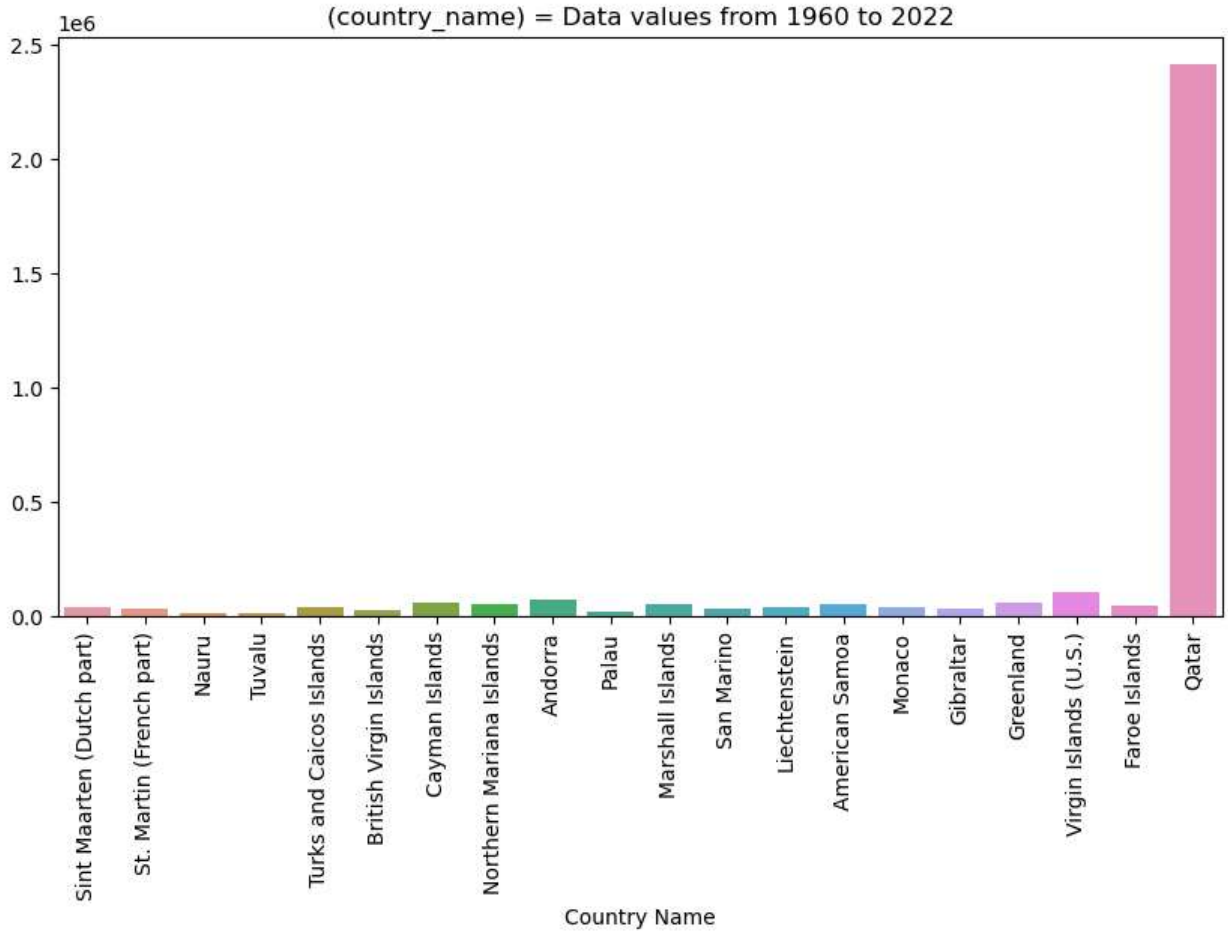
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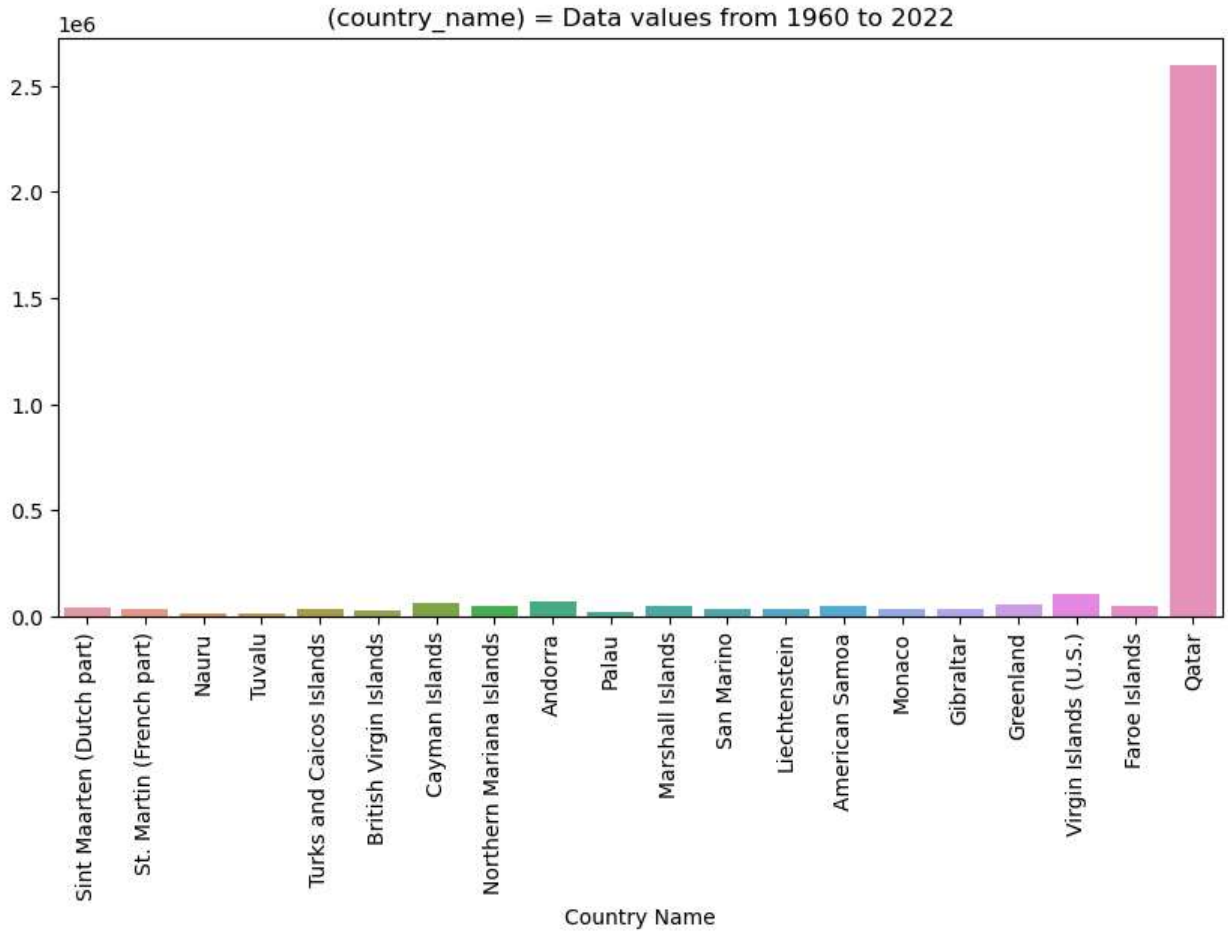
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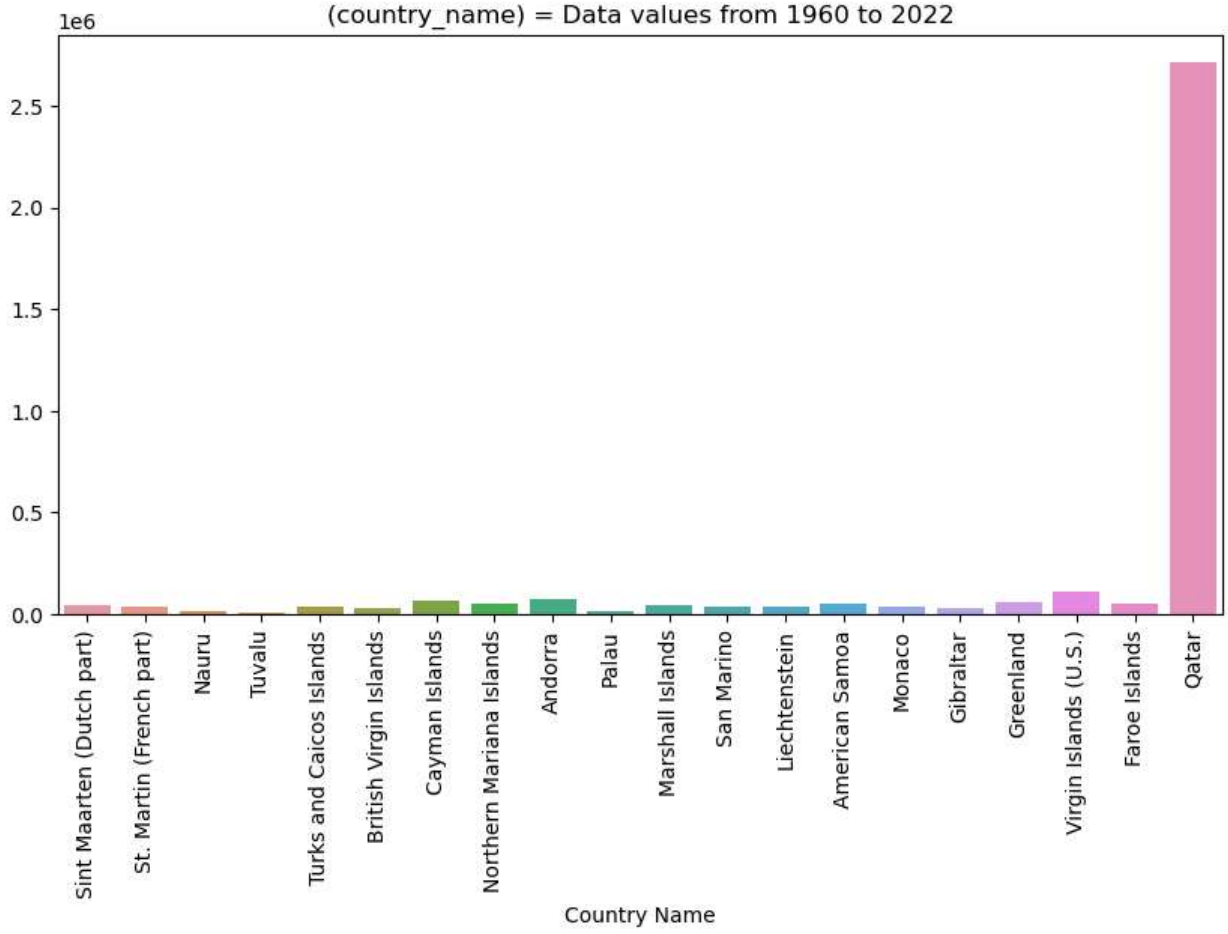
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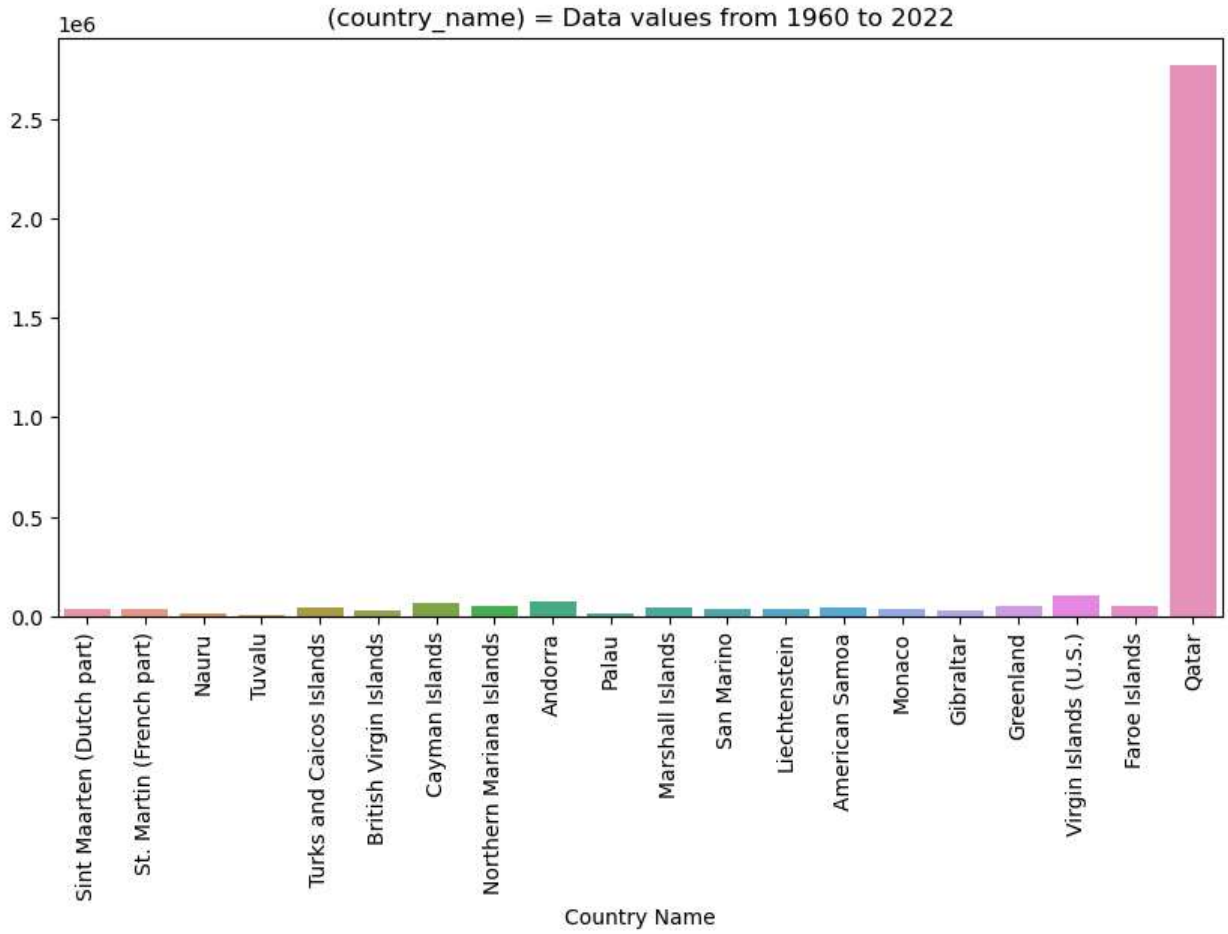
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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1.0
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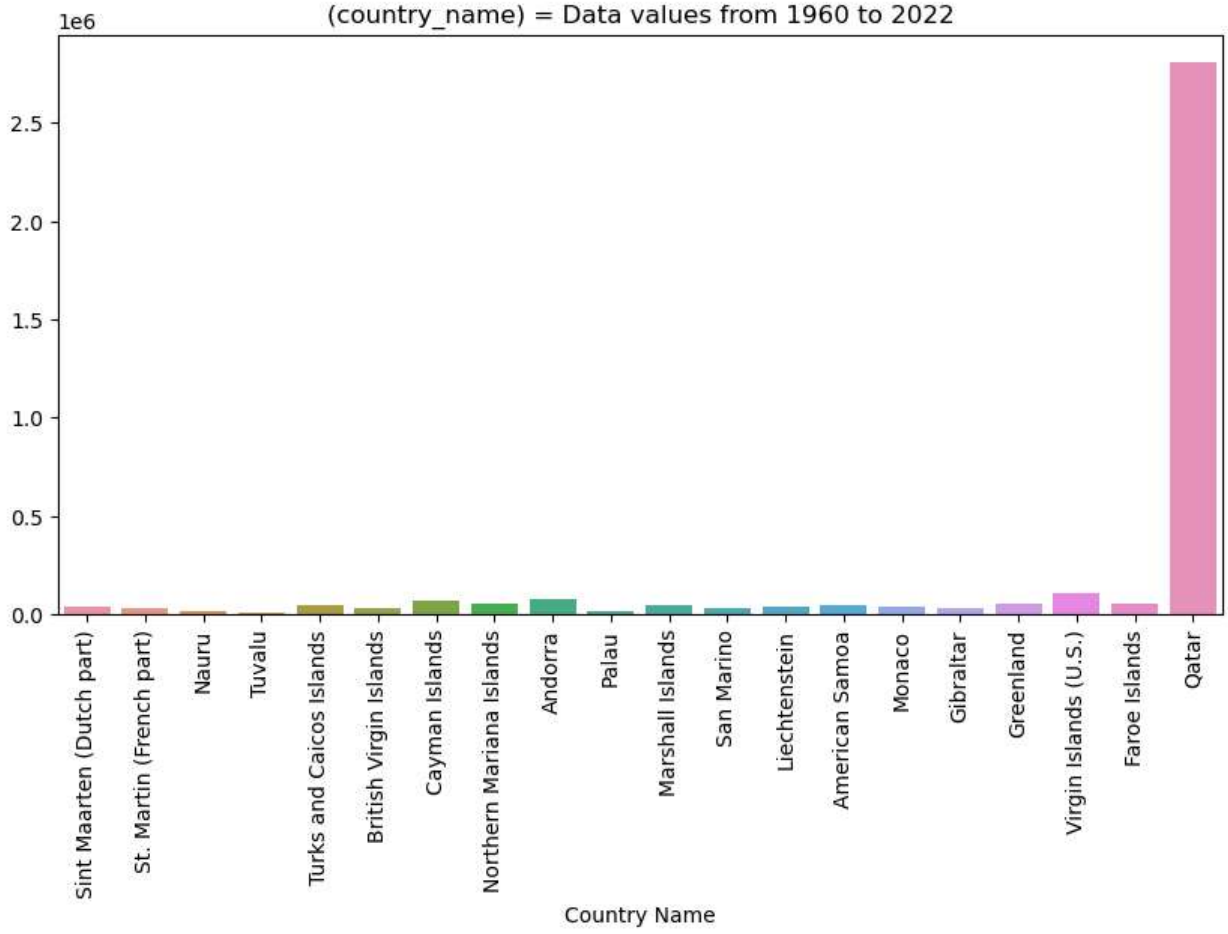
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
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Northern Mariana Islands
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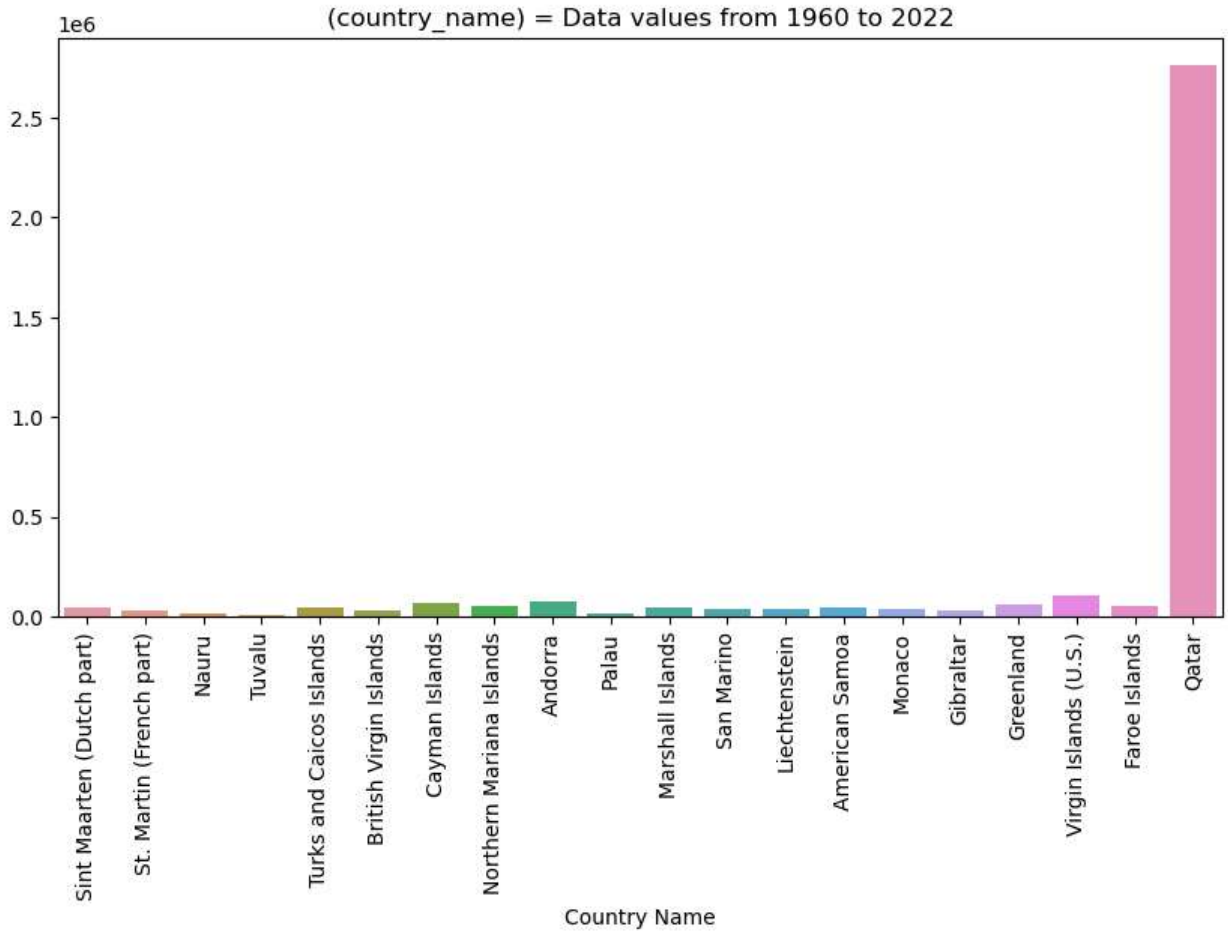
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
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Faroe Islands
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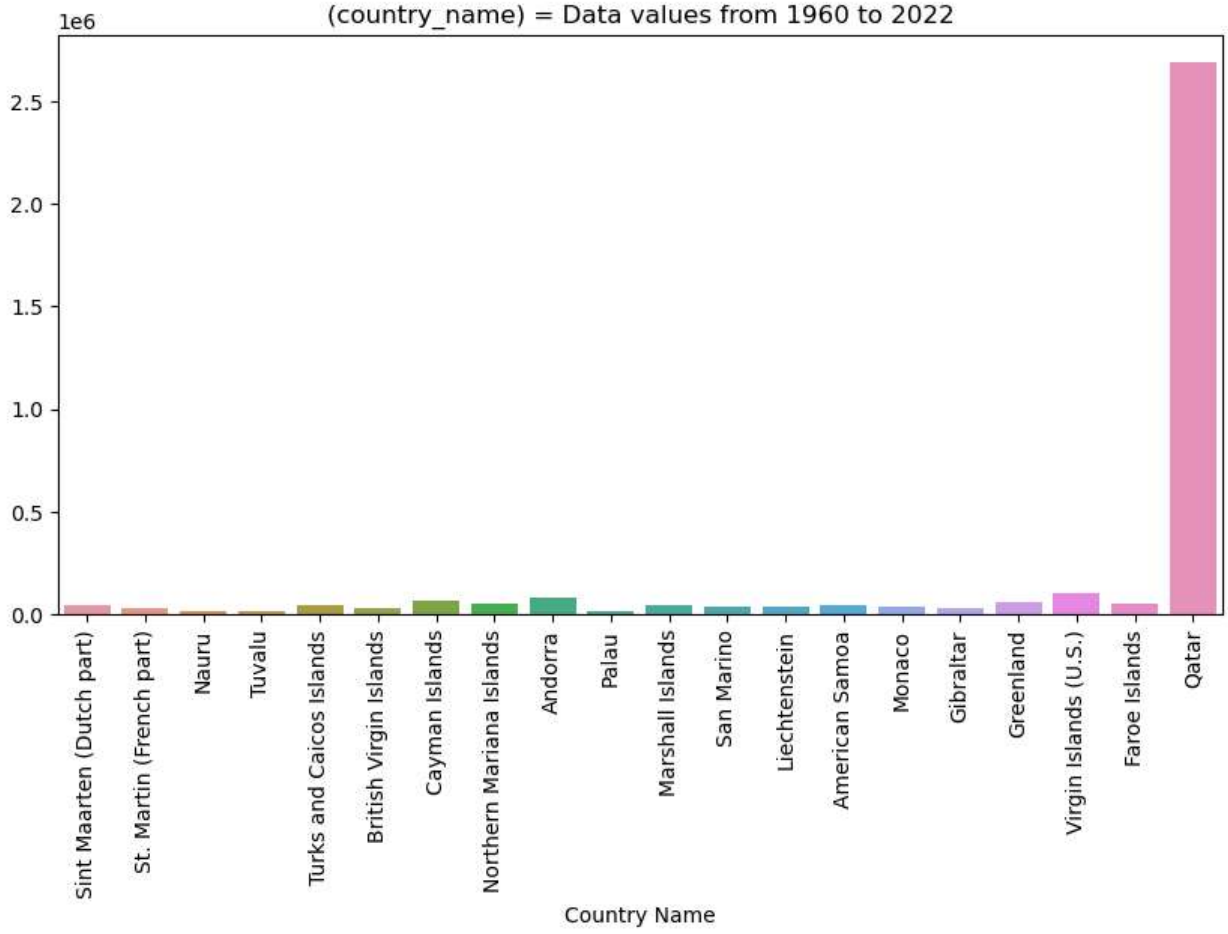
Country Name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Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
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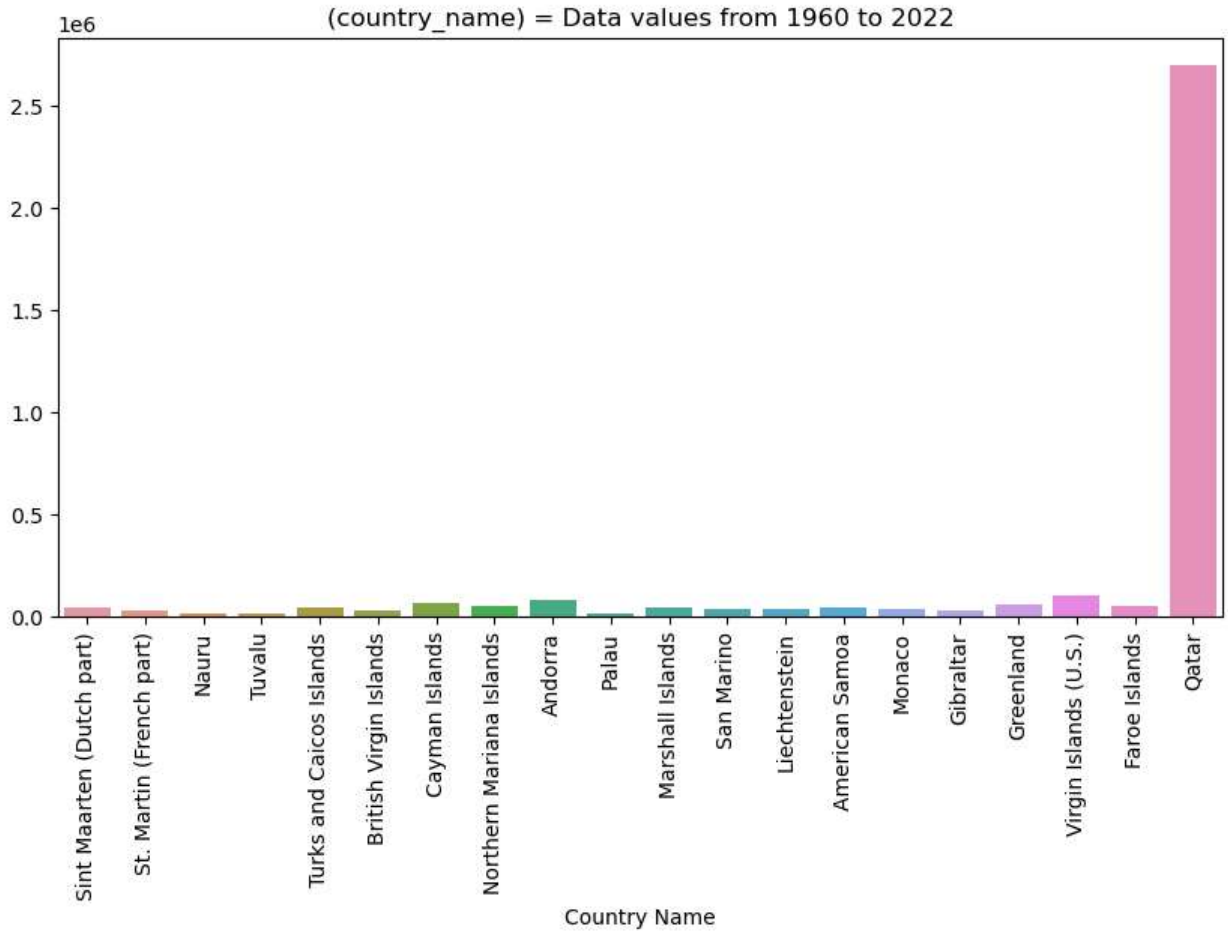
Faroe Islands
Qatar
Country Name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St. Martin (French part)
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Tuvalu
Turks and Caicos Islands
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Northern Mariana Islands
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Greenland
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Faroe Islands
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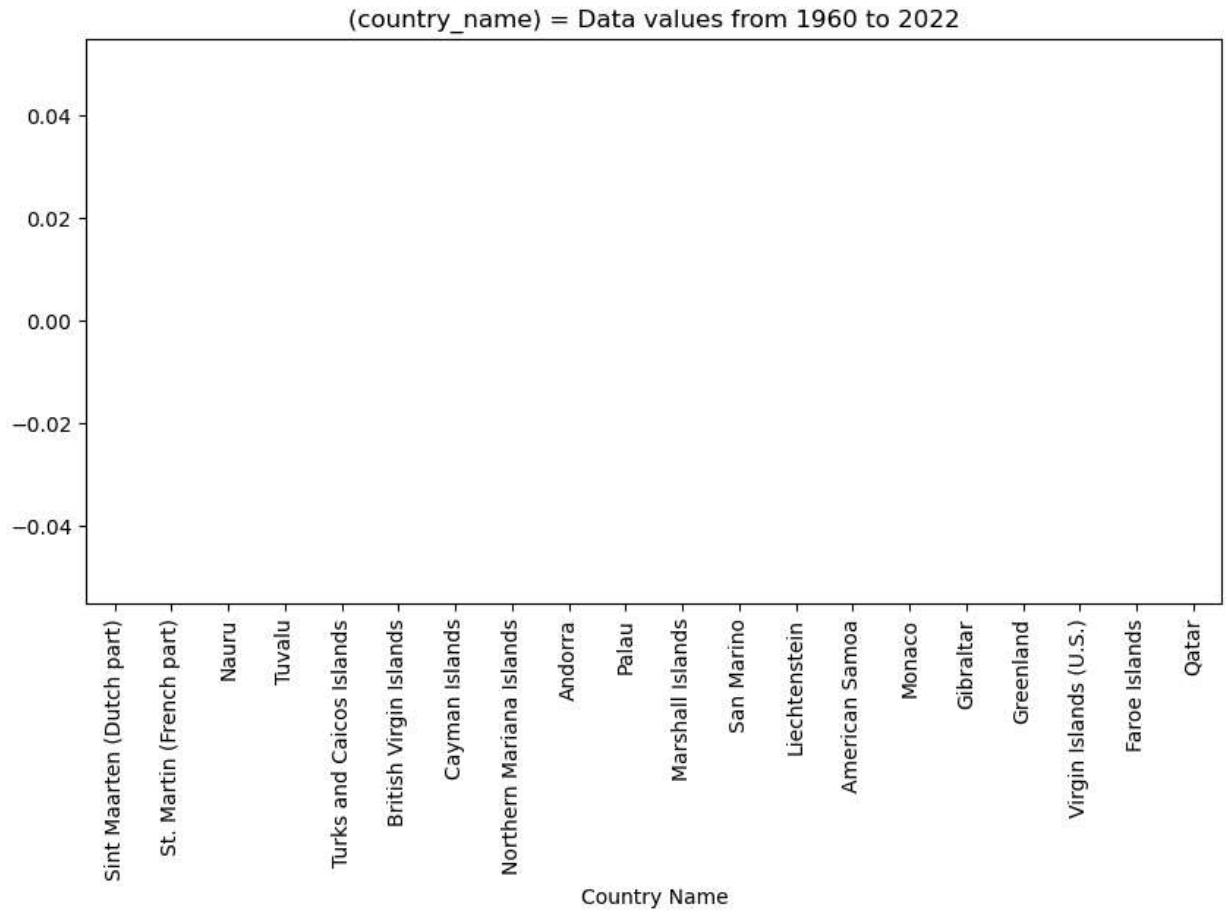
Country Name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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
American Samoa
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name

In [93]:
```
country_by_2022 = df.sort_values(by='2022').head(20)
country_by_2022
```

Out[93]:

