In [5]:
```
#Libraries
import numpy as np
# numpy is aliased as np
import pandas as pd
# pandas is aliased as pd
import matplotlib.pyplot as plt
# pyplot is aliased as plt
import seaborn as sns
# seaborn is aliased as sns

#dataset
df = pd.read_csv("F:\Internships\ProdigyInfotech\world bank.csv")
df
```

Out[5]:

	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599
...	...	...	...	...	...	...	...	
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0	1022
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177

266 rows × 67 columns

In [6]:
```
#first 5 rows
df.head()

#last 5 rows
df.tail()

#dimensions of data
df.shape

#showing rows
df.columns

#check for data types
df.dtypes

#info. of data
df.info()

#descriptive statistics
df.describe()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 266 entries, 0 to 265
Data columns (total 67 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Country Name    266 non-null    object
 1   Country Code    266 non-null    object
 2   Indicator Name  266 non-null    object
 3   Indicator Code  266 non-null    object
 4   1960            264 non-null    float64
 5   1961            264 non-null    float64
 6   1962            264 non-null    float64
 7   1963            264 non-null    float64
 8   1964            264 non-null    float64
 9   1965            264 non-null    float64
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 12  1968            264 non-null    float64
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 51  2007            265 non-null    float64
 52  2008            265 non-null    float64
 53  2009            265 non-null    float64
```

```
 54  2010            265 non-null    float64
 55  2011            265 non-null    float64
 56  2012            265 non-null    float64
 57  2013            265 non-null    float64
 58  2014            265 non-null    float64
 59  2015            265 non-null    float64
 60  2016            265 non-null    float64
 61  2017            265 non-null    float64
 62  2018            265 non-null    float64
 63  2019            265 non-null    float64
 64  2020            265 non-null    float64
 65  2021            265 non-null    float64
 66  2022            265 non-null    float64
dtypes: float64(63), object(4)
memory usage: 139.4+ KB
```

Out[6]:

	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	2.64(
mean	1.172712e+08	1.188807e+08	1.210511e+08	1.237333e+08	1.264378e+08	1.291813e+08	1.32(
std	3.695439e+08	3.740897e+08	3.808061e+08	3.895039e+08	3.982439e+08	4.071153e+08	4.16⁴
min	2.646000e+03	2.888000e+03	3.171000e+03	3.481000e+03	3.811000e+03	4.161000e+03	4.53⁷
25%	5.132212e+05	5.231345e+05	5.337595e+05	5.449288e+05	5.566630e+05	5.651150e+05	5.69⁷
50%	3.757486e+06	3.887144e+06	4.023896e+06	4.139356e+06	4.224612e+06	4.277636e+06	4.33⁷
75%	2.670606e+07	2.748694e+07	2.830289e+07	2.914708e+07	3.001684e+07	3.084892e+07	3.16³
max	3.031474e+09	3.072422e+09	3.126850e+09	3.193429e+09	3.260442e+09	3.328209e+09	3.39⁸

8 rows × 63 columns

In [7]:

```
##Data Preprocessing & Cleaning

#check duplicate values
df.duplicated().sum()