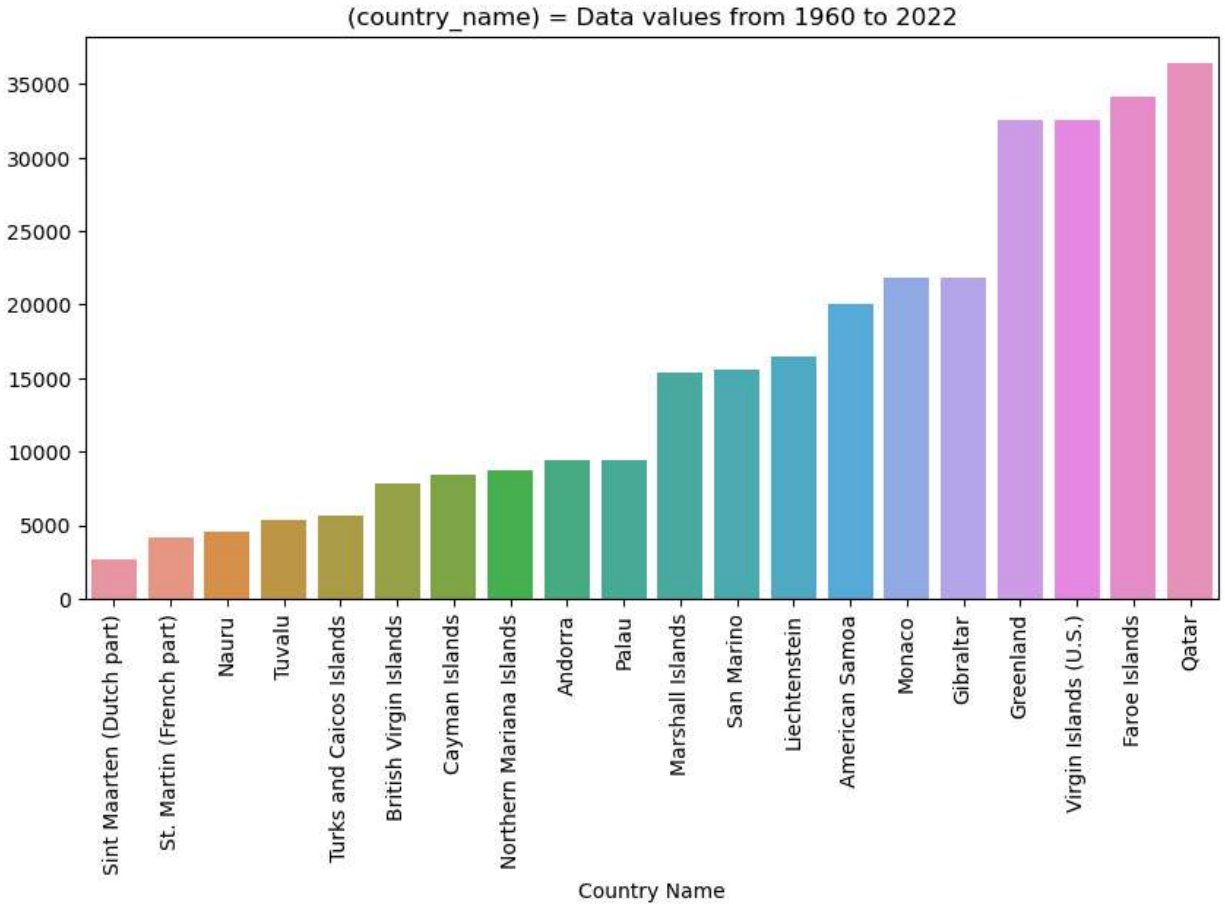
	Country Name	1960	1961	1962	1963	1964	1965	1966	1967	1968	...
245	Tuvalu	5404.0	5436.0	5471.0	5503.0	5525.0	5548.0	5591.0	5657.0	5729.0	...
179	Nauru	4582.0	4753.0	4950.0	5198.0	5484.0	5804.0	6021.0	6114.0	6288.0	...
188	Palau	9446.0	9639.0	9851.0	10076.0	10318.0	10563.0	10813.0	10992.0	11079.0	...
255	British Virgin Islands	7850.0	7885.0	7902.0	7919.0	7949.0	8018.0	8139.0	8337.0	8649.0	...
147	St. Martin (French part)	4135.0	4258.0	4388.0	4524.0	4666.0	4832.0	5044.0	5294.0	5497.0	...
84	Gibraltar	21822.0	21907.0	22249.0	22796.0	23347.0	23910.0	24477.0	25047.0	25610.0	...
212	San Marino	15556.0	15895.0	16242.0	16583.0	16926.0	17273.0	17588.0	17907.0	18291.0	...
149	Monaco	21797.0	21907.0	22106.0	22442.0	22766.0	23022.0	23198.0	23281.0	23481.0	...
137	Liechtenstein	16472.0	16834.0	17221.0	17625.0	18058.0	18500.0	18957.0	19467.0	20011.0	...
155	Marshall Islands	15374.0	15867.0	16387.0	16947.0	17537.0	18154.0	18794.0	19665.0	21001.0	...
225	Sint Maarten (Dutch part)	2646.0	2888.0	3171.0	3481.0	3811.0	4161.0	4531.0	4930.0	5354.0	...
11	American Samoa	20085.0	20626.0	21272.0	21949.0	22656.0	23391.0	24122.0	24848.0	25608.0	...
228	Turks and Caicos Islands	5604.0	5625.0	5633.0	5634.0	5642.0	5650.0	5652.0	5662.0	5668.0	...
125	St. Kitts and Nevis	56660.0	56247.0	55404.0	54391.0	53255.0	52016.0	50683.0	49269.0	47772.0	...
164	Northern Mariana Islands	8702.0	8965.0	9252.0	9561.0	9890.0	10229.0	10577.0	10720.0	10440.0	...
78	Faroe Islands	34154.0	34572.0	34963.0	35385.0	35841.0	36346.0	36825.0	37234.0	37630.0	...
91	Greenland	32500.0	33700.0	35000.0	36400.0	37600.0	39200.0	40500.0	41900.0	43400.0	...
27	Bermuda	44400.0	45500.0	46600.0	47700.0	48900.0	50100.0	51000.0	52000.0	53000.0	...
52	Cayman Islands	8473.0	8626.0	8799.0	8985.0	9172.0	9366.0	9566.0	9771.0	9981.0	...
57	Dominica	59379.0	60395.0	61224.0	62031.0	62843.0	63744.0	64728.0	65760.0	66865.0	...

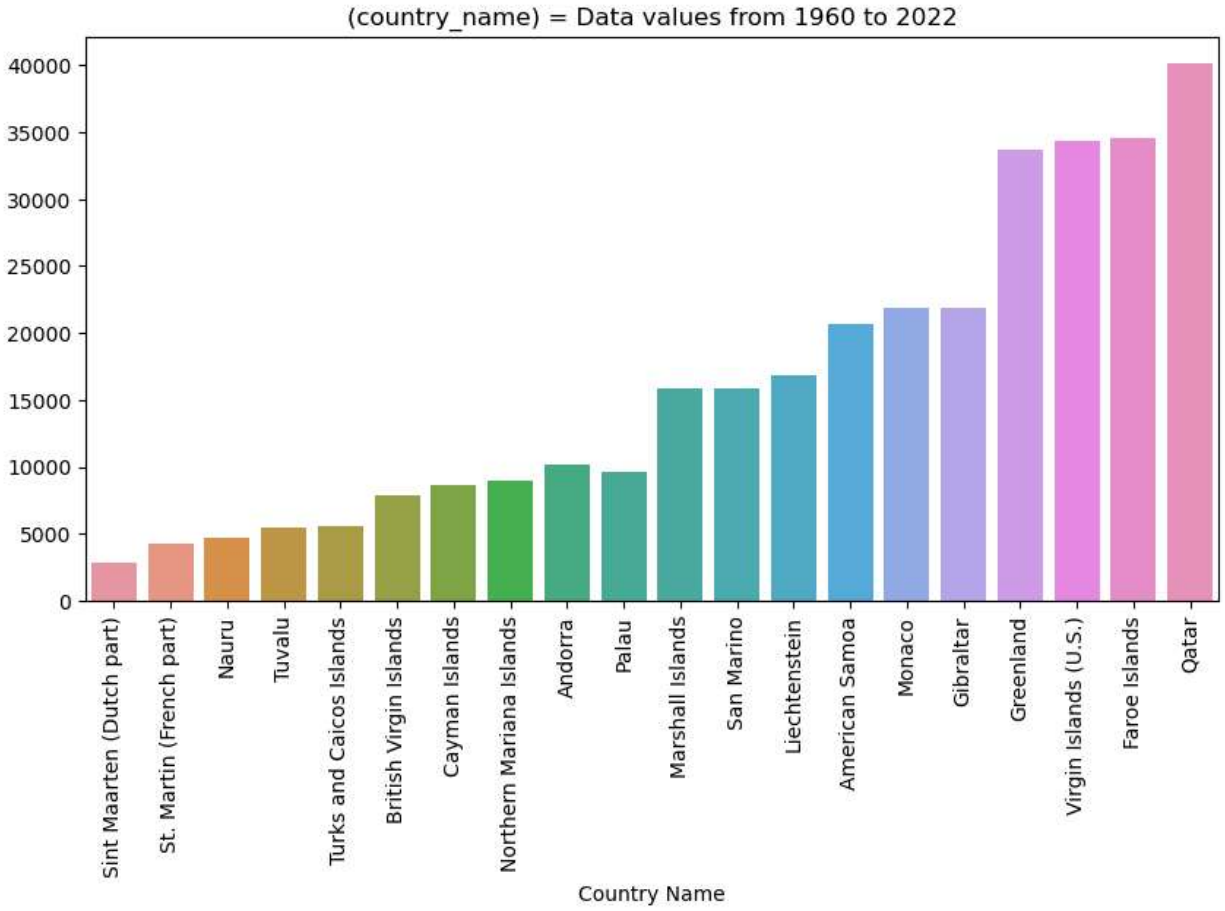
20 rows × 65 columns

In [96]:
```
import seaborn as sns
country_by_2022_t = country_by_2022.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.title(f"(country_name) = Data values from 1960 to 2022")
    plt.xticks(rotation=90)
    plt.show()
```