#check non-null values
df.isna().sum().any()
df = df.fillna(method="ffill")
df.head()

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

#checking unique values of columns
df["Country Name"].unique()
df["Country Code"].unique()
df["Indicator Name"].unique()
df["Indicator Code"].unique()

#as we can clearly see that Indicator Name & Indicator Code has only single value.
df.drop(["Indicator Name","Indicator Code","Country Code"], axis = 1, inplace = Tru

df.columns
```

Out[7]:
```
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',
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       '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '2020',
       '2021', '2022'],
      dtype='object')
```

In [8]:
```
##Data Visualization

#Plotting Hstogram from 1960 to 2022

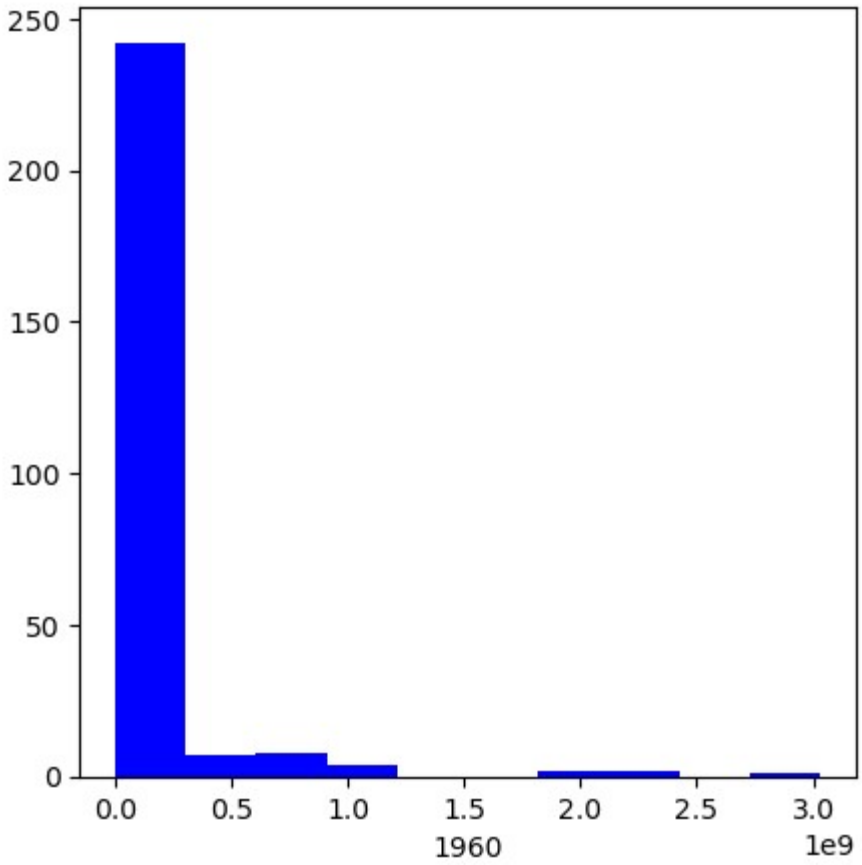
Cols = ['1960','1961','1962','1963','1964','1965','1966','1967','1968','1969','1970


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

#plotting Bar plot from 1960 to 2022
years = df.columns[1:]

##add the values of each year for all countries
Total = df[years].sum()

plt.figure(figsize=(30,30))
plt.barh(years,Total,color='yellow')
plt.xlabel("Total of the country")
plt.ylabel("Year",size=20)
plt.title("Total count per year",size=20)
plt.show()
```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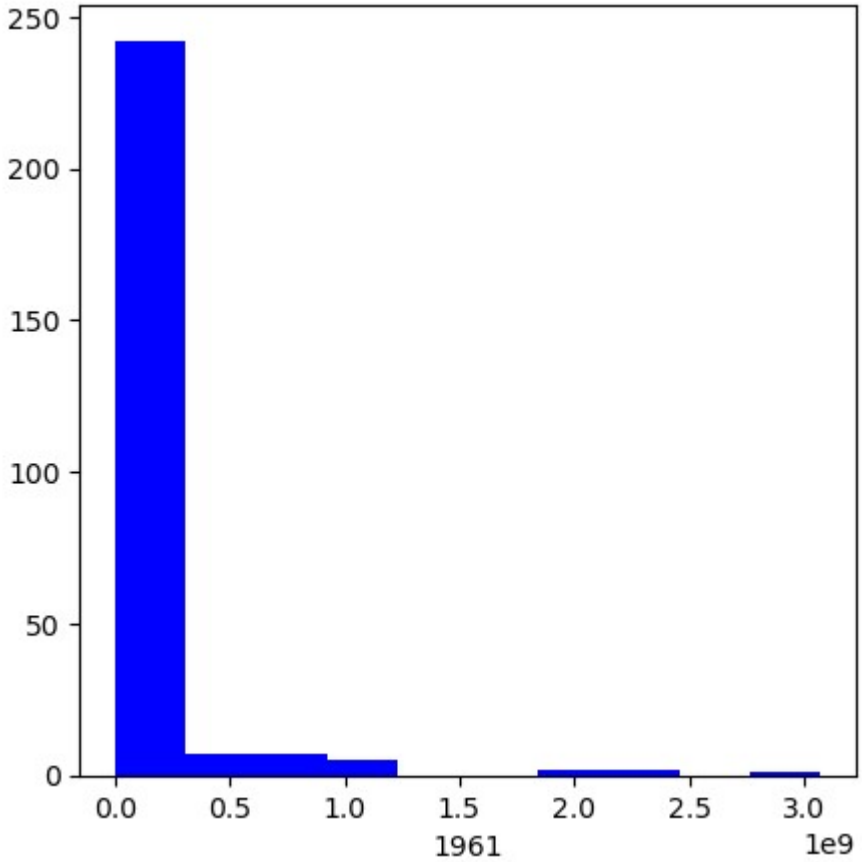
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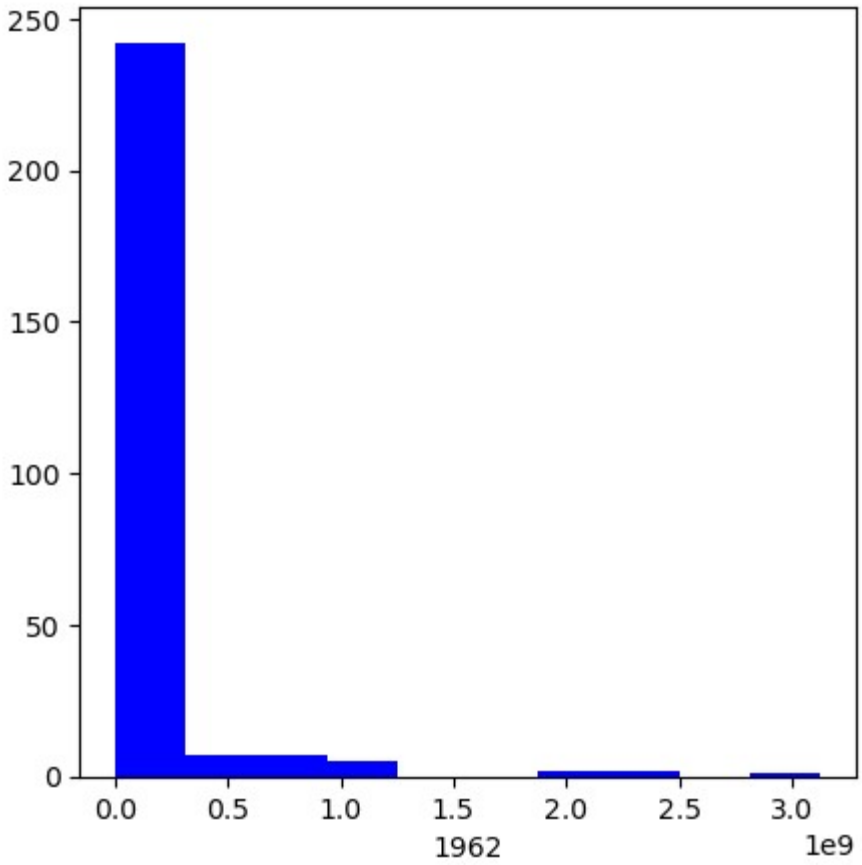
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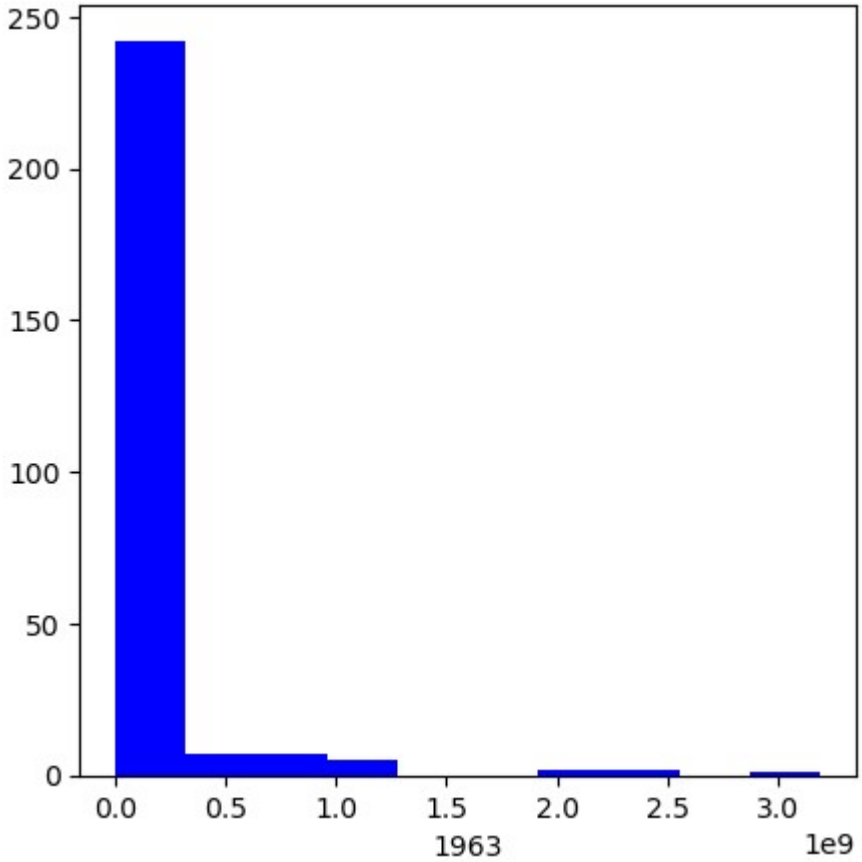