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30000
25000
20000
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10000
5000
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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Marshall Islands
San Marino
Liechtenstein
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Greenland
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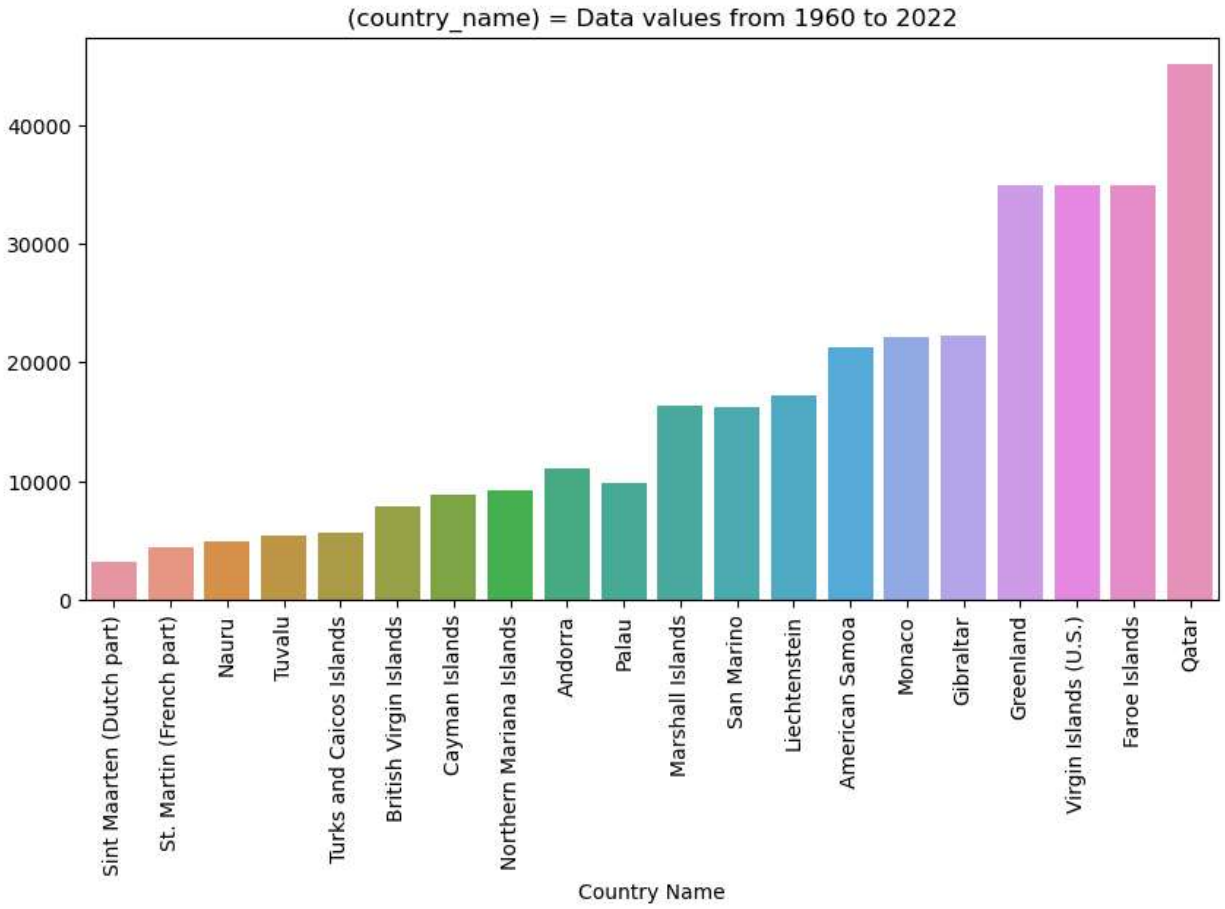
Faroe Islands
Qatar
Country Name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30000
20000
10000
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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
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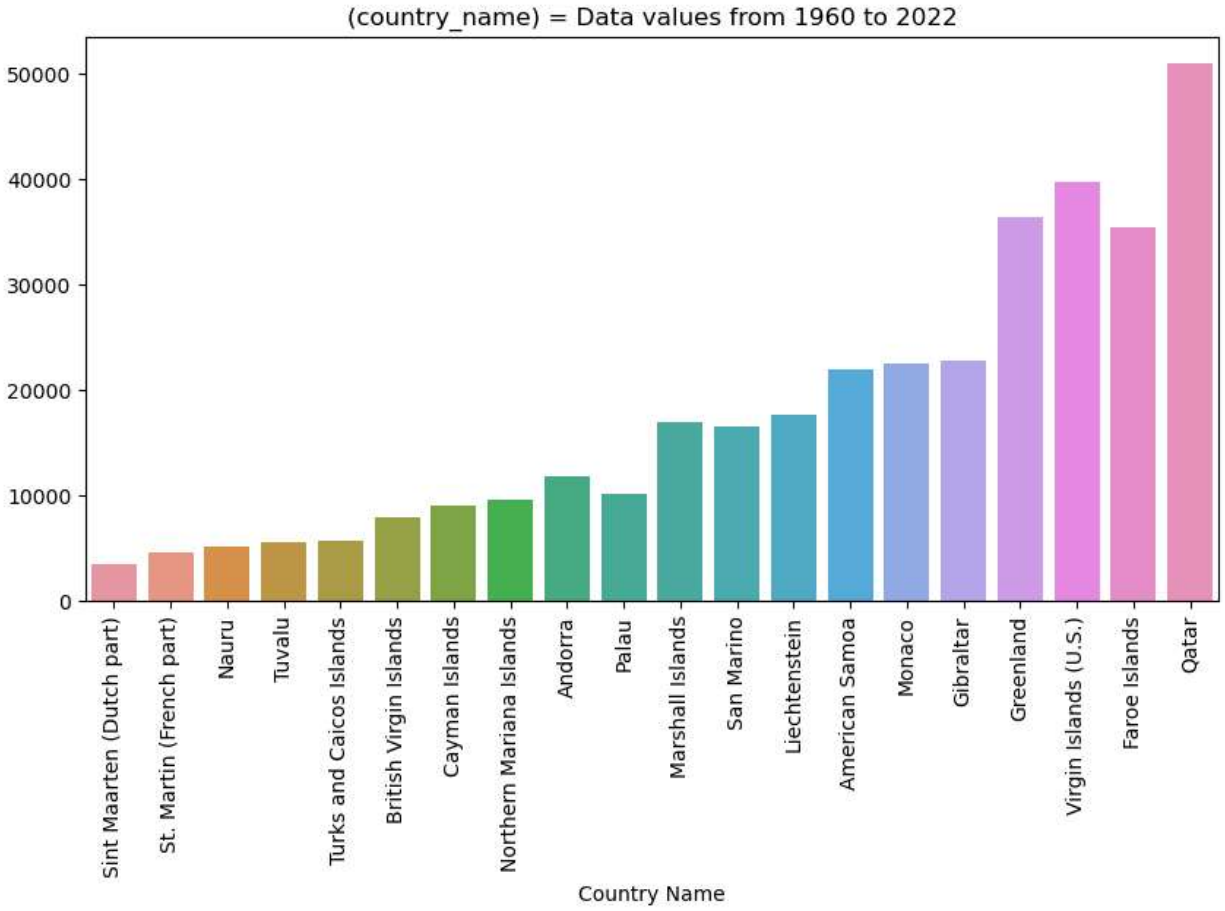
Faroe Islands
Qatar
Country Name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10000
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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
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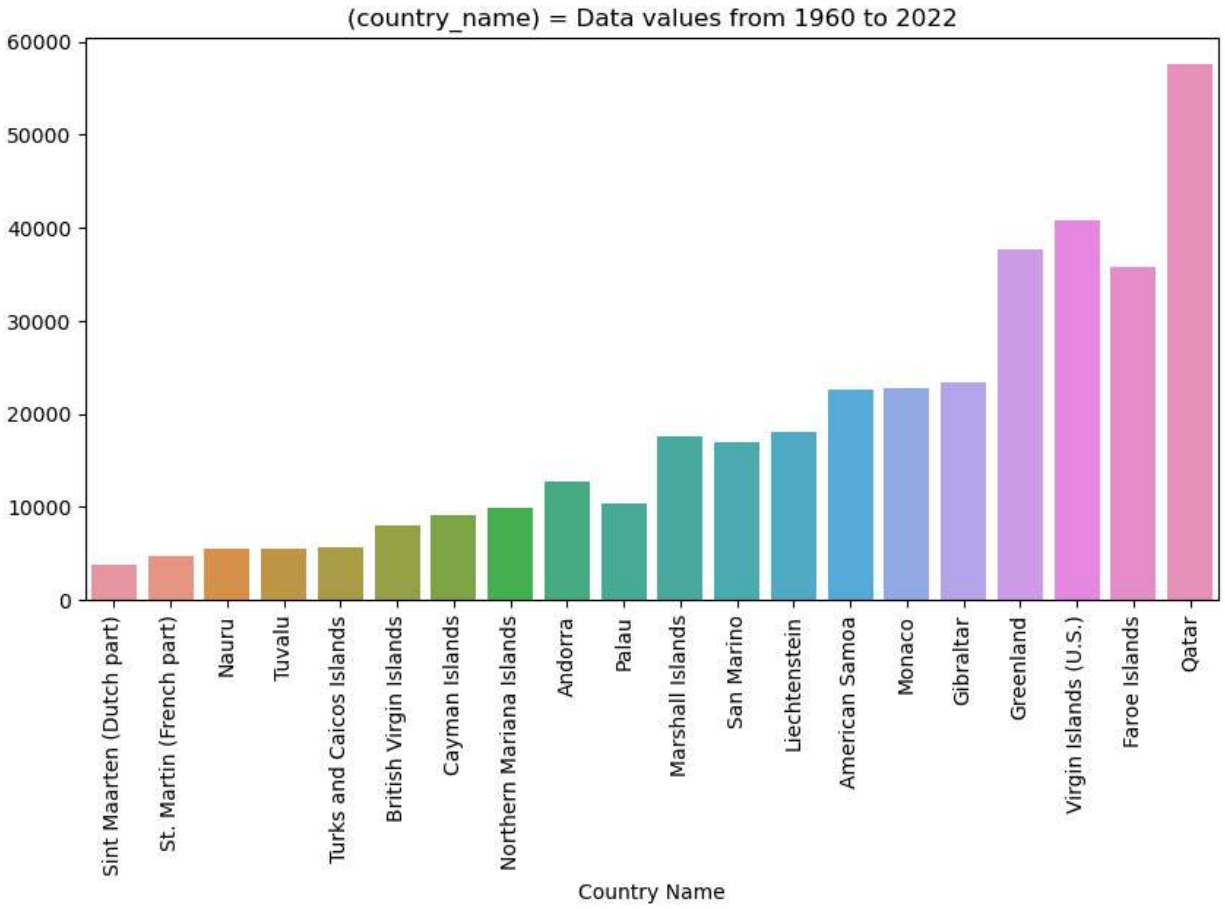
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St. Martin (French part)
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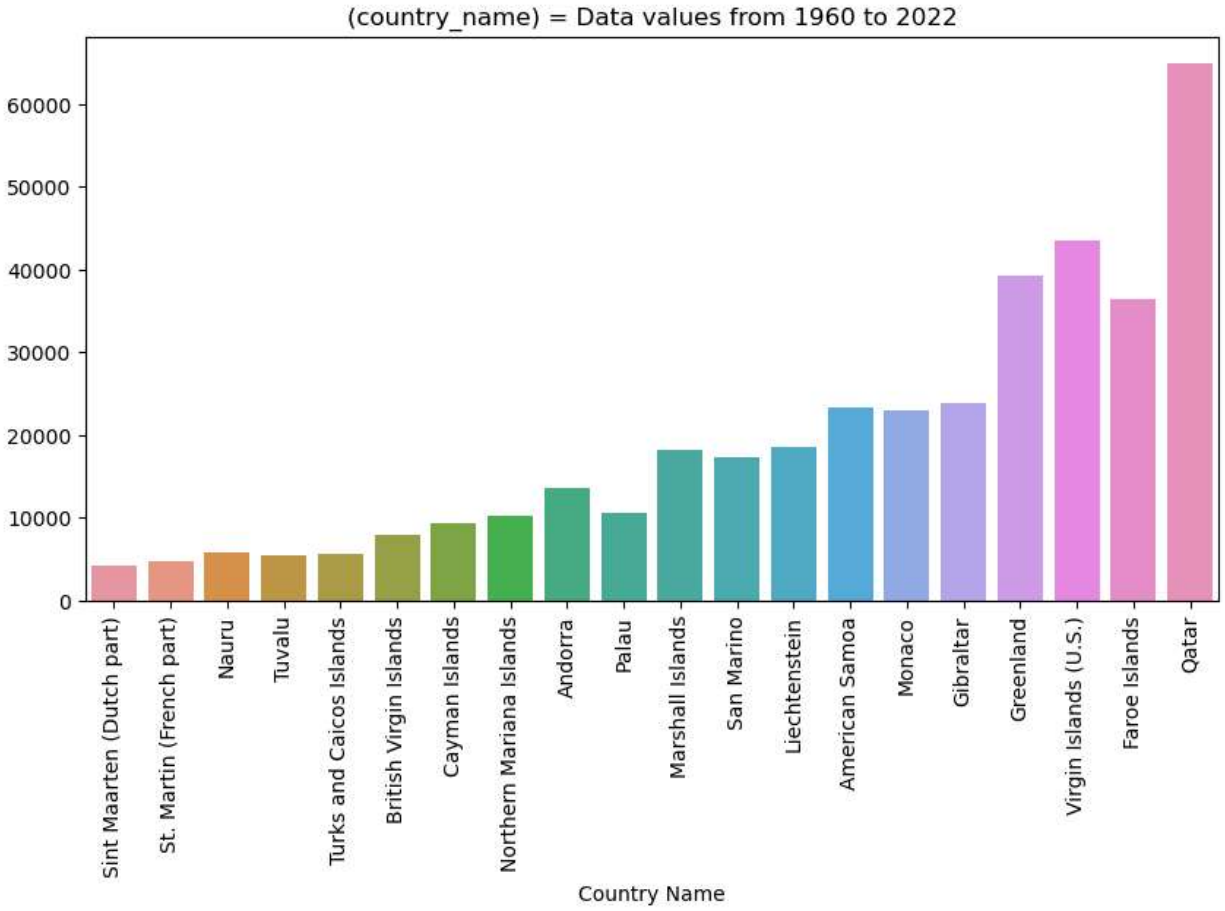
Country Name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St. Martin (French part)
Nauru
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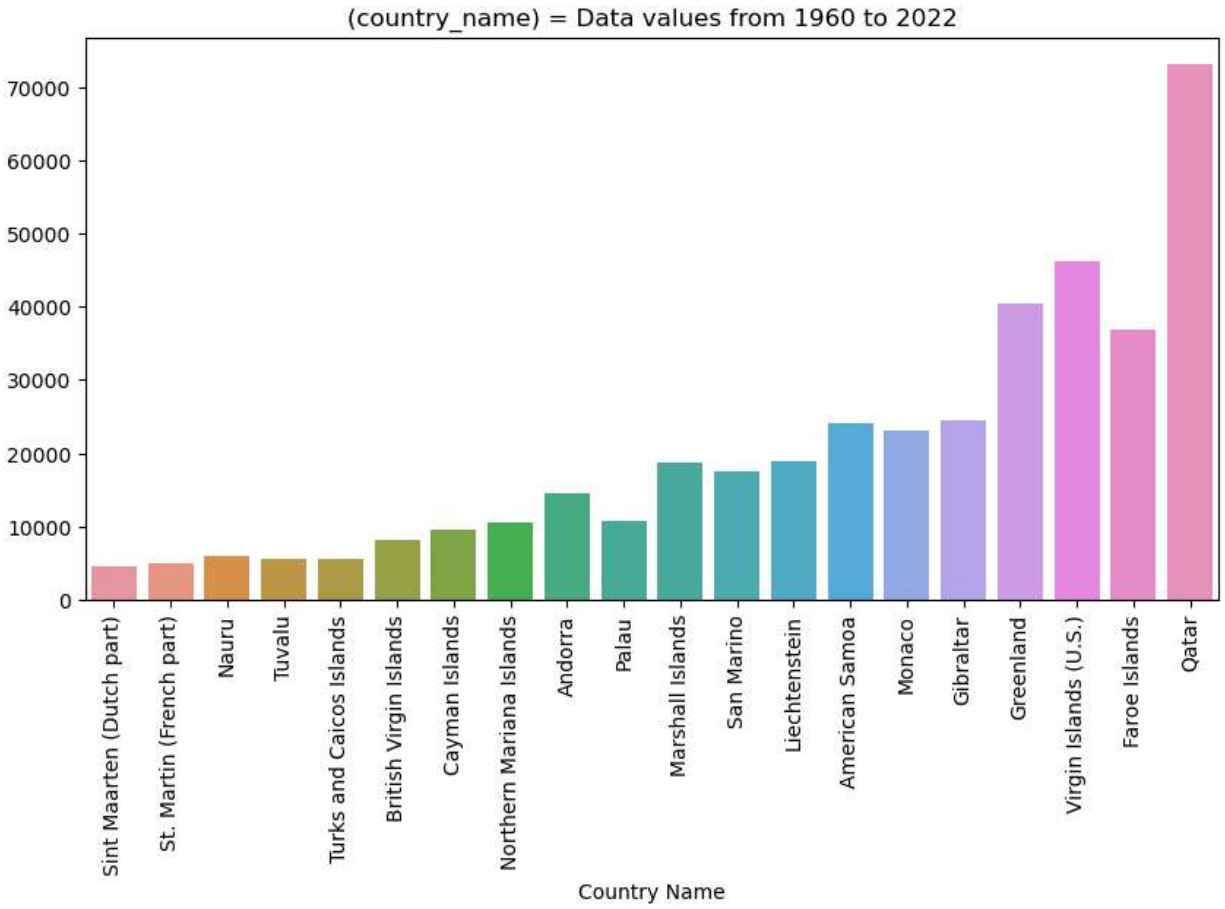
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St. Martin (French part)
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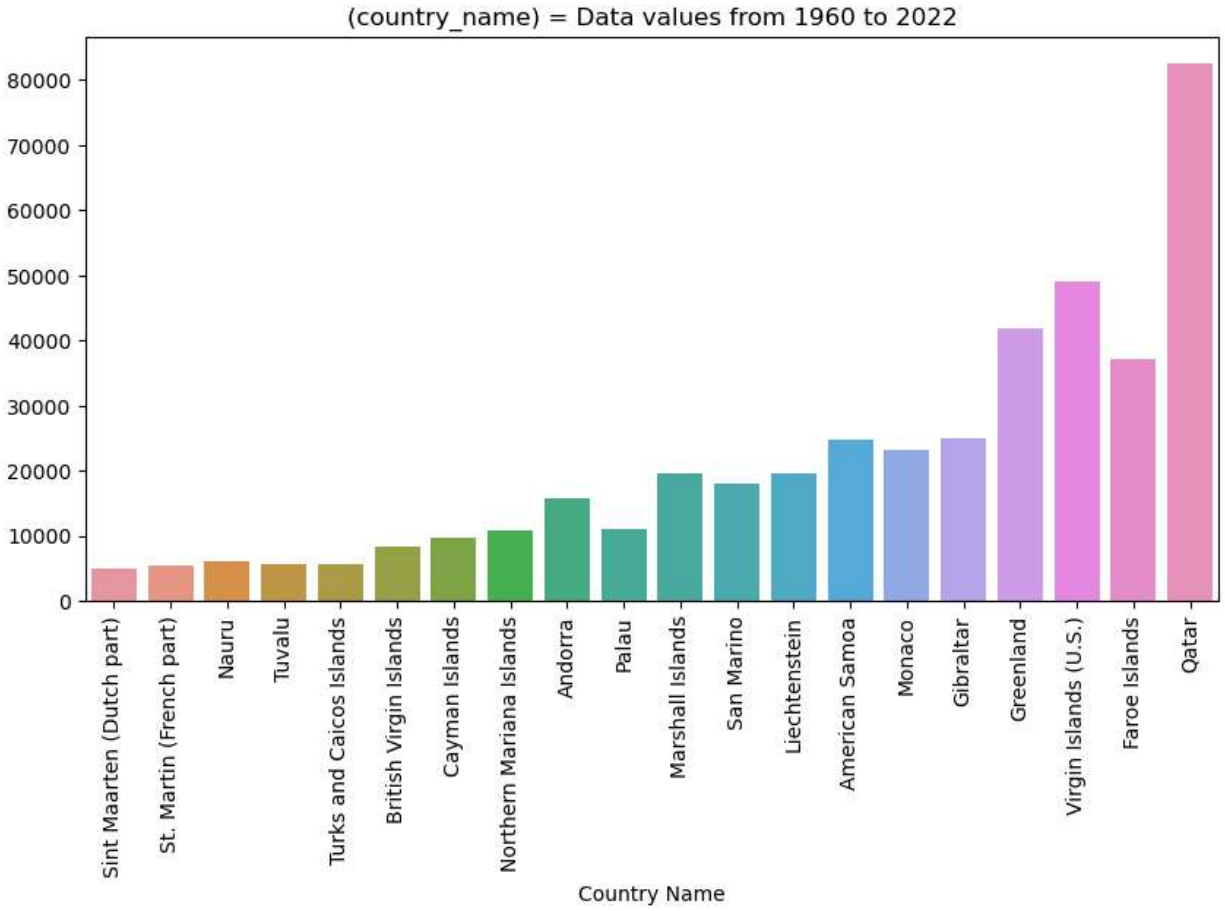
Country Name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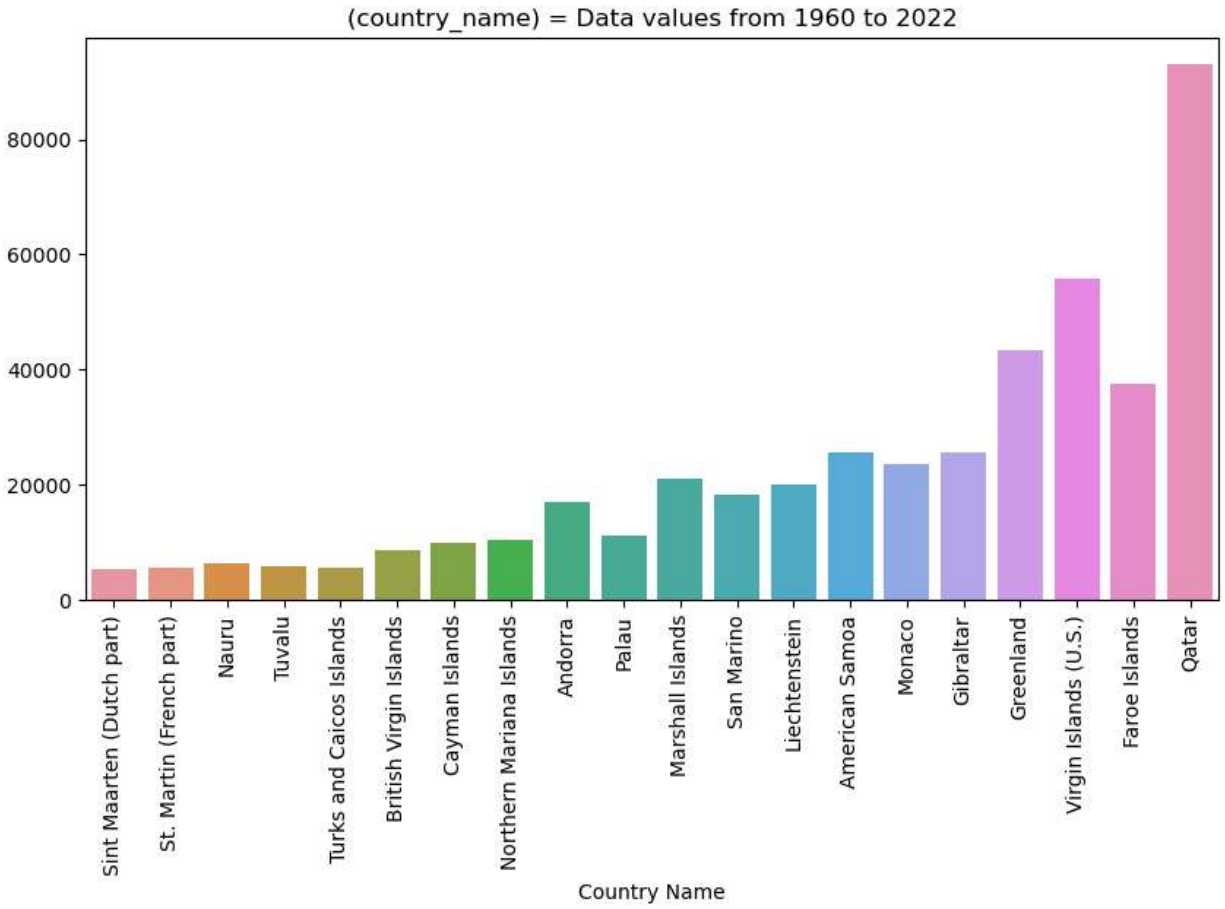
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Nauru
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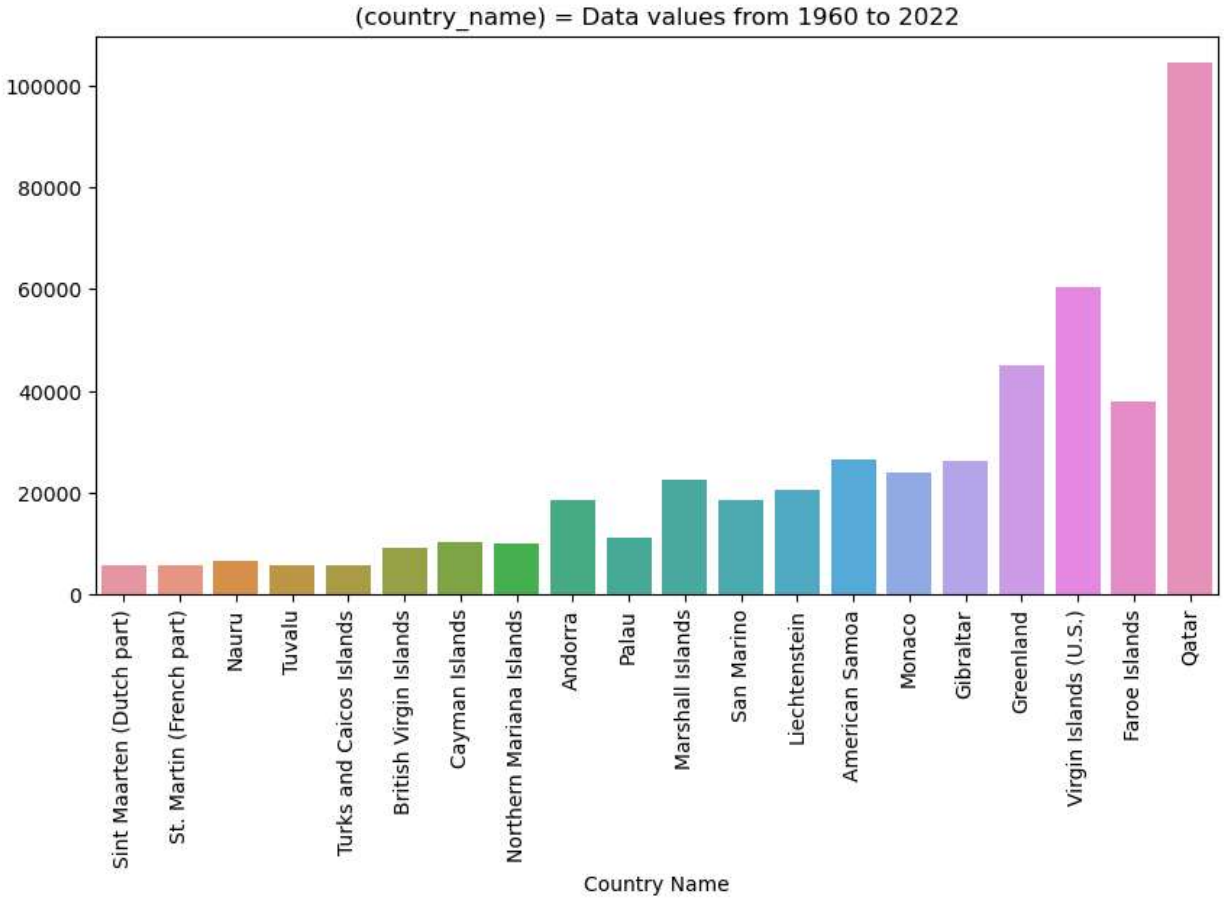
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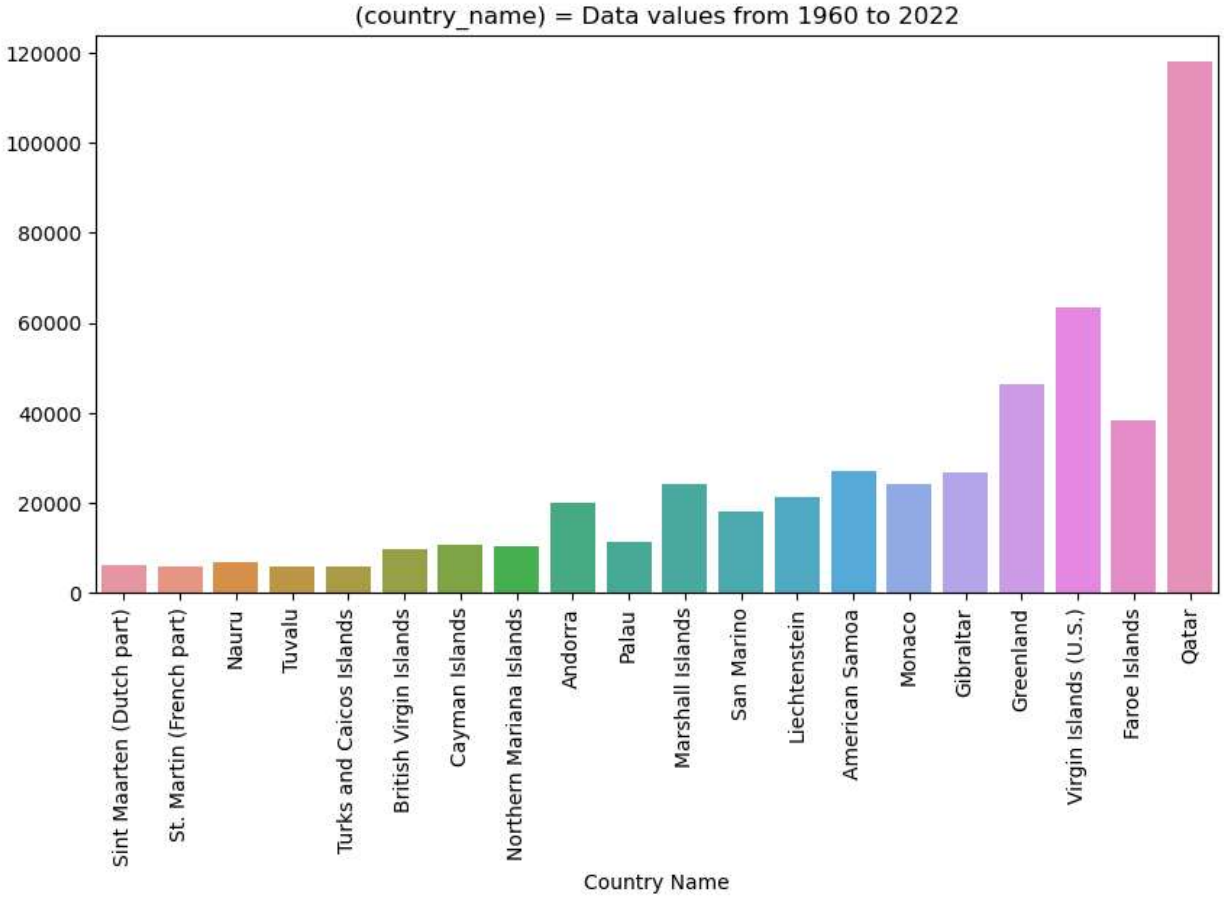
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St. Martin (French part)
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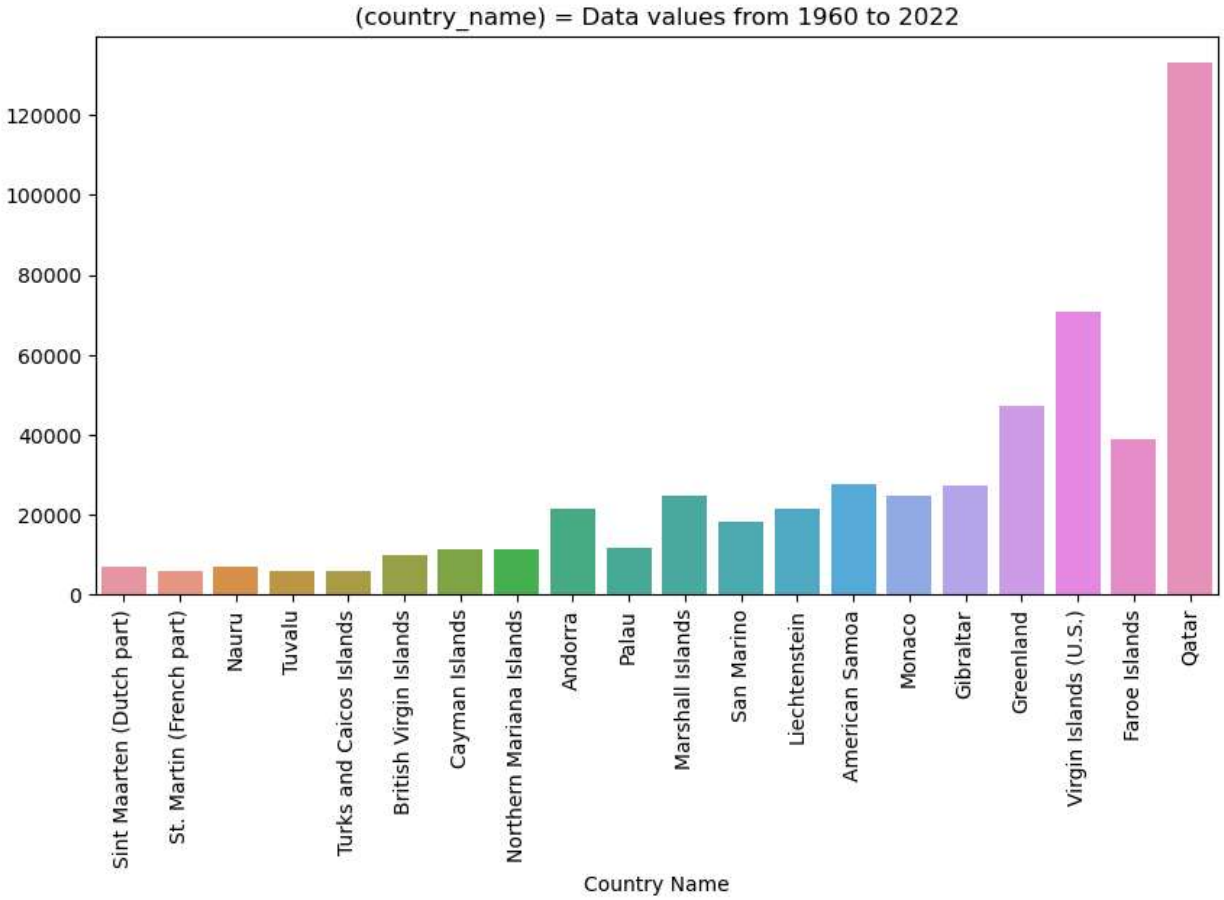
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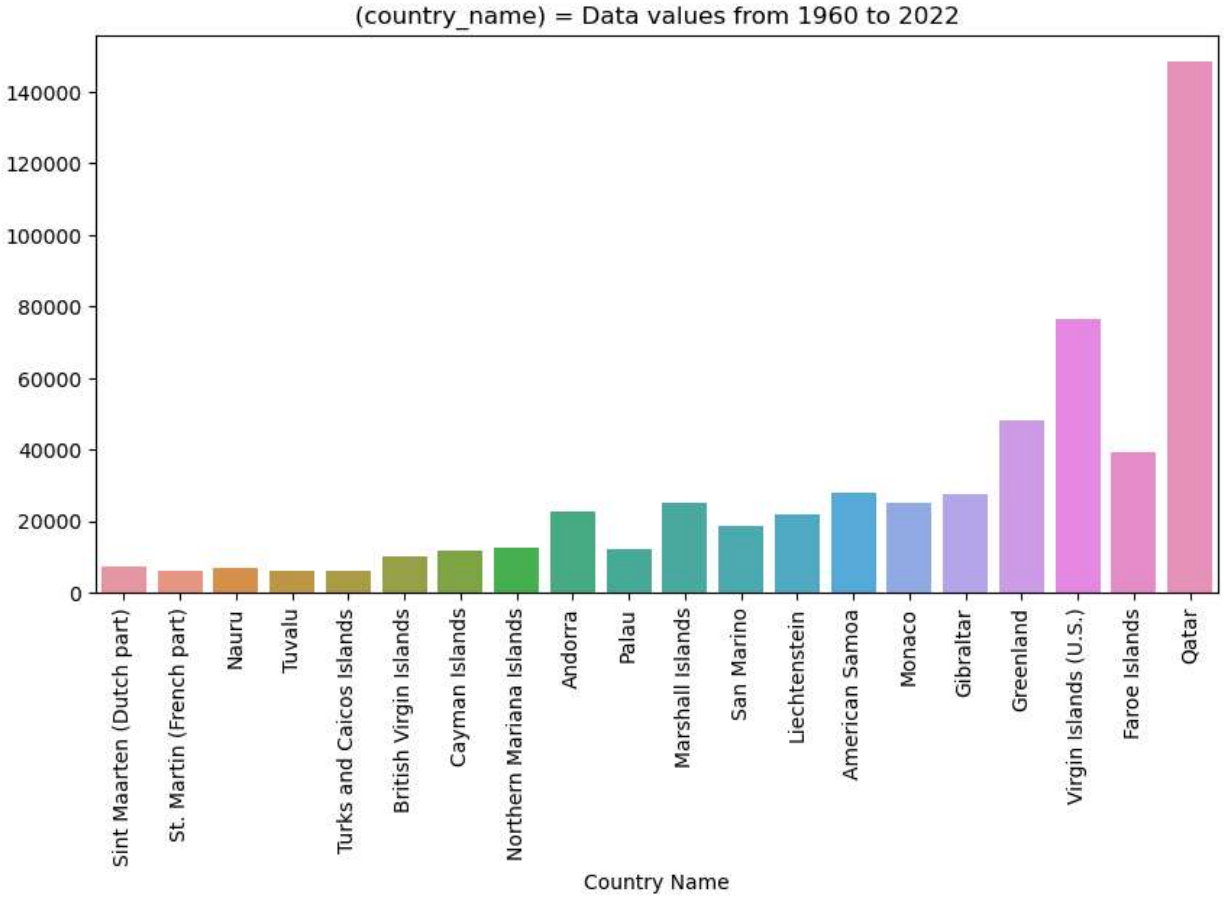
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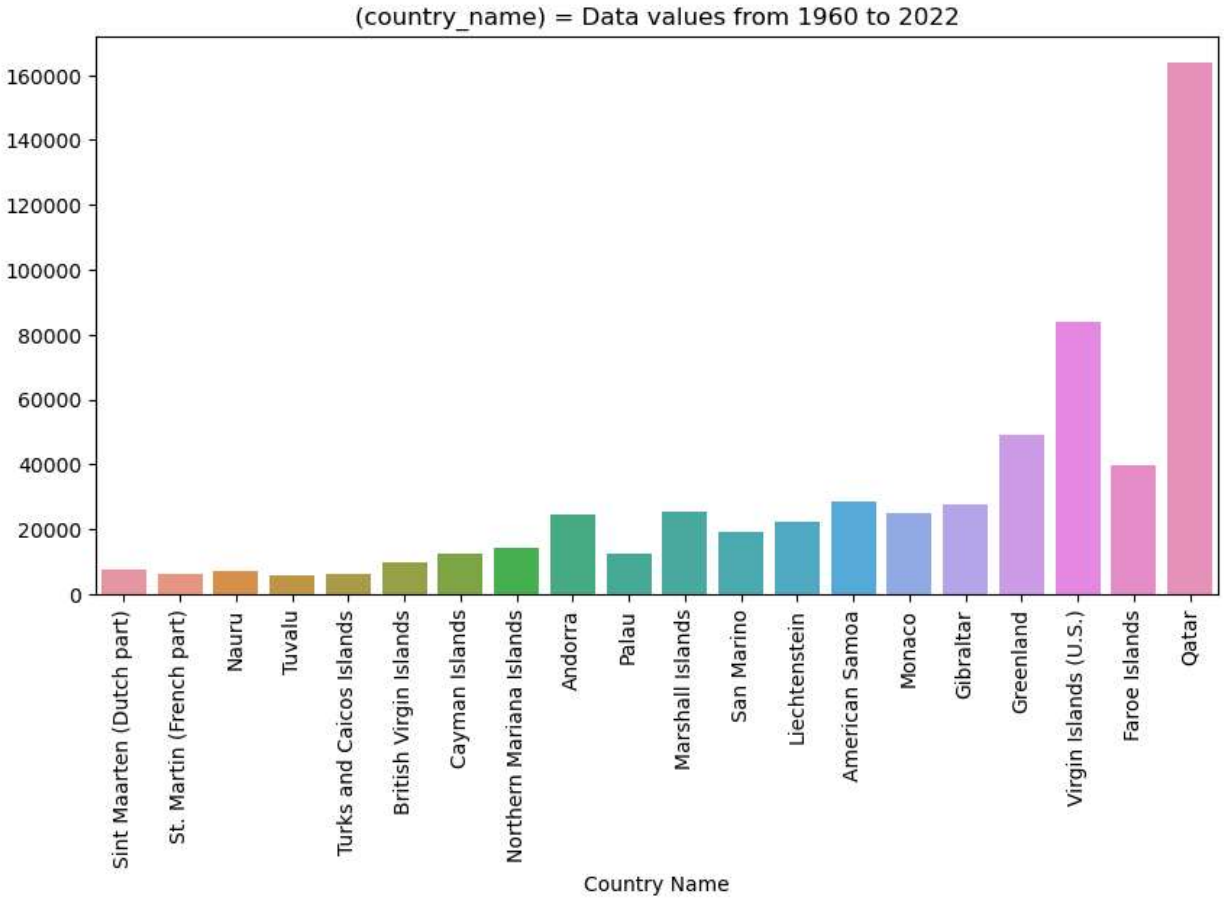
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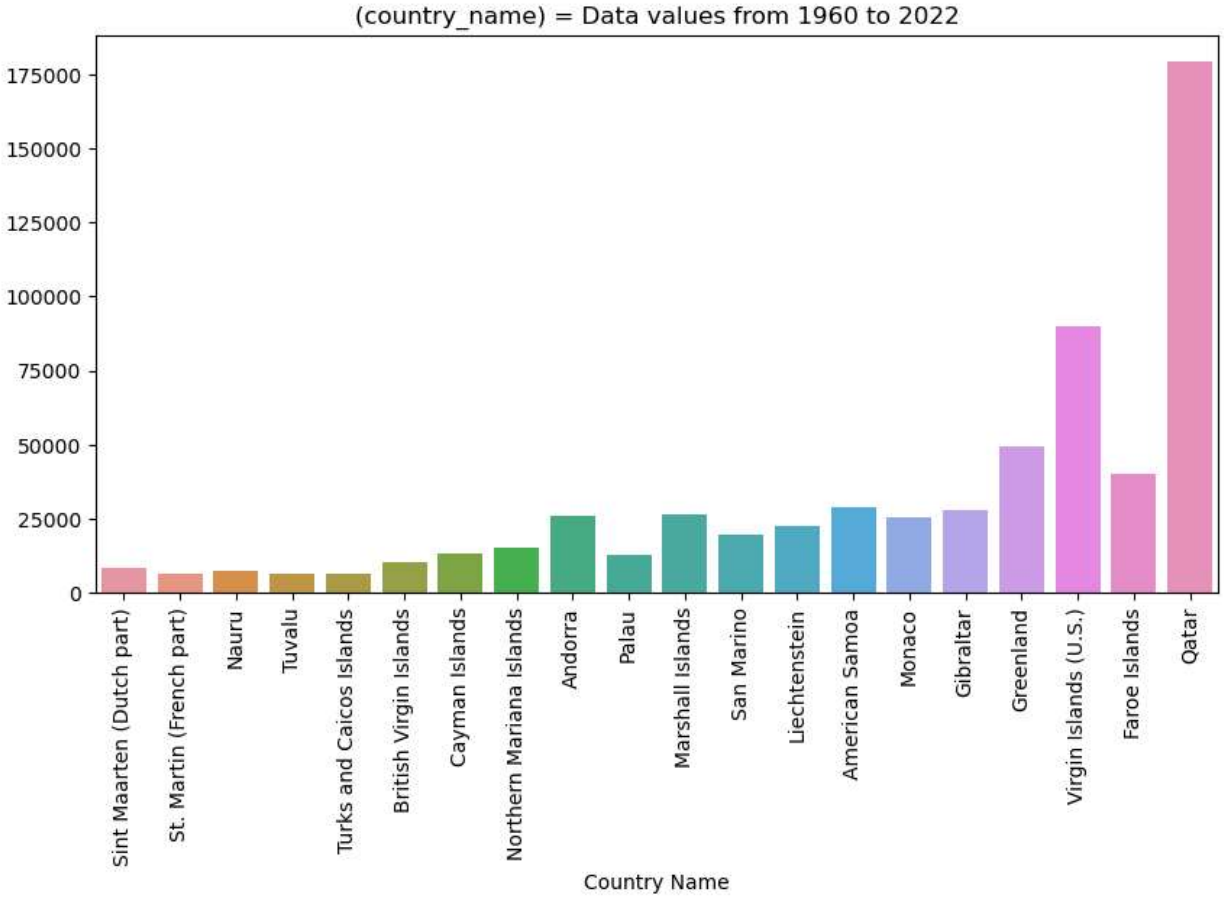
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St. Martin (French part)
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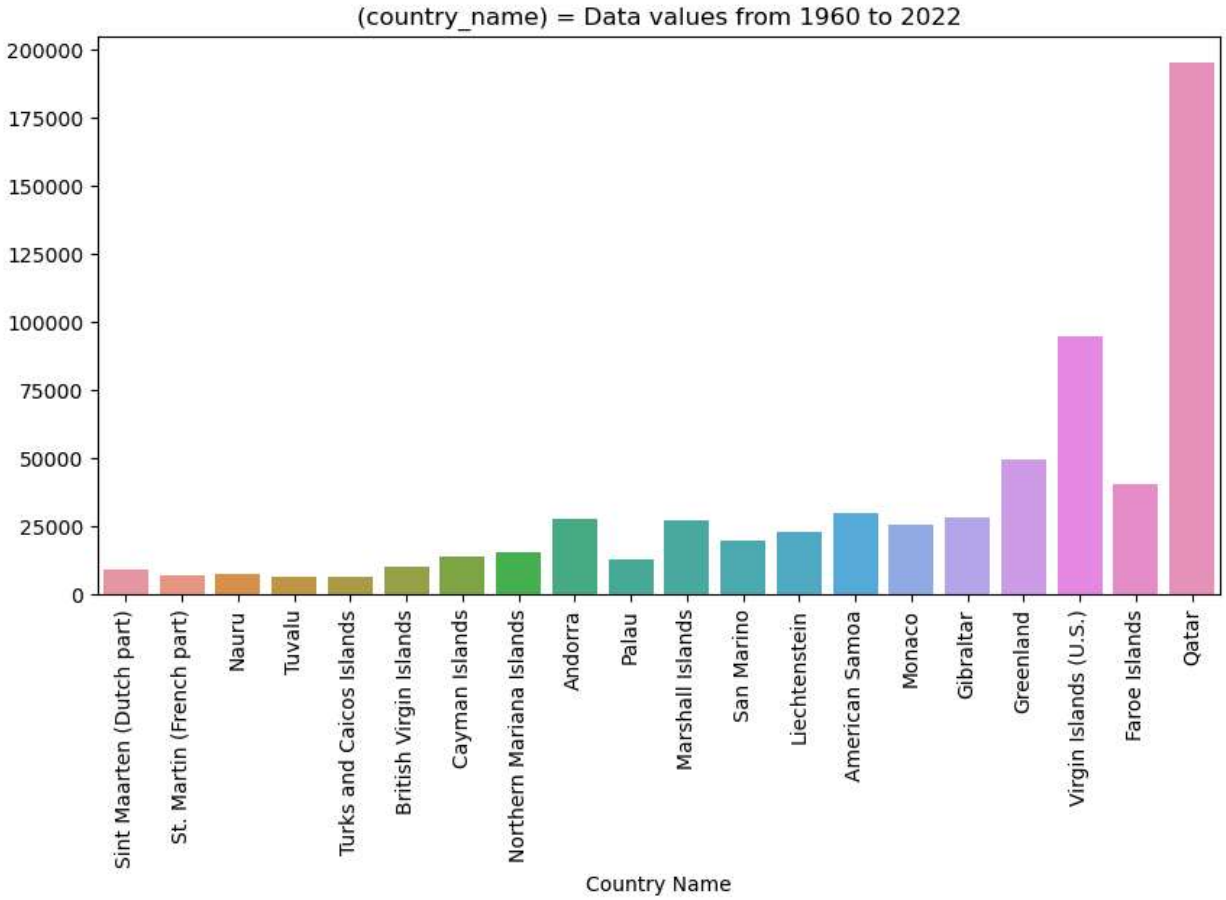
Country Name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St. Martin (French part)
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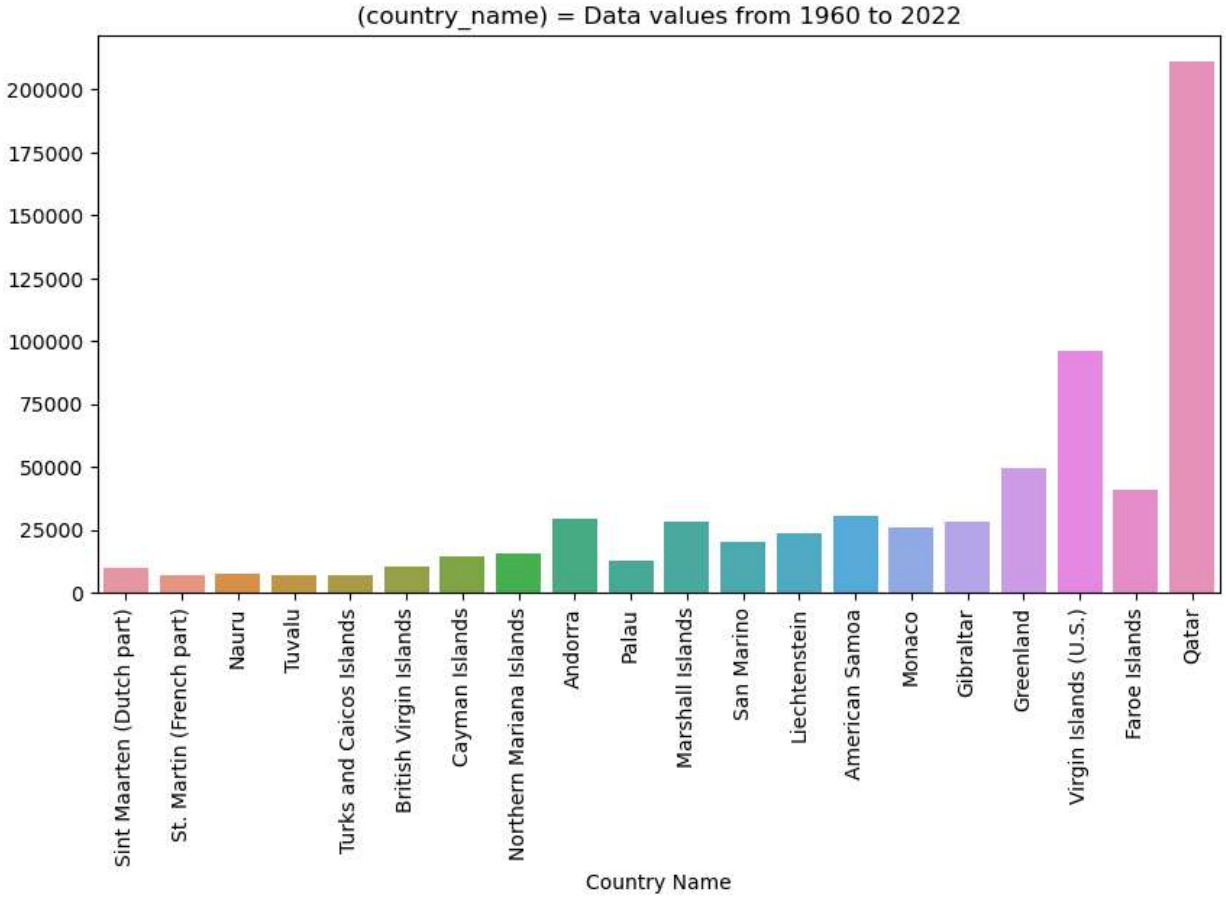
Country Name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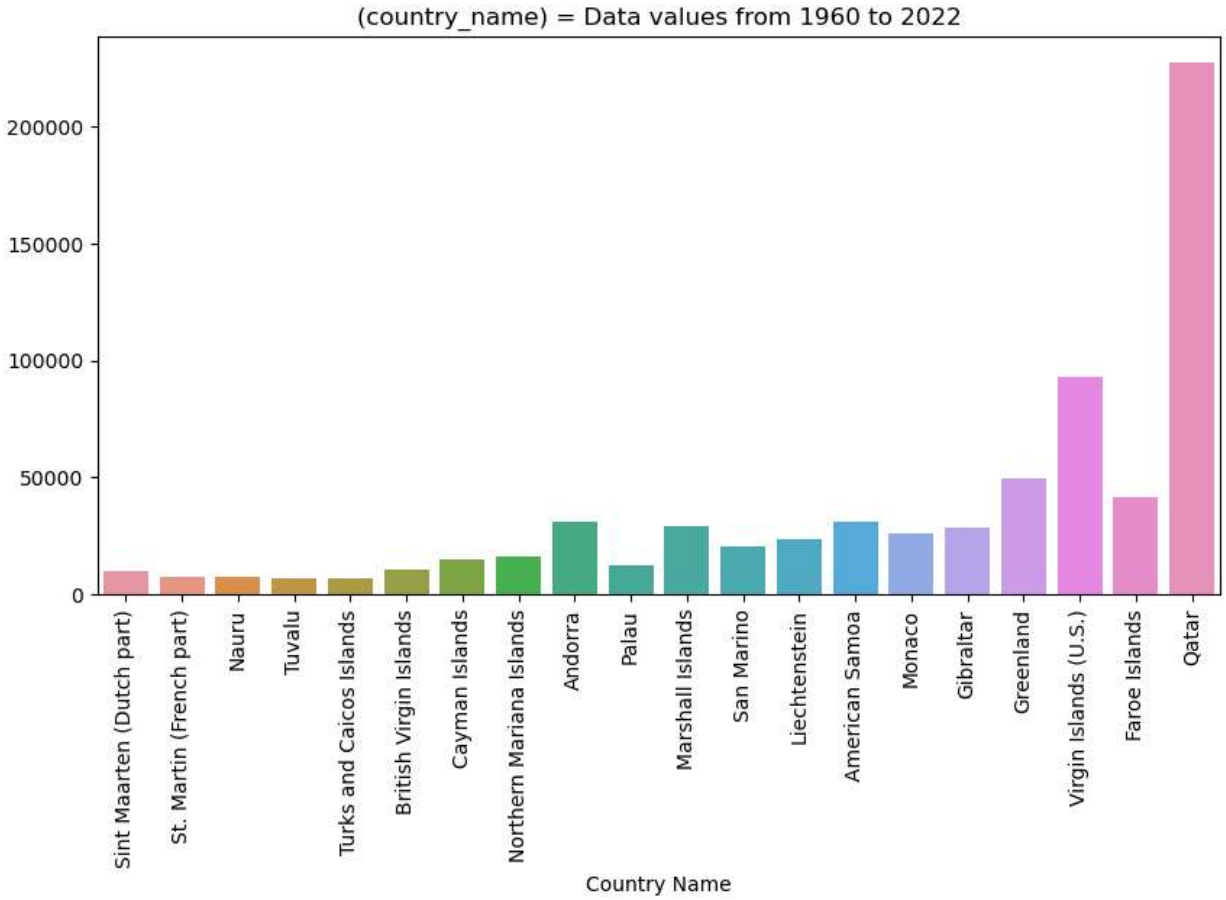
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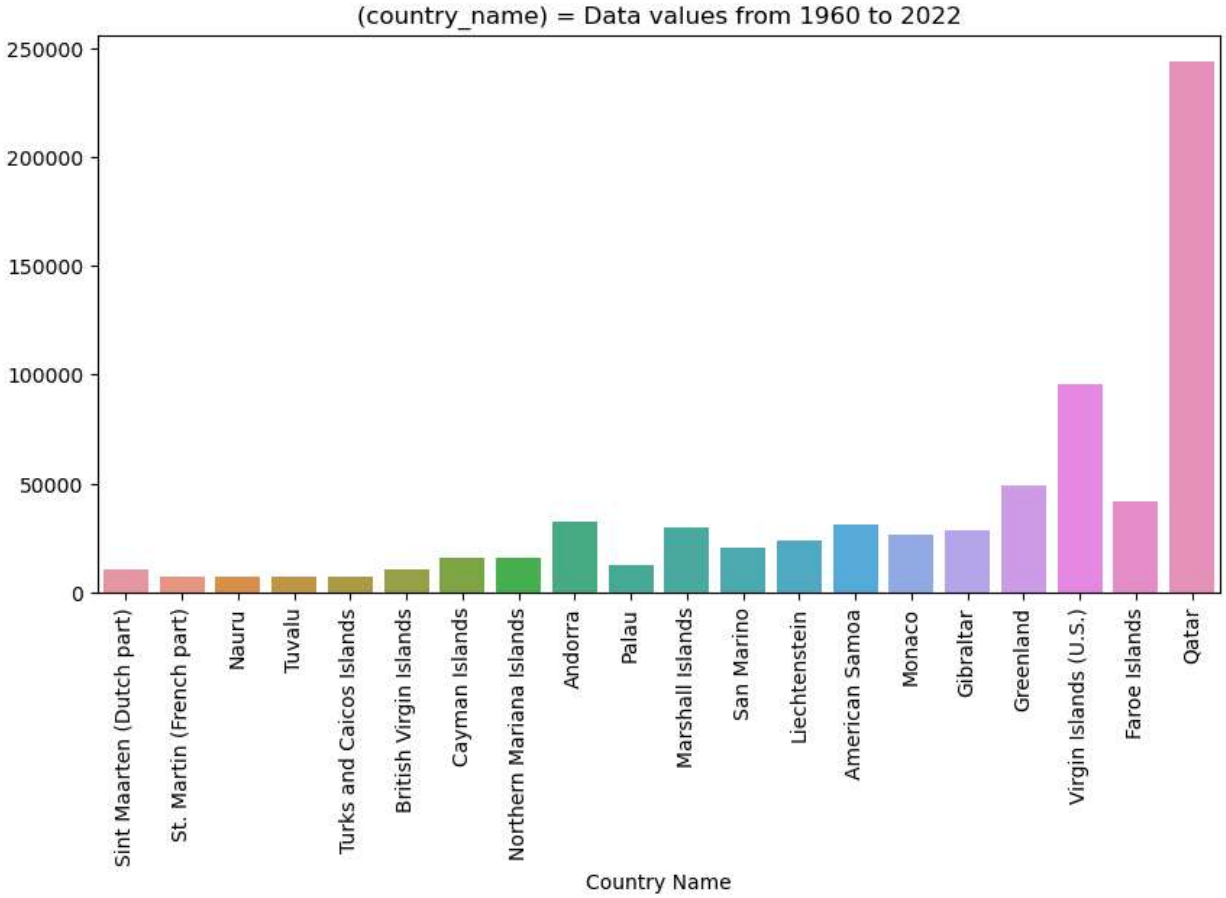
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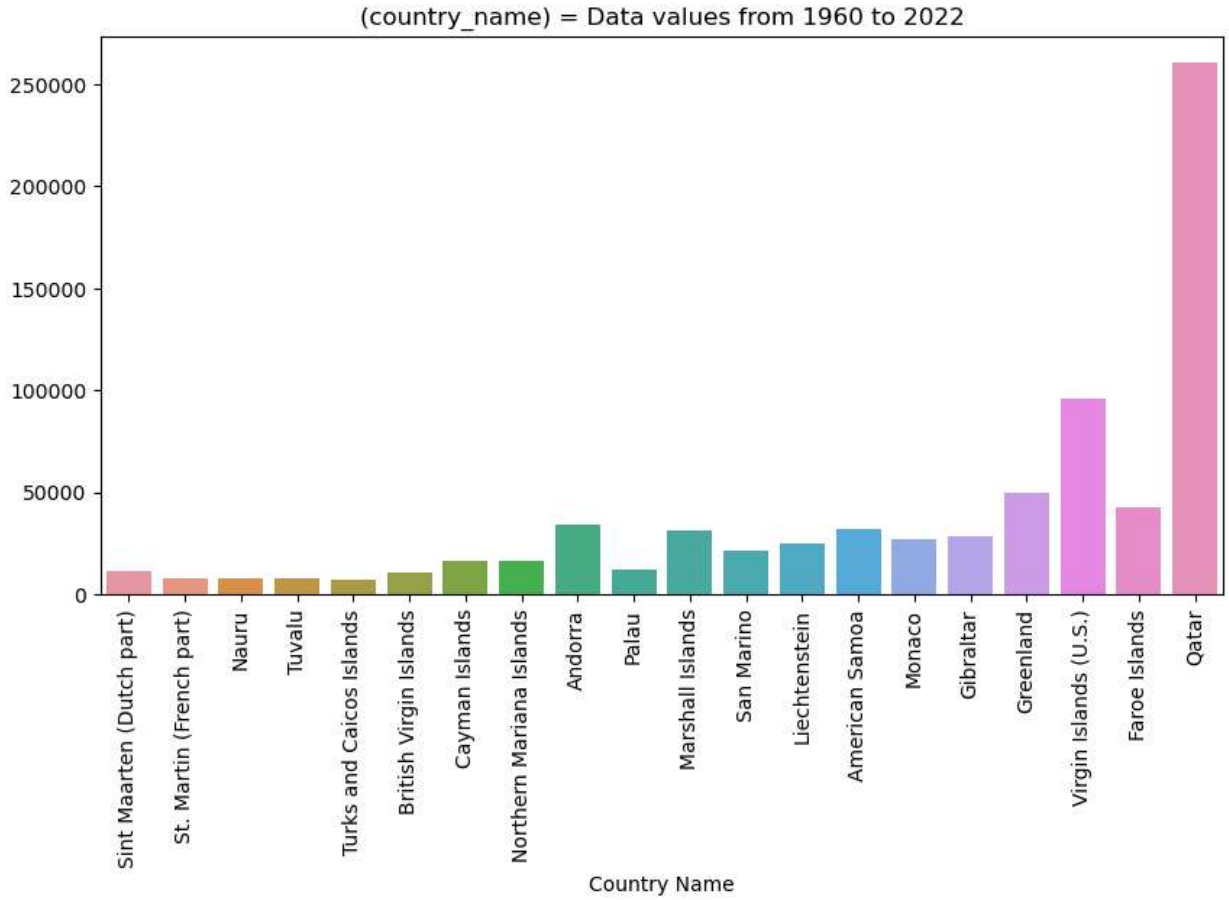
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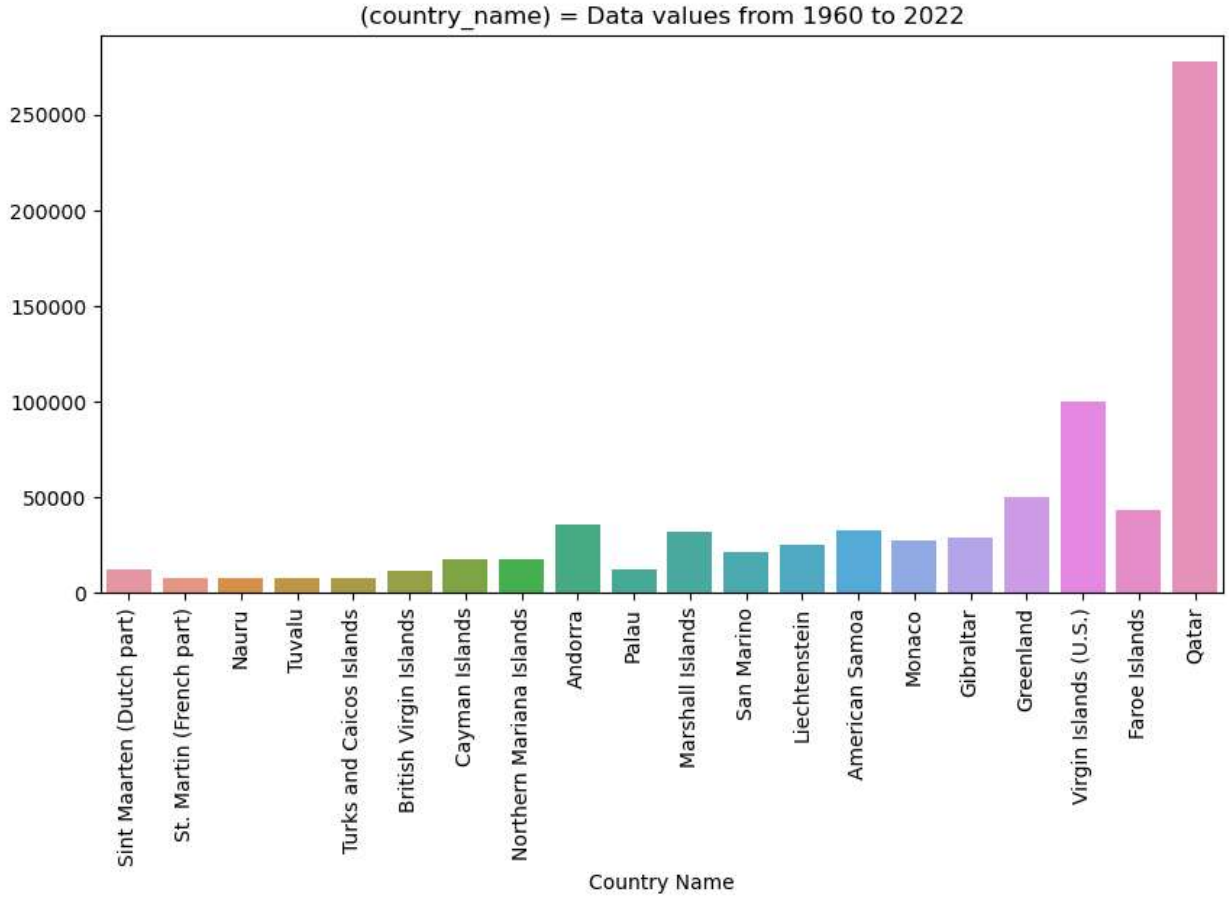
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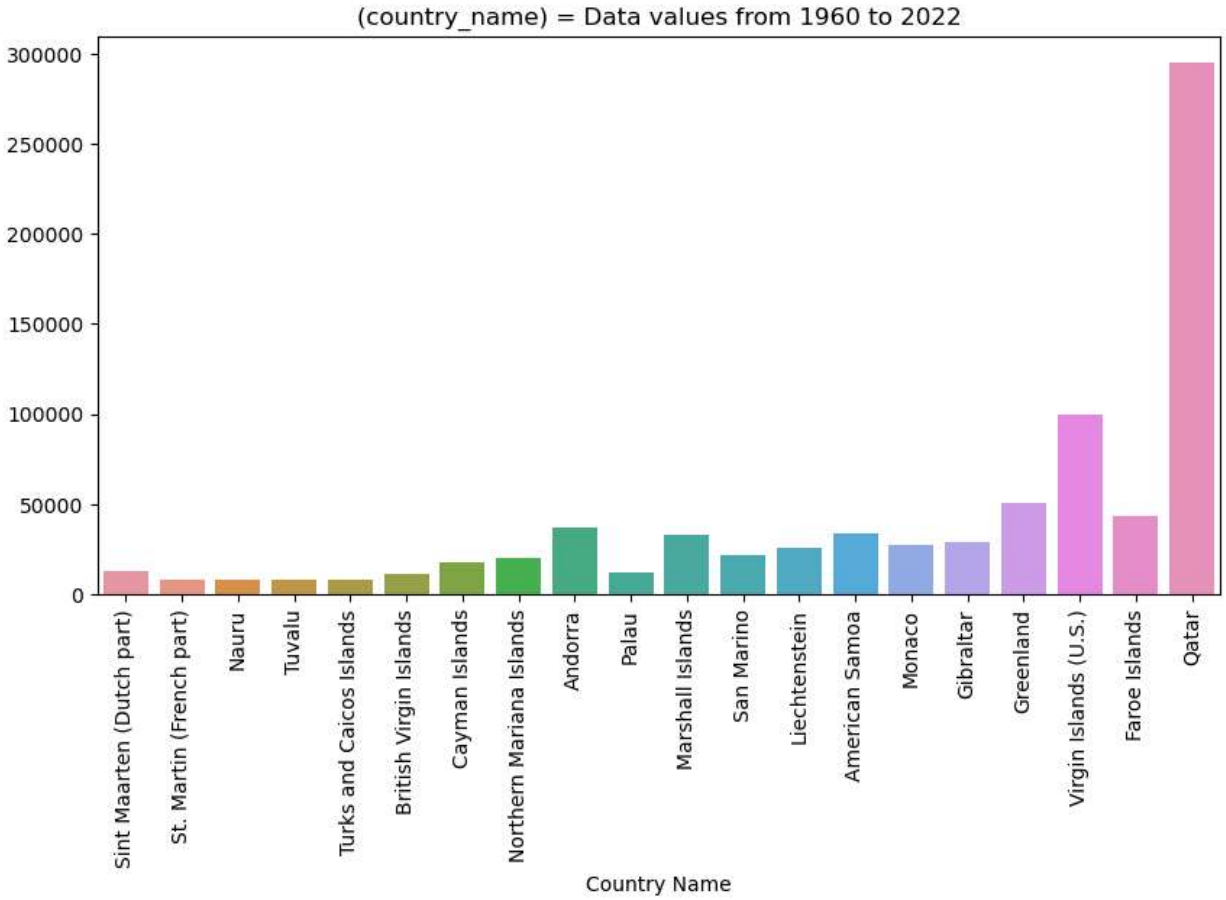
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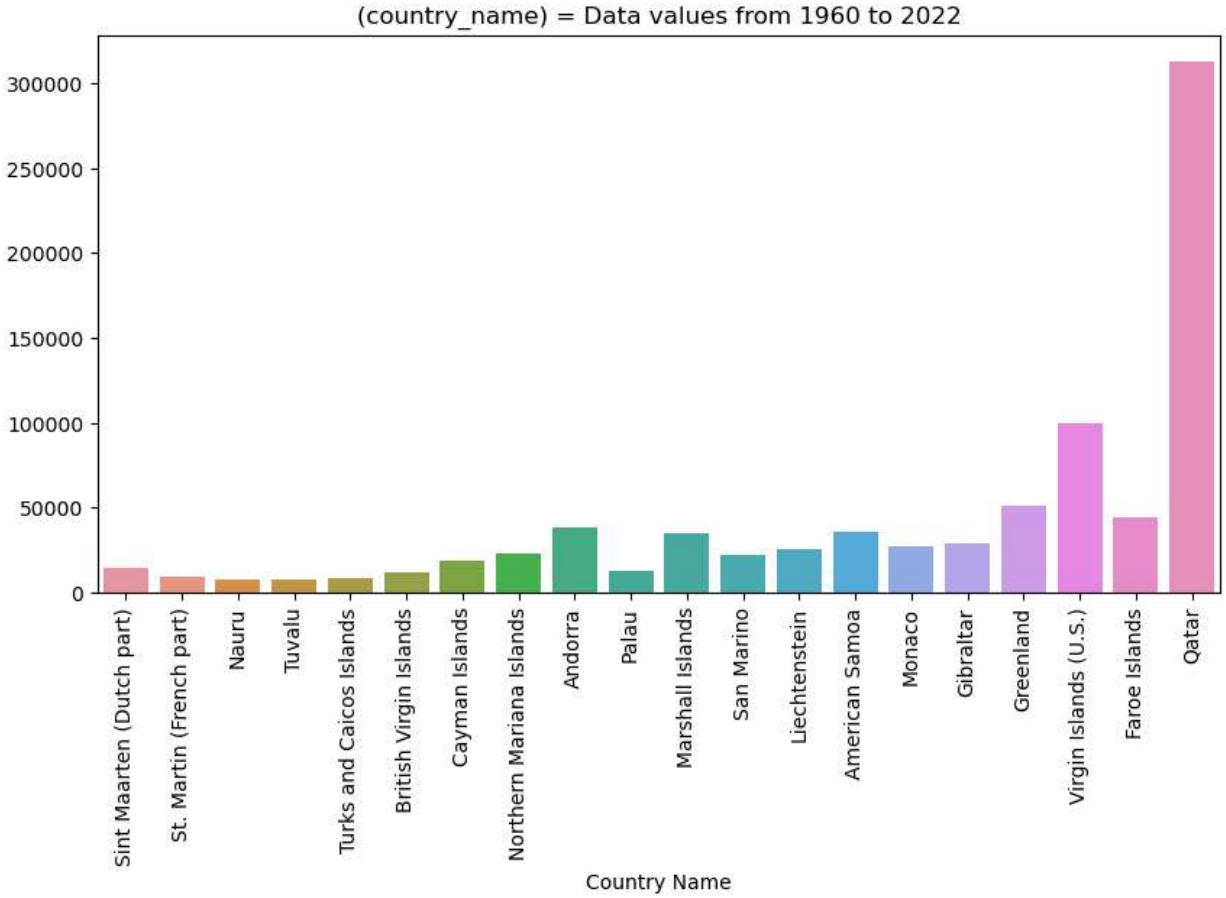
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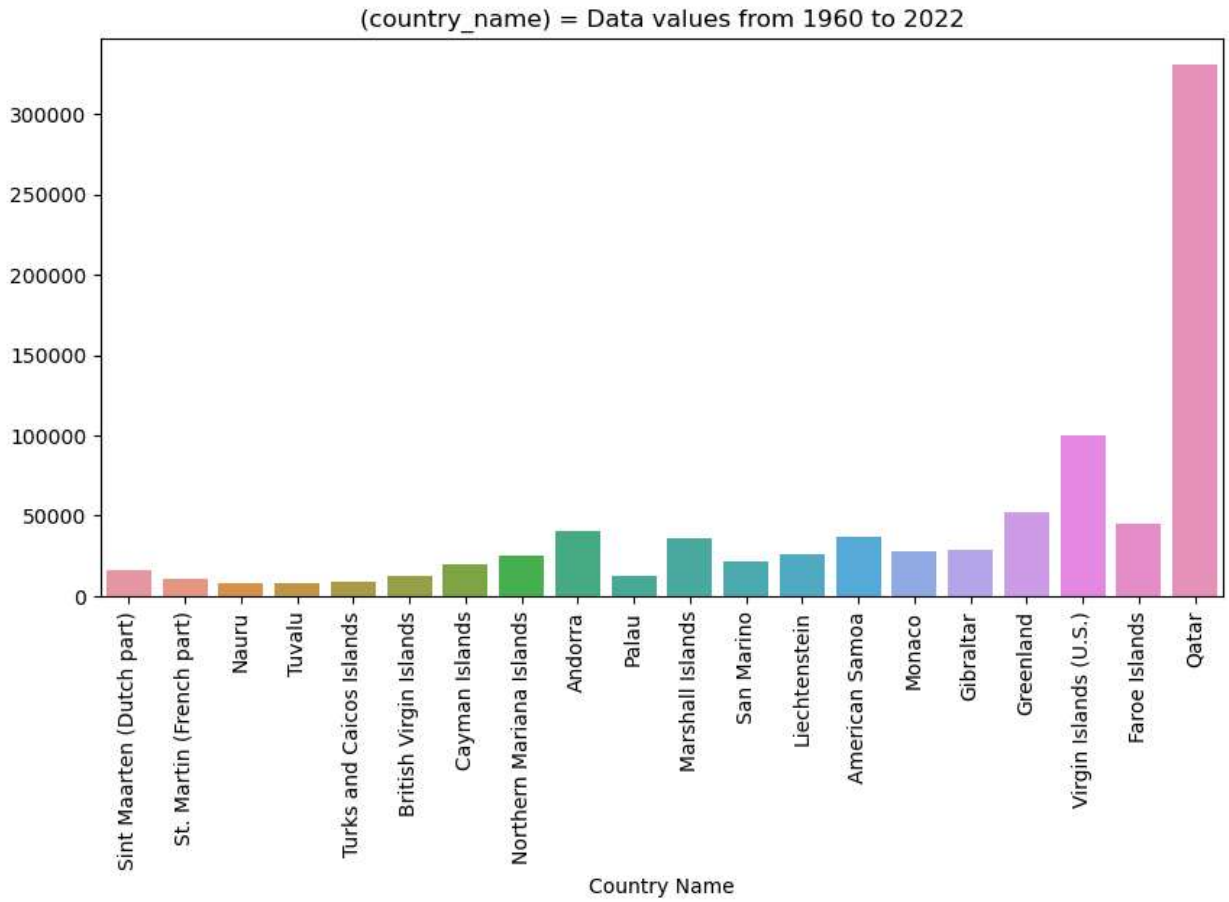
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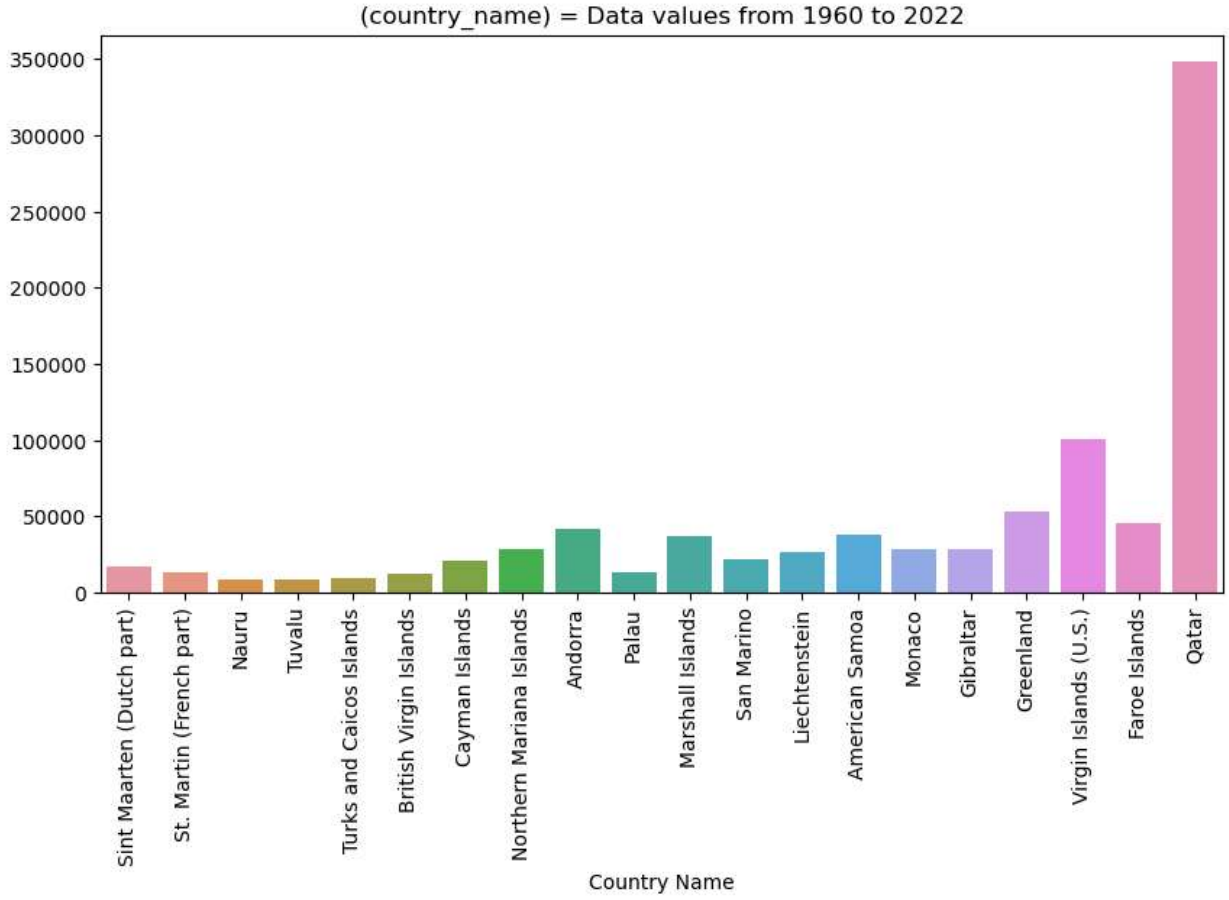
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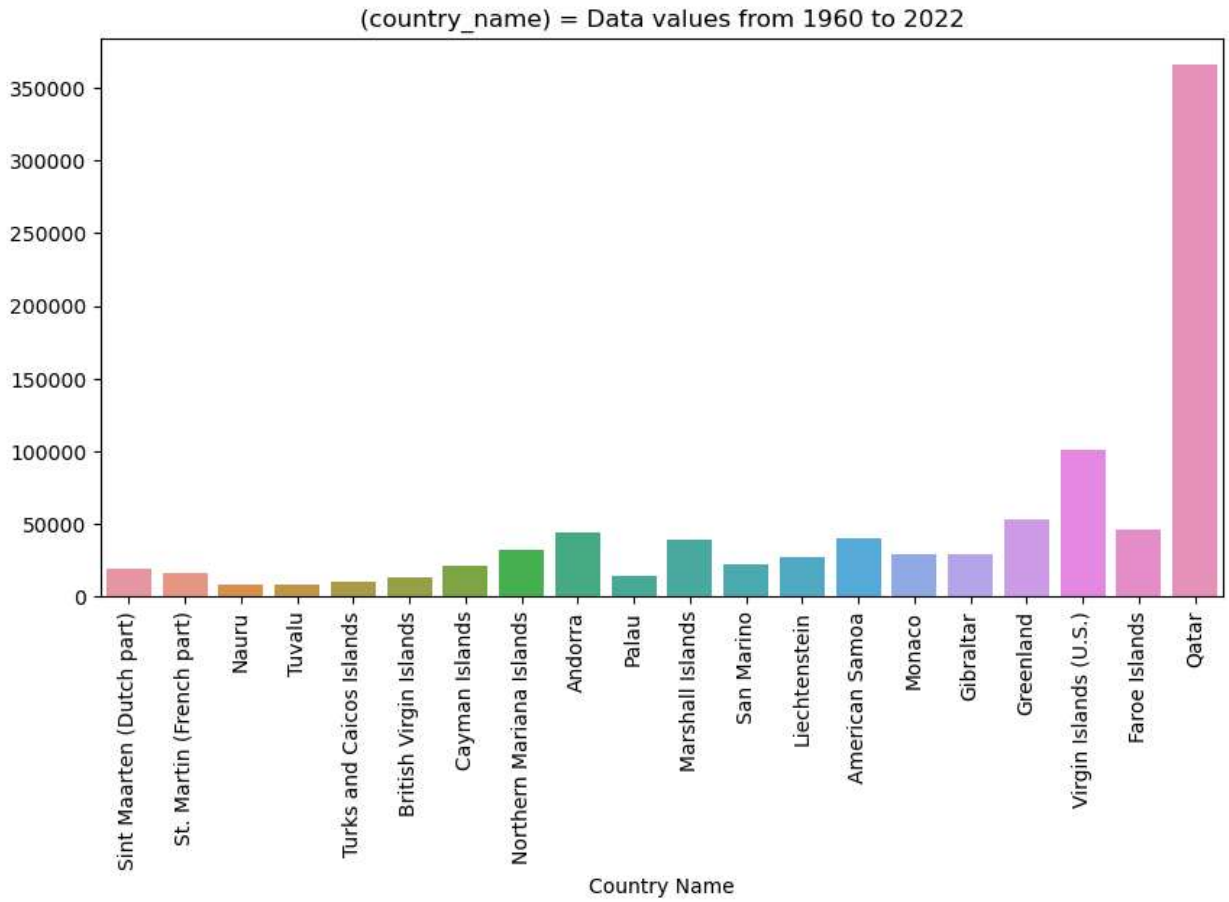
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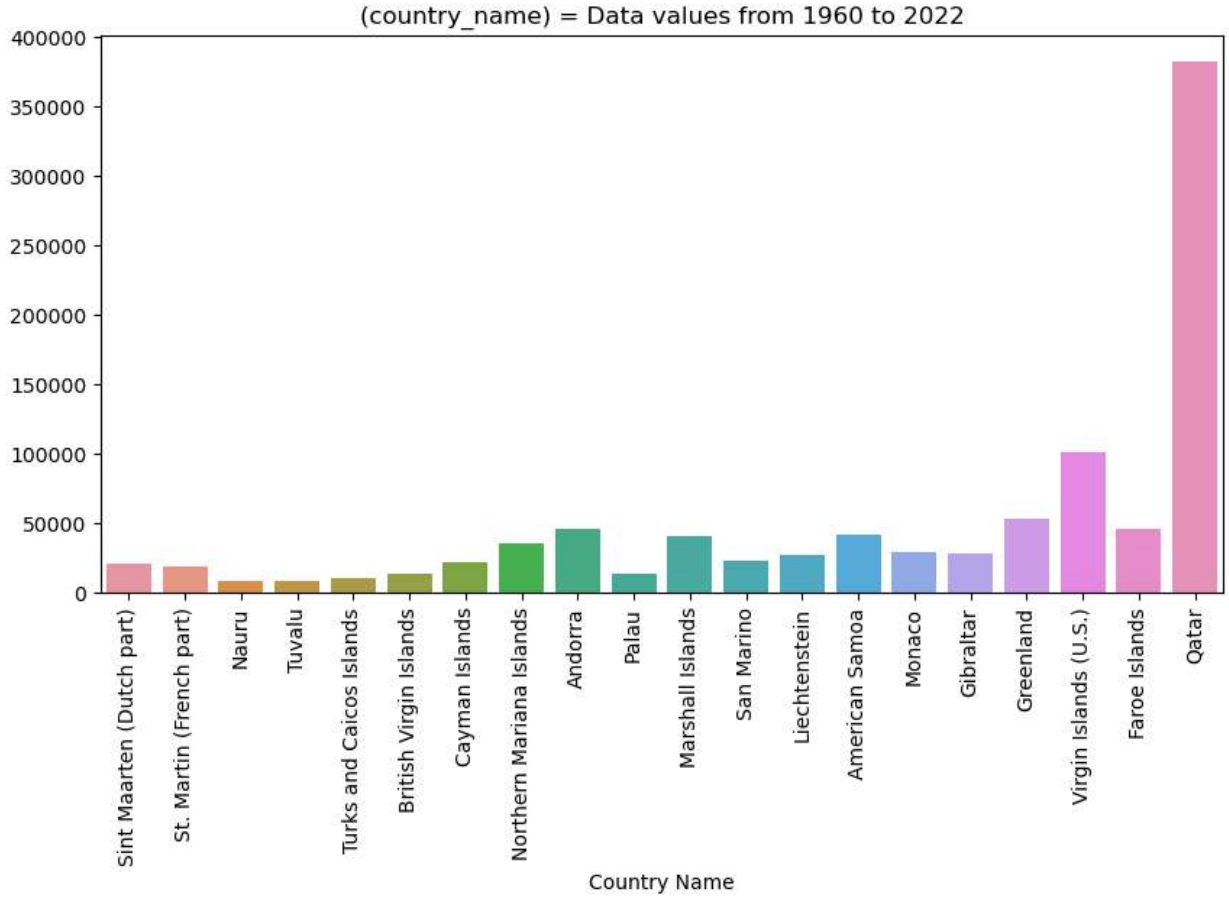