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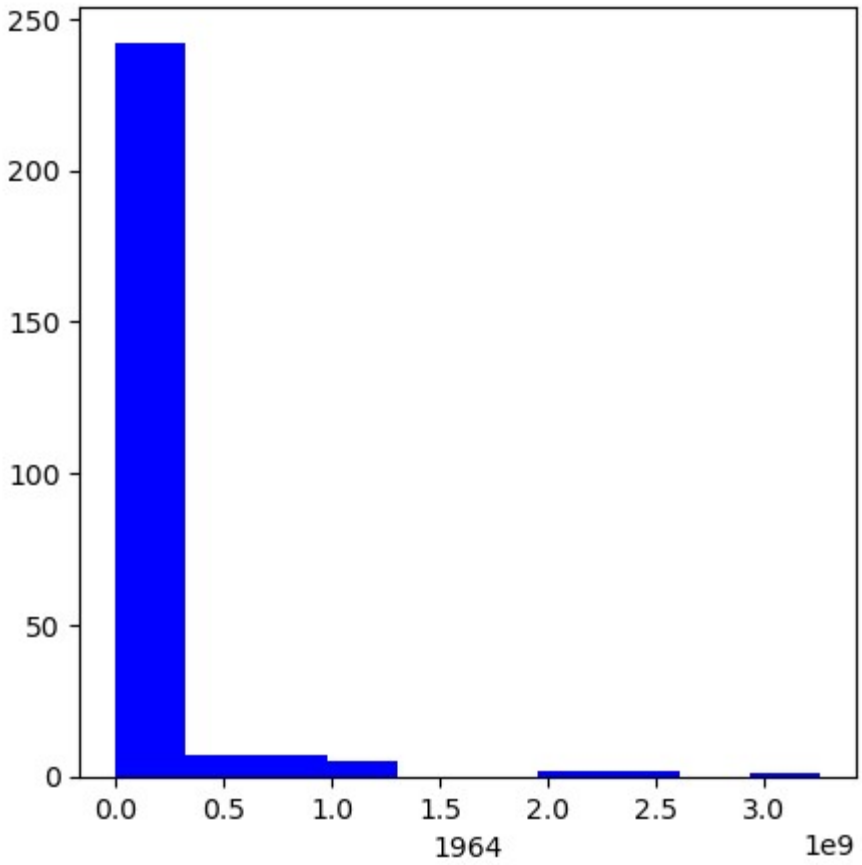
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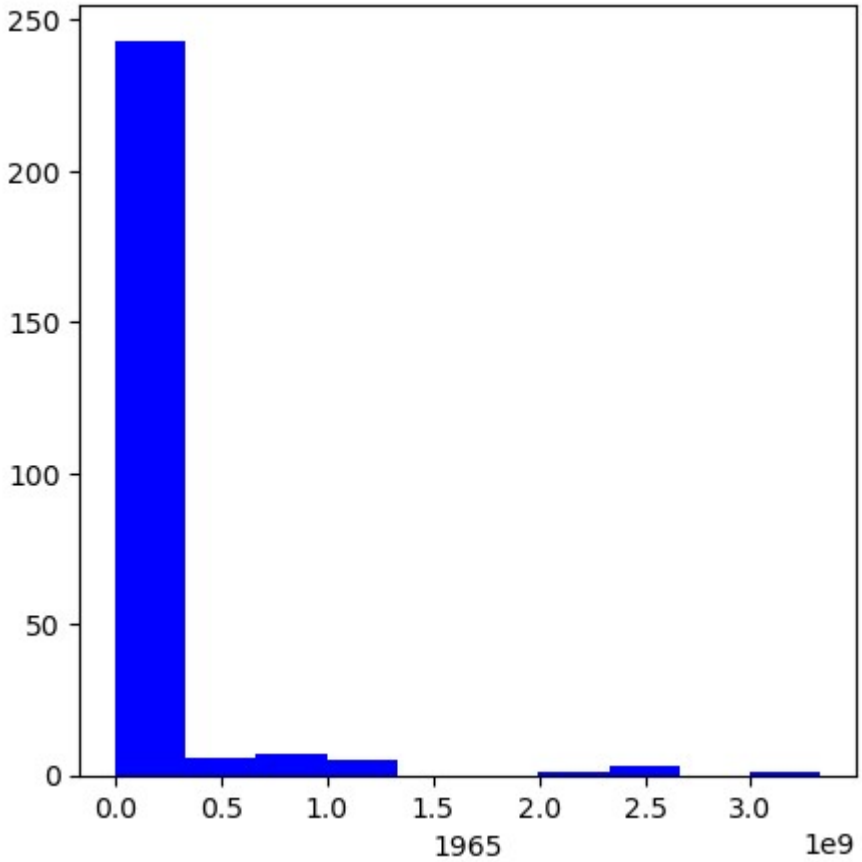
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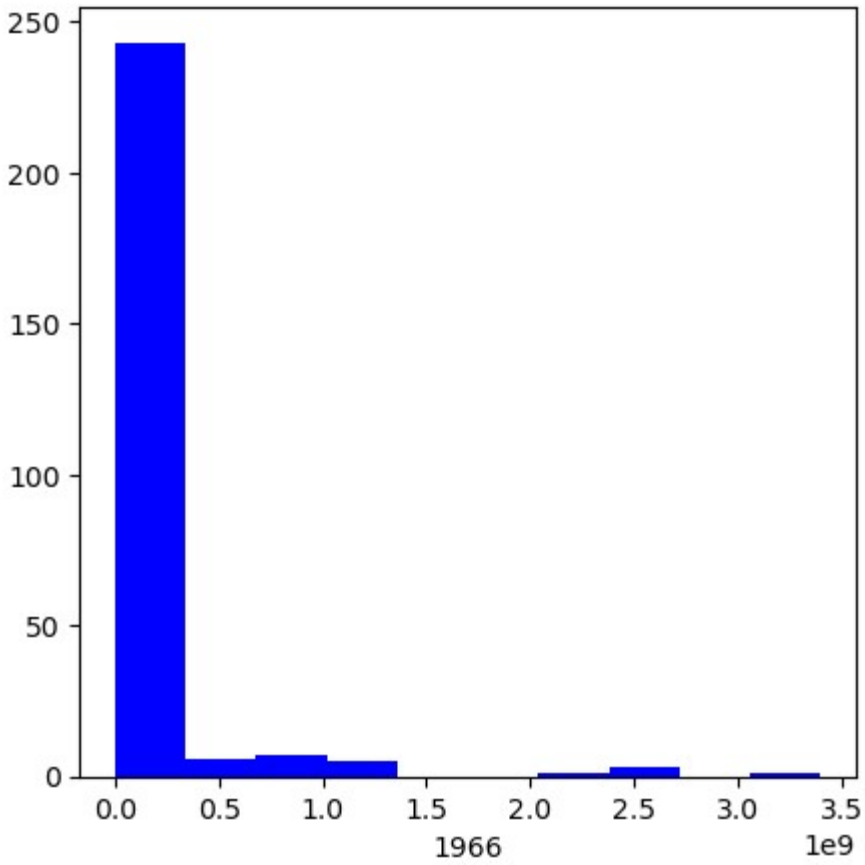
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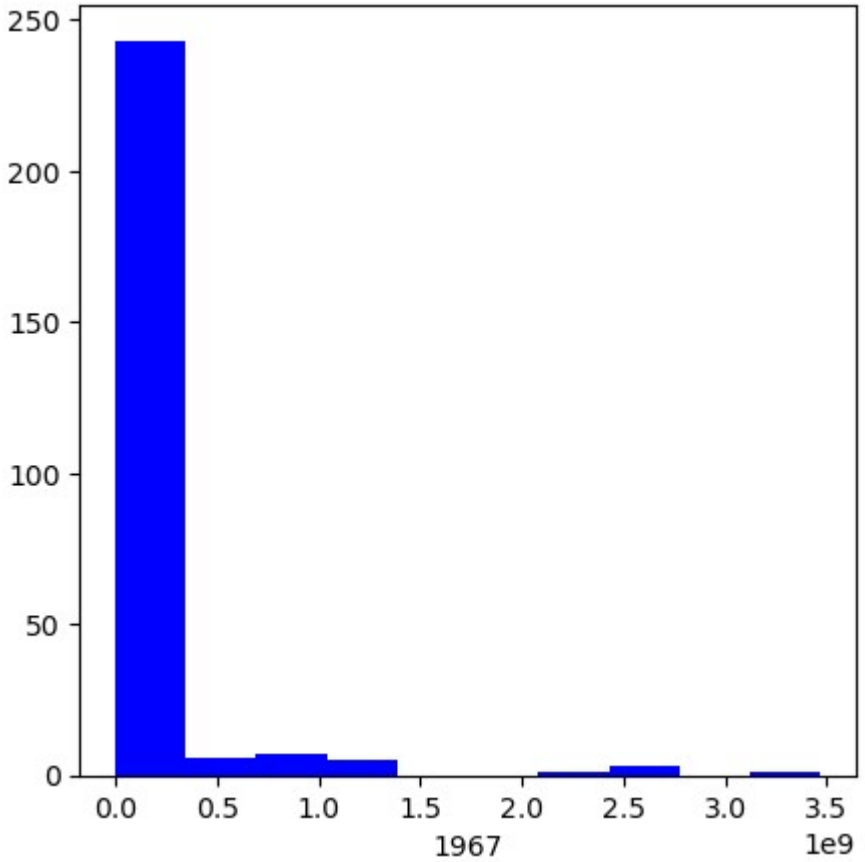
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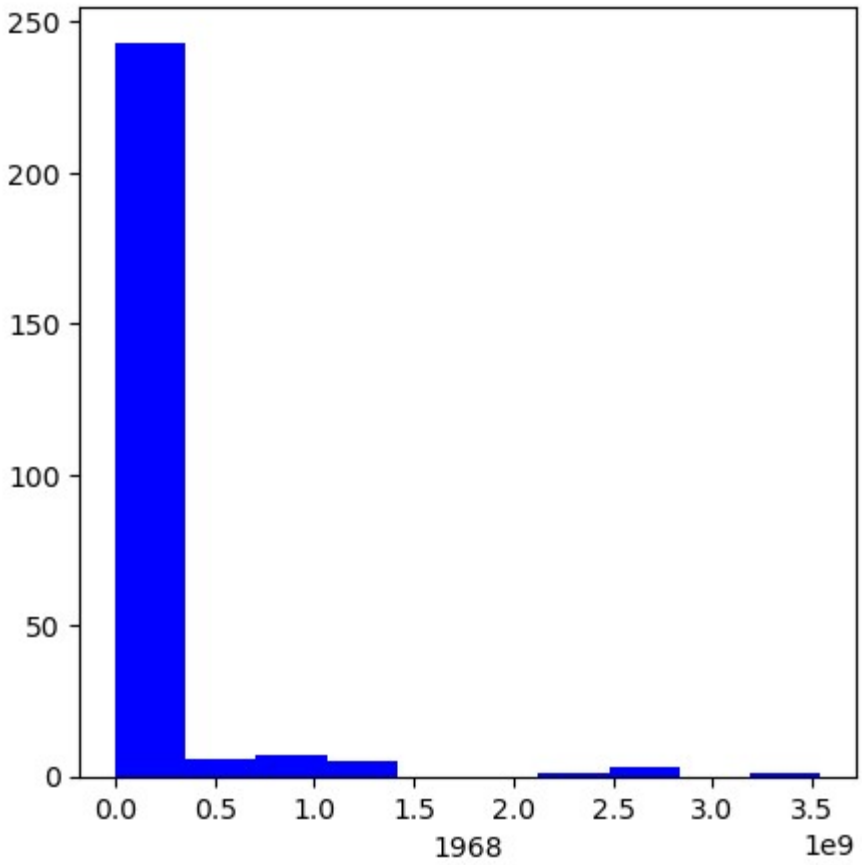
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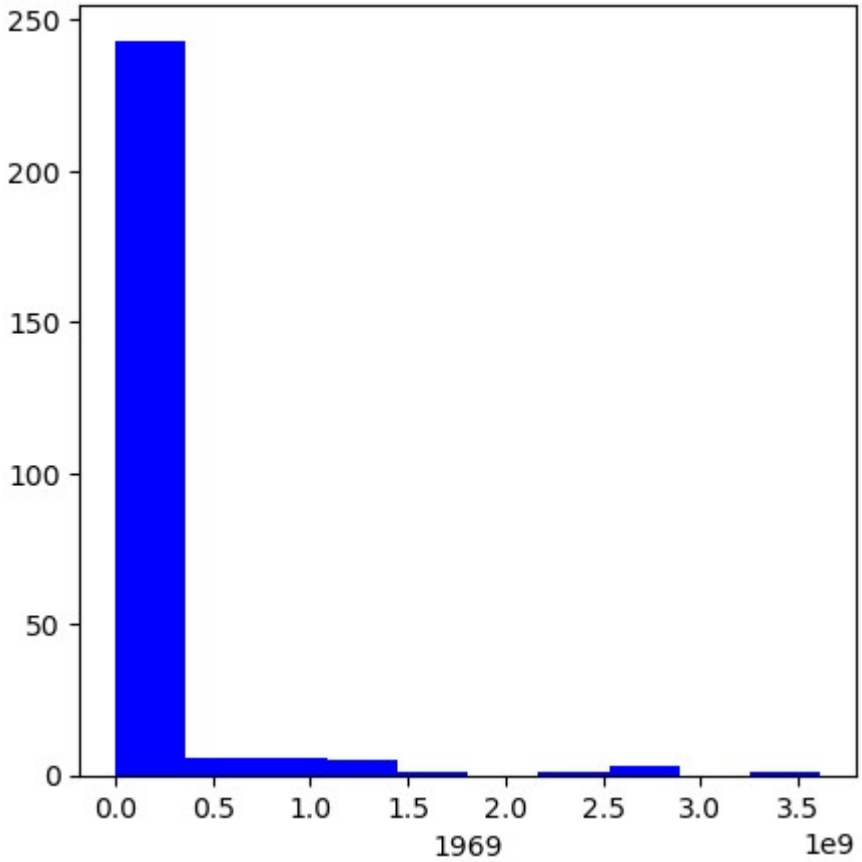
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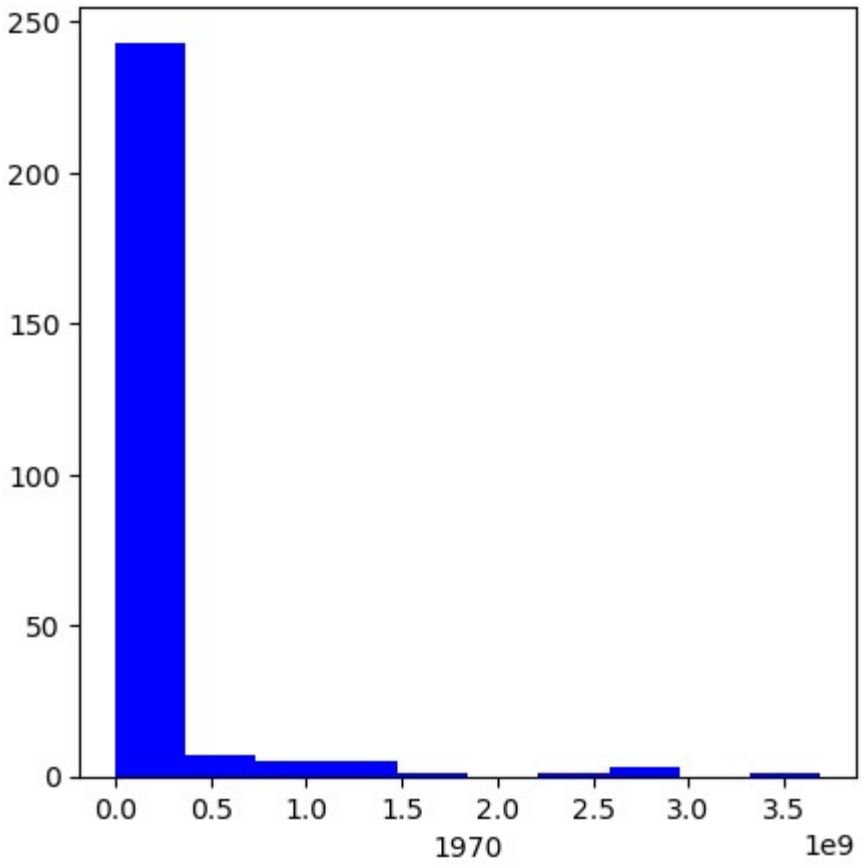
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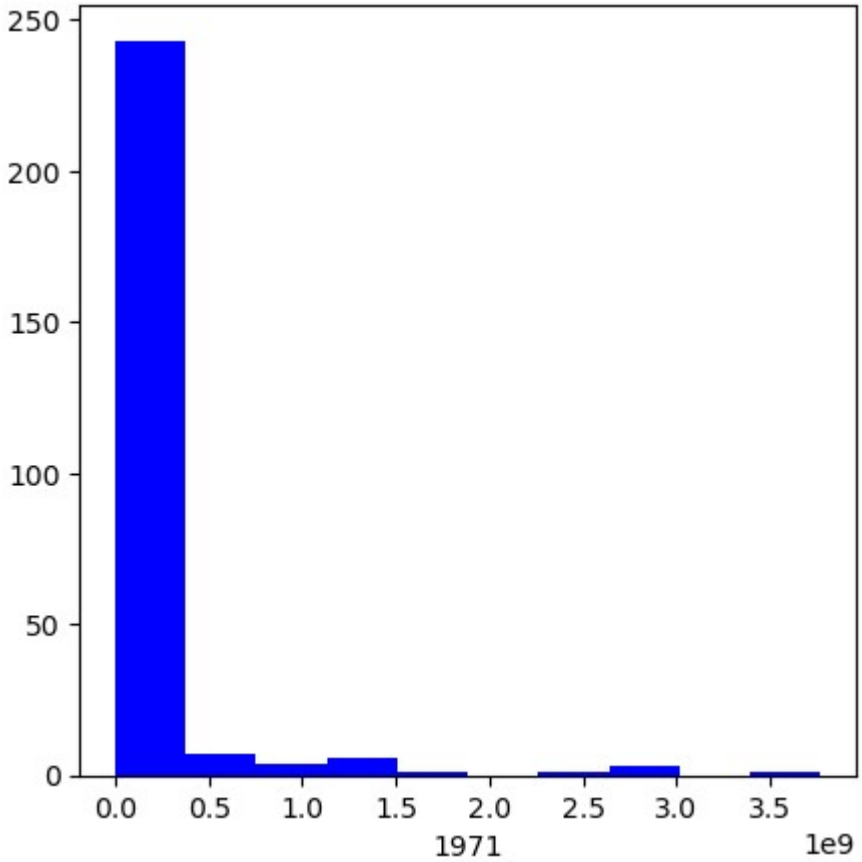
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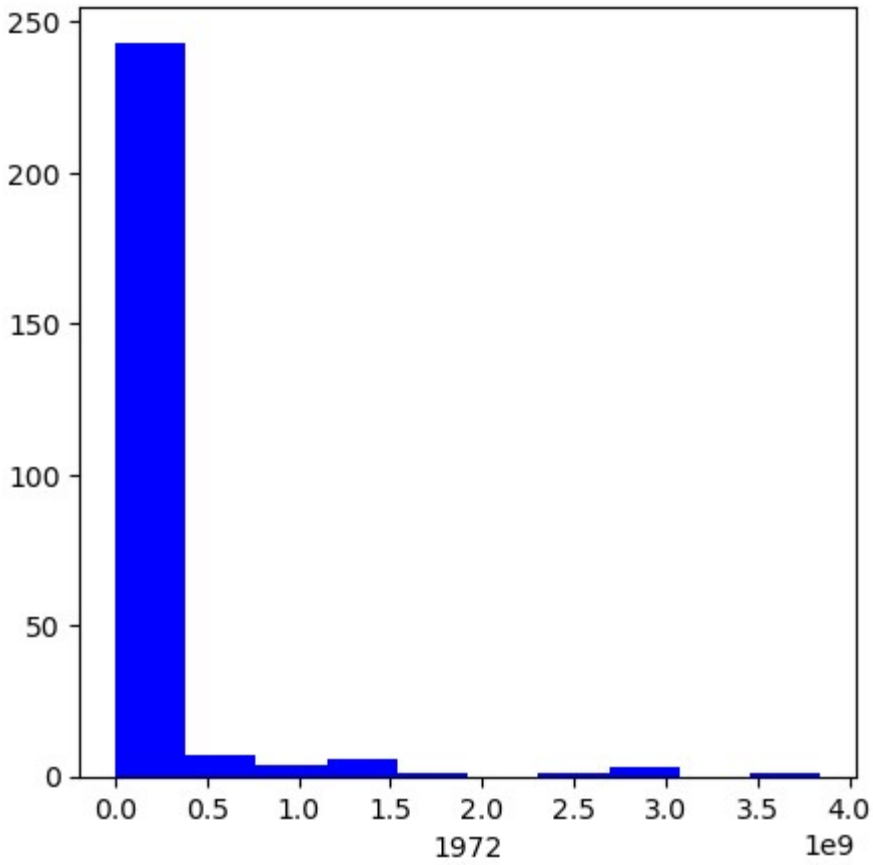
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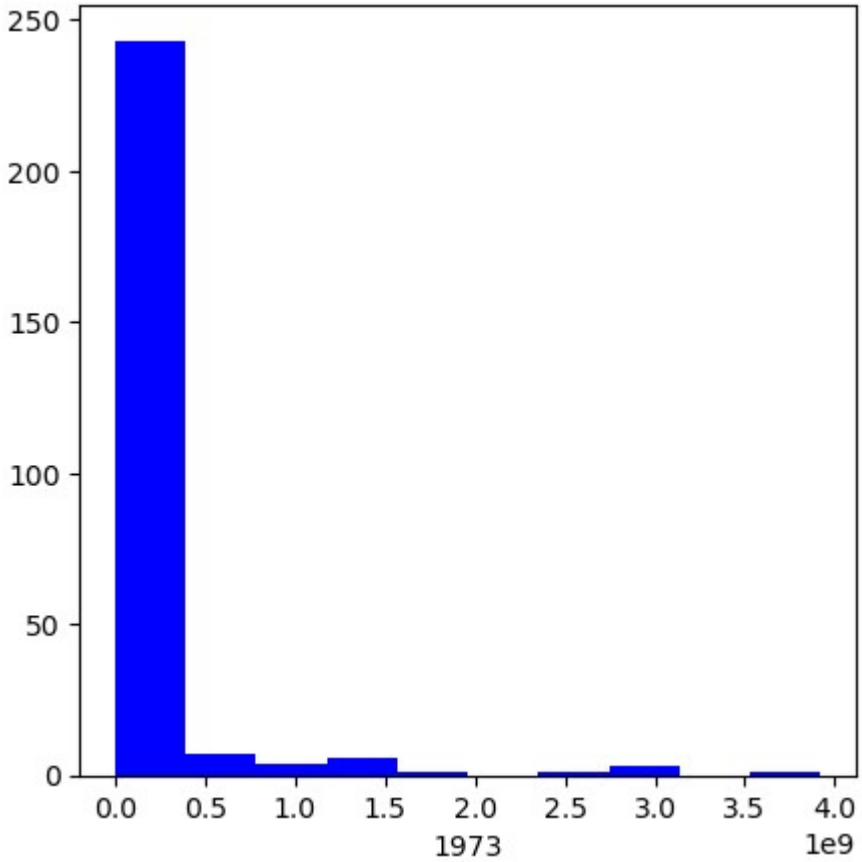
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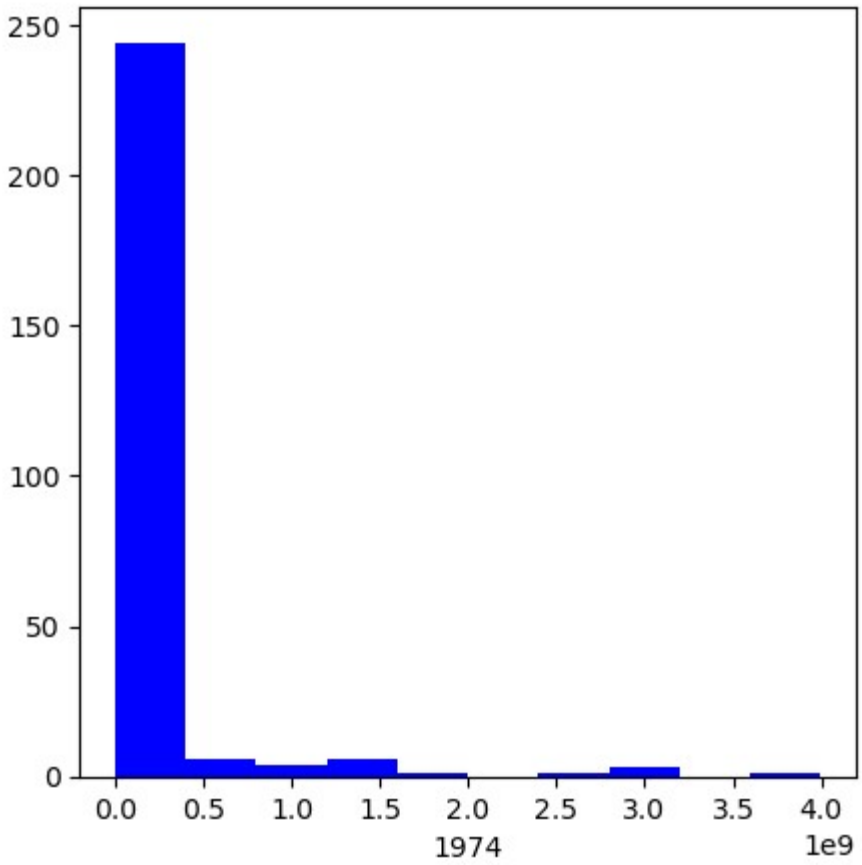
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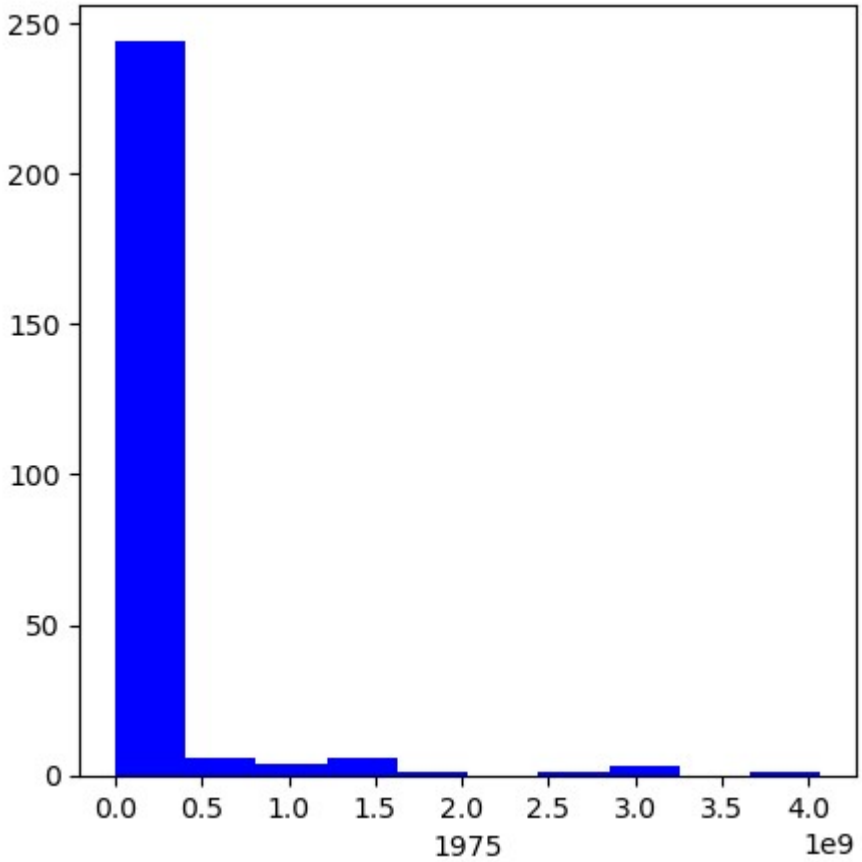
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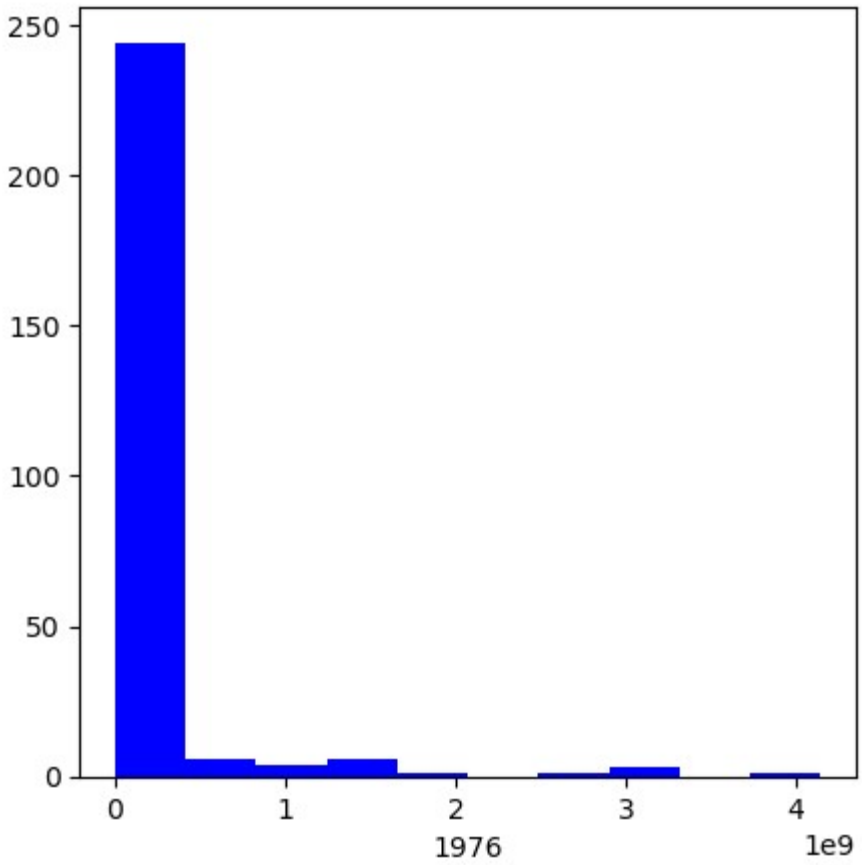
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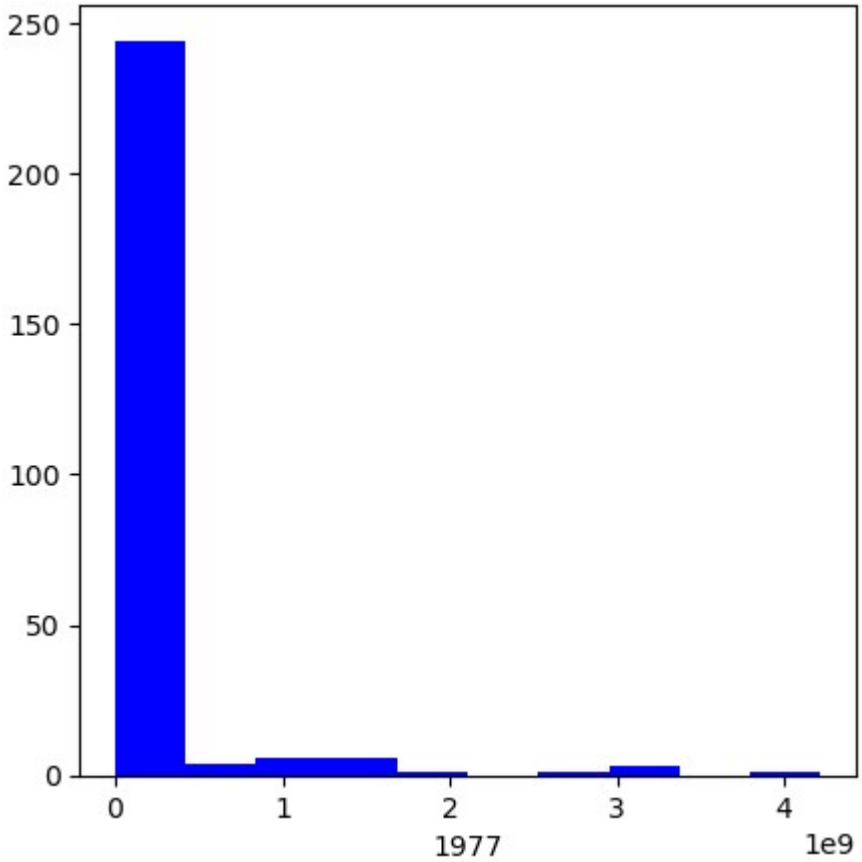
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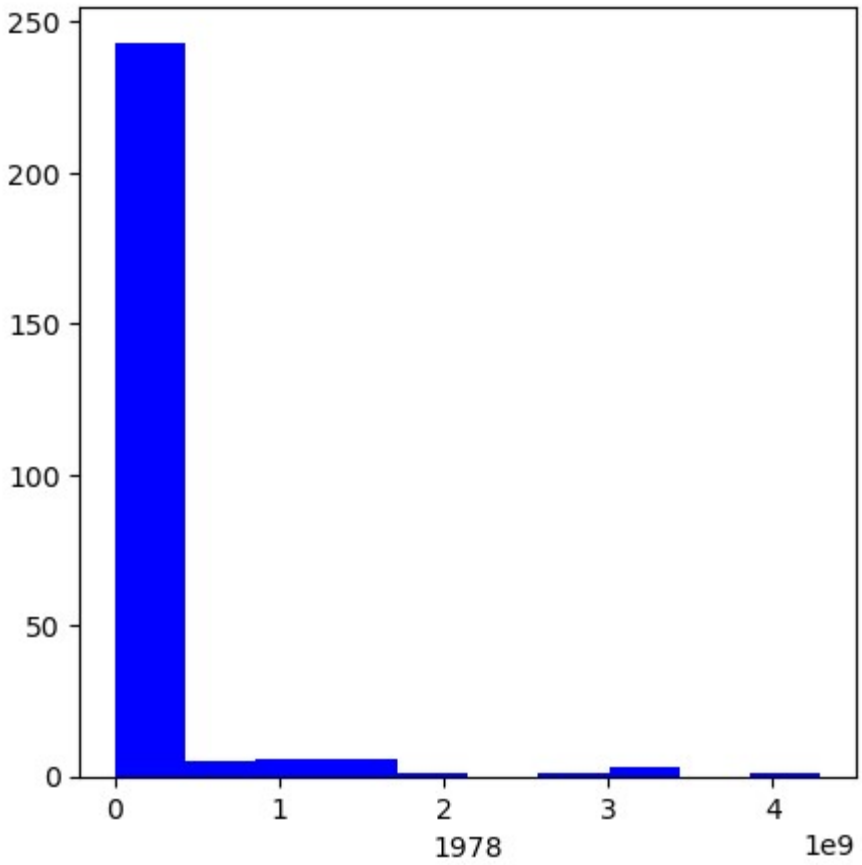
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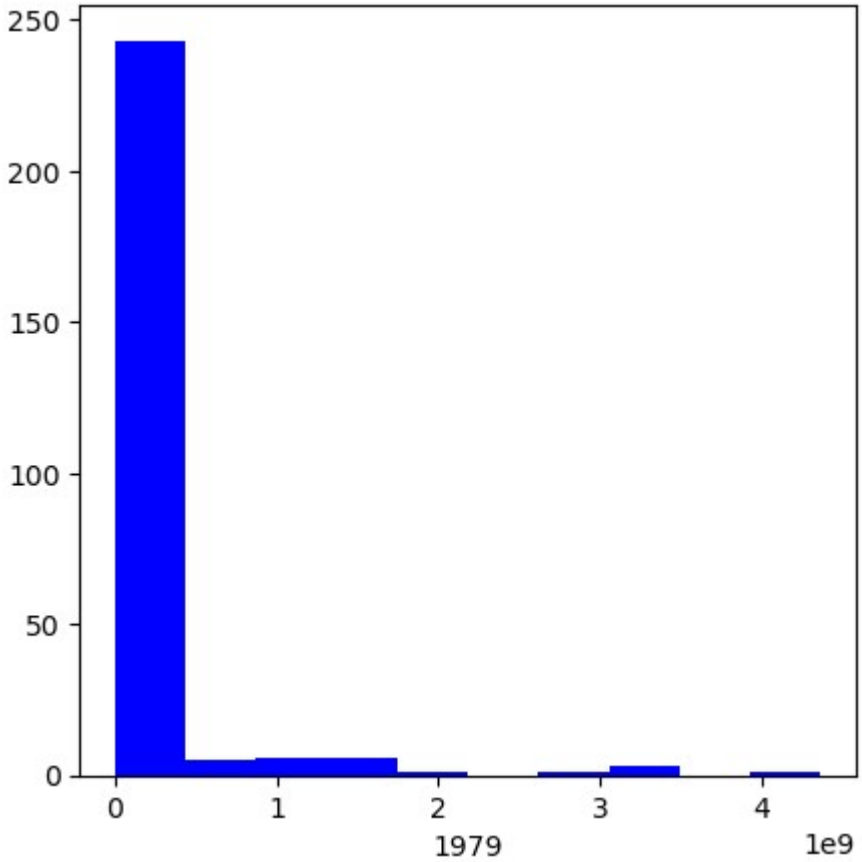