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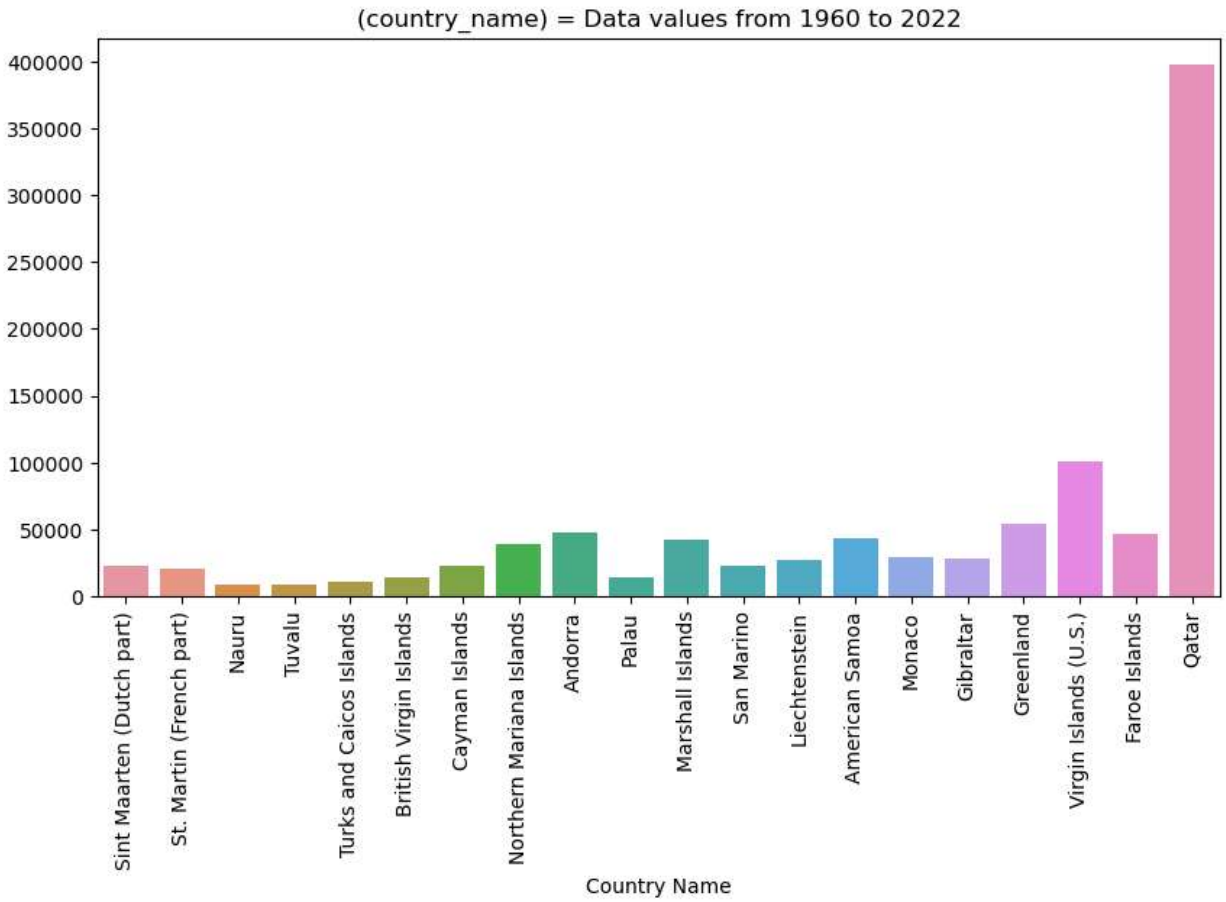
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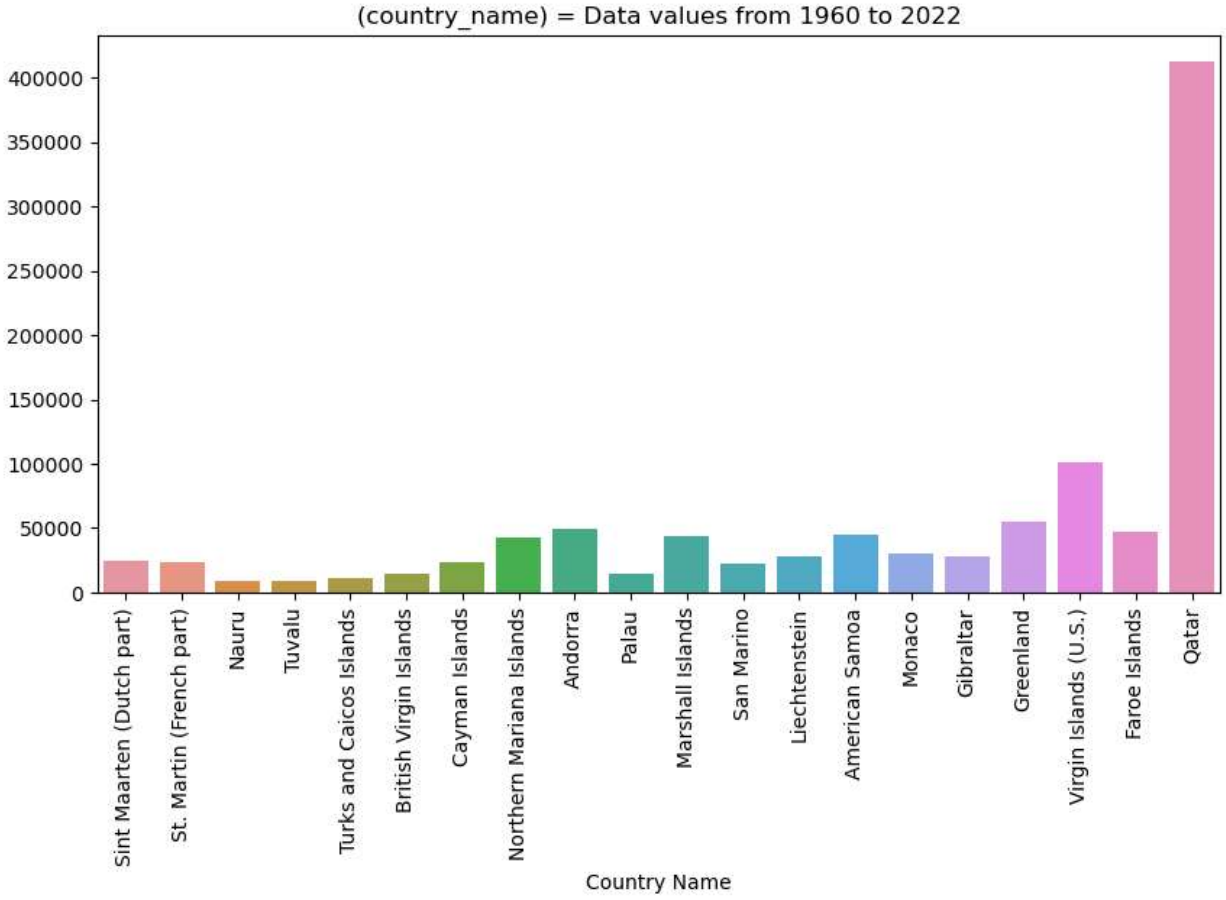
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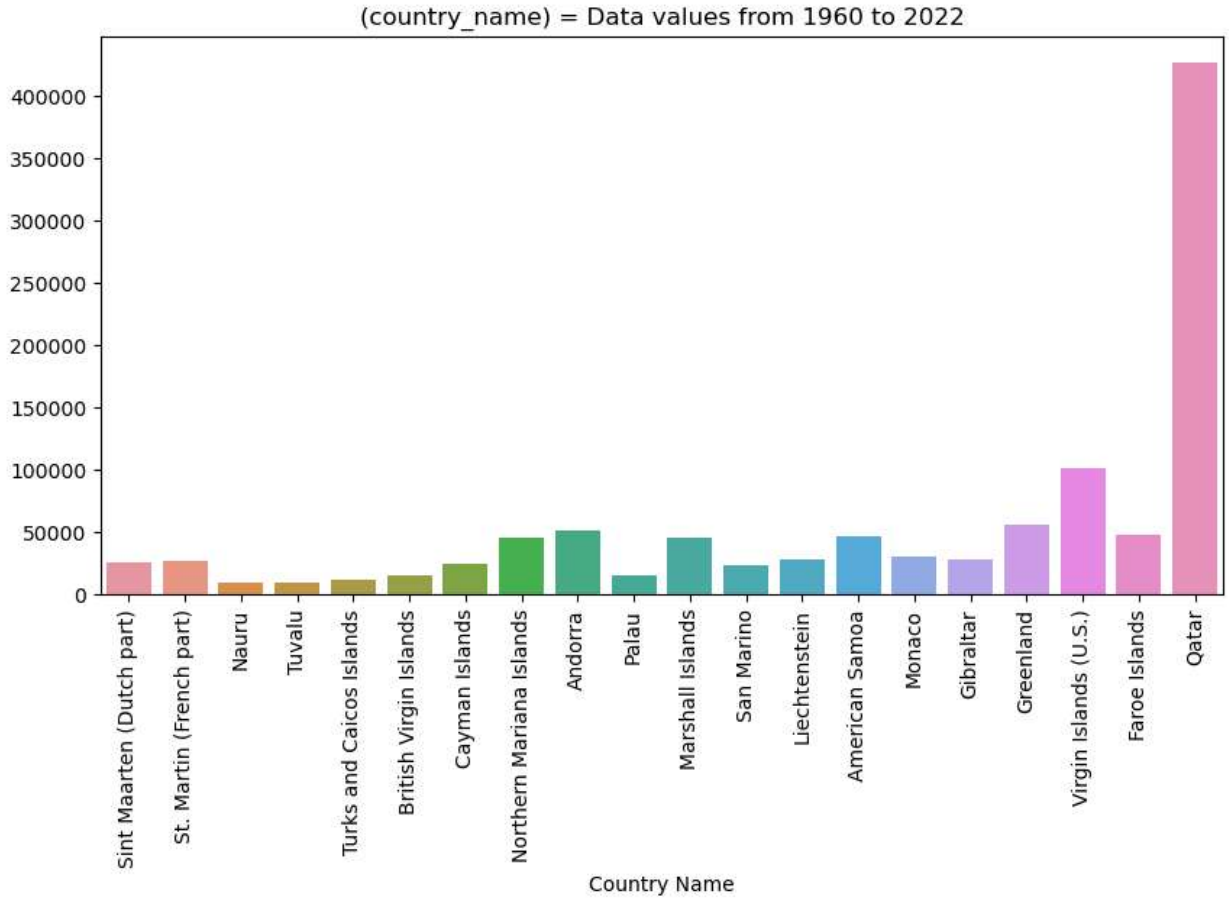
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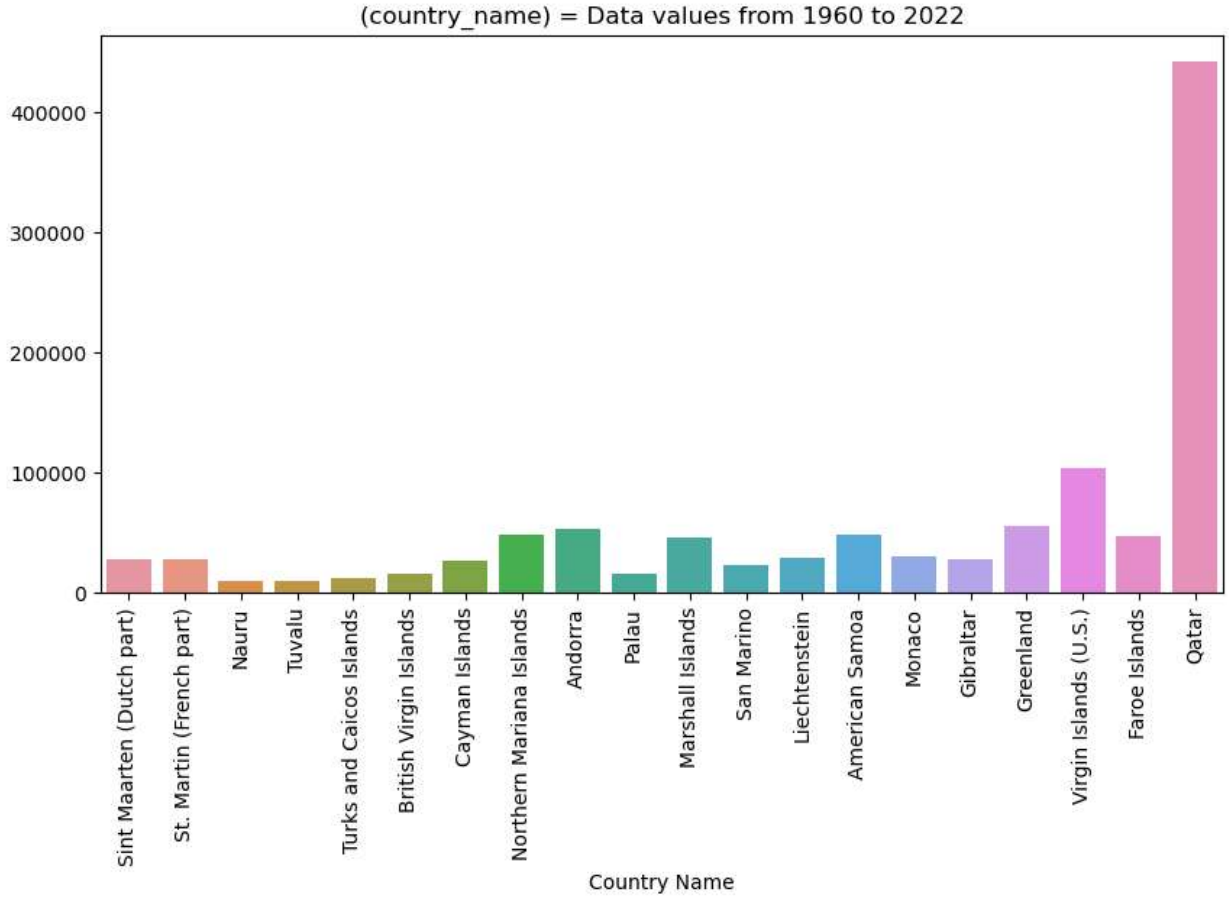
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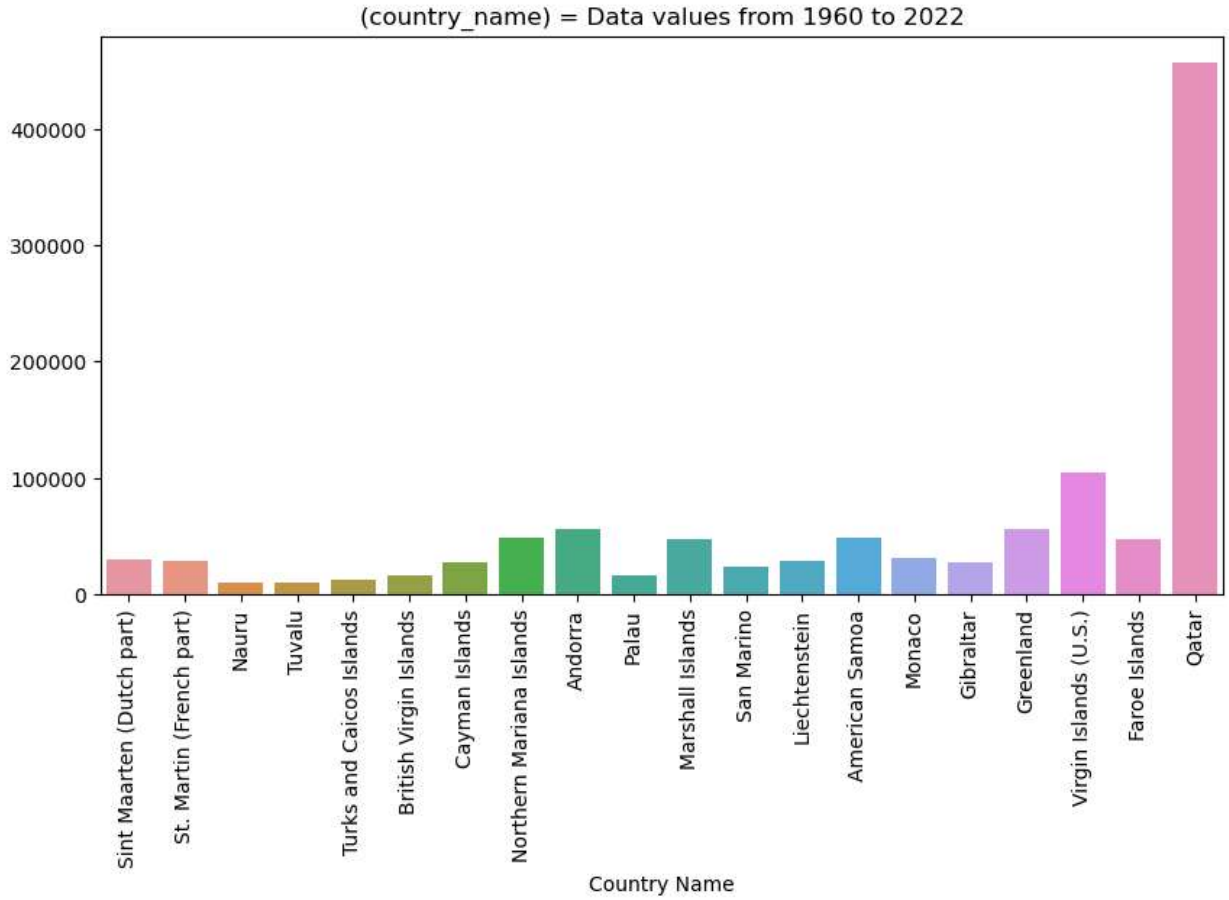
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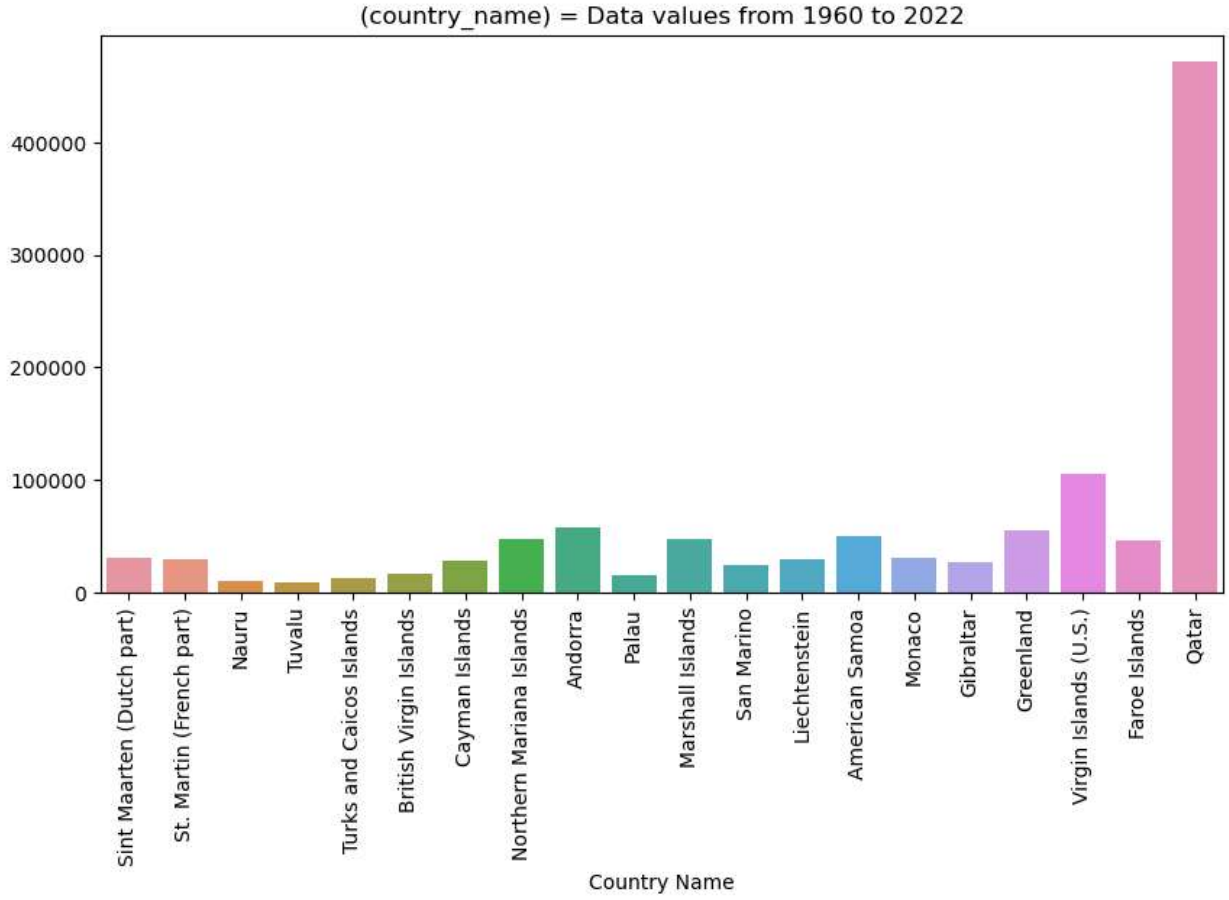
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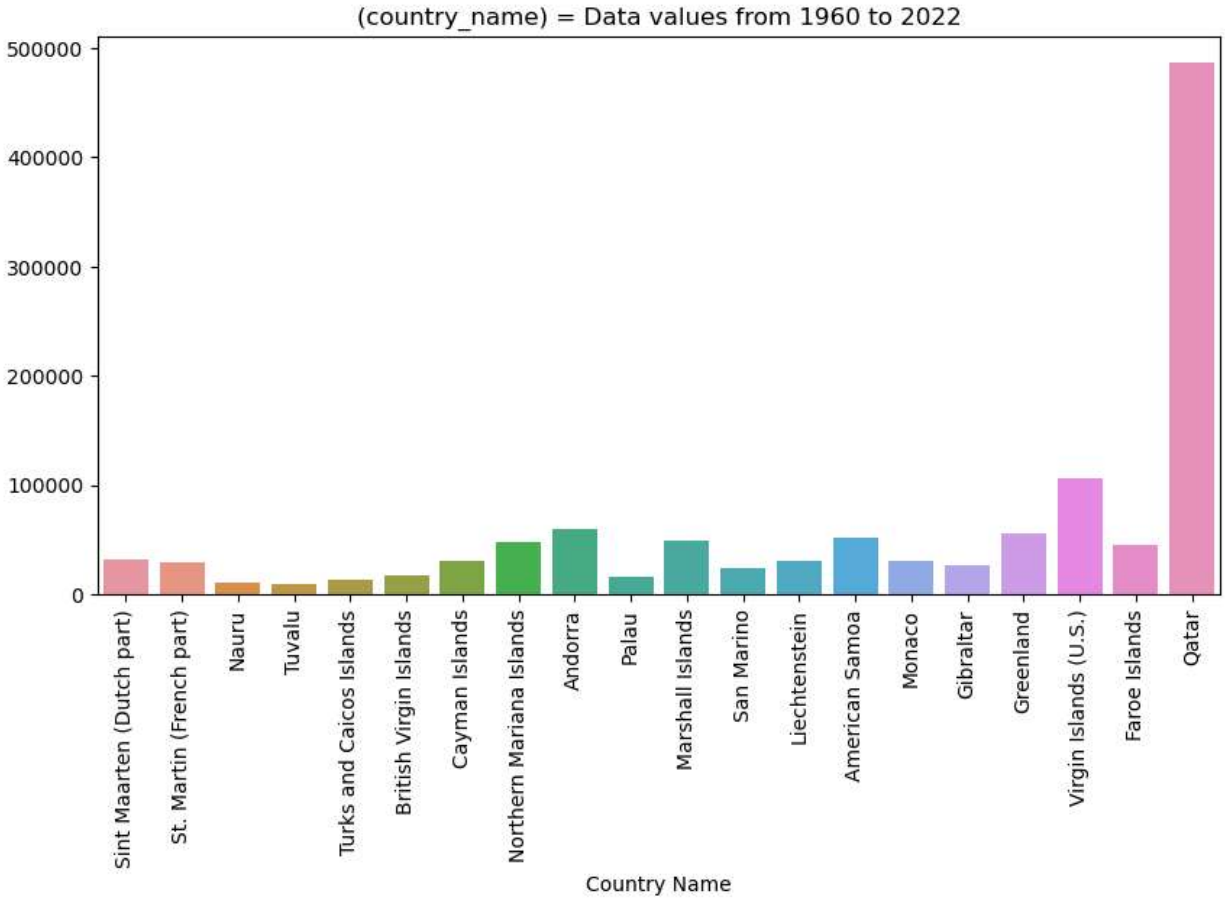
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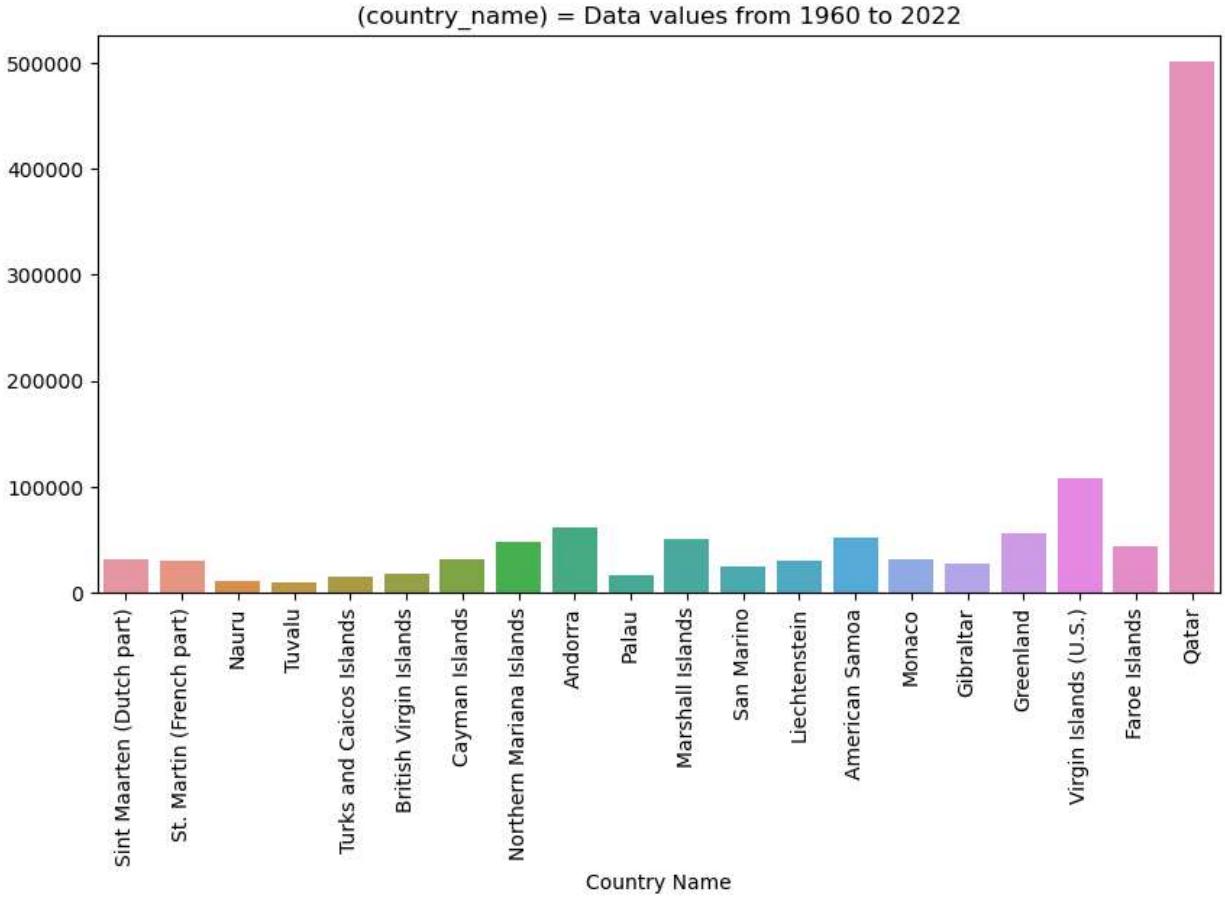
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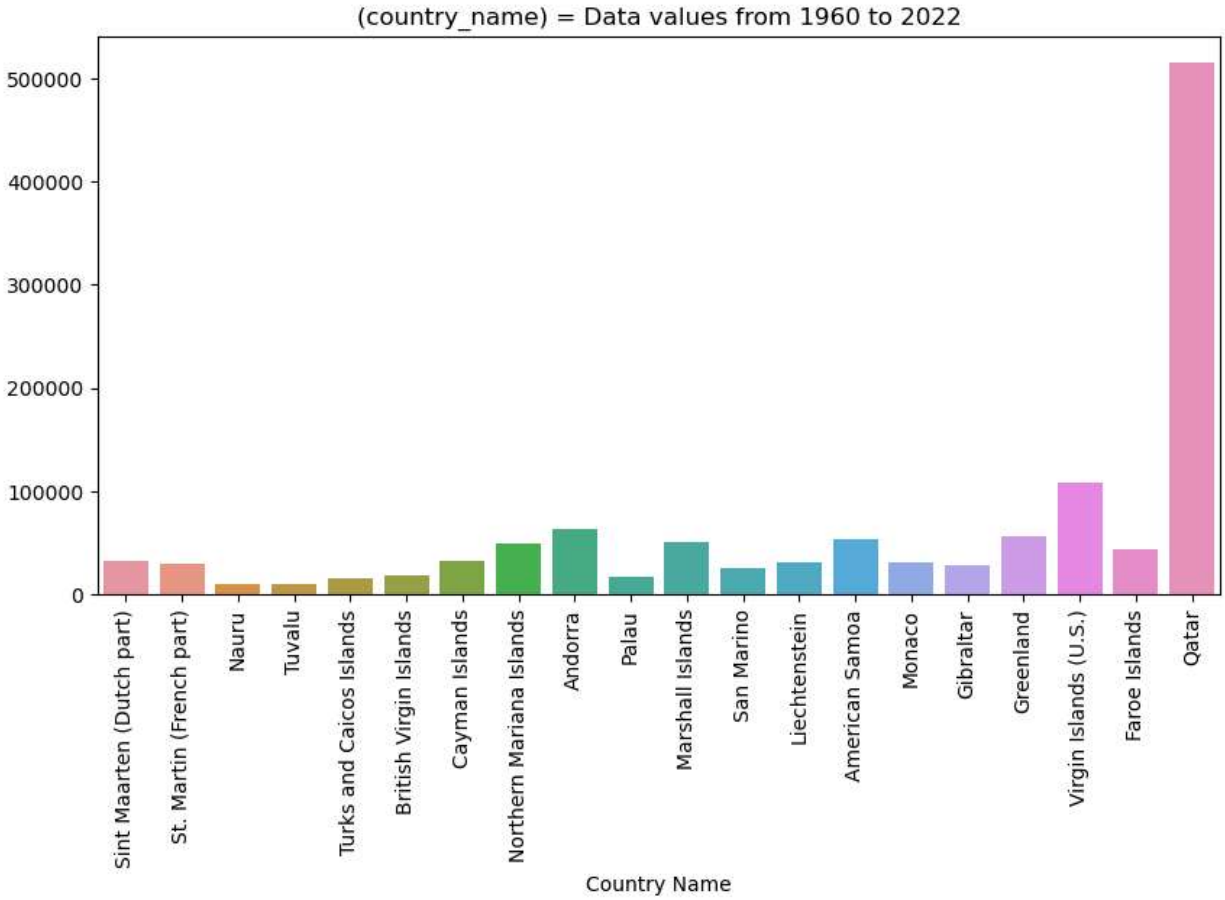
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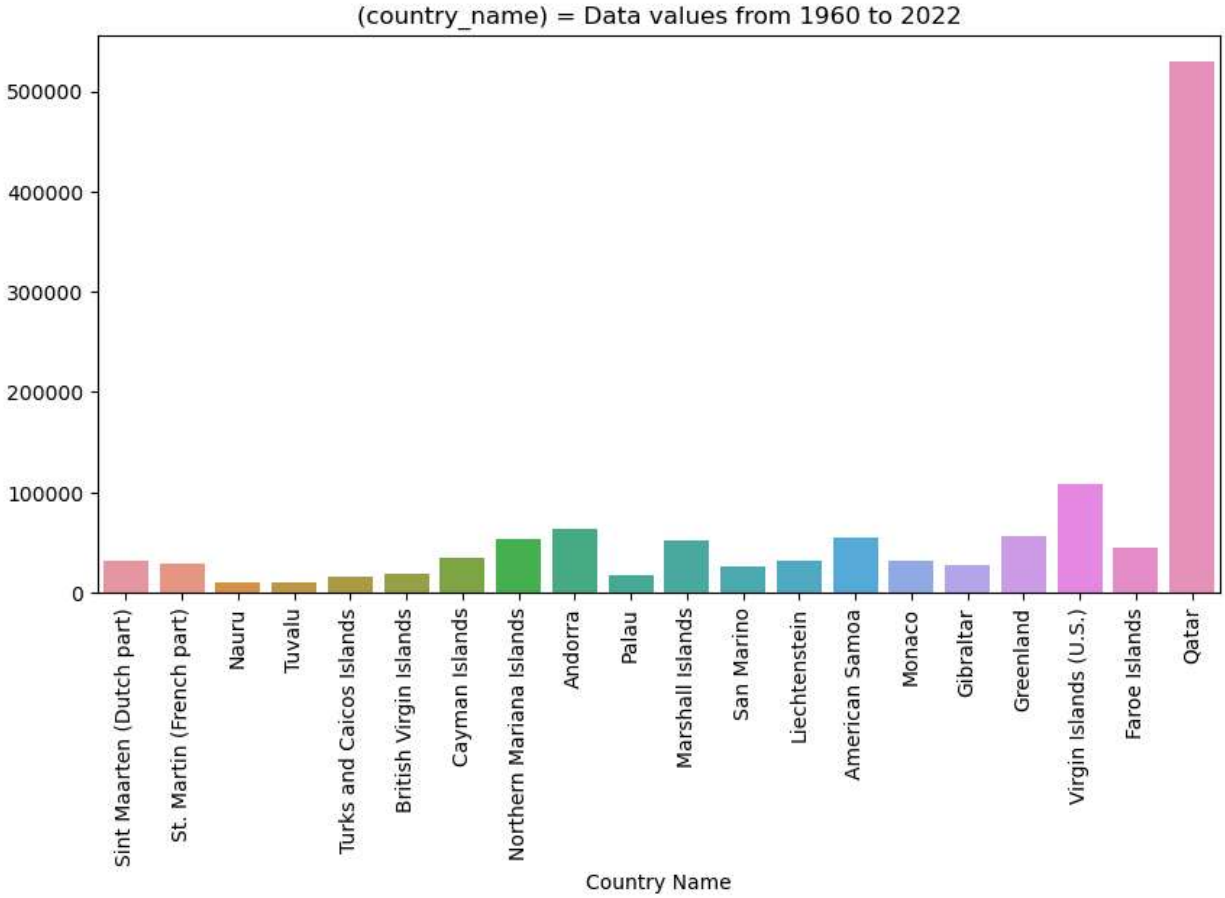
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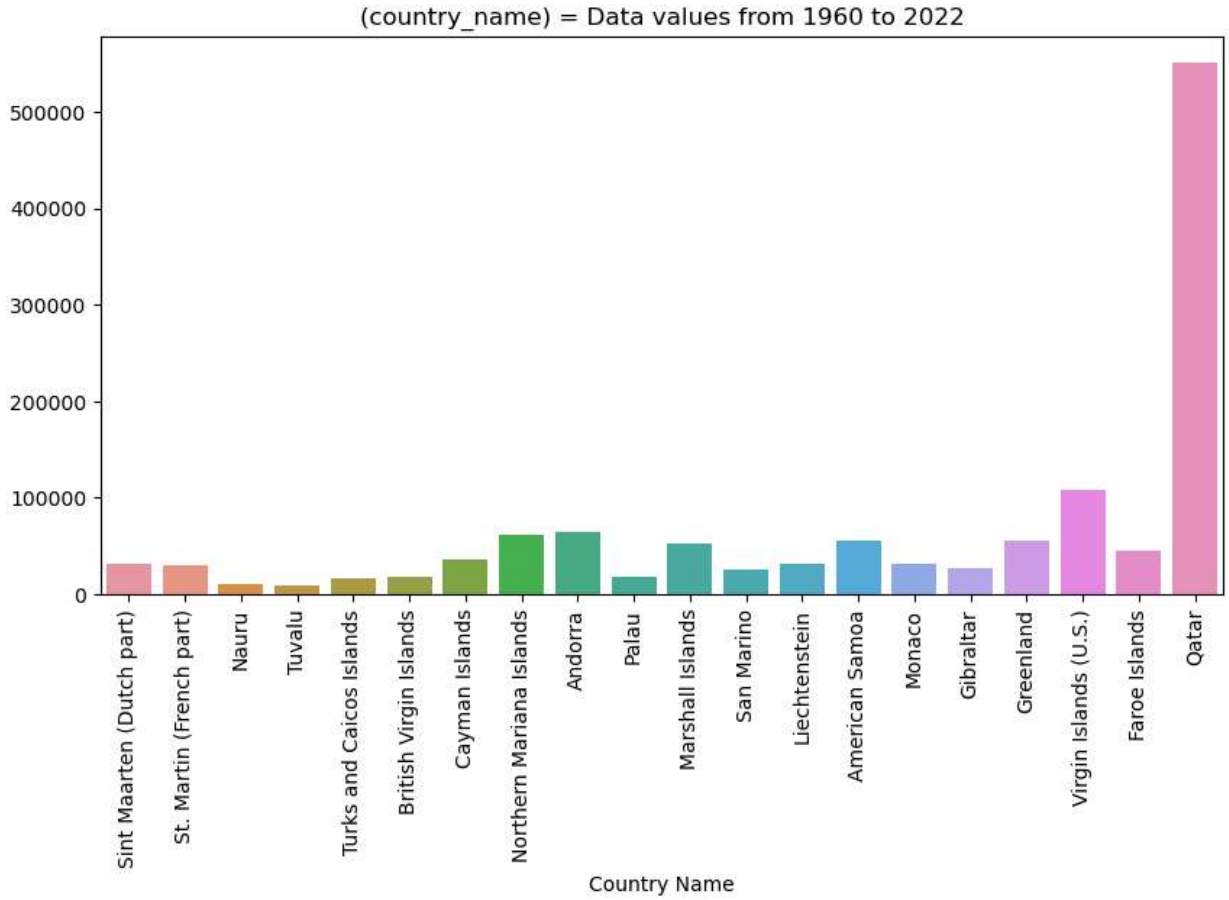
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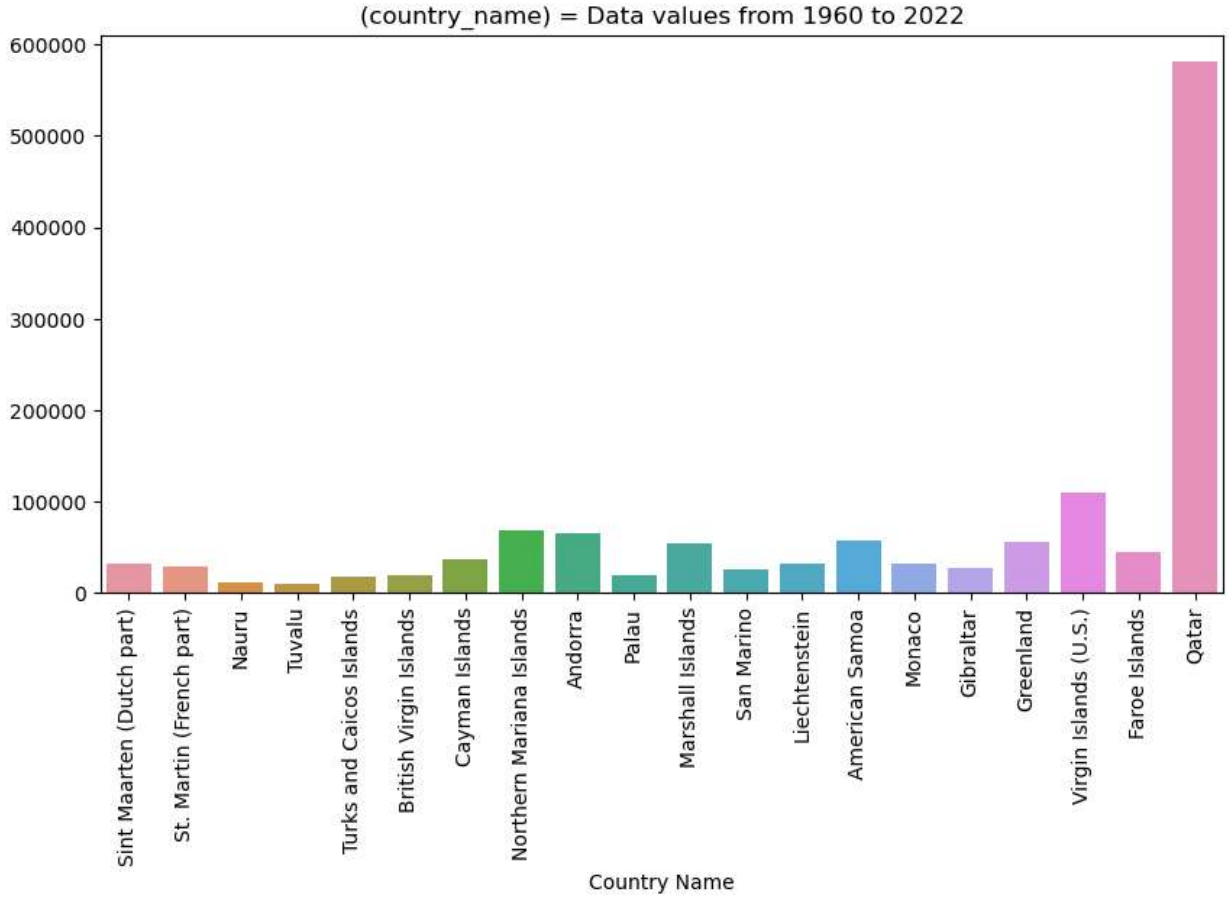
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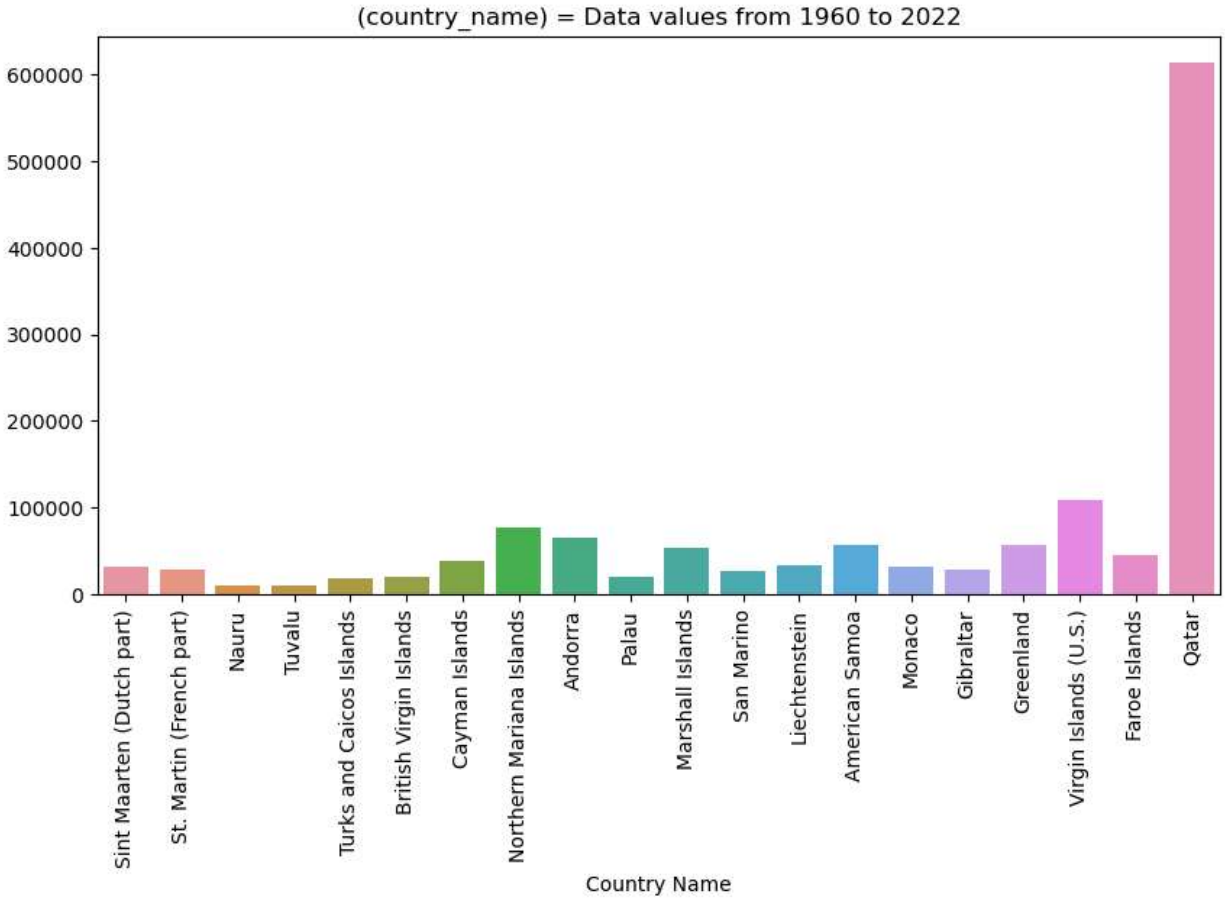
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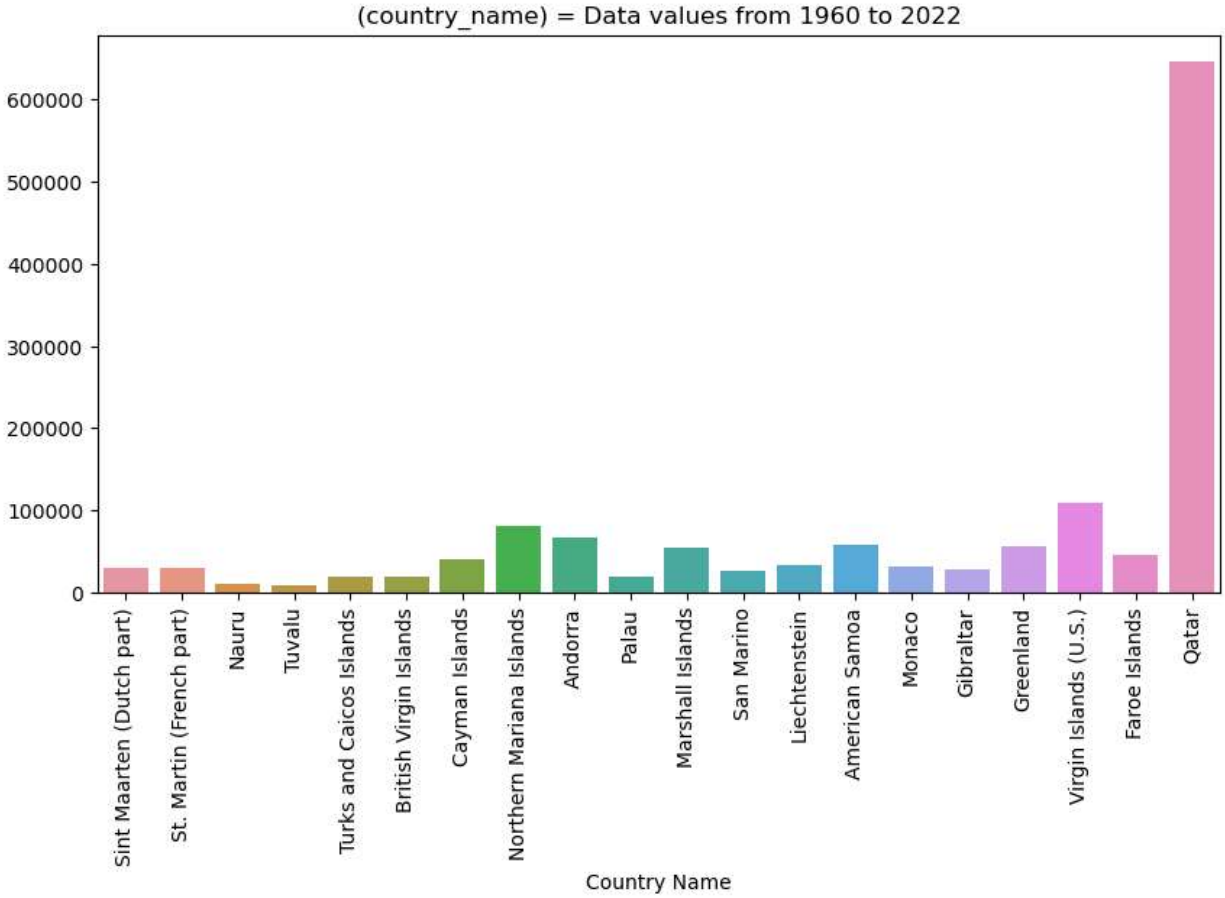
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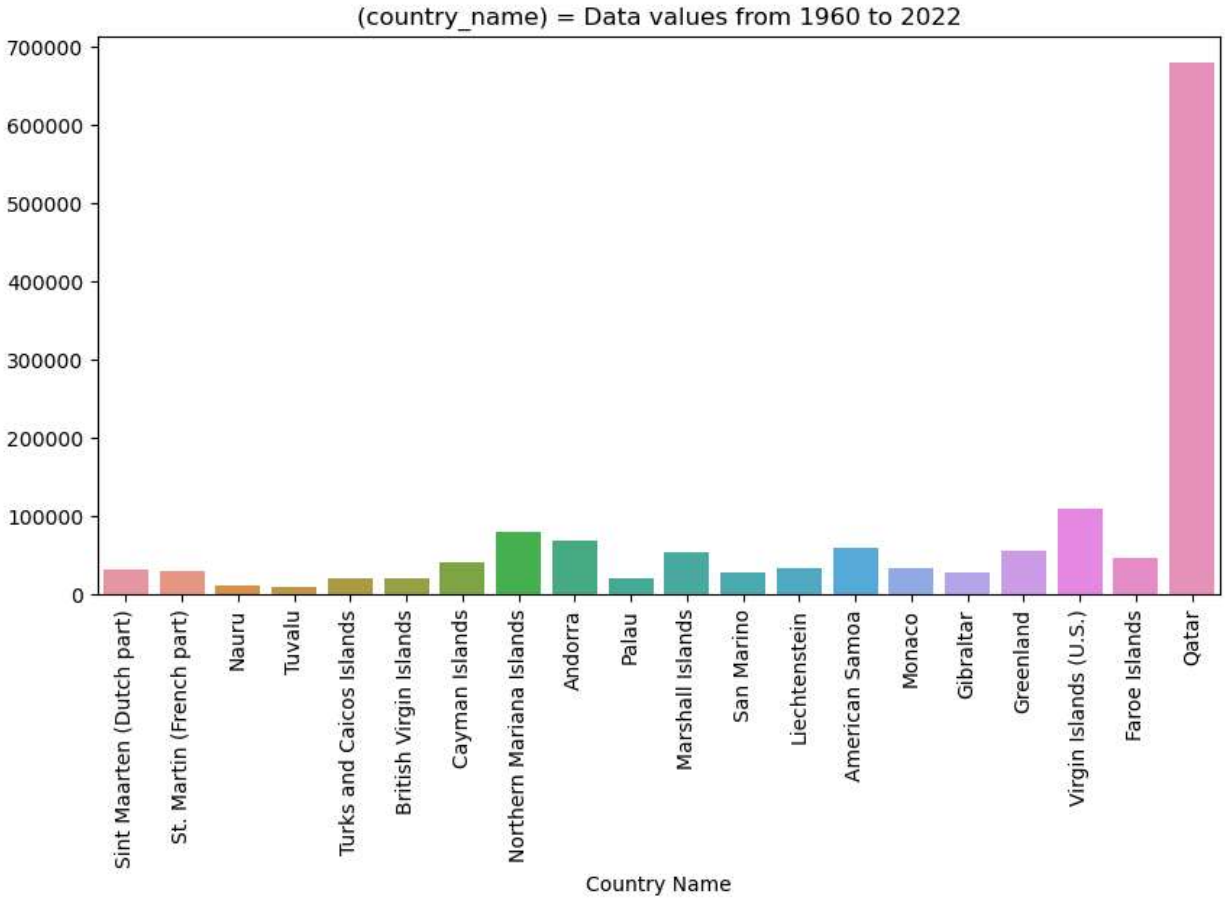
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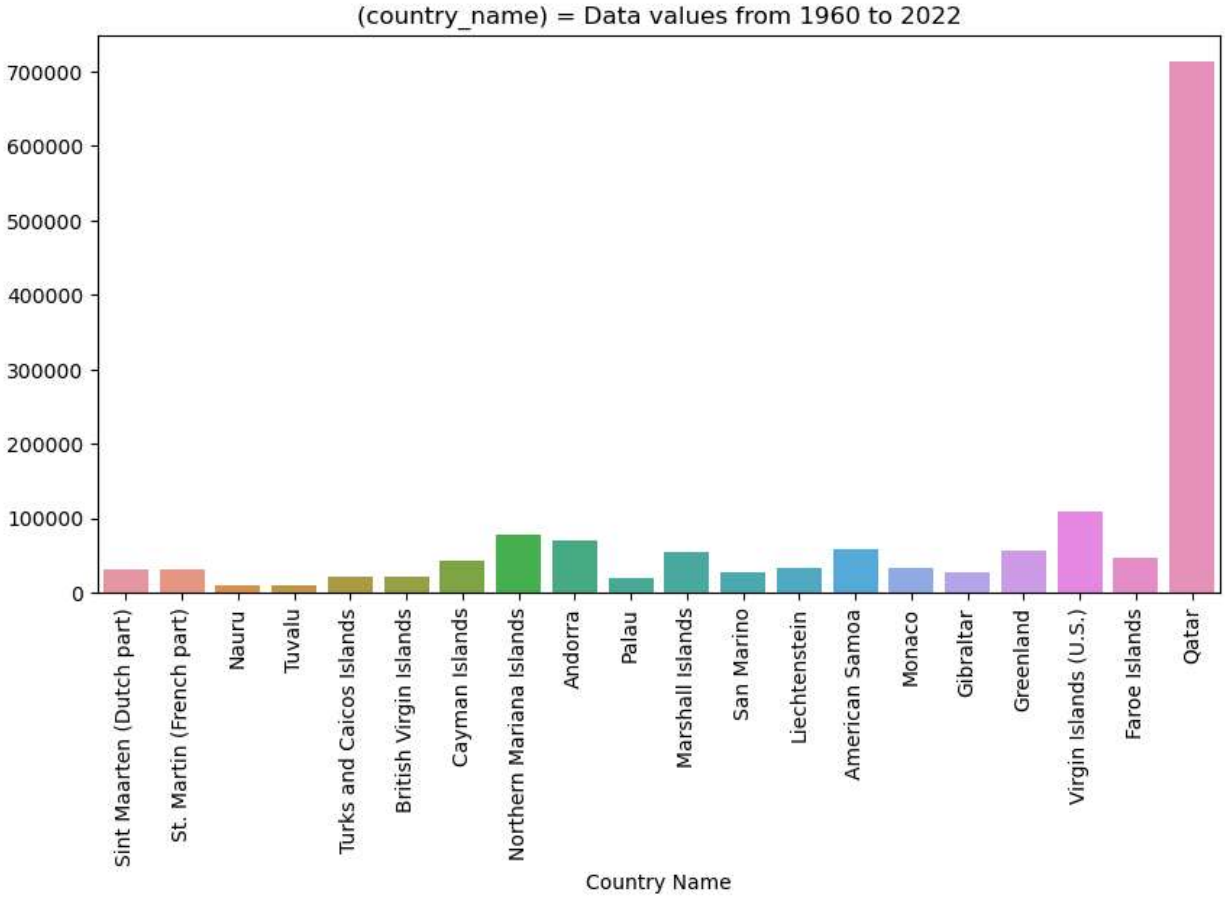
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0
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
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Turks and Caicos Islands
British Virgin Islands
Cayman Islands
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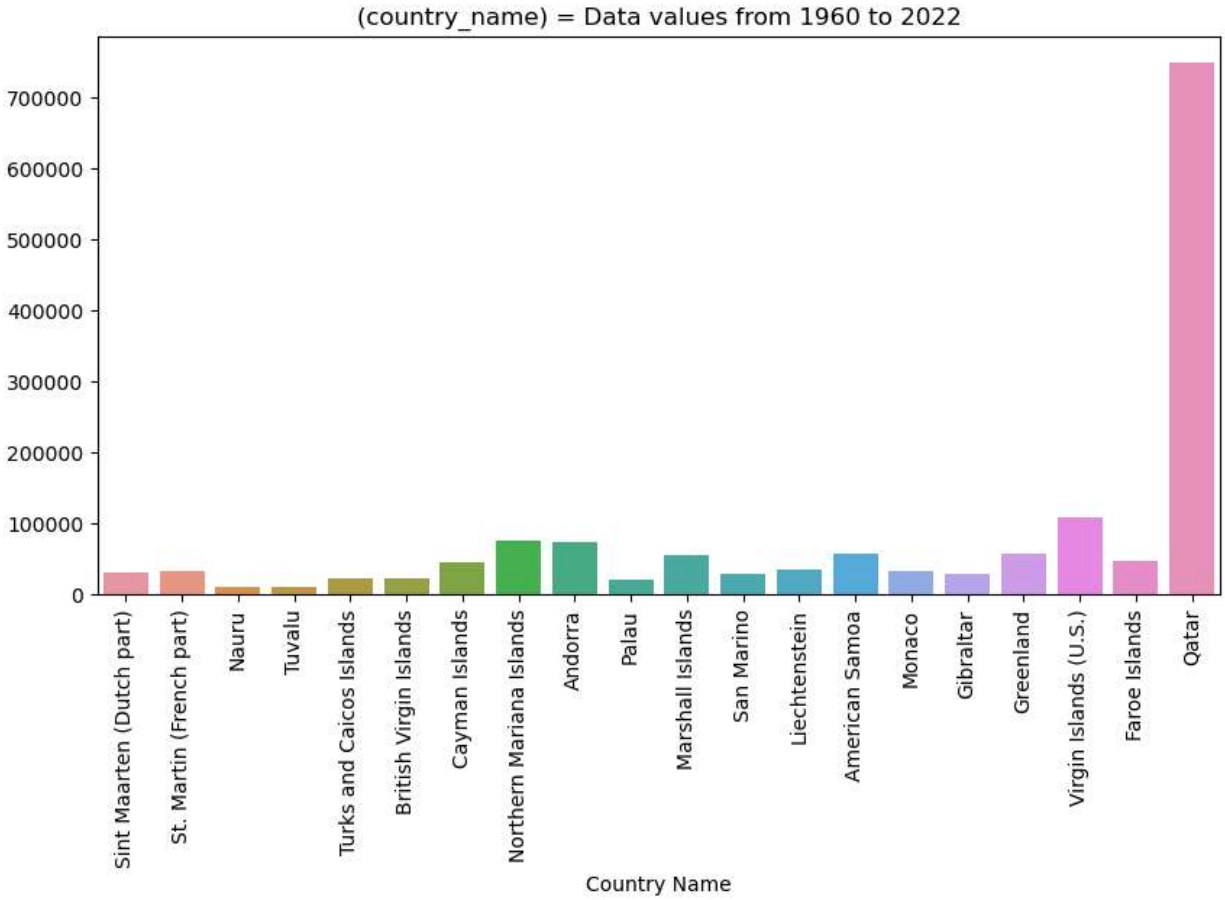
Monaco
Gibraltar
Greenland
Virgin Islands (U.S.)
Faroe Islands
Qatar
Country Name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St. Martin (French part)
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Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
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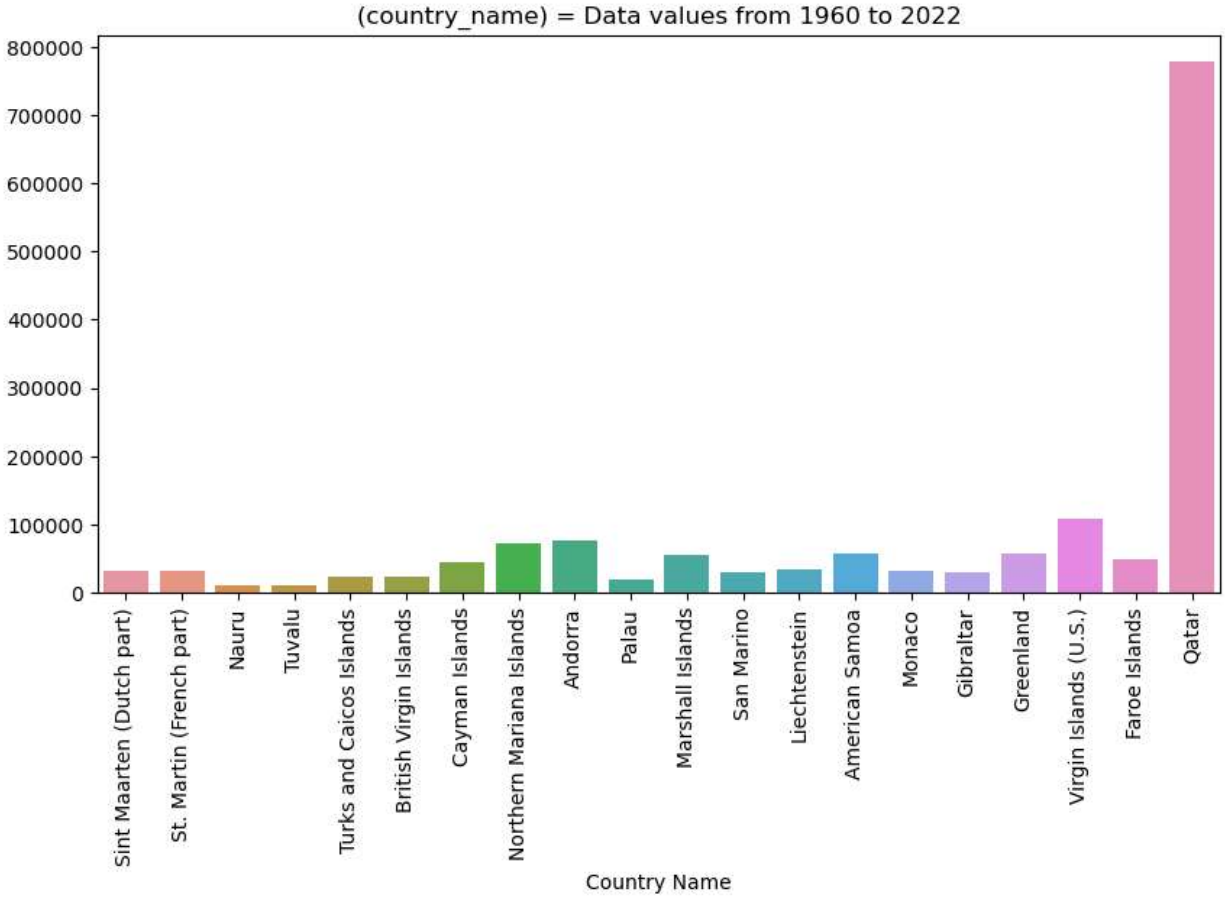
Qatar
Country Name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St. Martin (French part)
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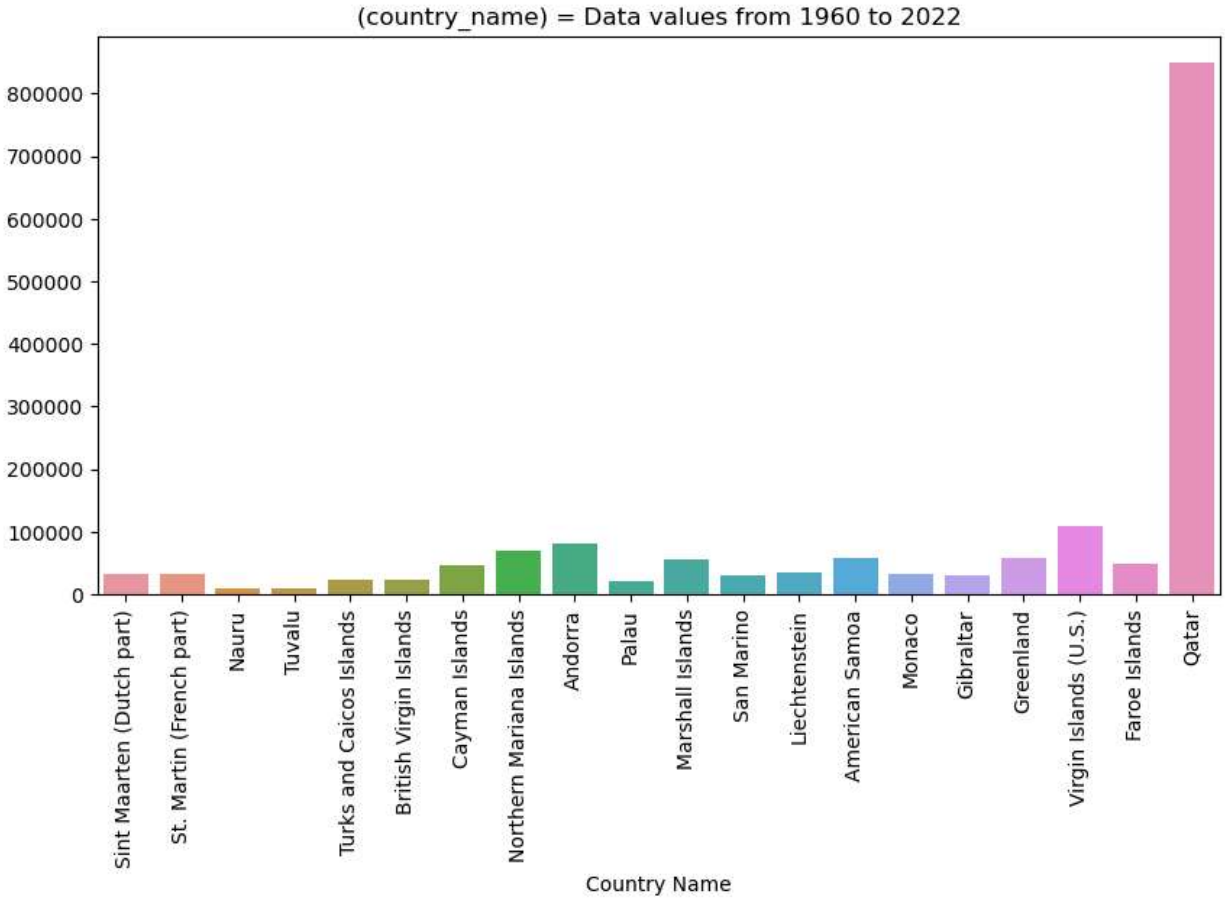
Country Name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St. Martin (French part)
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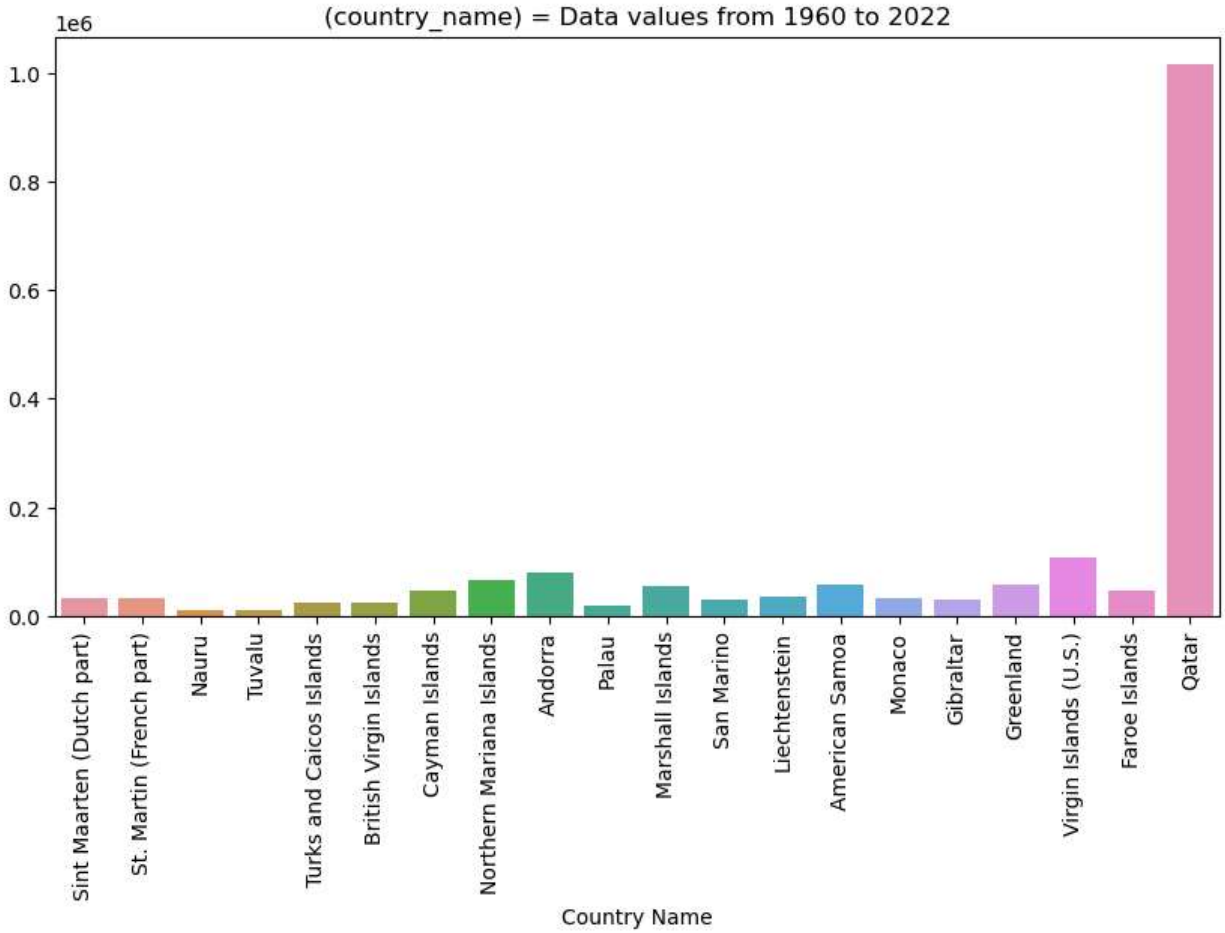
Country Name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1.0
0.8
0.6
0.4
0.2
0.0
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St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
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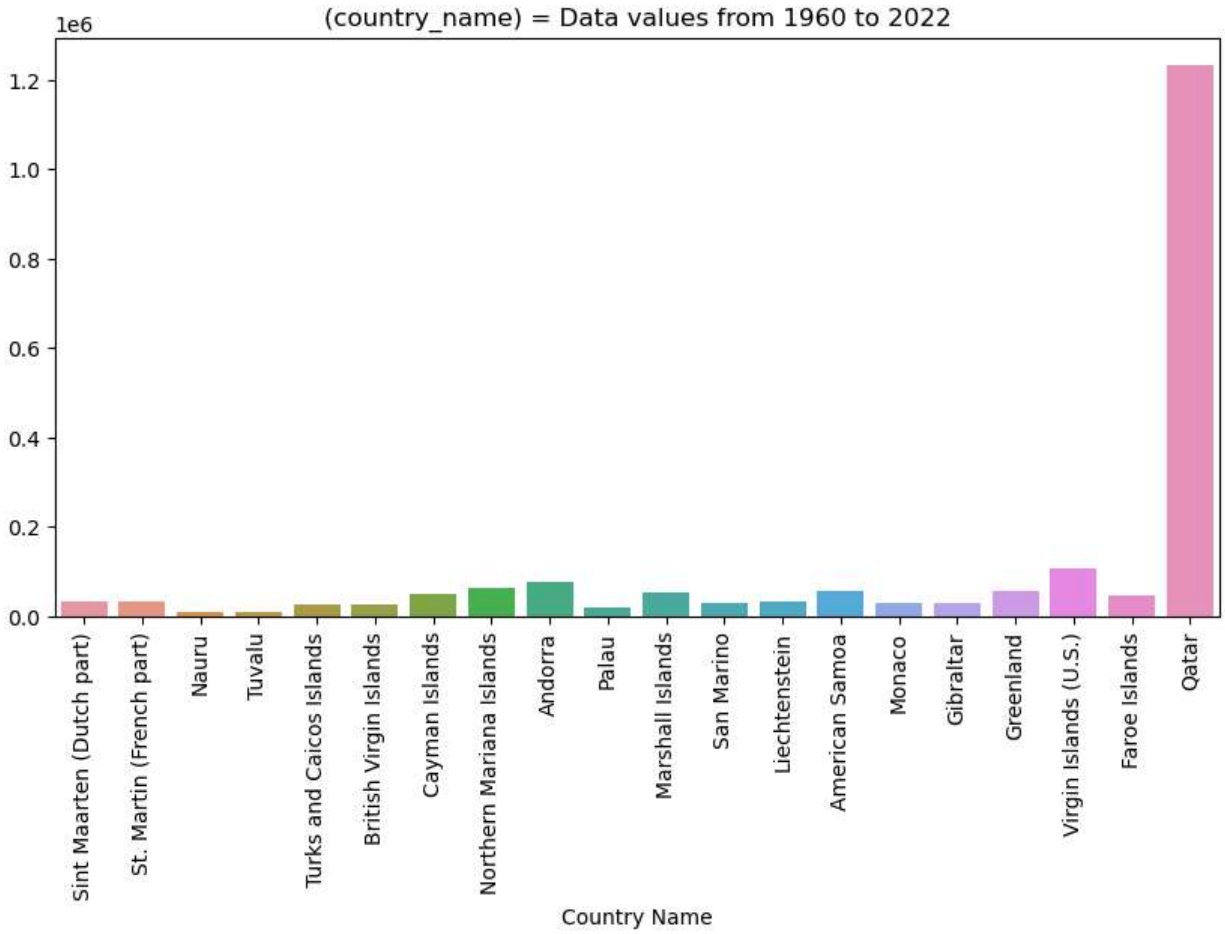
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1.0
0.8
0.6
0.4
0.2
0.0
Sint Maarten (Dutch part)
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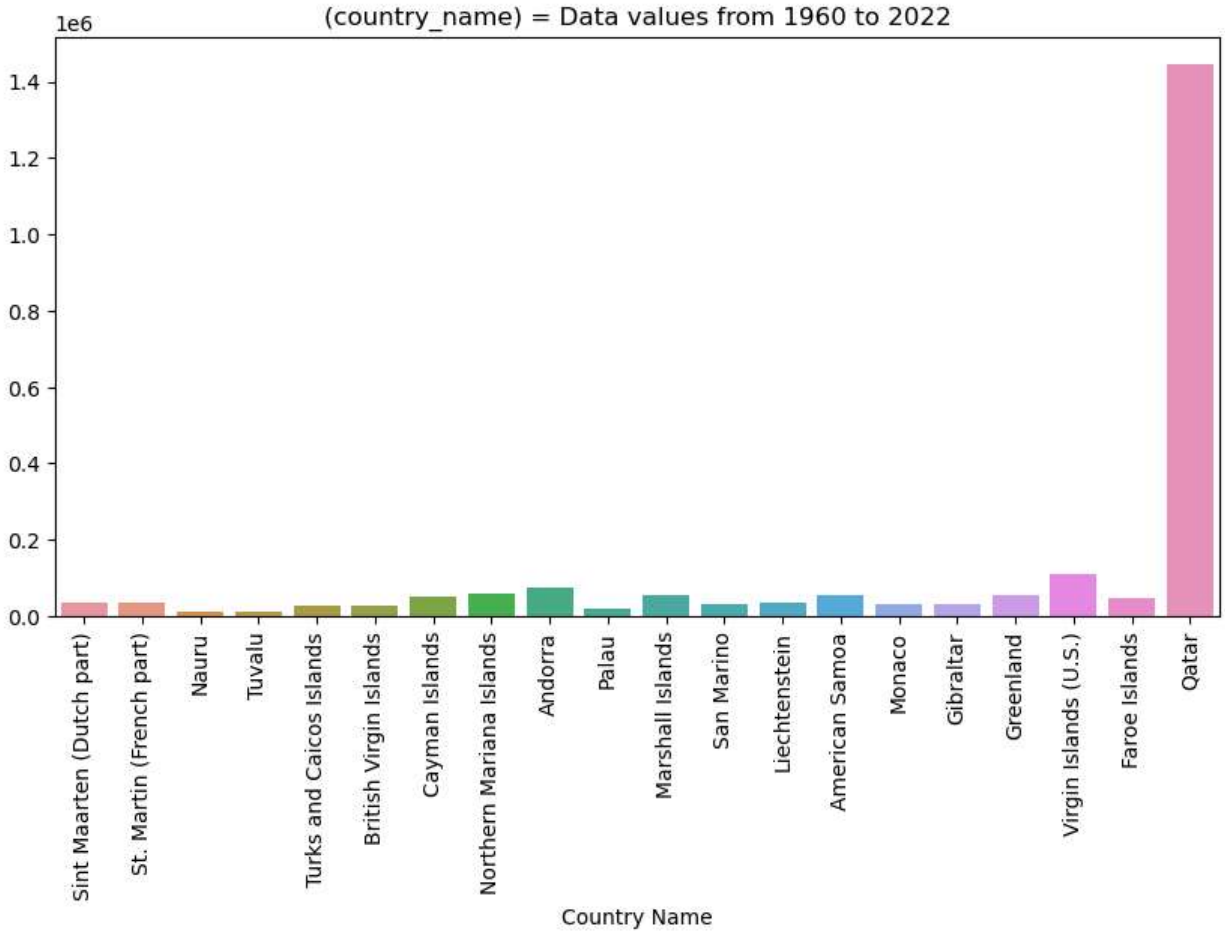
Country Name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1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
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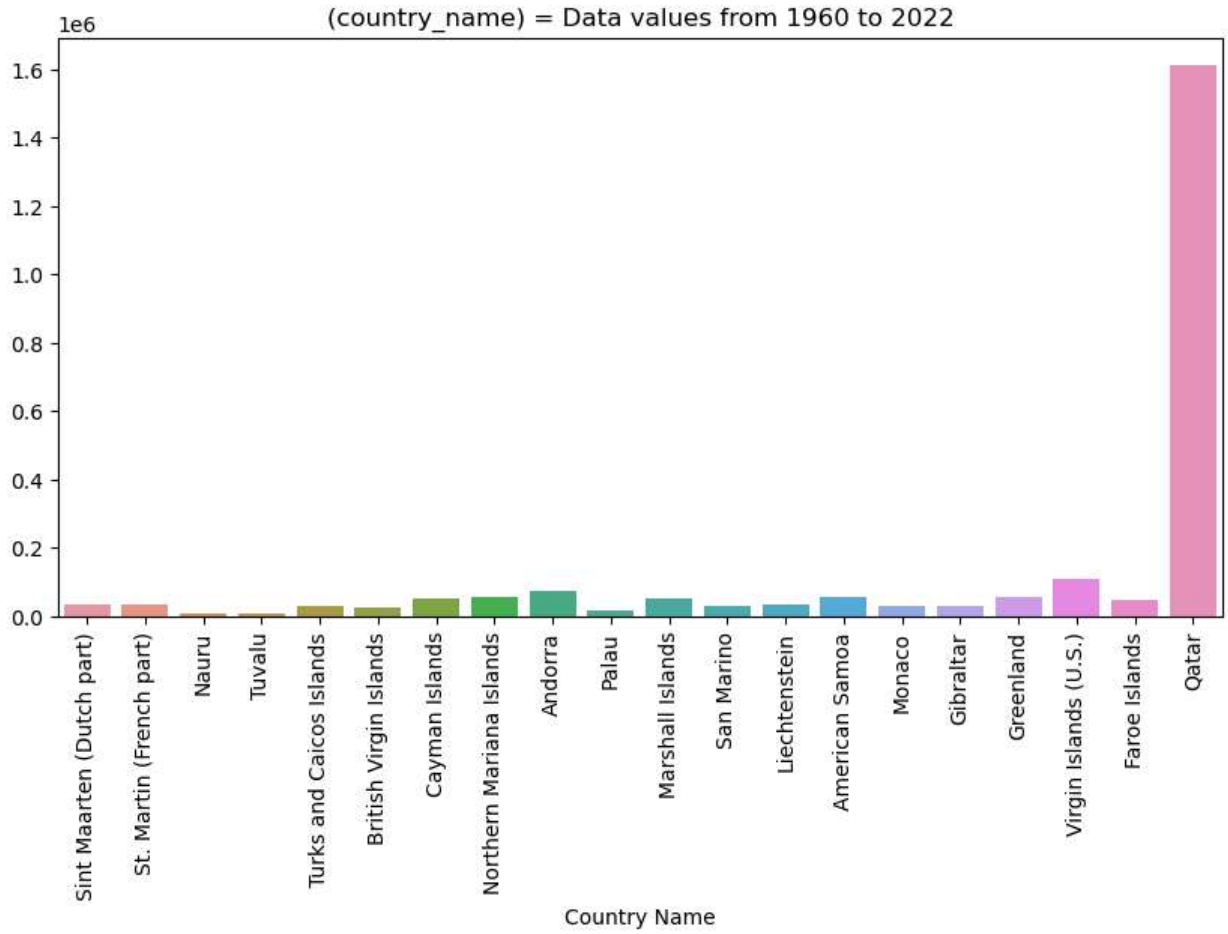
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1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sint Maarten (Dutch part)
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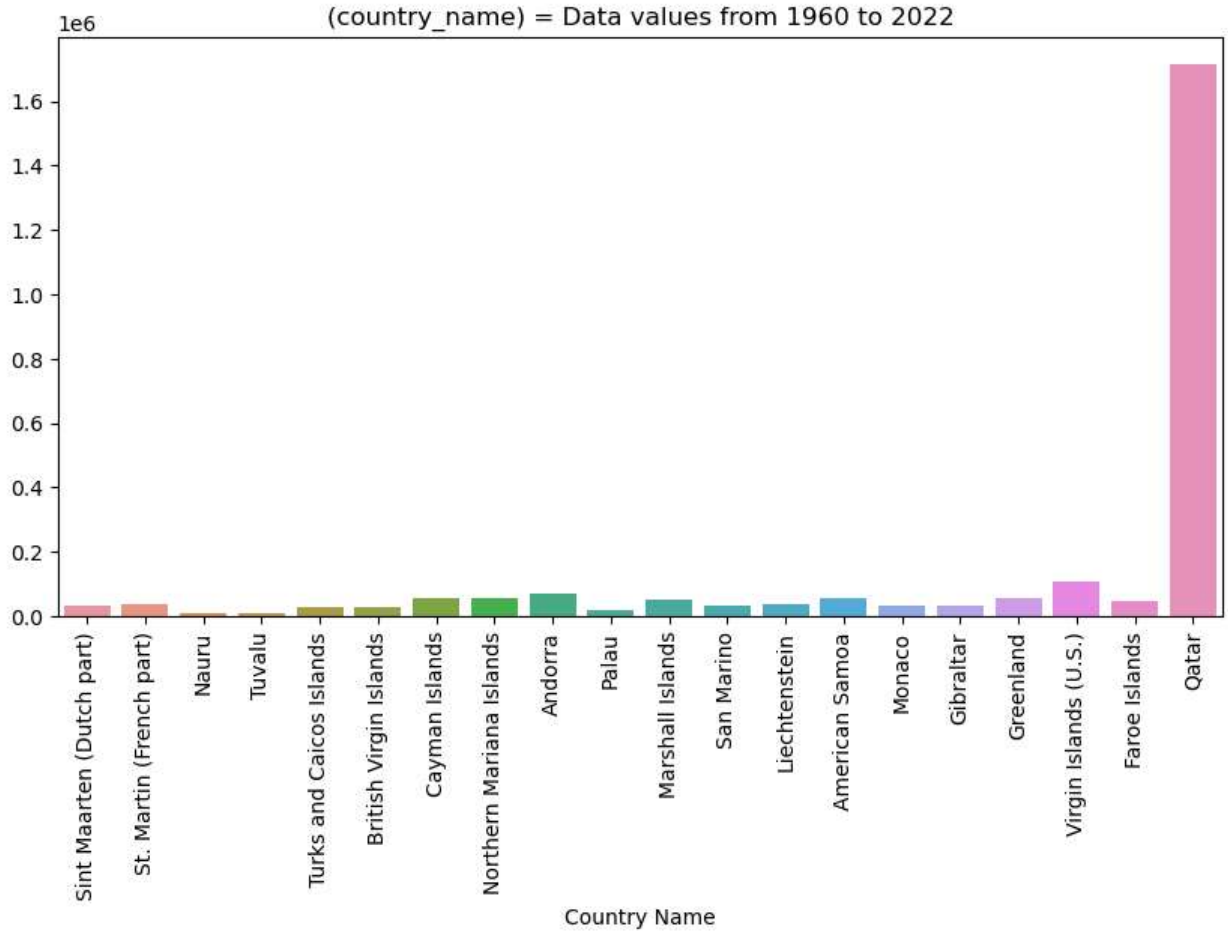
(country_name) = Data values from 1960 to 2022
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1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Sint Maarten (Dutch part)
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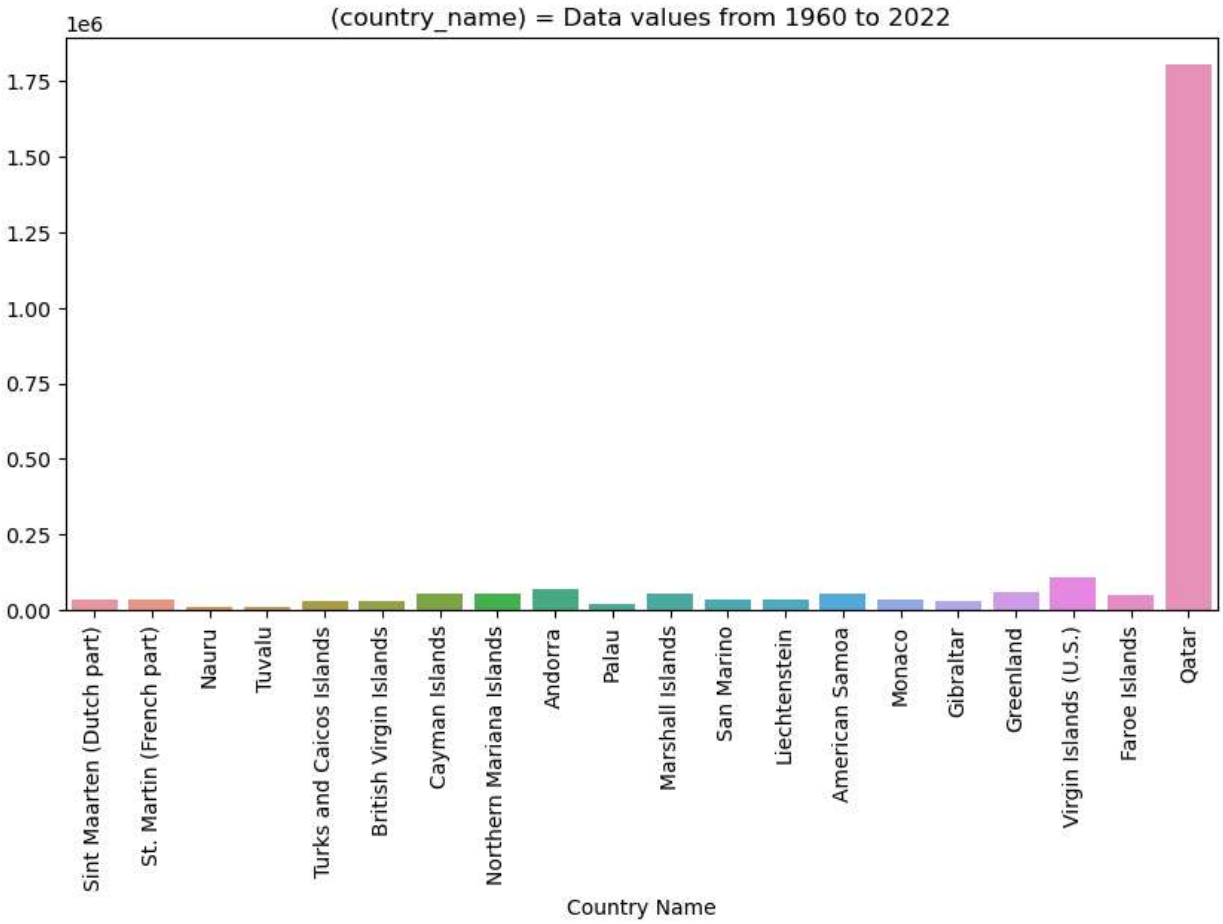
Country Name