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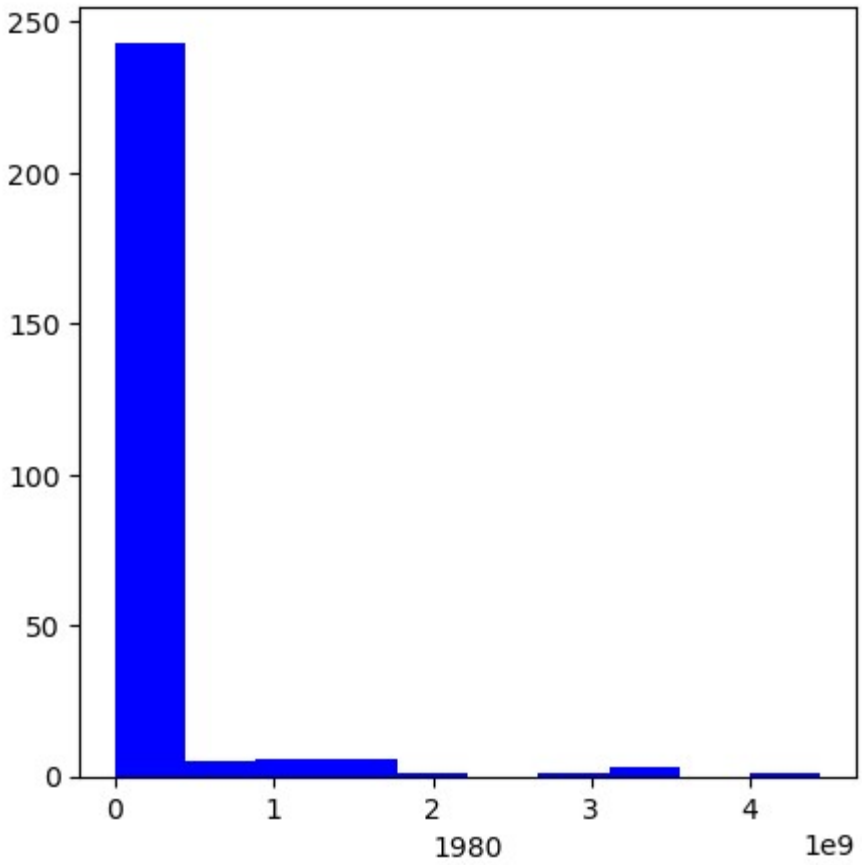
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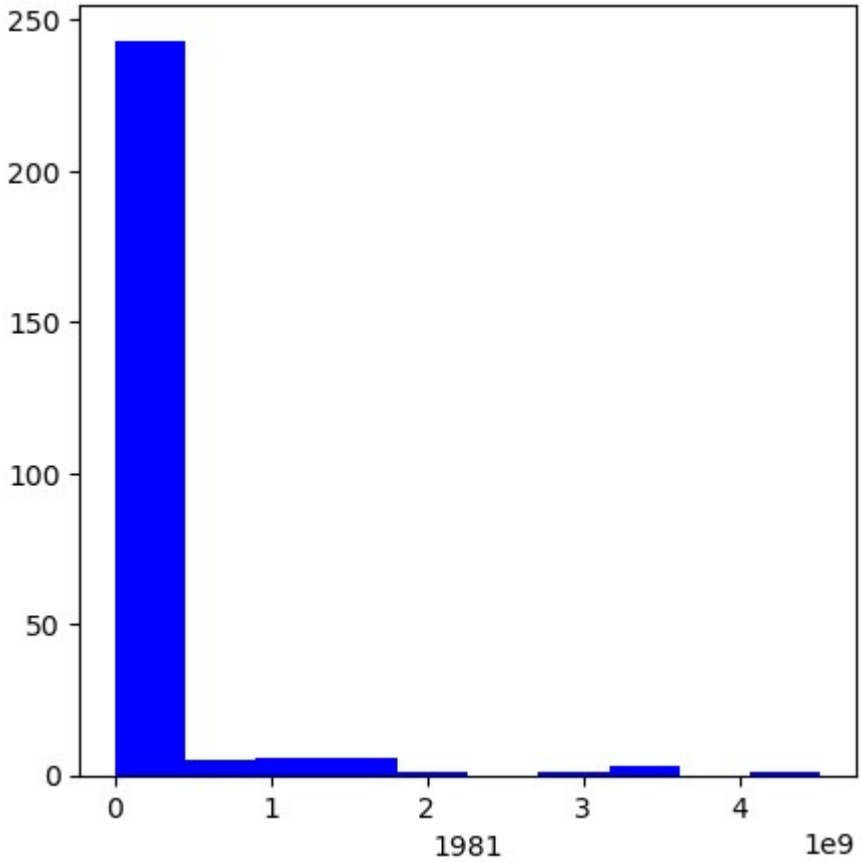
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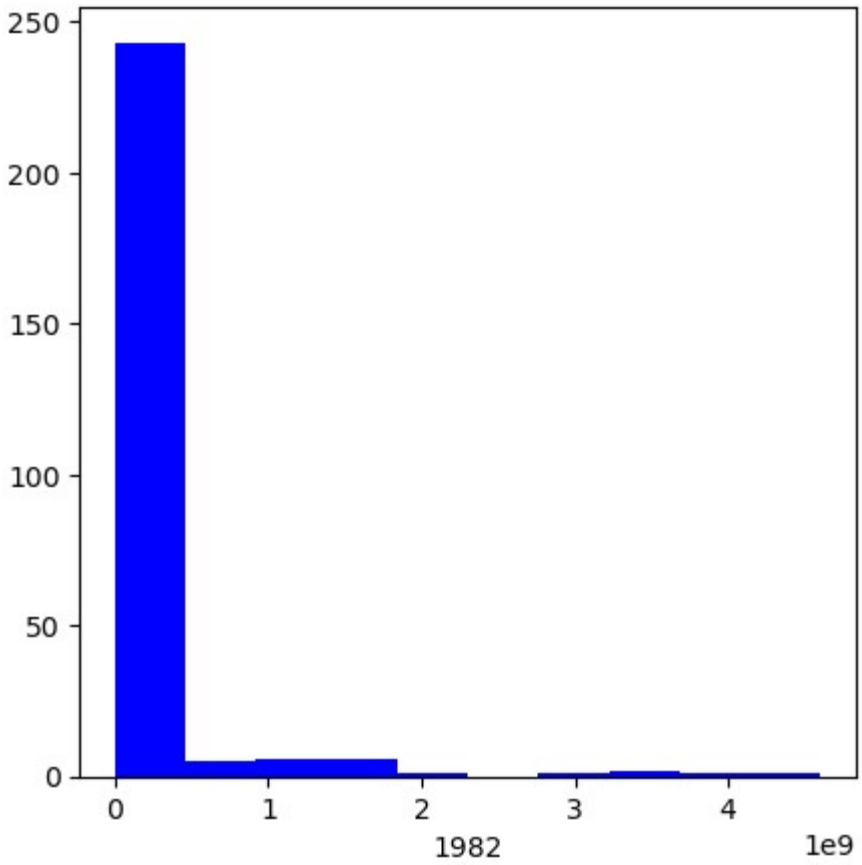
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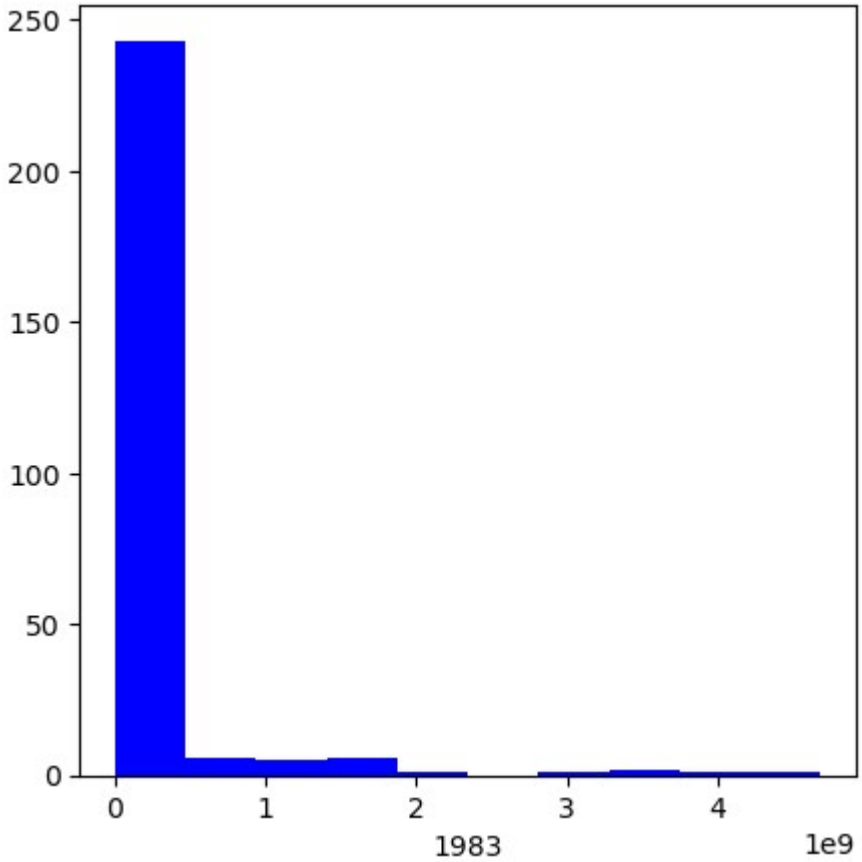
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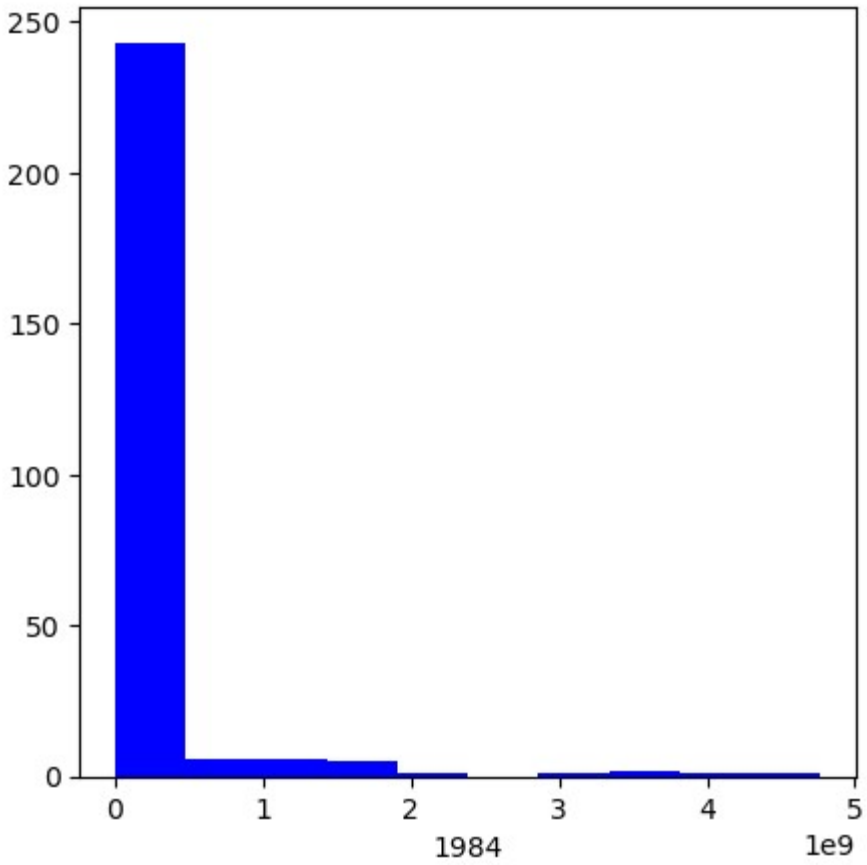
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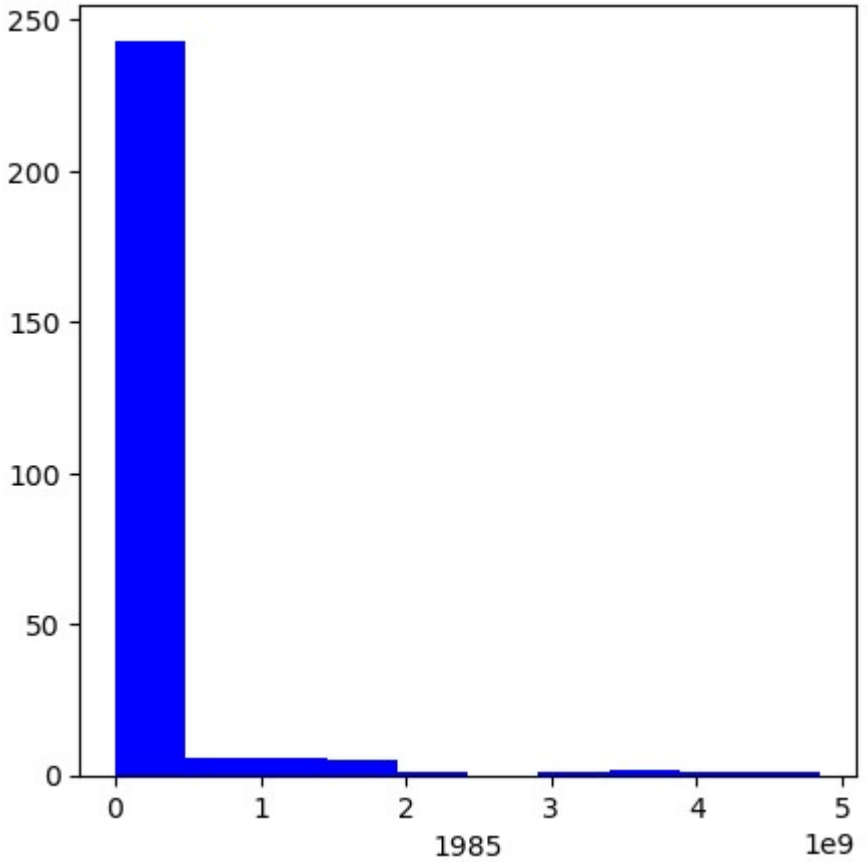
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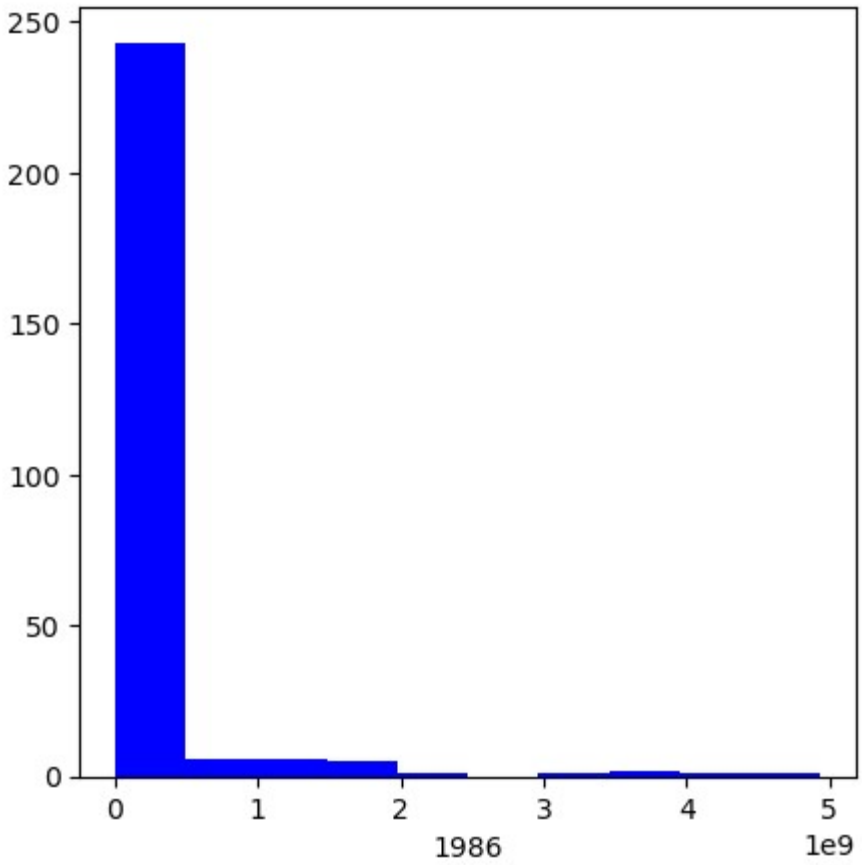
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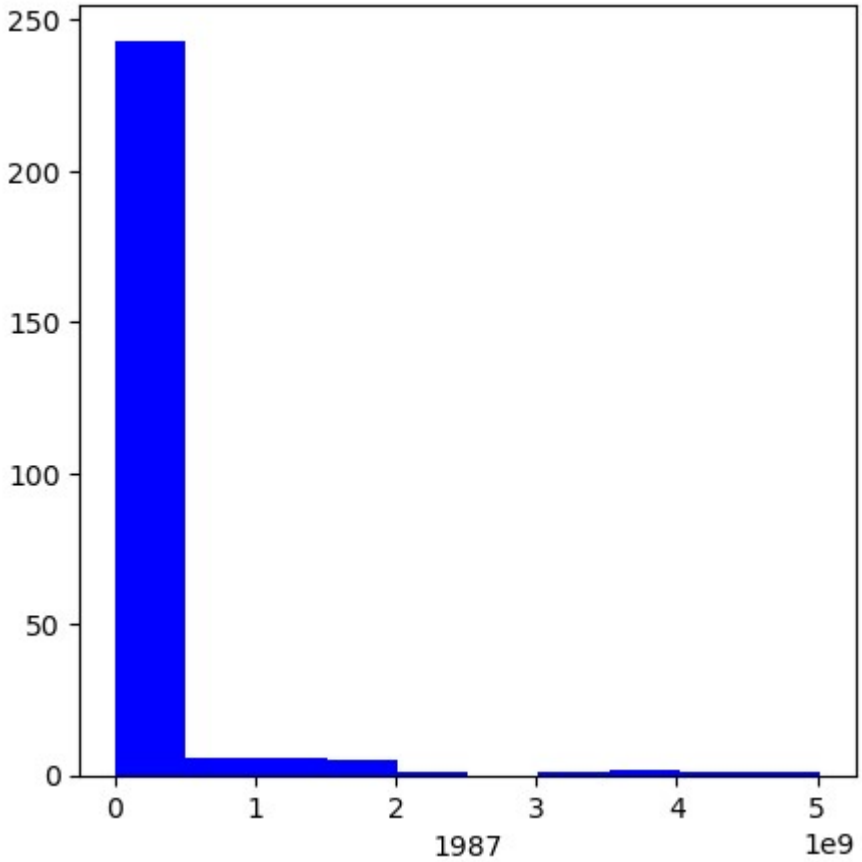
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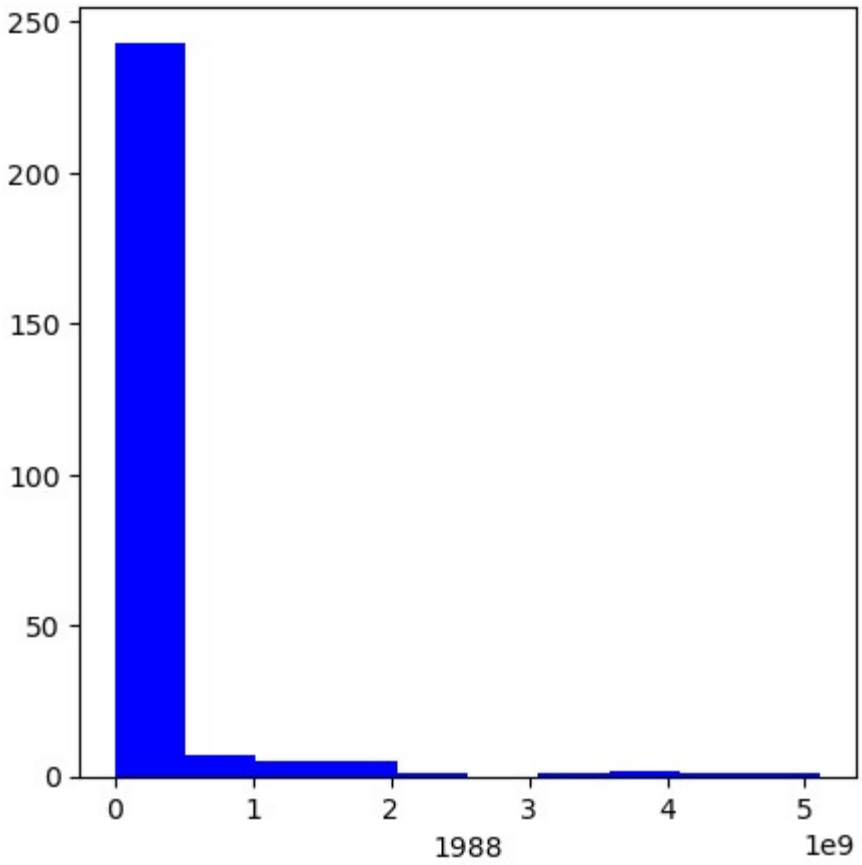
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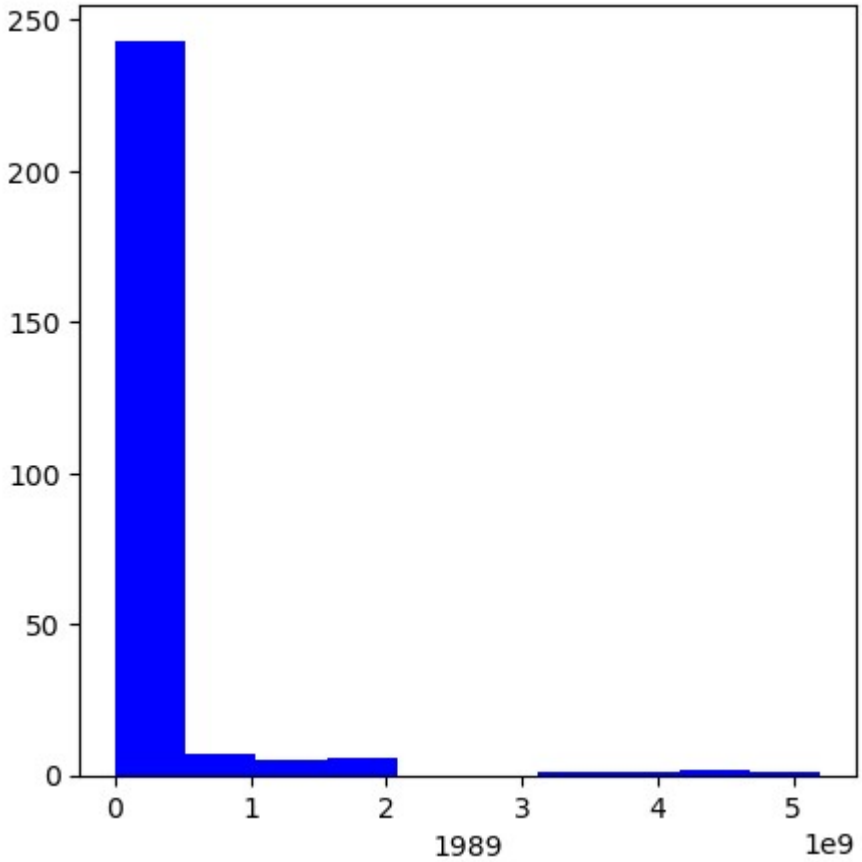
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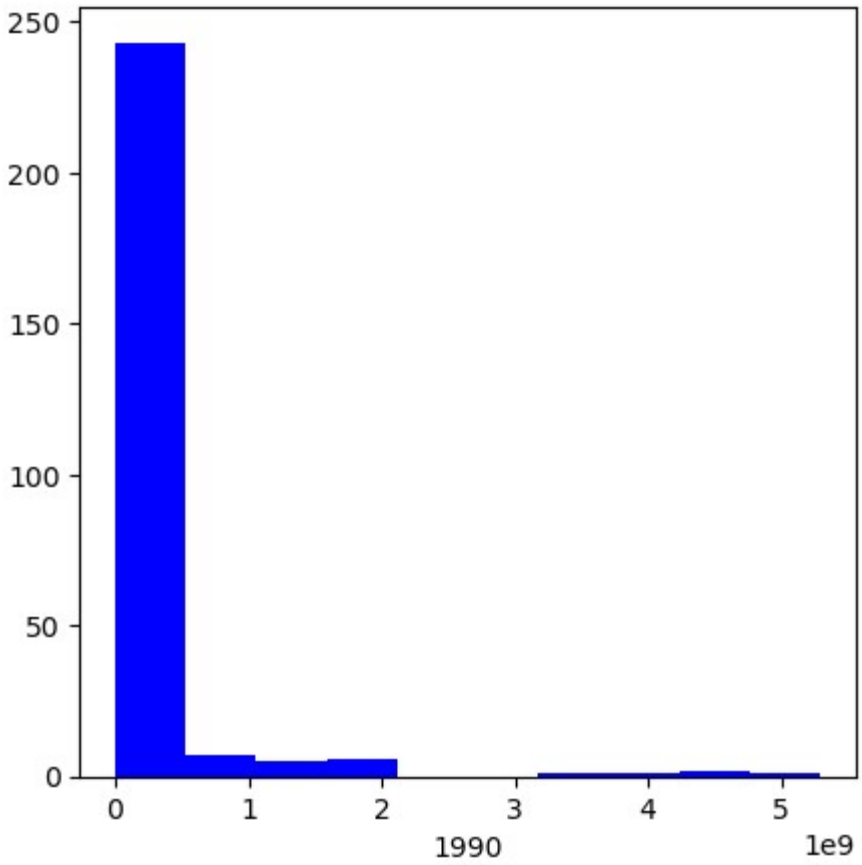
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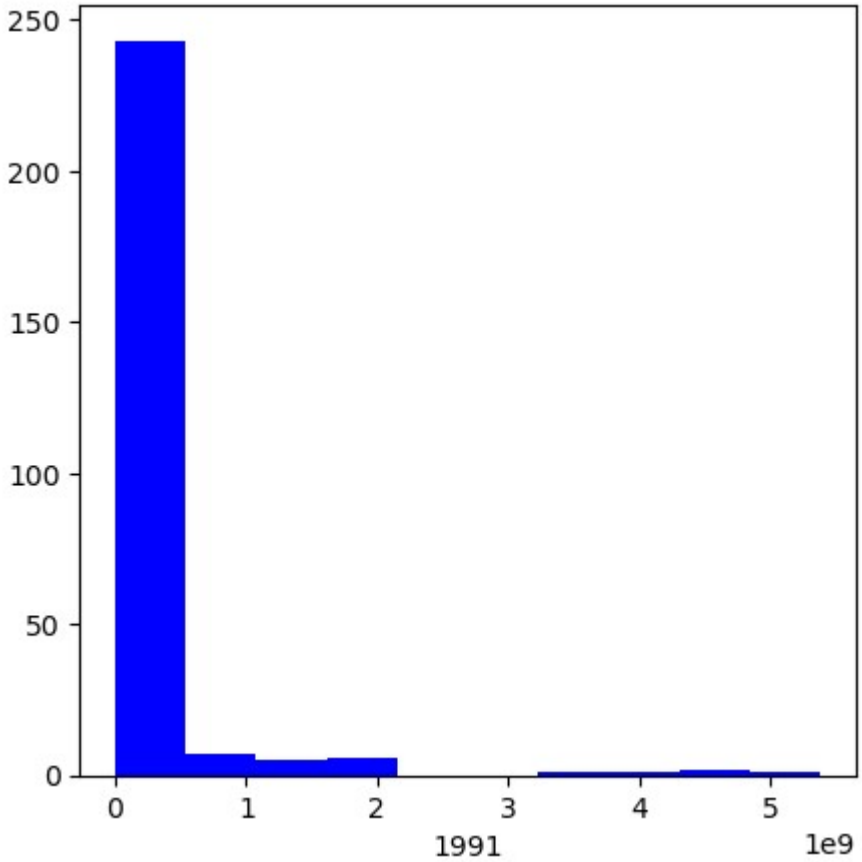
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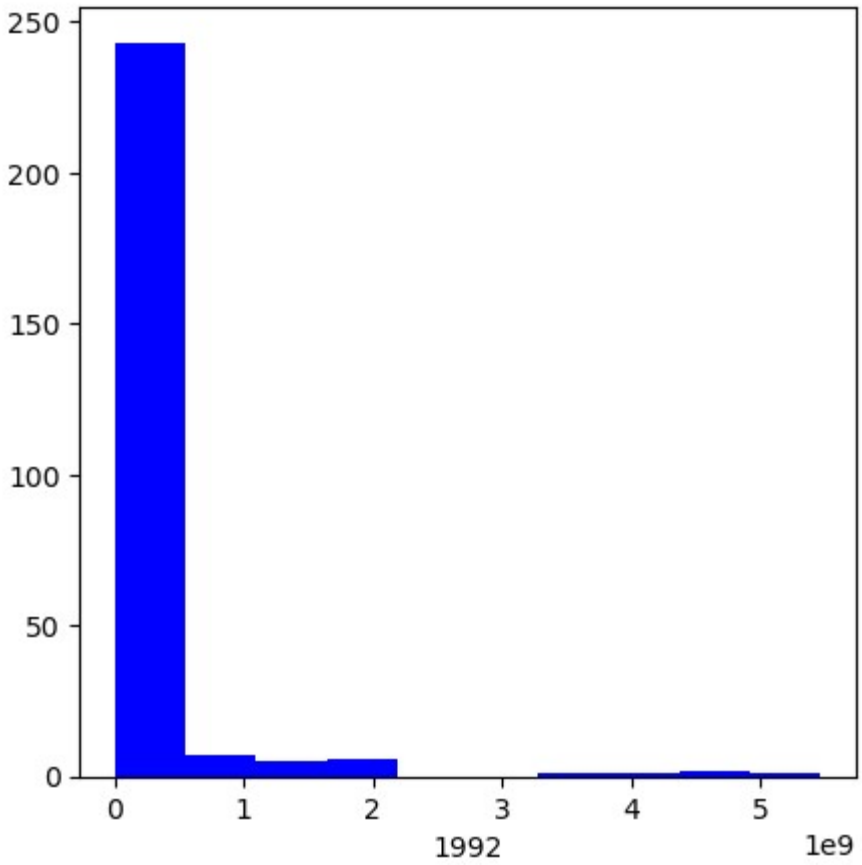
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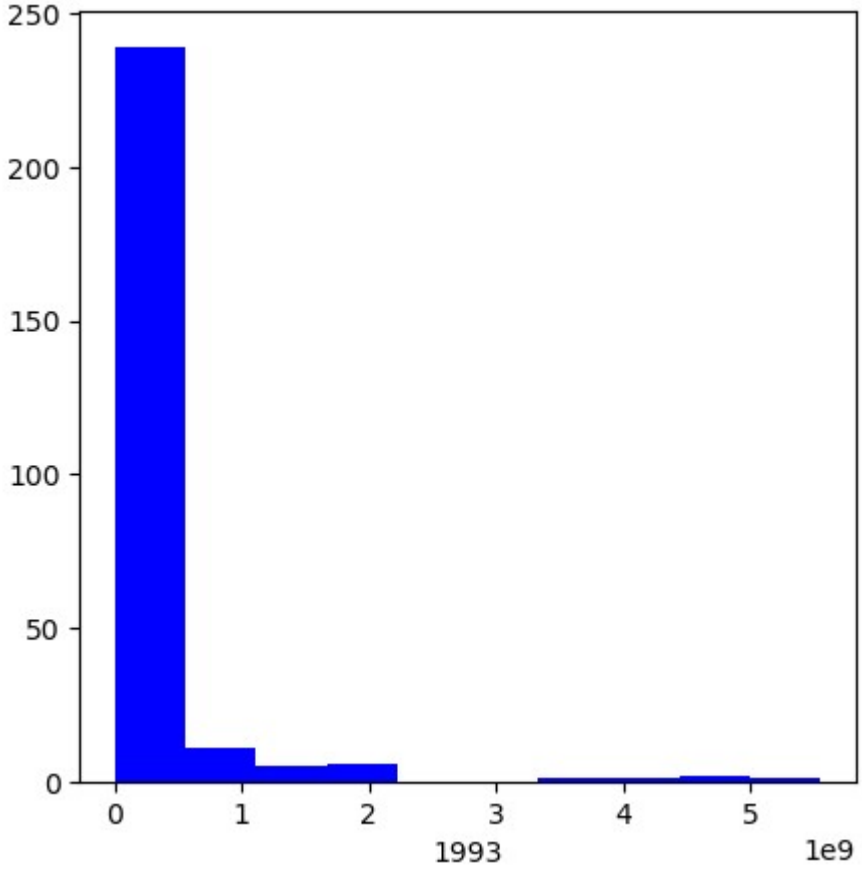
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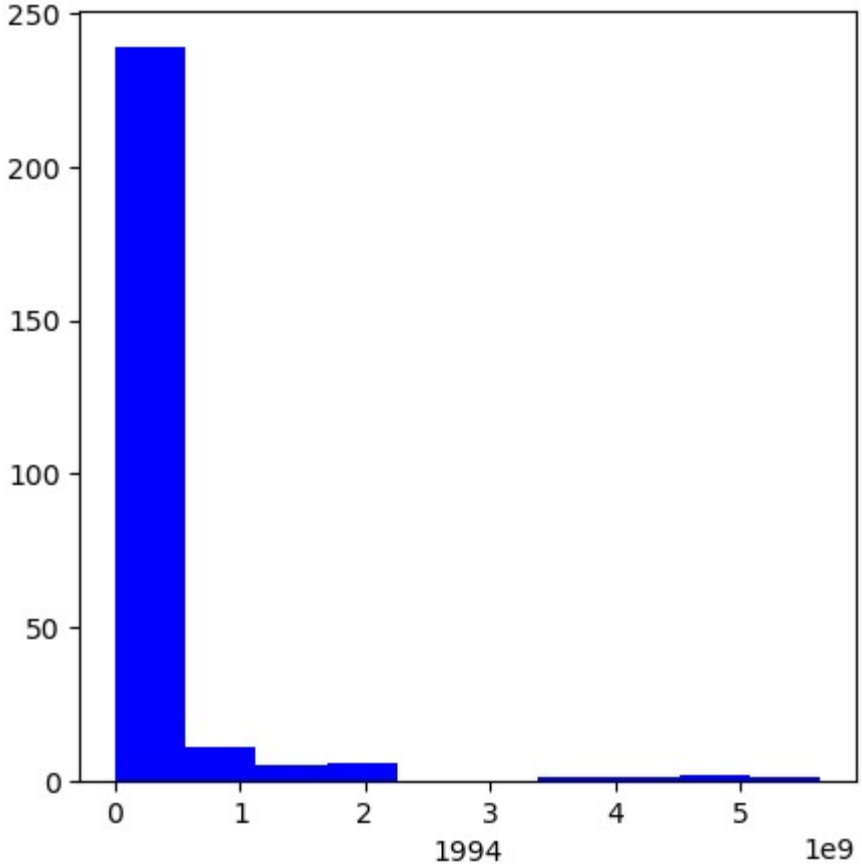
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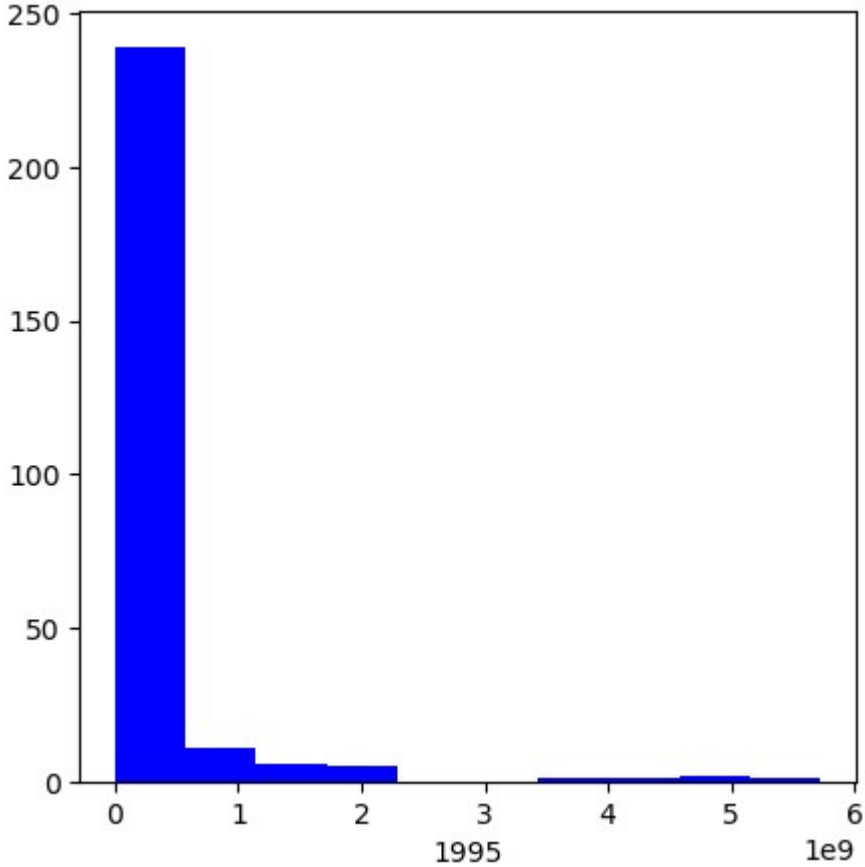
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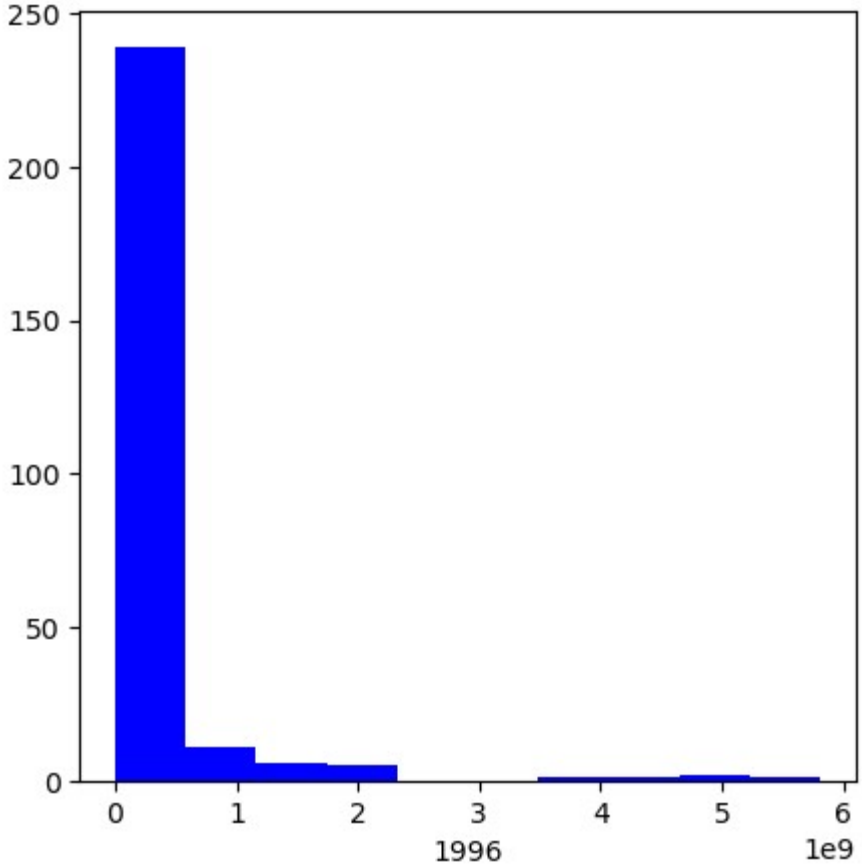