(country_name) = Data values from 1960 to 2022
1e6
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
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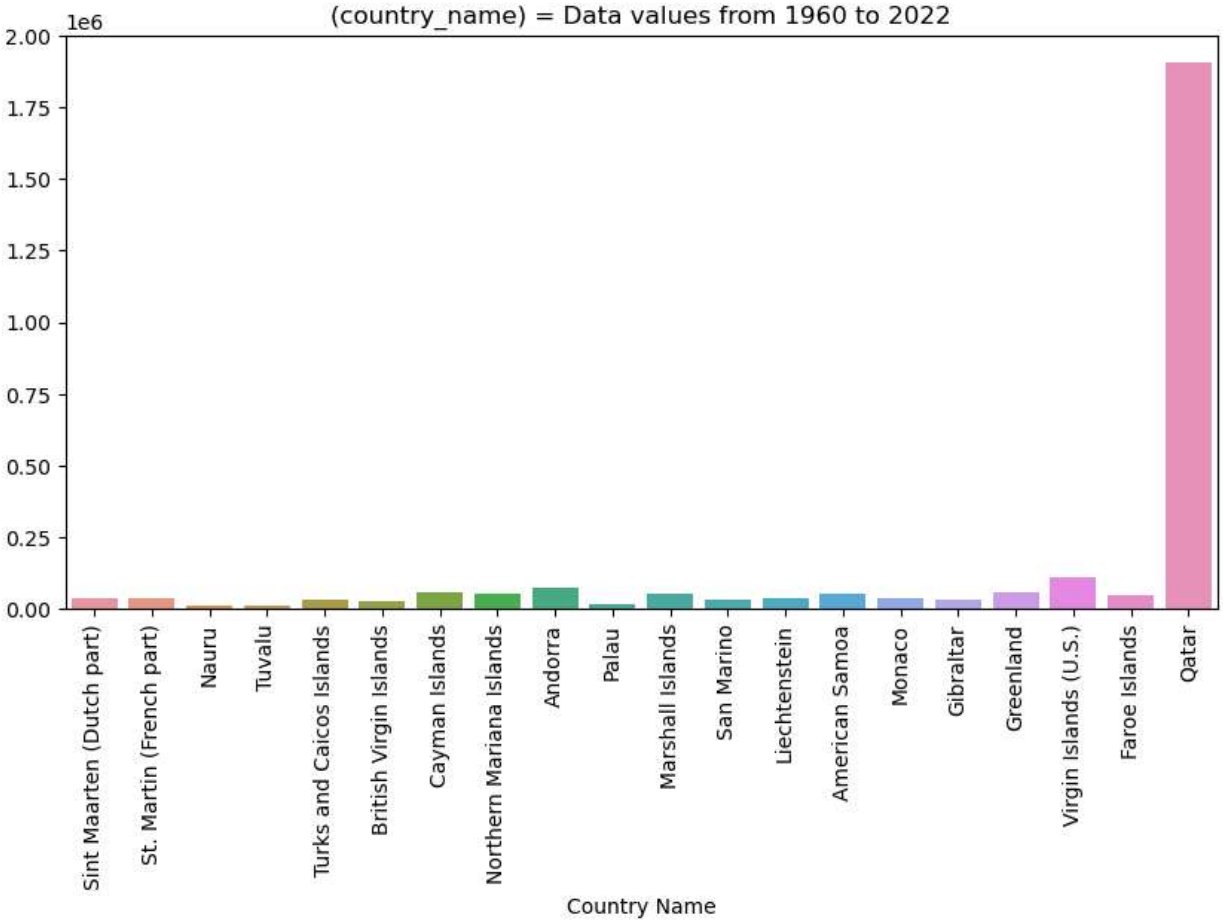
Country Name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1e6
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Sint Maarten (Dutch part)
St. Martin (French part)
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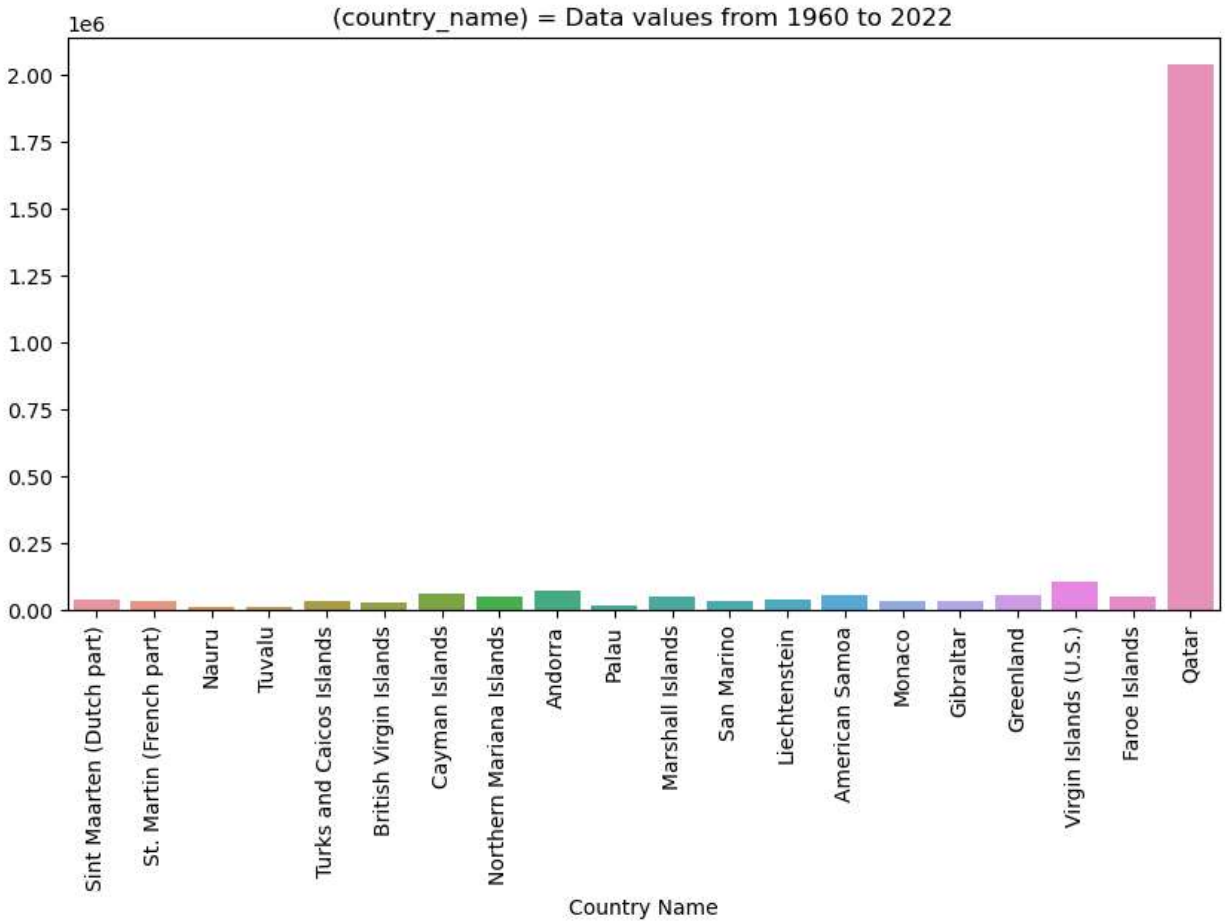
Qatar
Country Name