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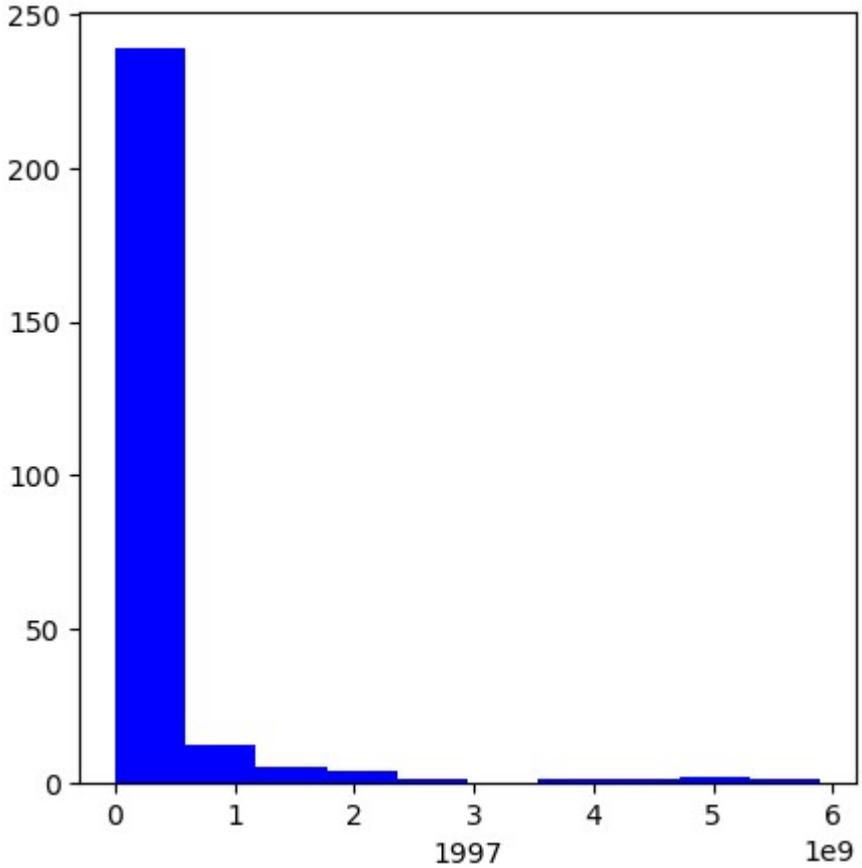
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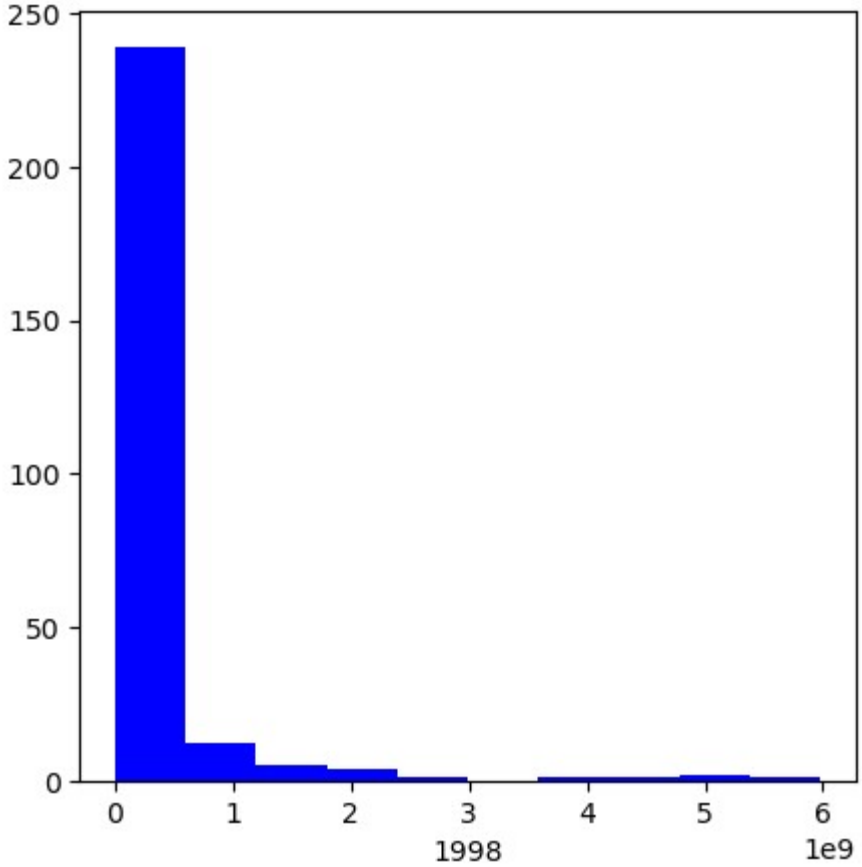
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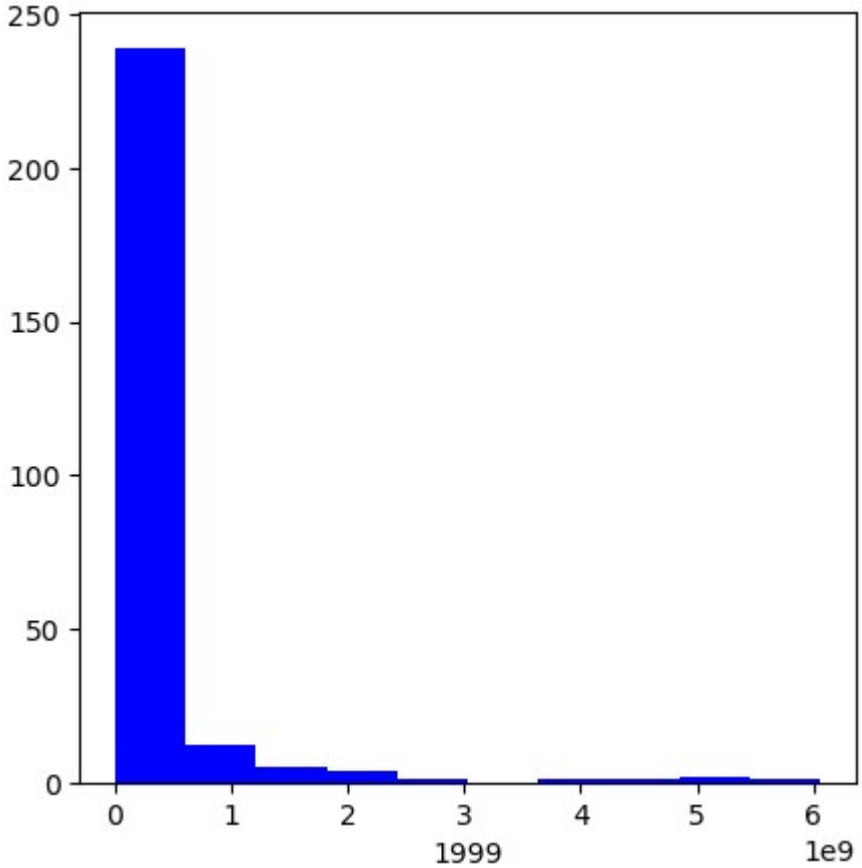
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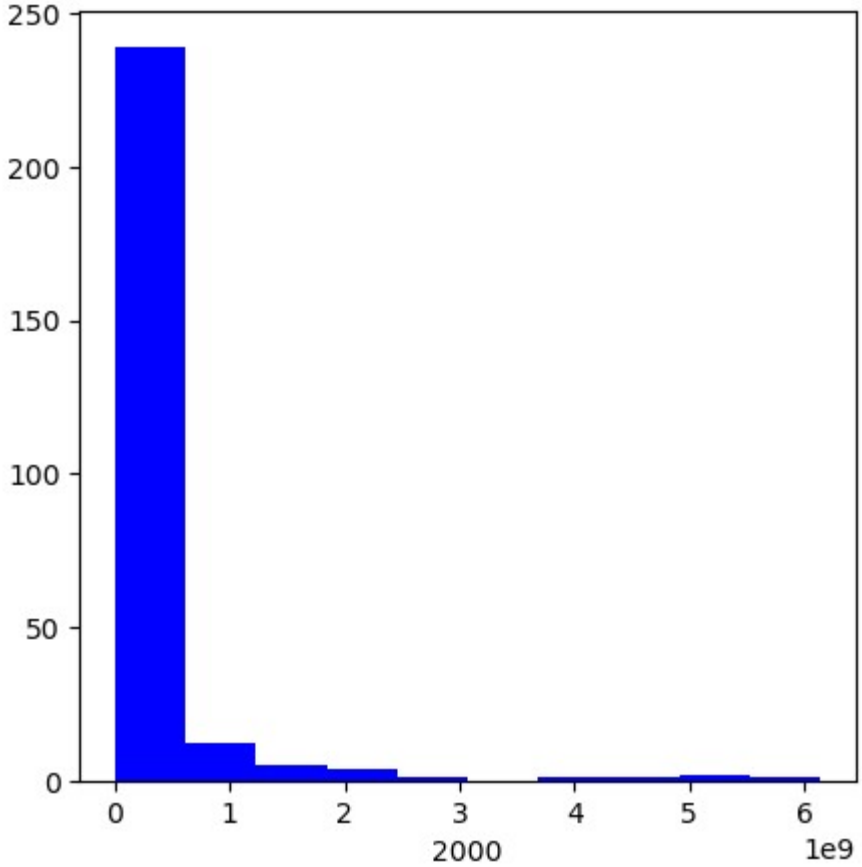
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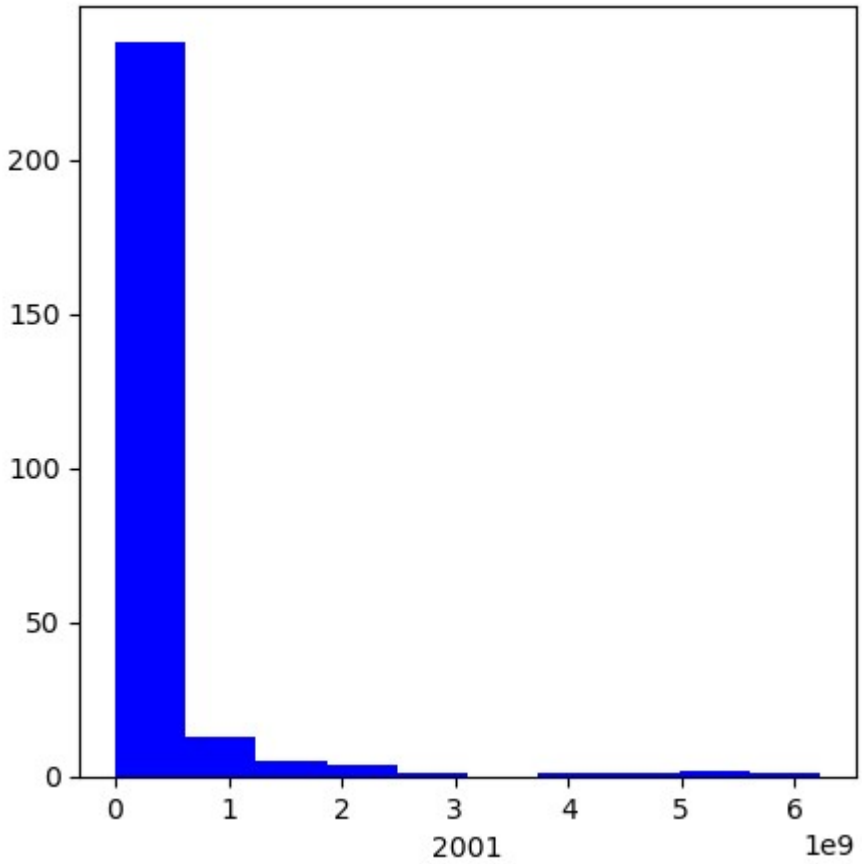
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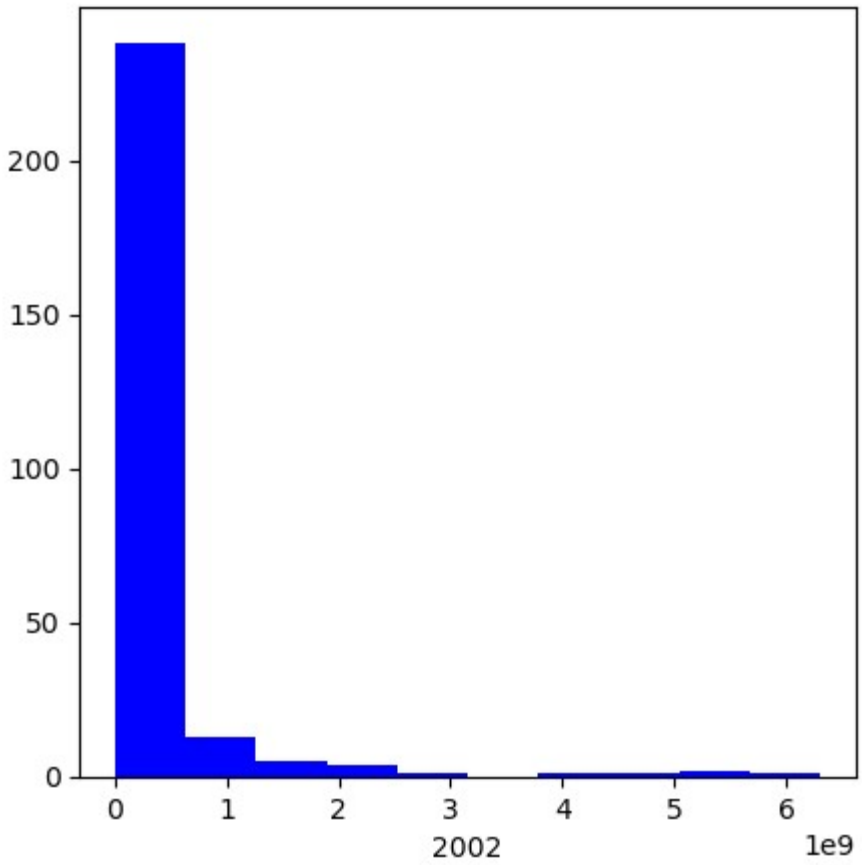
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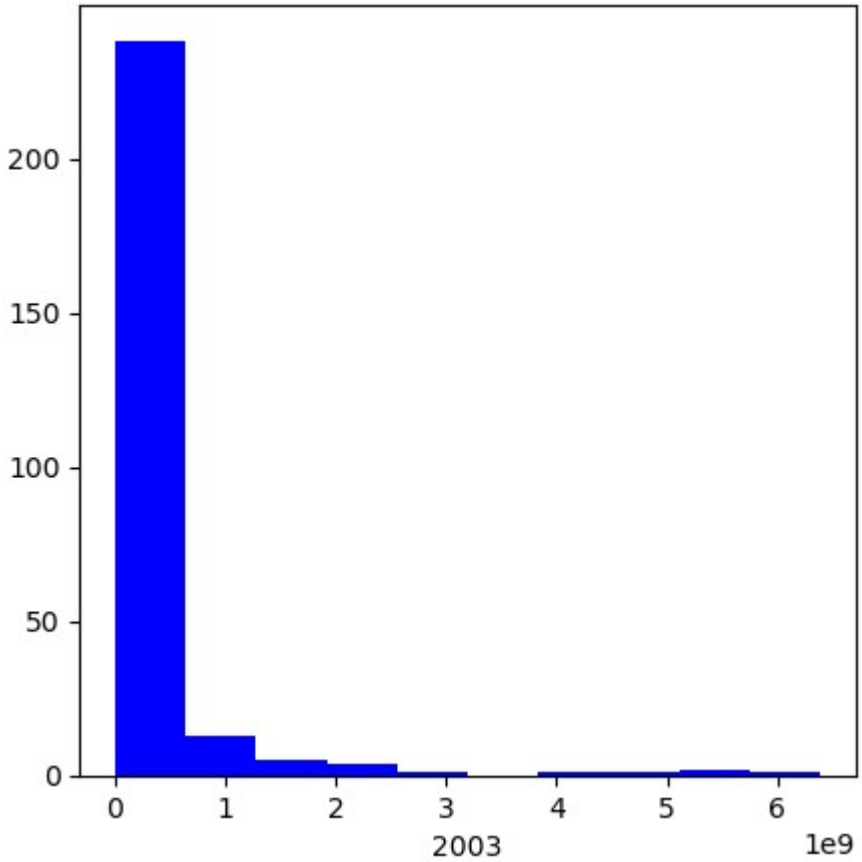
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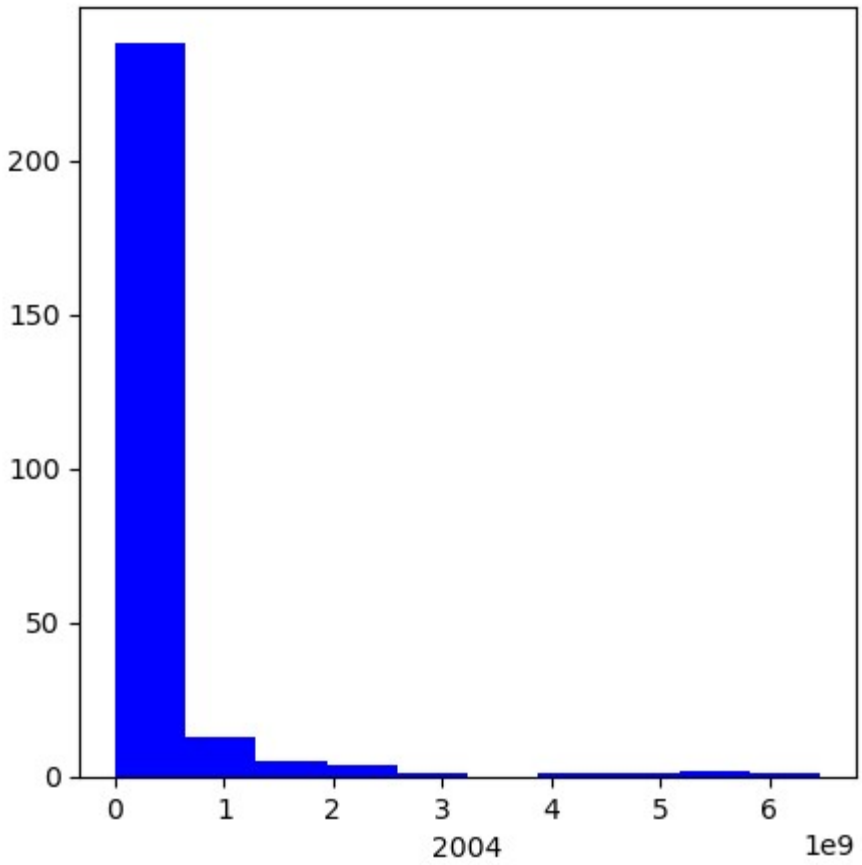
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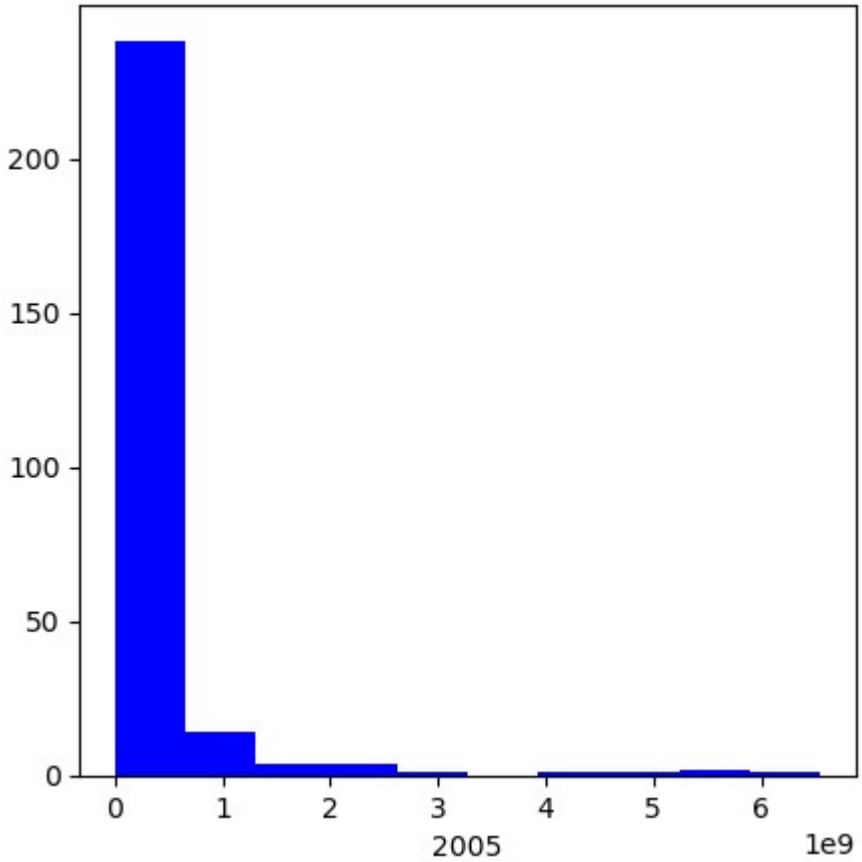
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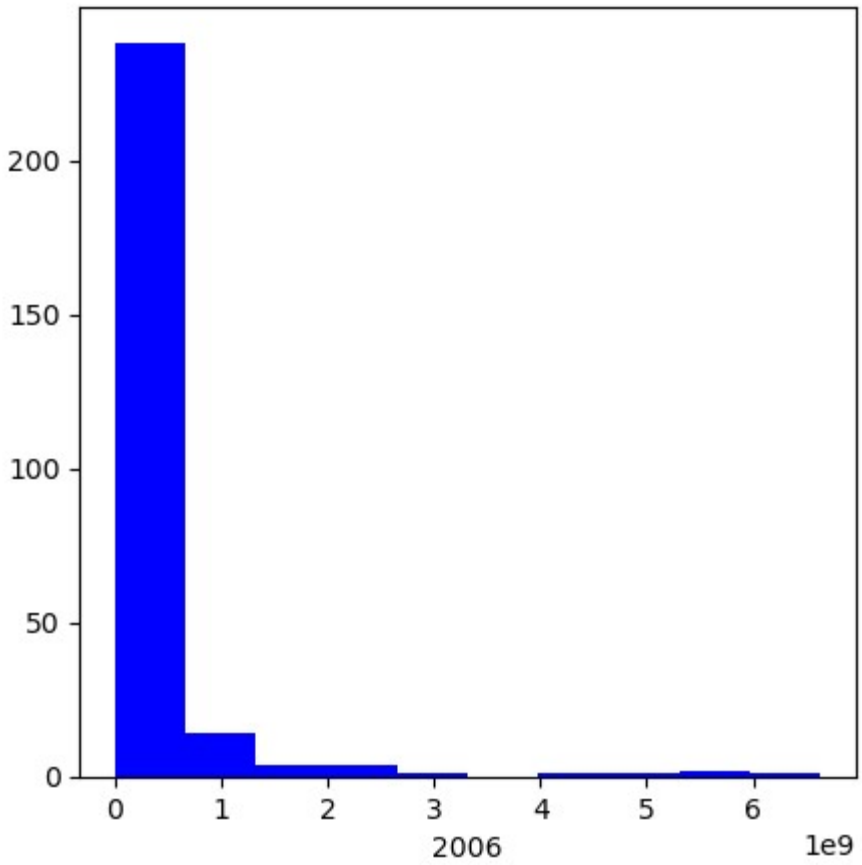
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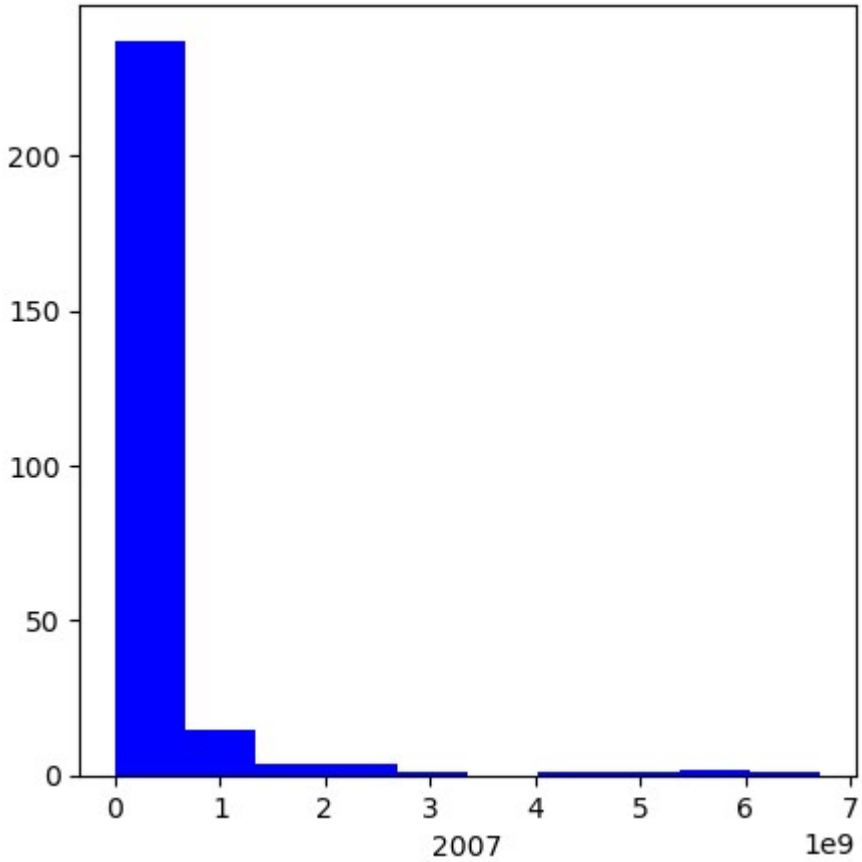
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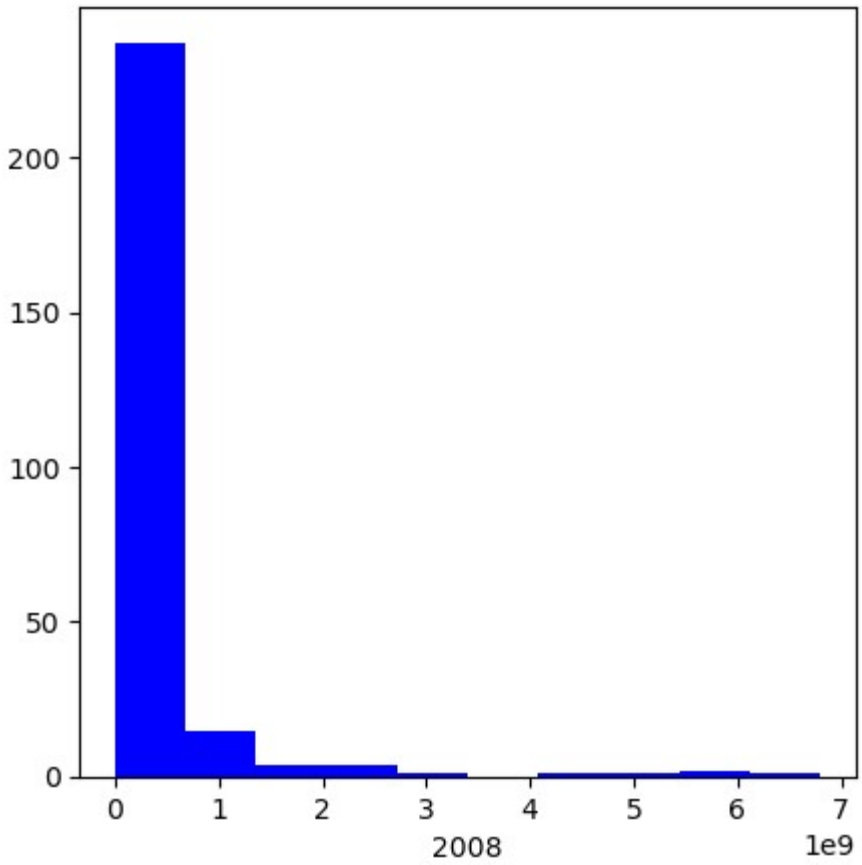
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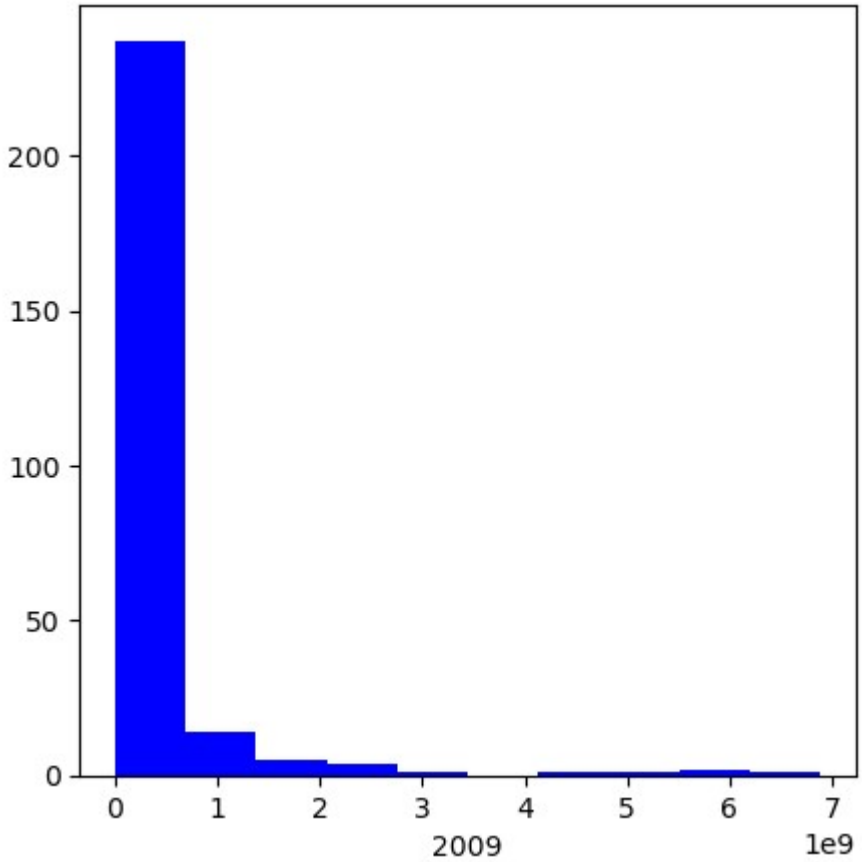
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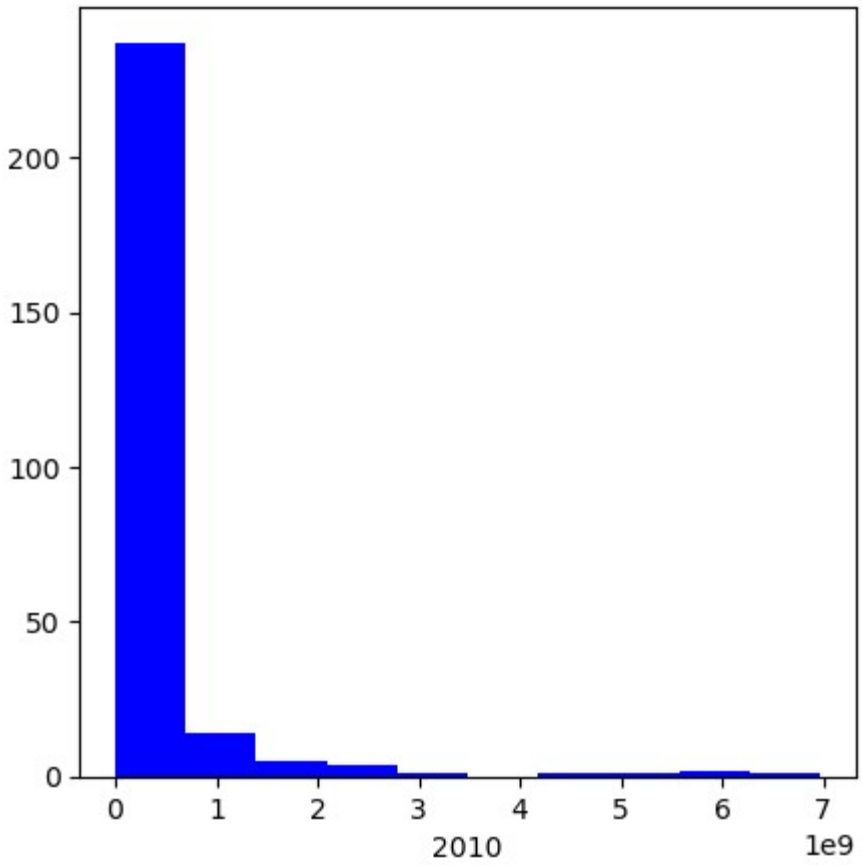
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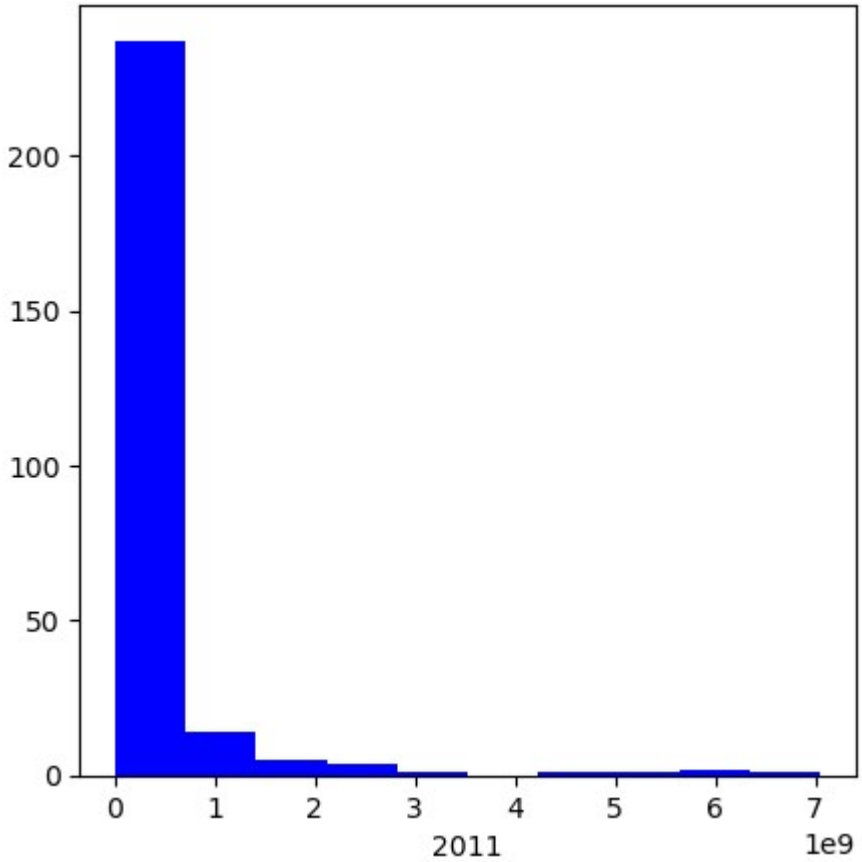
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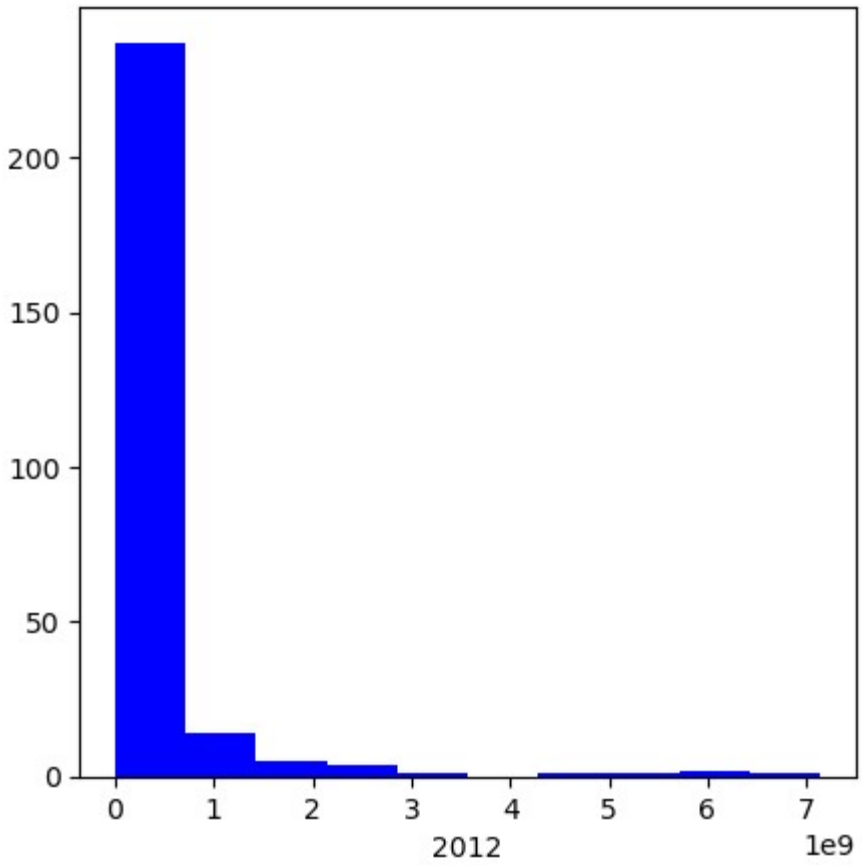