(country_name) = Data values from 1960 to 2022
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1.75
1.50
1.25
1.00
0.75
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Sint Maarten (Dutch part)
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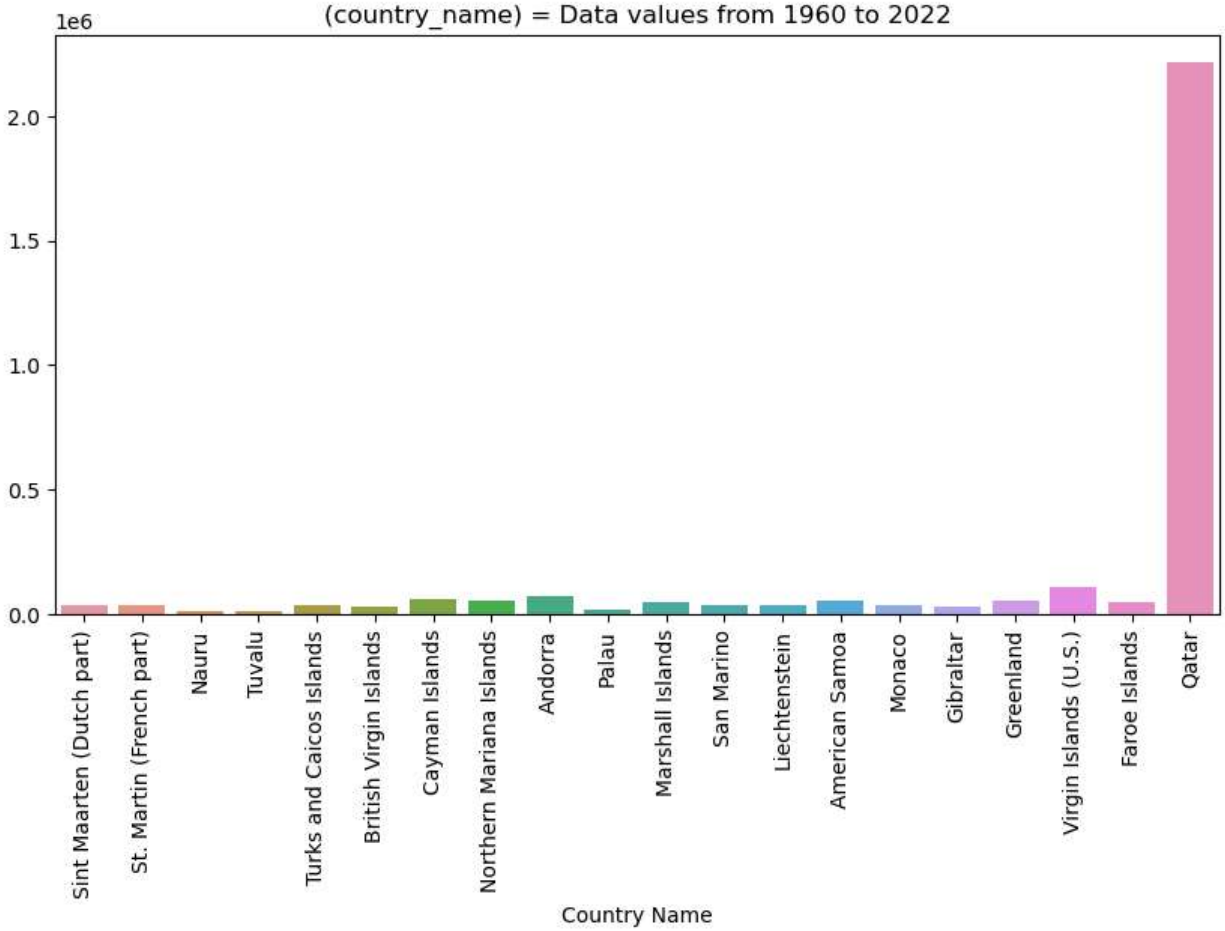
Country Name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1.5
1.0
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0.0
Sint Maarten (Dutch part)
St. Martin (French part)
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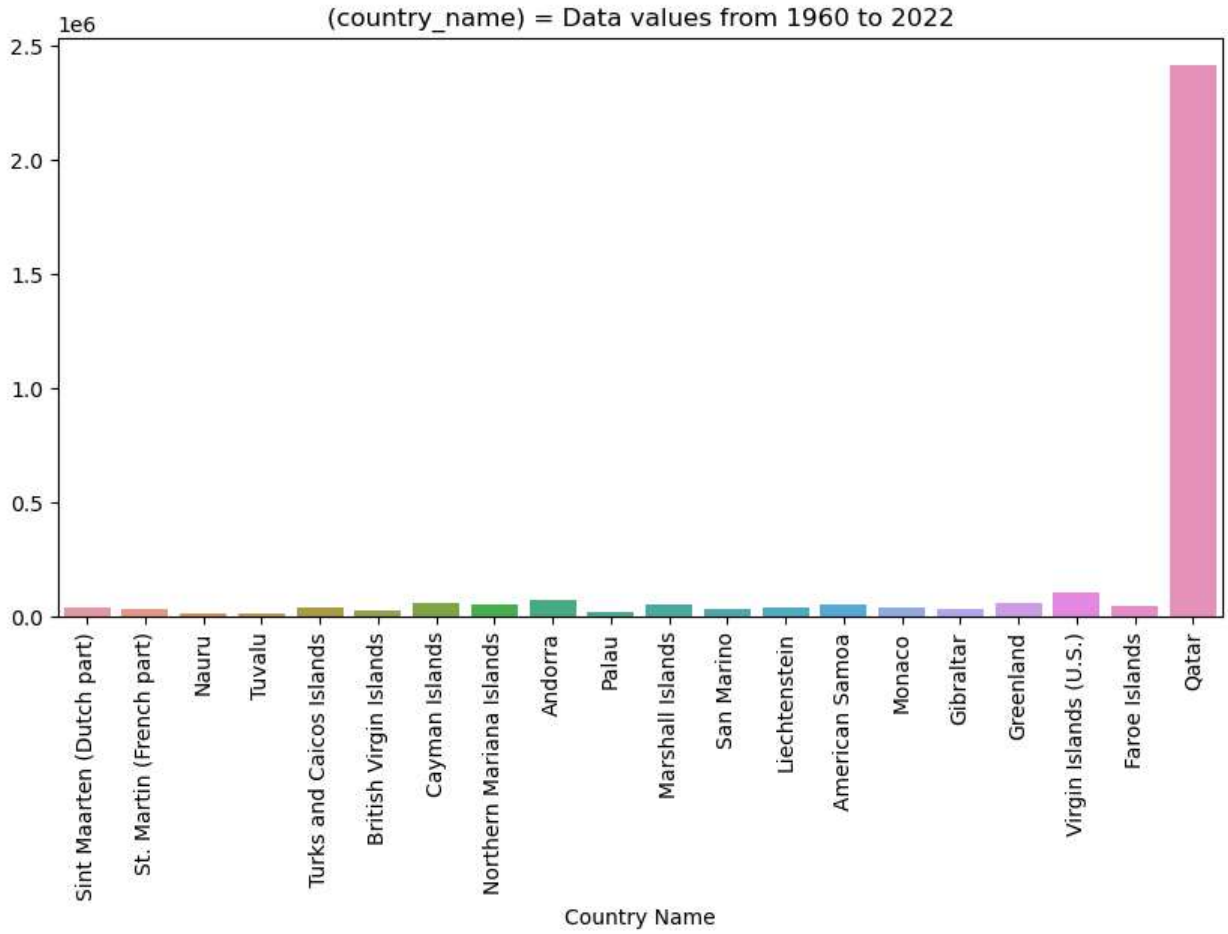
Country Name


(country_name) = Data values from 1960 to 2022
1e6
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Sint Maarten (Dutch part)
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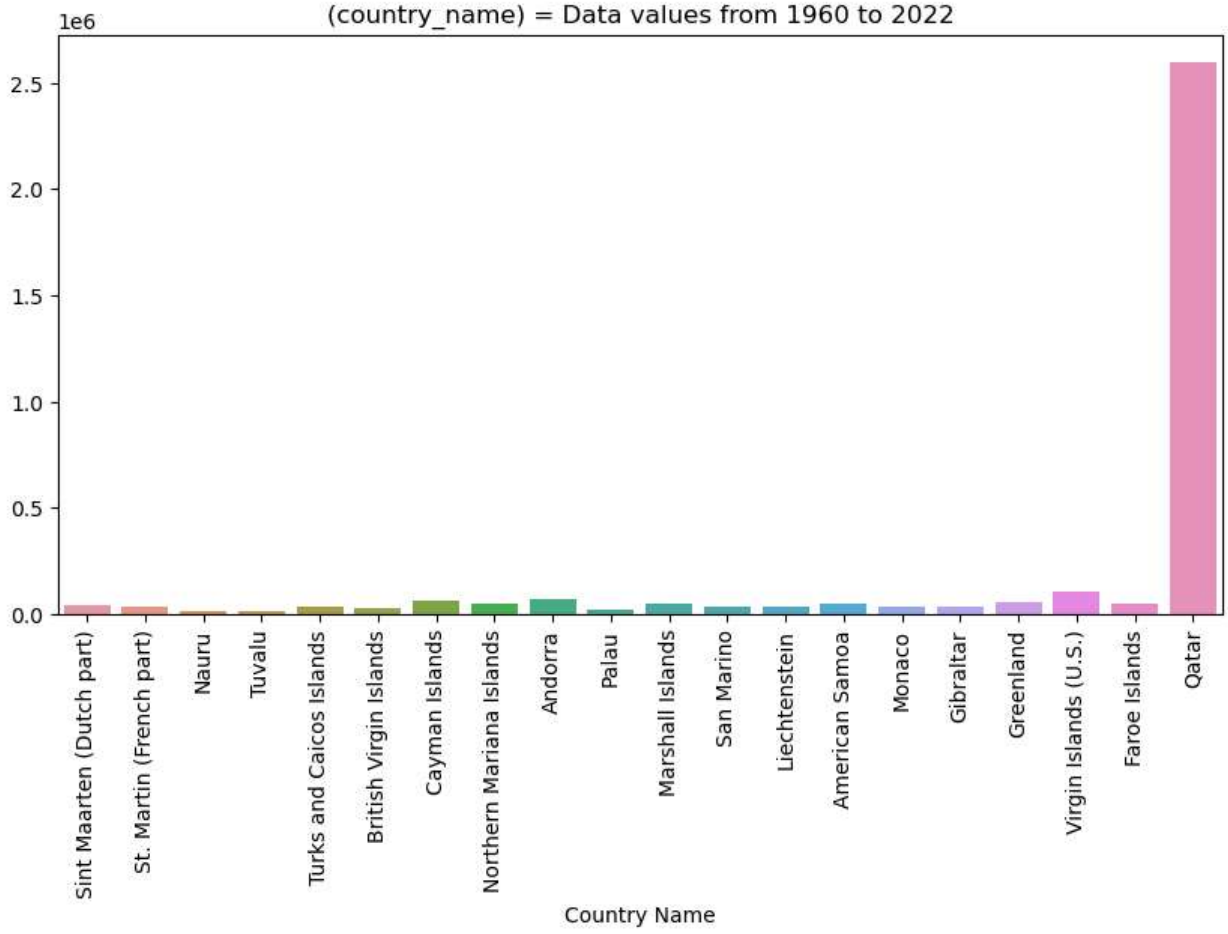
(country_name) = Data values from 1960 to 2022
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Sint Maarten (Dutch part)
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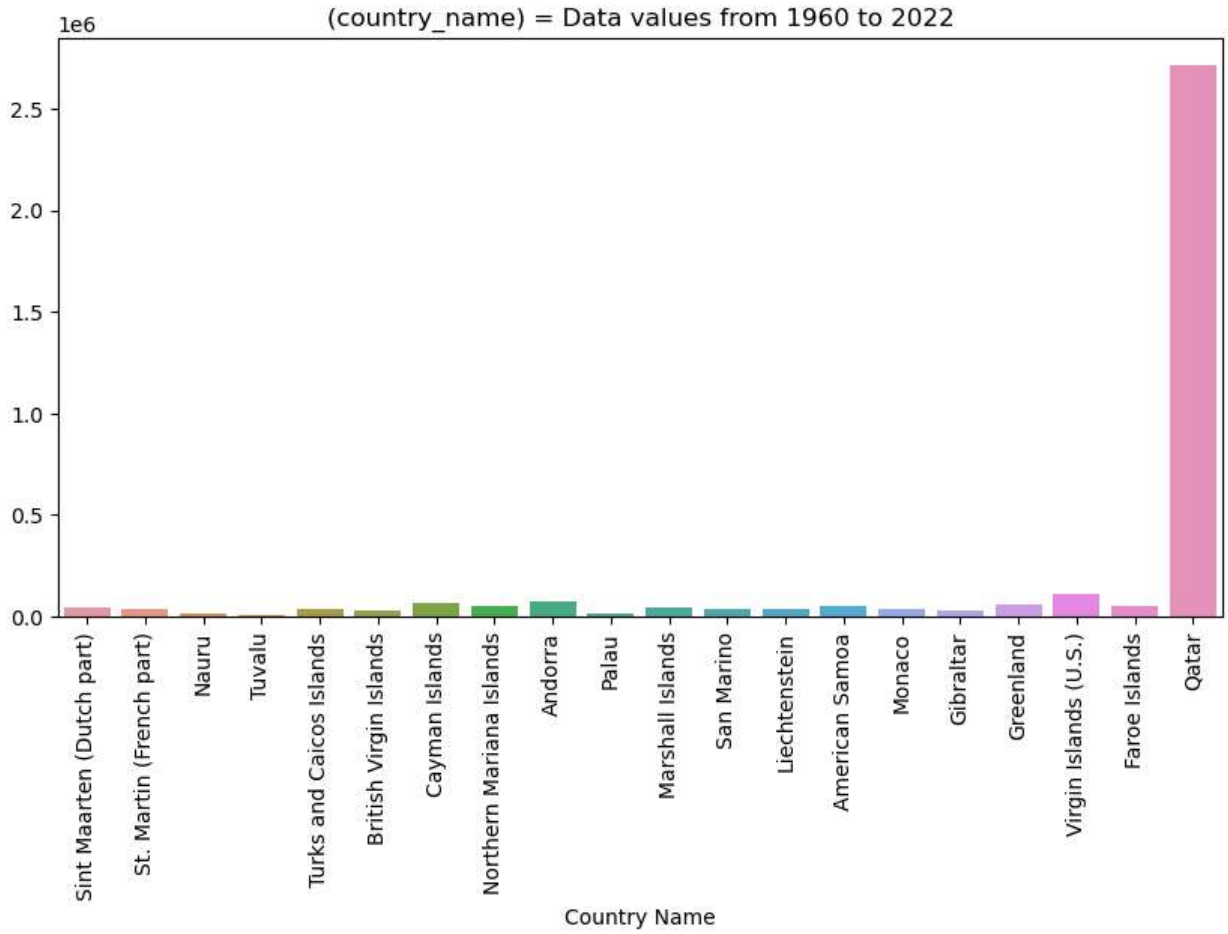
(country_name) = Data values from 1960 to 2022
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2.0
1.5
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Sint Maarten (Dutch part)
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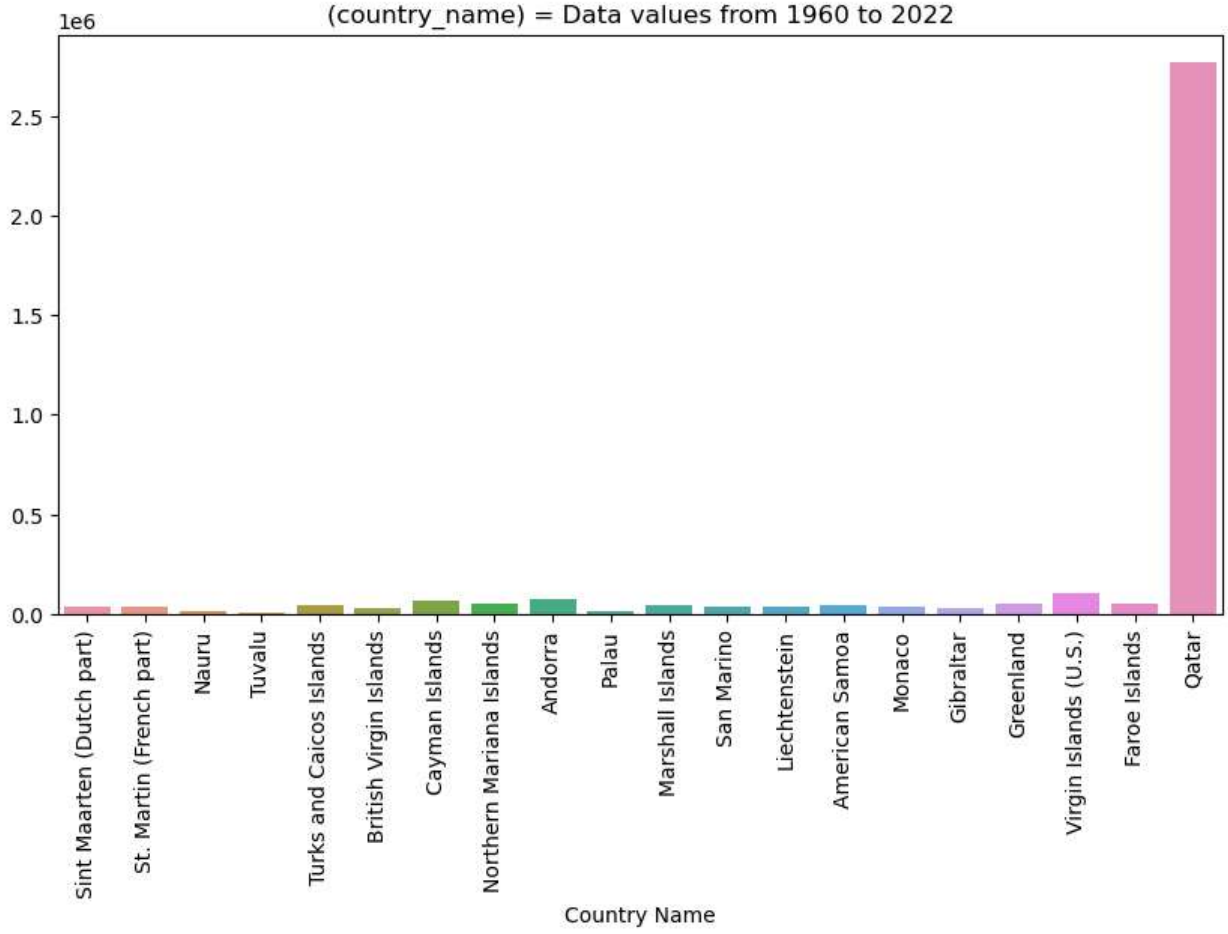
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Sint Maarten (Dutch part)
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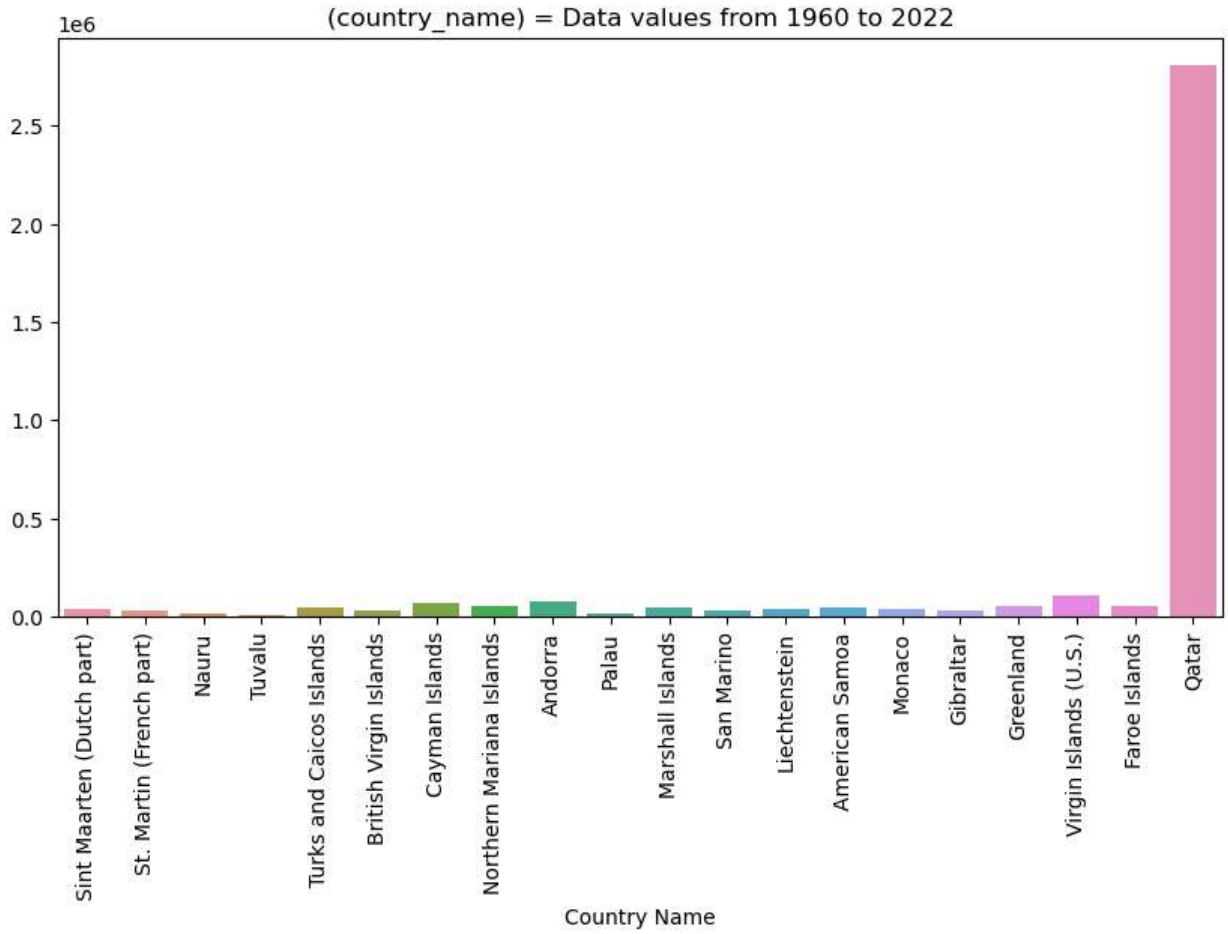
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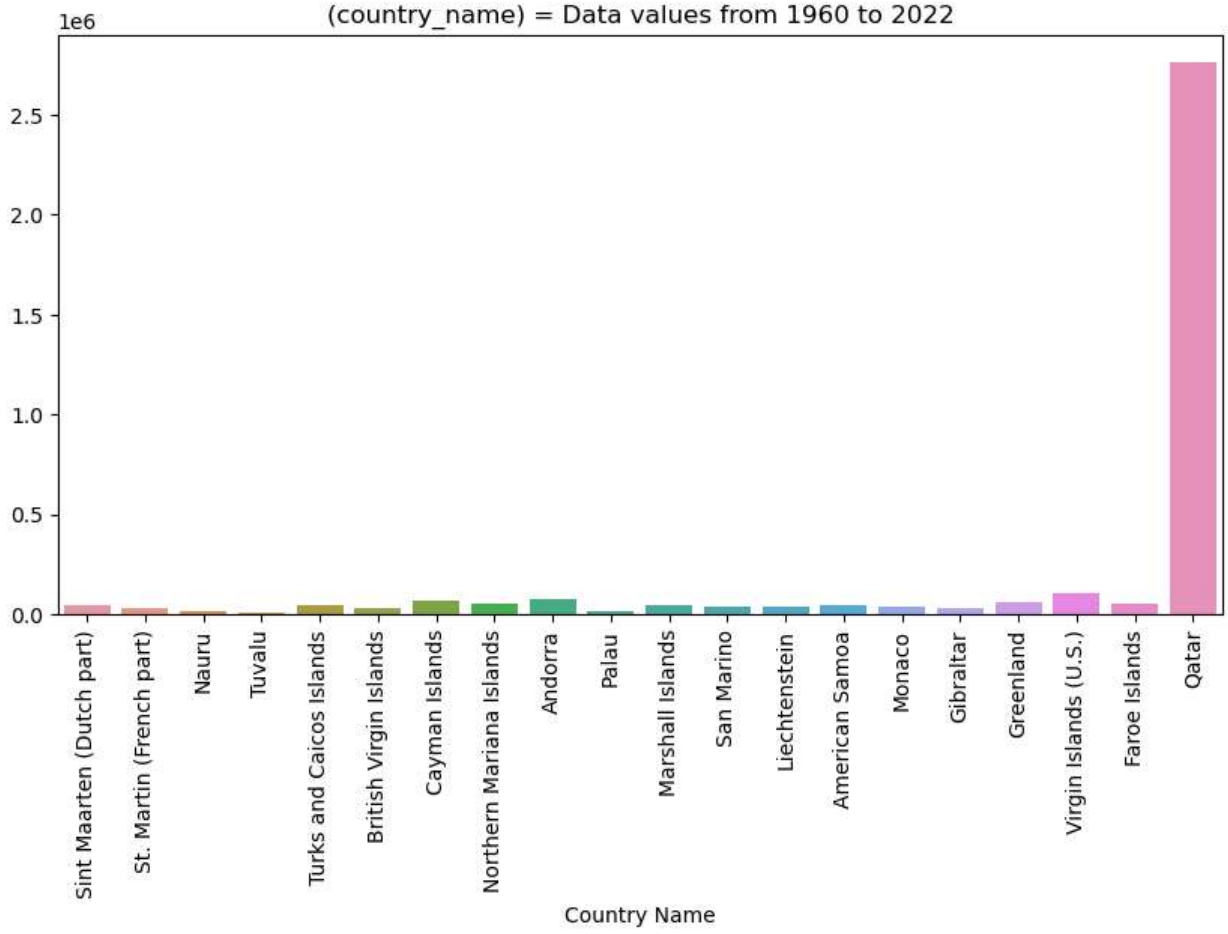
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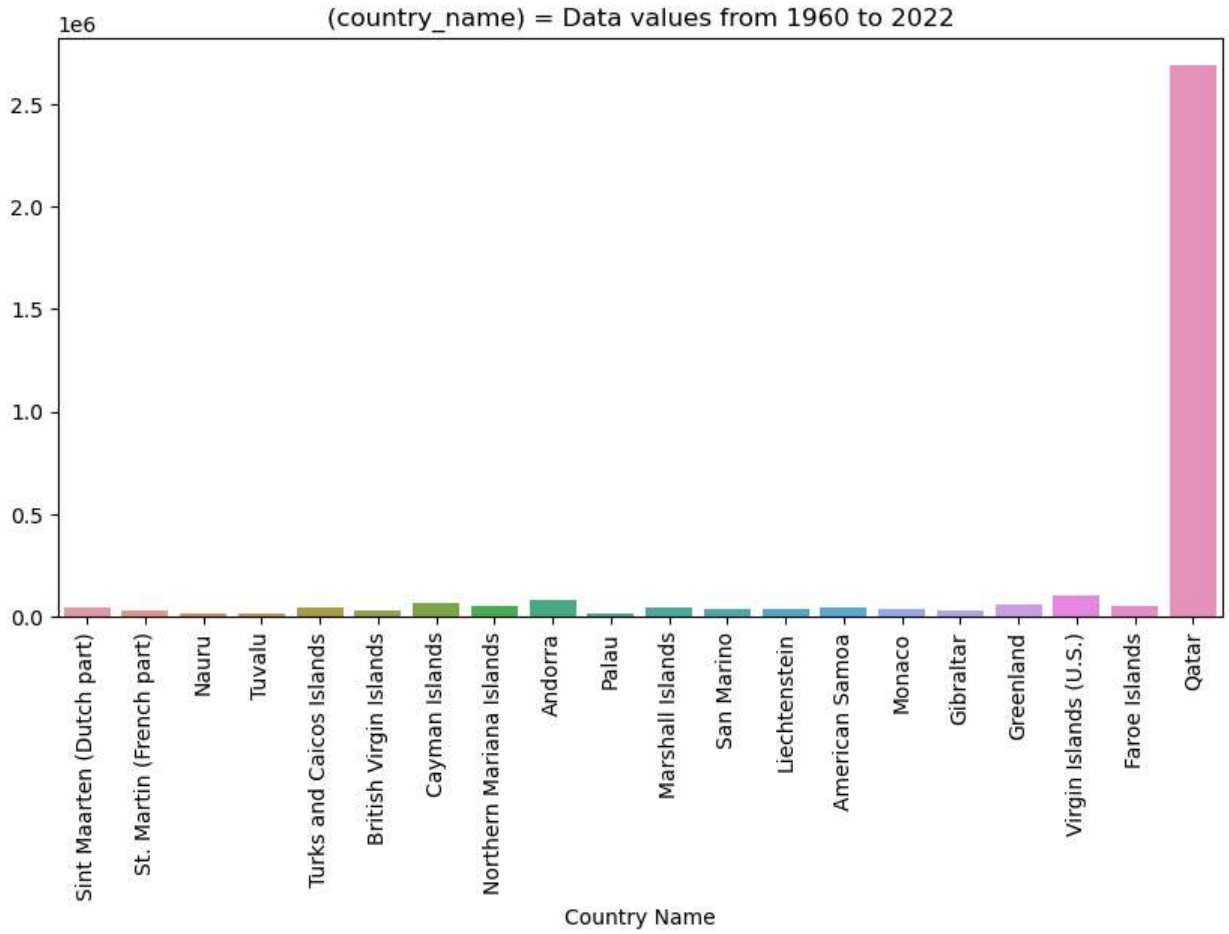
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2.0
1.5
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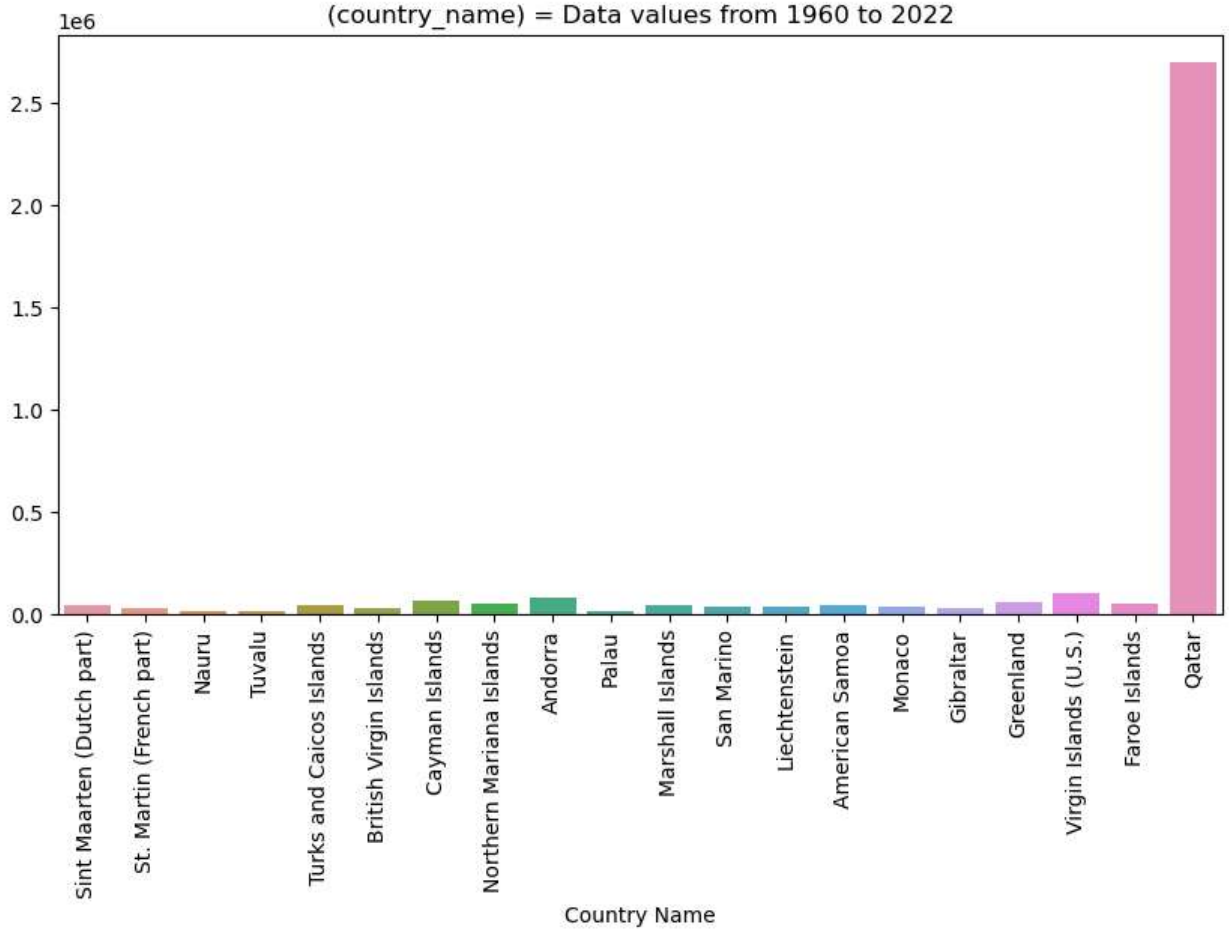
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2.0
1.5
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Sint Maarten (Dutch part)
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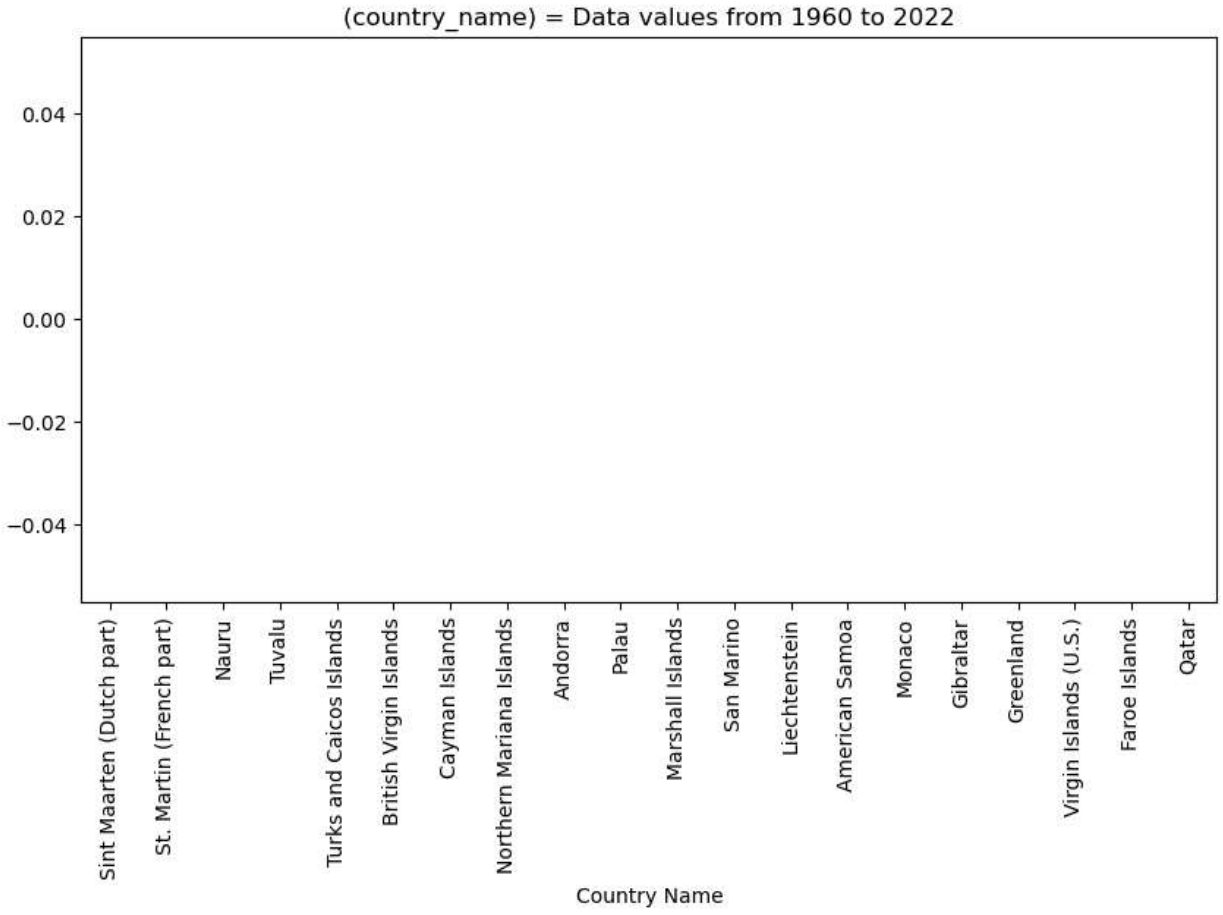