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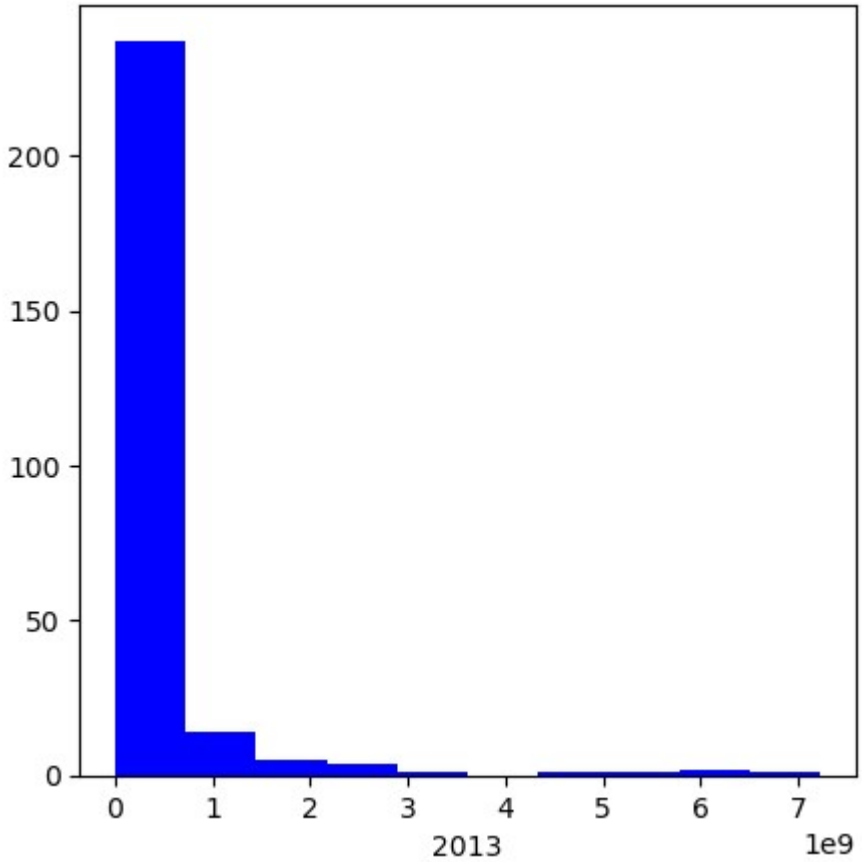
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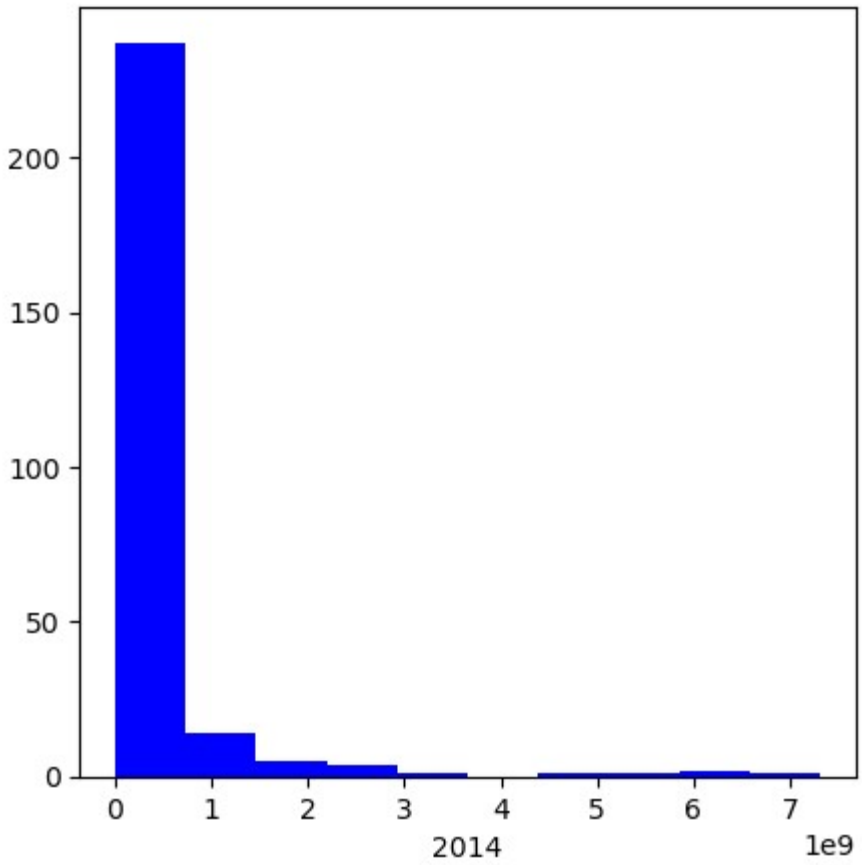
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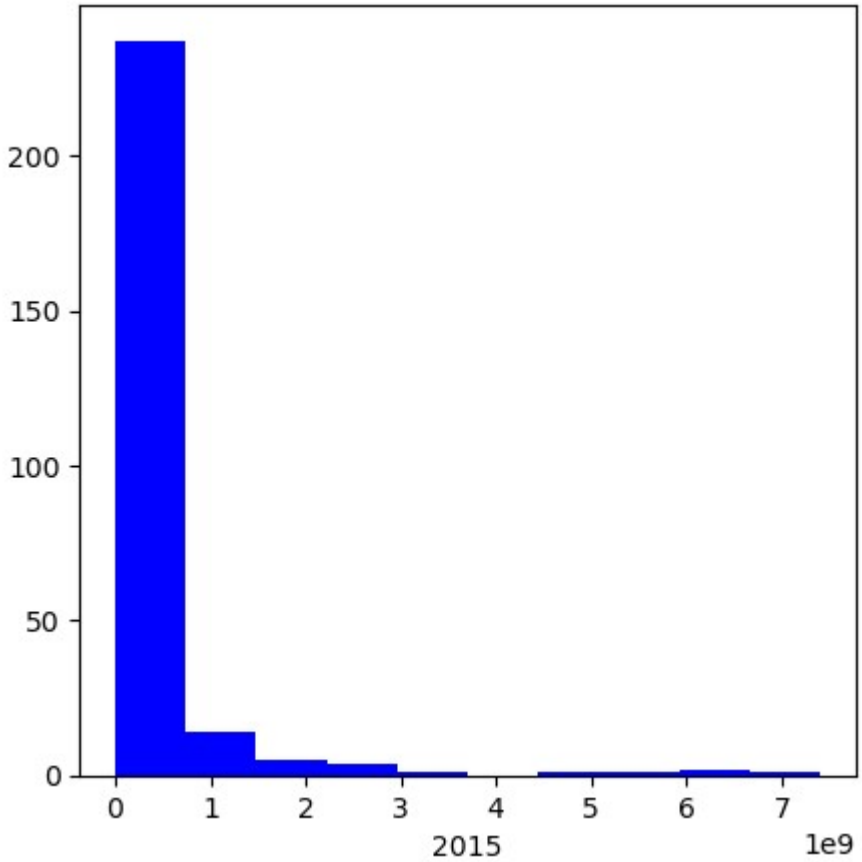
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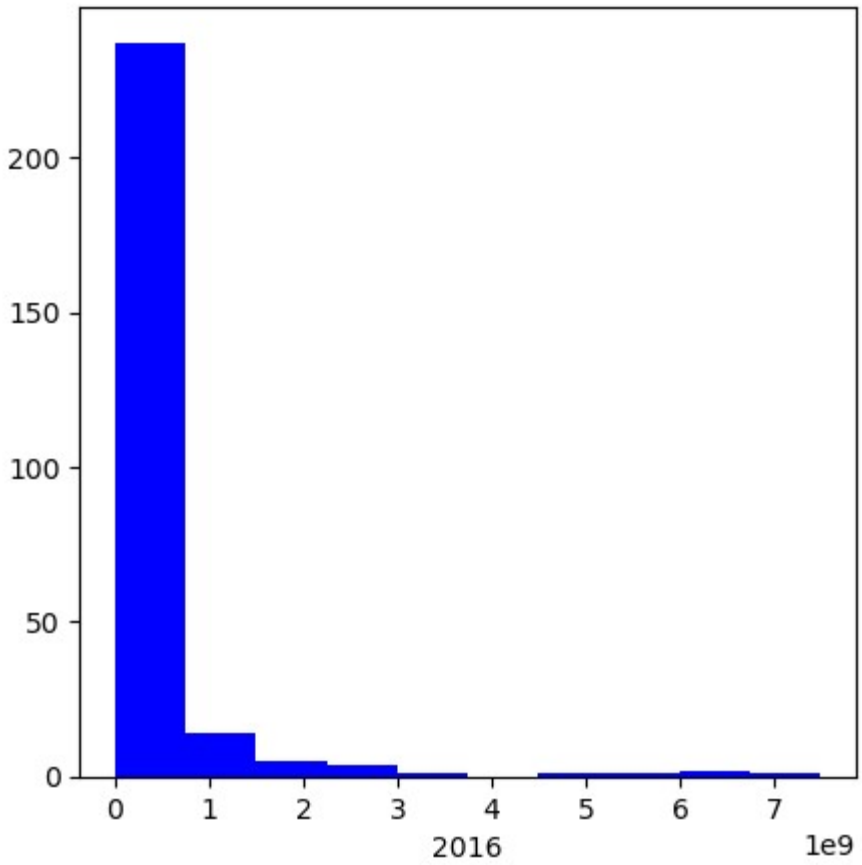
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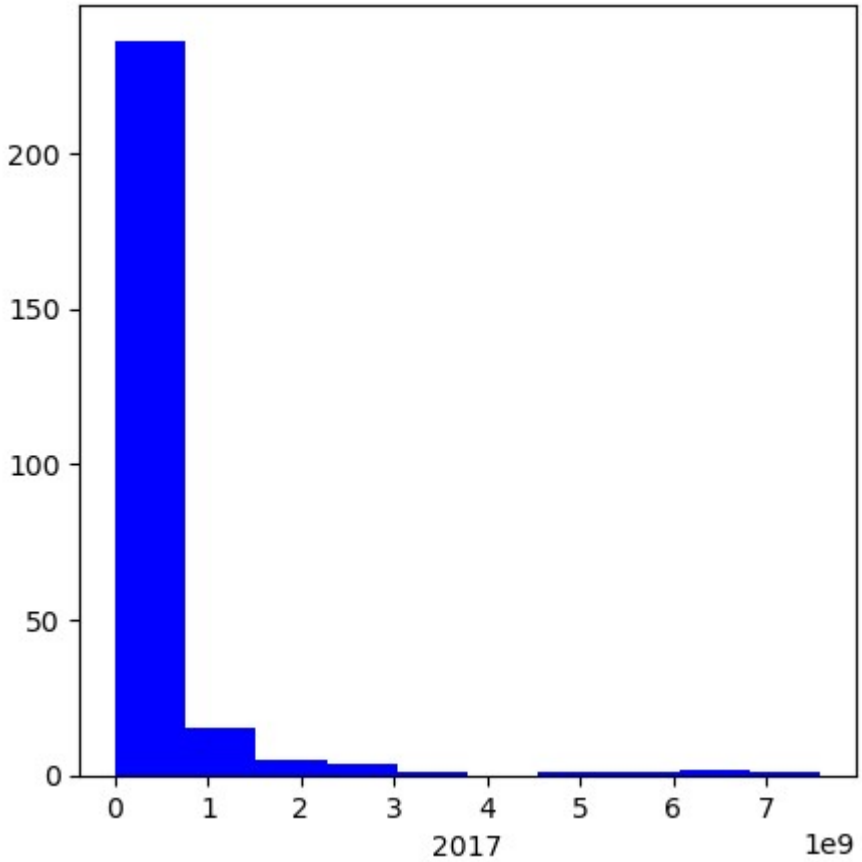
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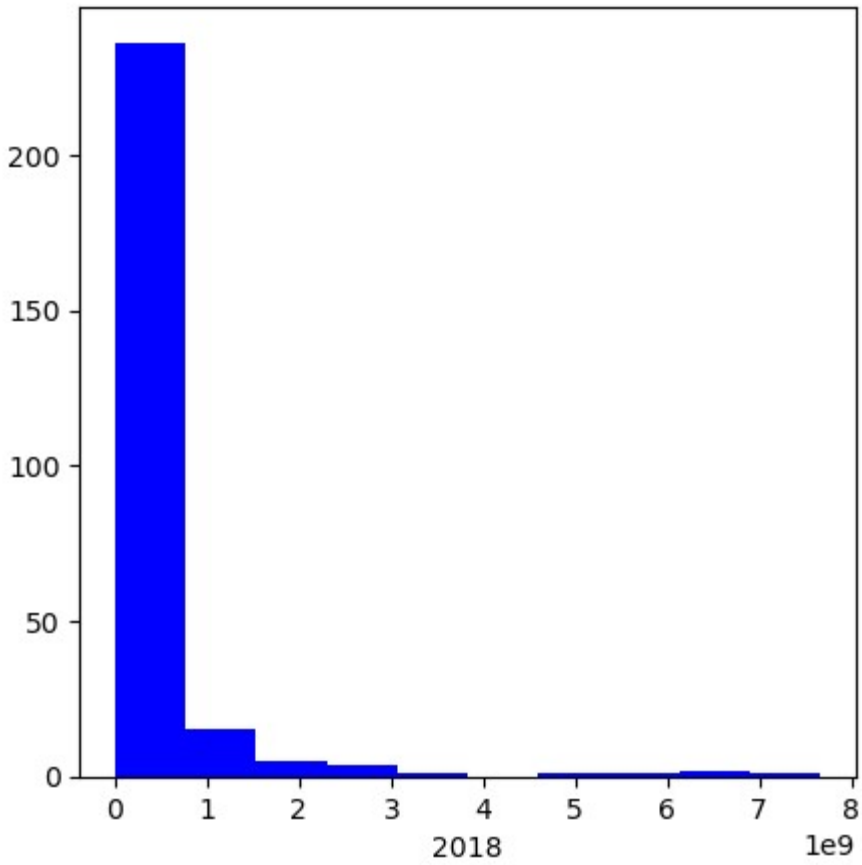
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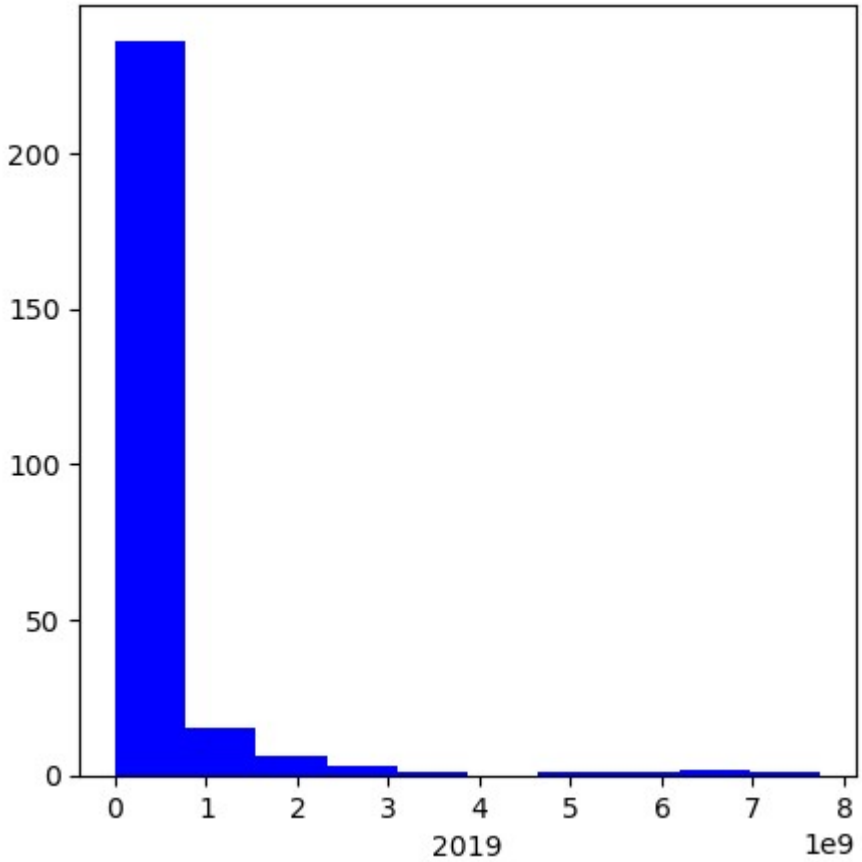
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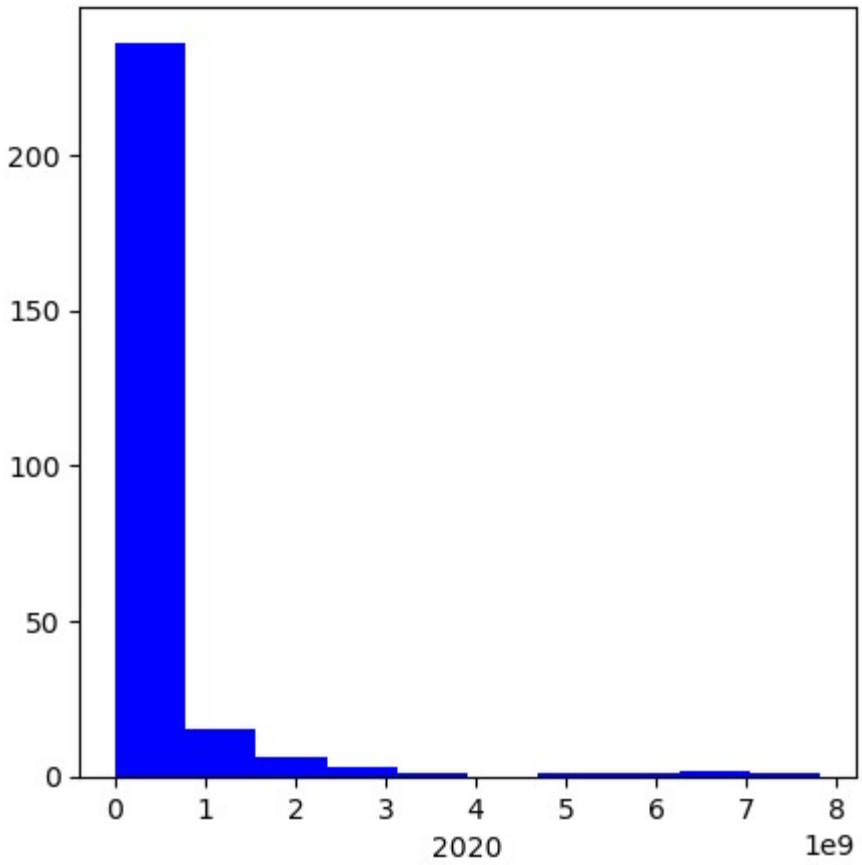
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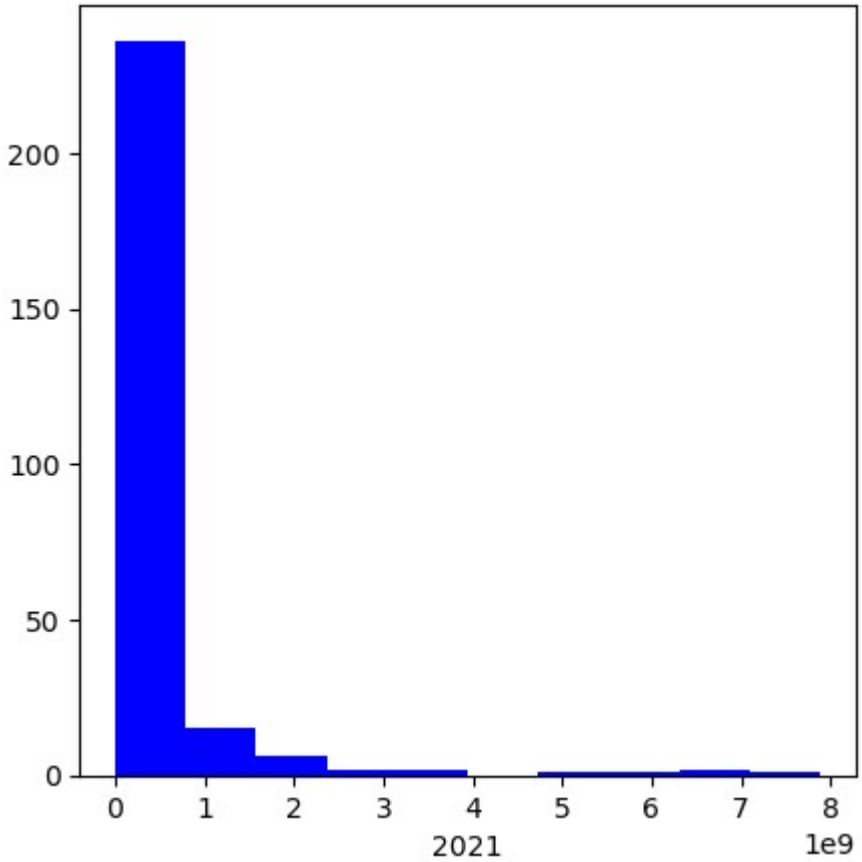
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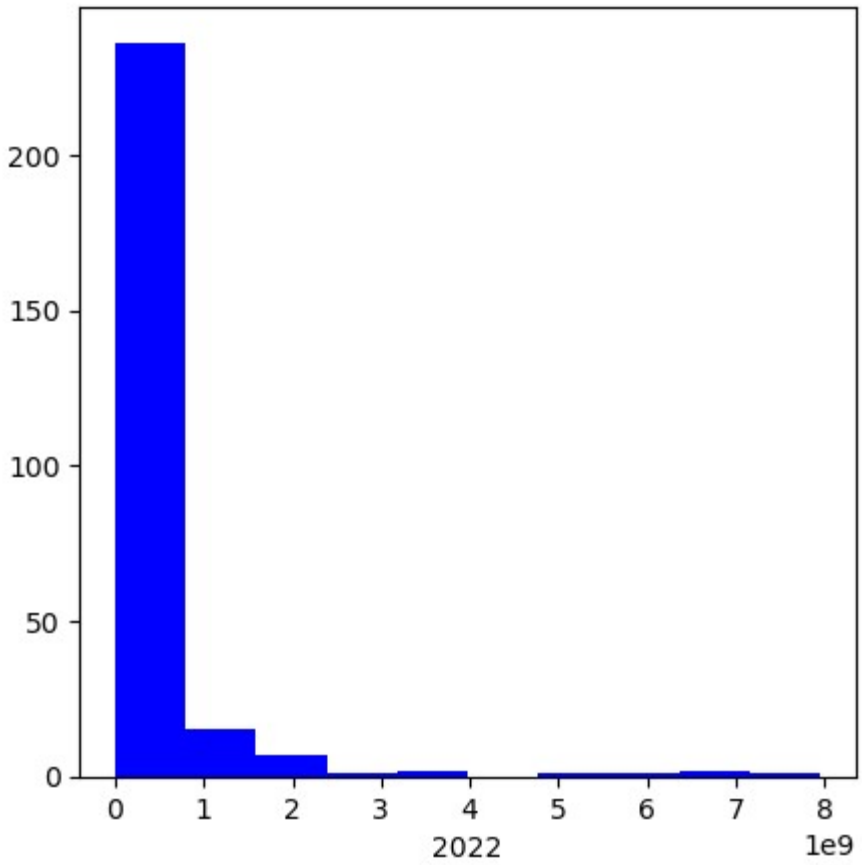
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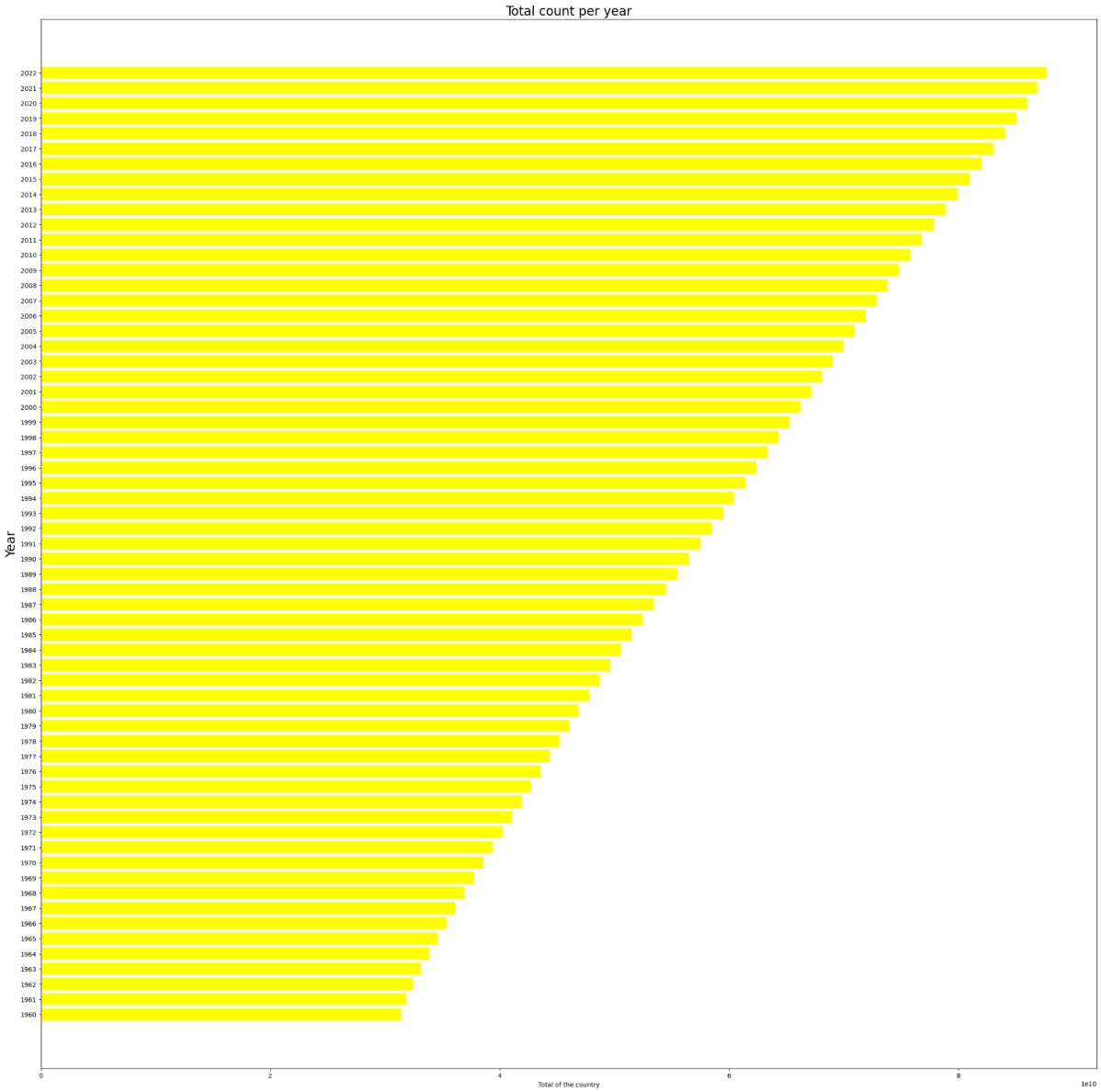

In [9]:
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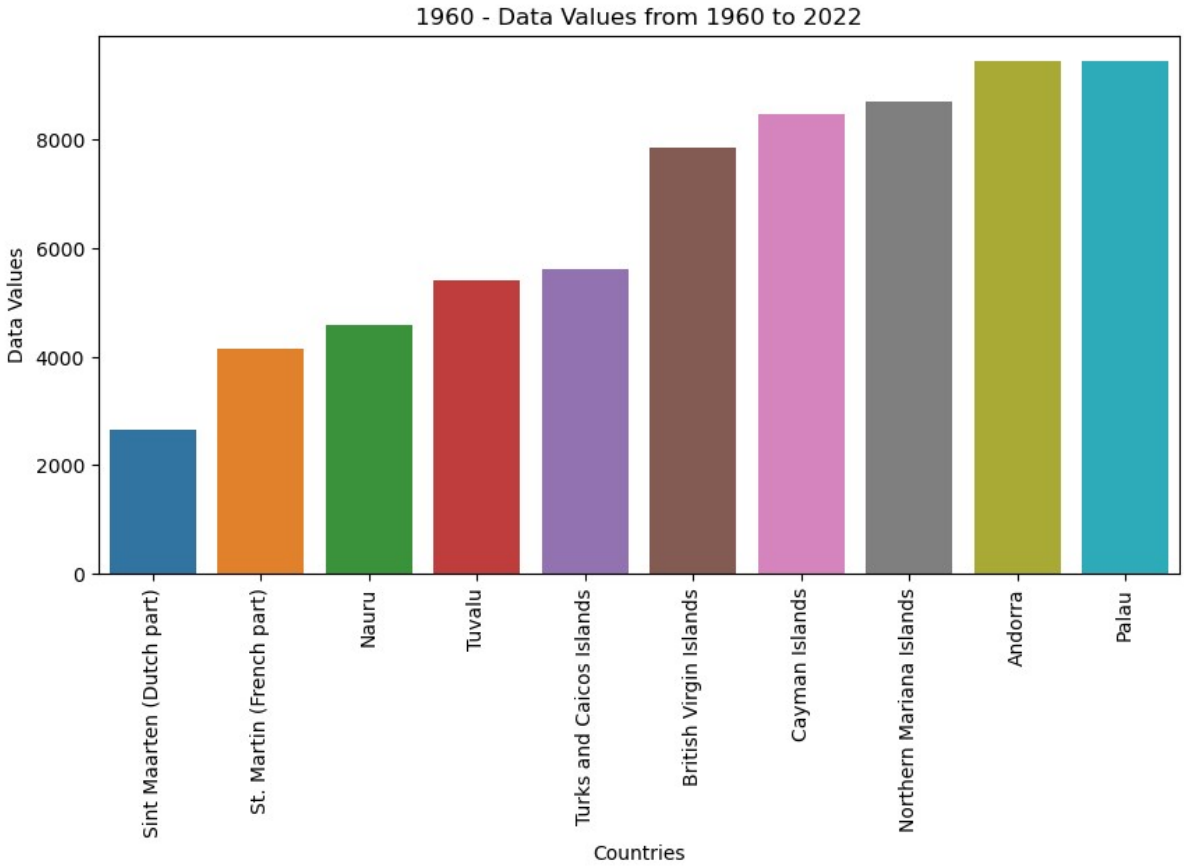
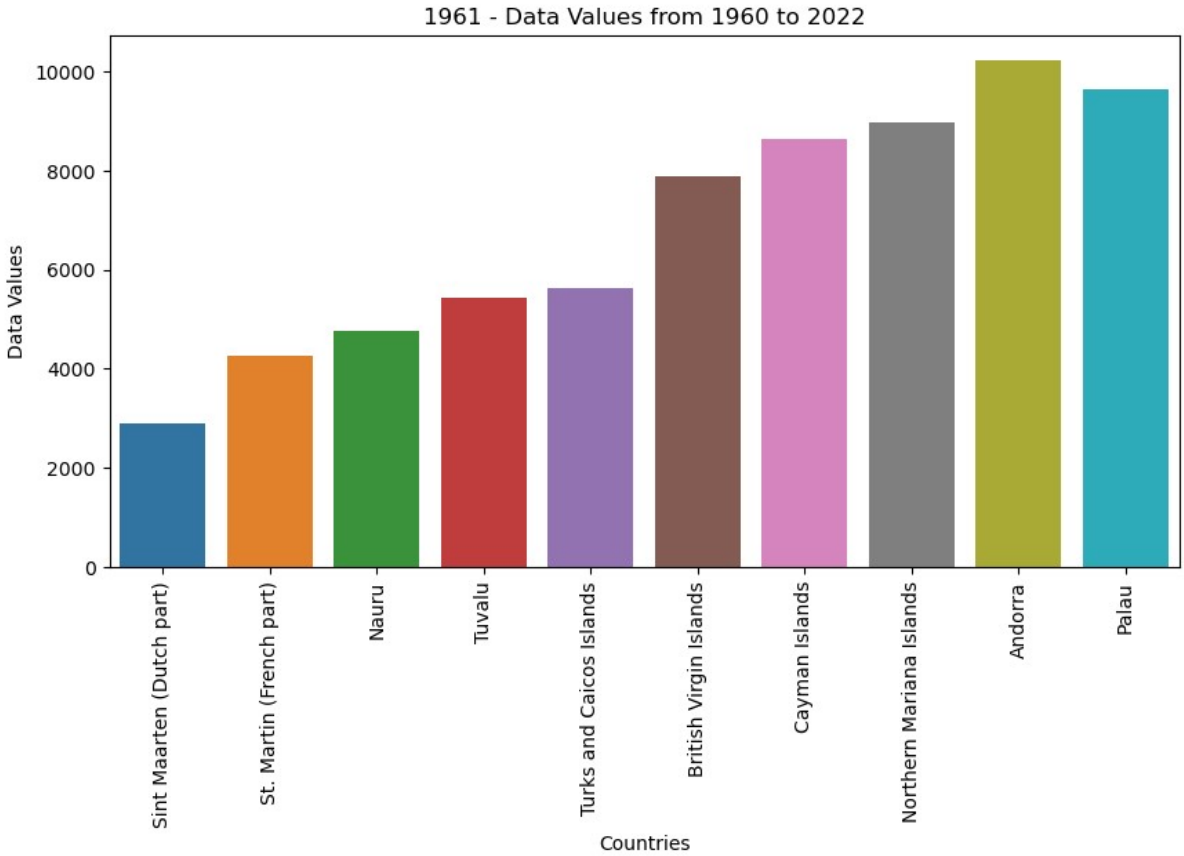
##Plotting histogram for indicators of top 10 countries by base year 1960
country_by_1960 = df.sort_values(by='1960').head(10)
country_by_1960

country_by_1960_t = country_by_1960.set_index("Country Name").T
for country_name,data_values in country_by_1960_t.iterrows():
    fig = plt.figure(figsize=(10,5))
    sns.barplot(x=data_values.index,y=data_values.values)
    plt.xlabel("Countries")
    plt.ylabel("Data Values")
    plt.title(f"{country_name} - Data Values from 1960 to 2022")
    plt.xticks(rotation=90)
    plt.show()
```


1960 - Data Values from 1960 to 2022
Data Values
0
2000
4000
6000
8000
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Countries


1961 - Data Values from 1960 to 2022
Data Values
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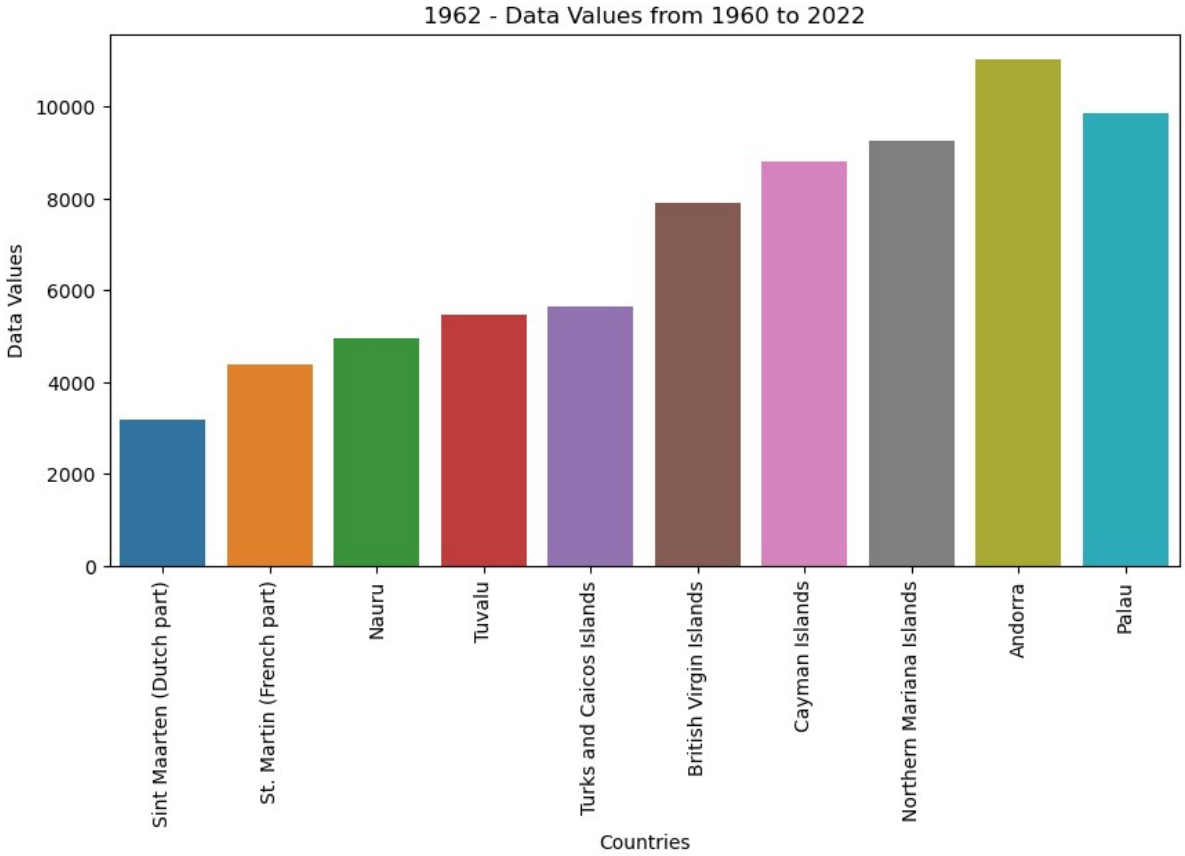
2000
4000
6000
8000
10000
Sint Maarten (Dutch part)
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Countries


1962 - Data Values from 1960 to 2022
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St. Martin (French part)
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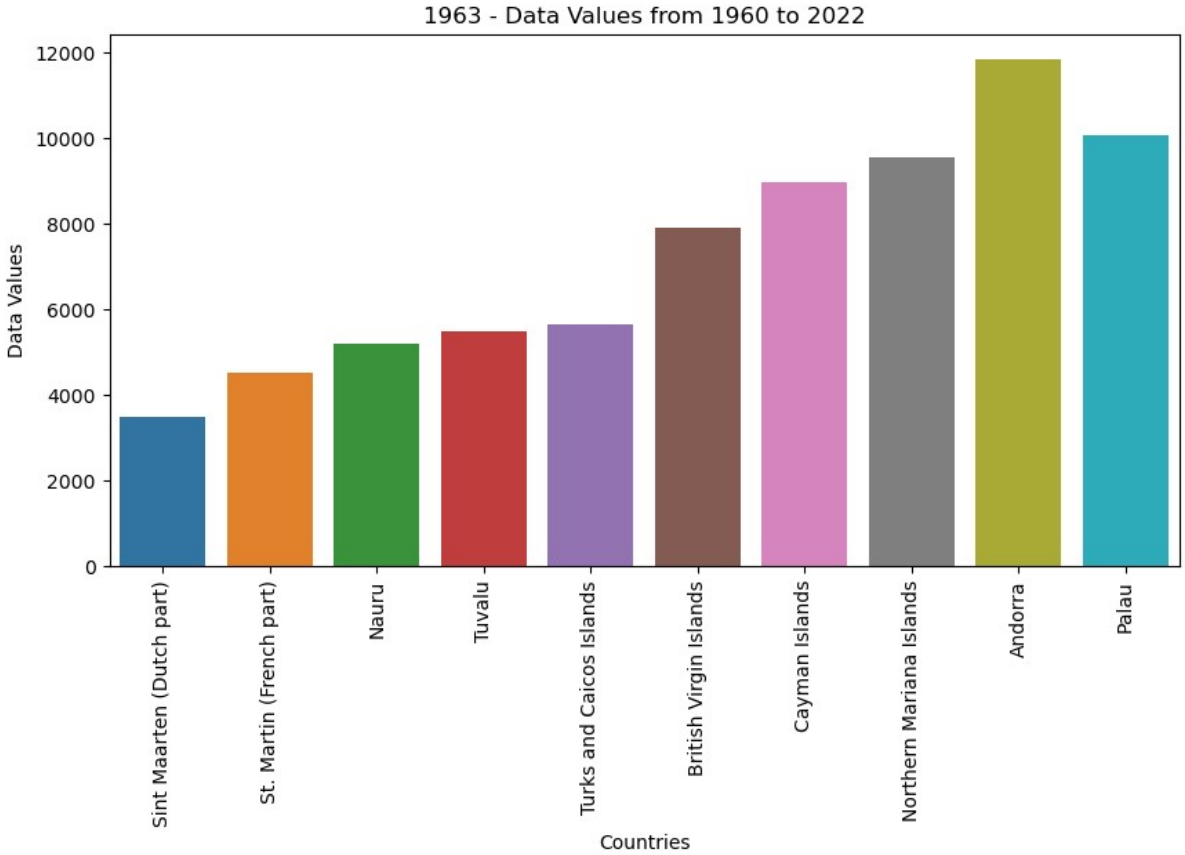
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Countries


1963 - Data Values from 1960 to 2022
Data Values
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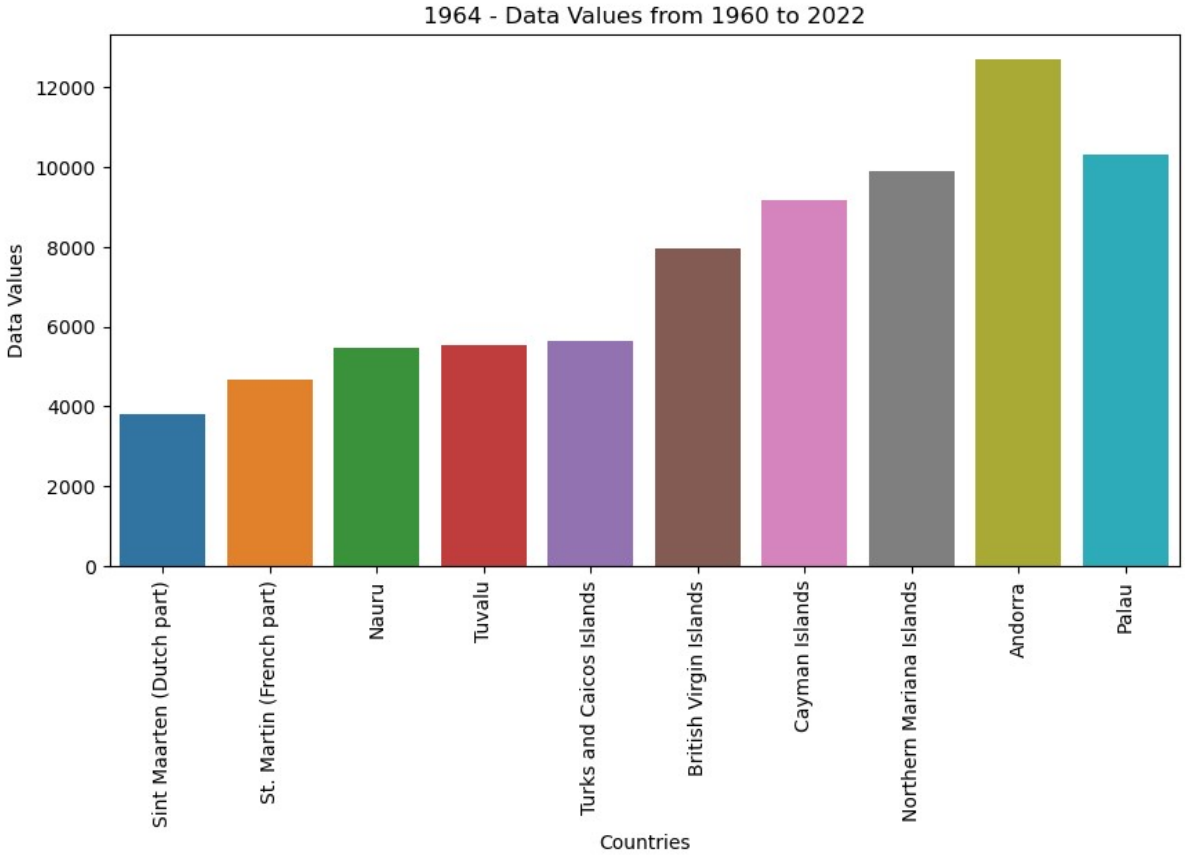
St. Martin (French part)
Nauru
Tuvalu
Turks and Caicos Islands
British Virgin Islands
Cayman Islands
Northern Mariana Islands
Andorra
Palau
Countries


1964 - Data Values from 1960 to 2022
Data Values
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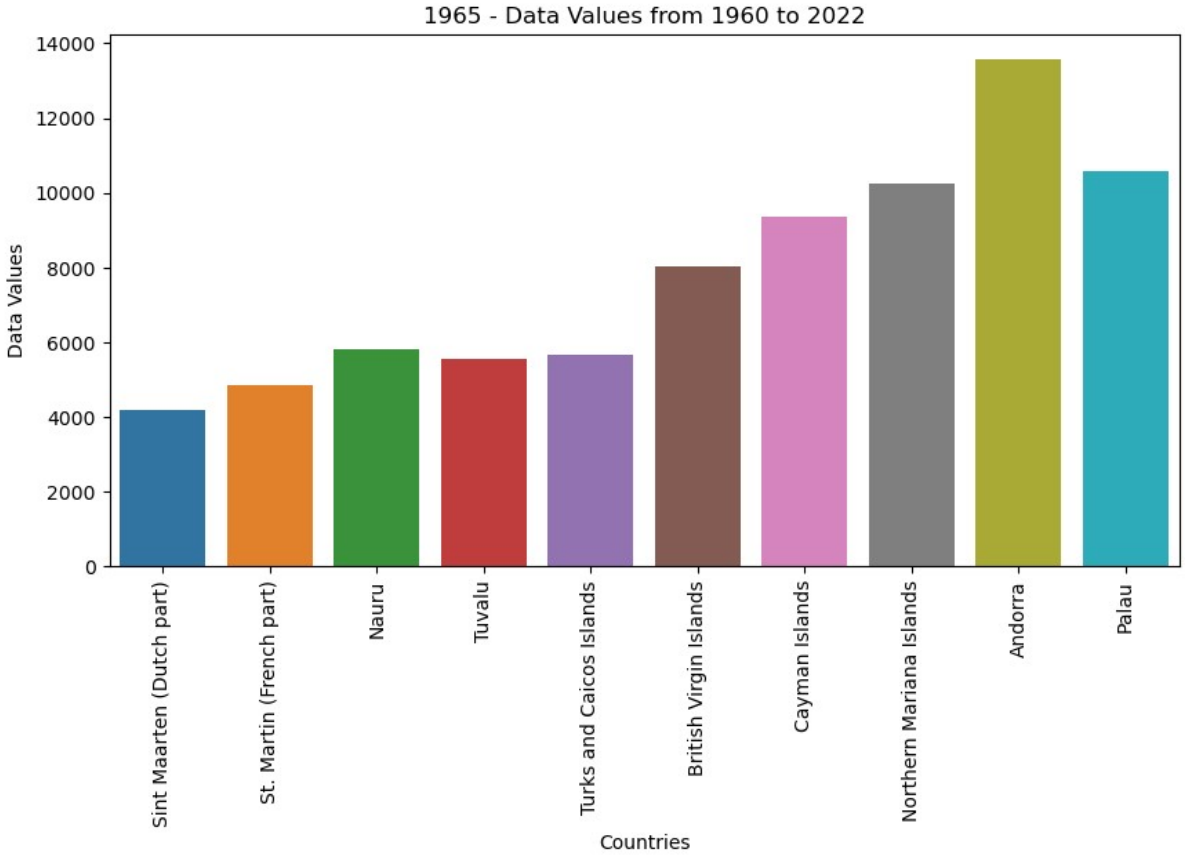
Andorra
Palau
Countries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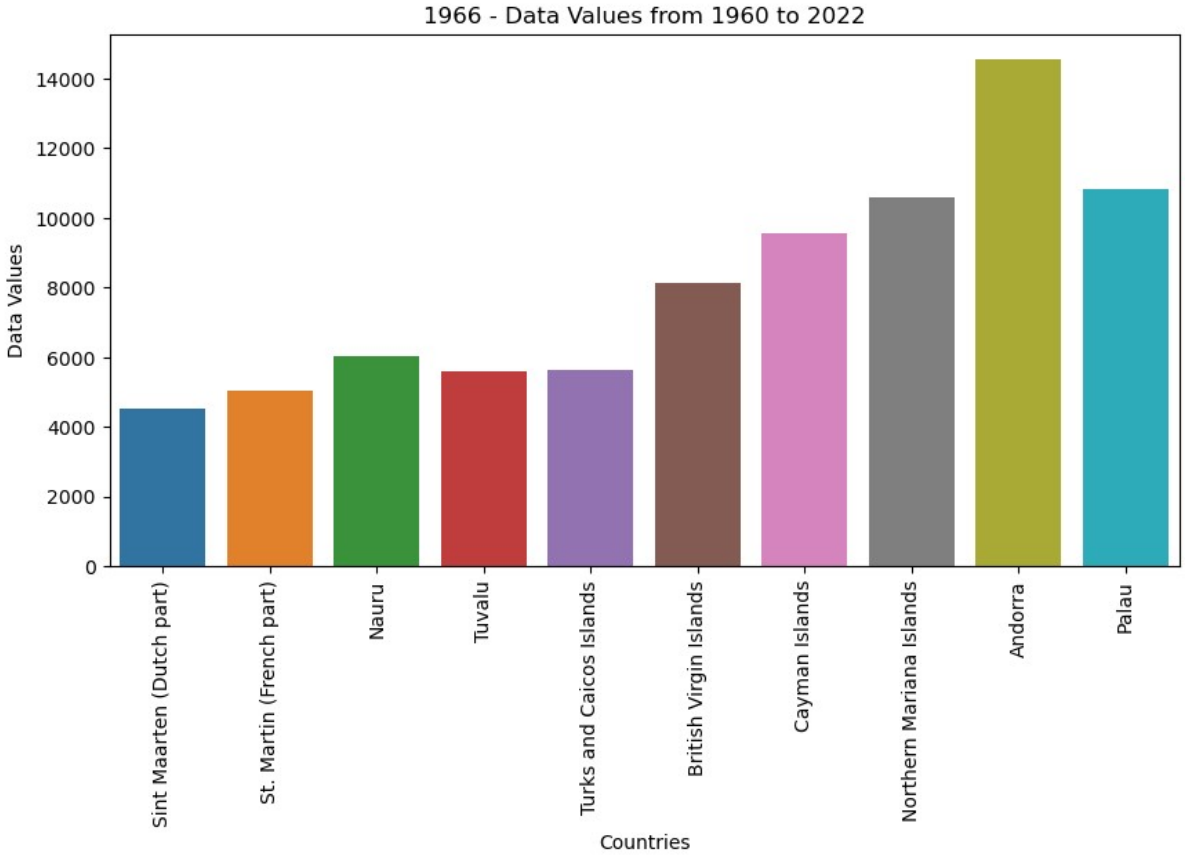
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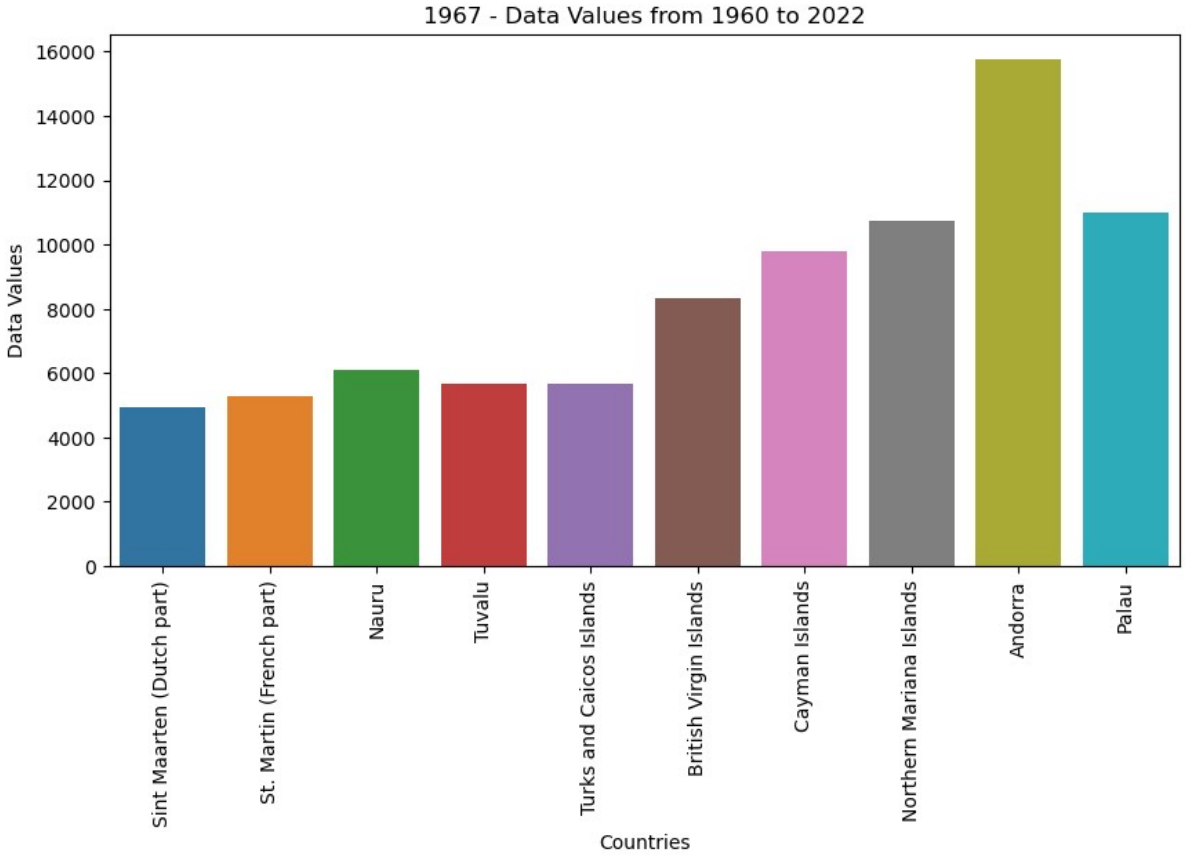
Palau
Countries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