In [98]:
```
df = pd.read_csv(r"C:\Users\ADMIN\OneDrive\Metadata_Country_API_SP.POP.TOTL_DS2_en_csv
```

In [99]:
```
df
```

Out[99]:

	Country Code	Region	IncomeGroup	SpecialNotes	TableName	Unnamed: 5
0	ABW	Latin America & Caribbean	High income	NaN	Aruba	NaN
1	AFE	NaN	NaN	26 countries, stretching from the Red Sea in t...	Africa Eastern and Southern	NaN
2	AFG	South Asia	Low income	The reporting period for national accounts dat...	Afghanistan	NaN
3	AFW	NaN	NaN	22 countries, stretching from the westernmost ...	Africa Western and Central	NaN
4	AGO	Sub-Saharan Africa	Lower middle income	The World Bank systematically assesses the app...	Angola	NaN
...	...	...	...	...	...	...
260	XKX	Europe & Central Asia	Upper middle income	NaN	Kosovo	NaN
261	YEM	Middle East & North Africa	Low income	The World Bank systematically assesses the app...	Yemen, Rep.	NaN
262	ZAF	Sub-Saharan Africa	Upper middle income	Fiscal year end: March 31; reporting period fo...	South Africa	NaN
263	ZMB	Sub-Saharan Africa	Lower middle income	National accounts data were rebased to reflect...	Zambia	NaN
264	ZWE	Sub-Saharan Africa	Lower middle income	National Accounts data are reported in Zimbabw...	Zimbabwe	NaN

265 rows × 6 columns

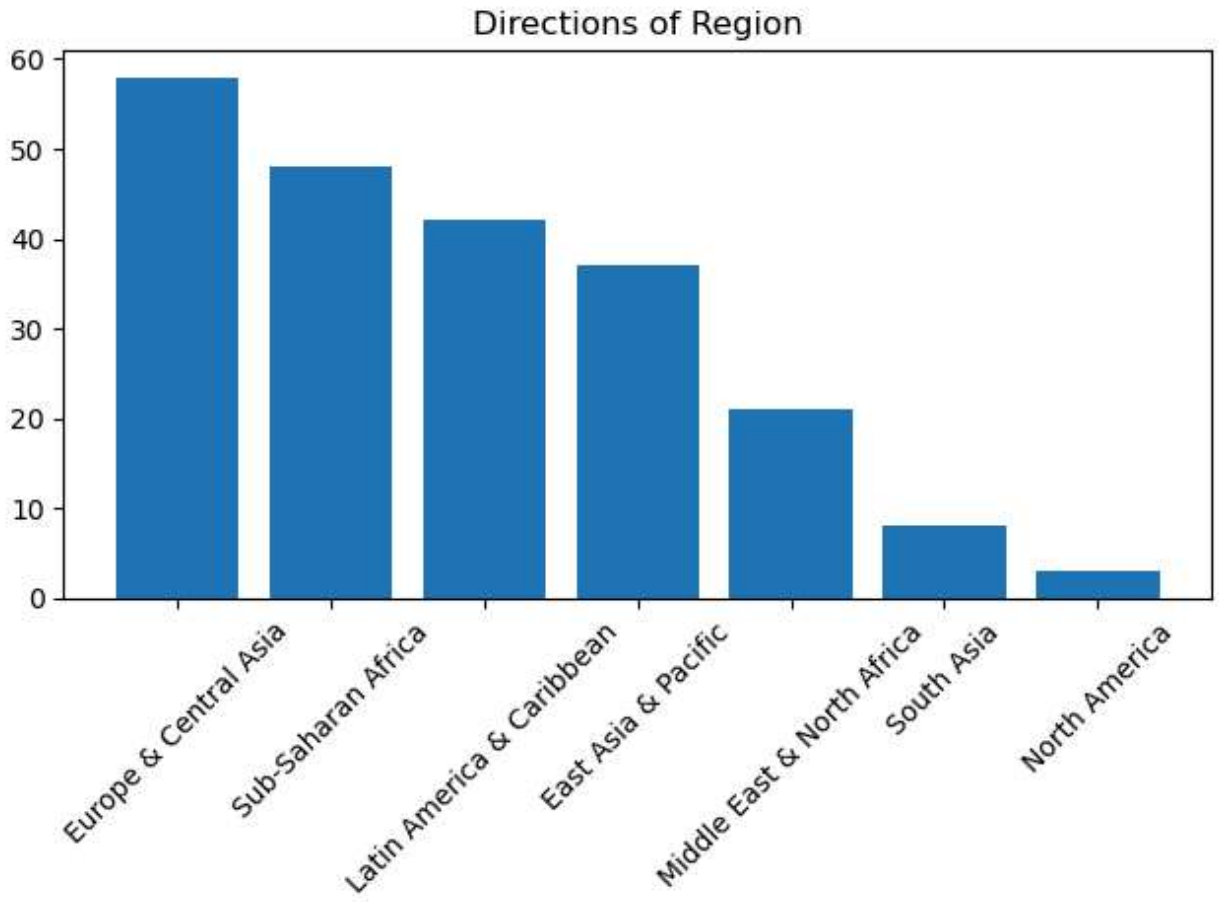
In [101…

```
gender_counts = df['Region'].value_counts()
bar_width = 0.0
x=range(len(gender_counts.index))

plt.bar(gender_counts.index,gender_counts.values)

plt.title('Directions of Region')

plt.xticks(x,gender_counts.index,rotation=45)
plt.tight_layout()
plt.show()
```



In [102…
```
df.shape
```

Out[102]:
```
(265, 6)
```

In [103…
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 6 columns):
 #   Column        Non-Null Count  Dtype  
---  ------        --------------  -----  
 0   Country Code  265 non-null    object 
 1   Region        217 non-null    object 
 2   IncomeGroup   216 non-null    object 
 3   SpecialNotes  126 non-null    object 
 4   TableName     265 non-null    object 
 5   Unnamed: 5    0 non-null      float64
dtypes: float64(1), object(5)
memory usage: 12.6+ KB
```

In [104…
```
df.describe()
```

Out[104]:

	Unnamed: 5
count	0.0
mean	NaN
std	NaN
min	NaN
25%	NaN
50%	NaN
75%	NaN
max	NaN

In [105…
```
df.isnull().sum()
```

Out[105]:
```
Country Code      0
Region           48
IncomeGroup      49
SpecialNotes    139
TableName         0
Unnamed: 5      265
dtype: int64
```

In [106…
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 6 columns):
 #   Column        Non-Null Count  Dtype  
---  ------        --------------  -----  
 0   Country Code  265 non-null    object 
 1   Region        217 non-null    object 
 2   IncomeGroup   216 non-null    object 
 3   SpecialNotes  126 non-null    object 
 4   TableName     265 non-null    object 
 5   Unnamed: 5    0 non-null      float64
dtypes: float64(1), object(5)
memory usage: 12.6+ KB
```

In [ ]: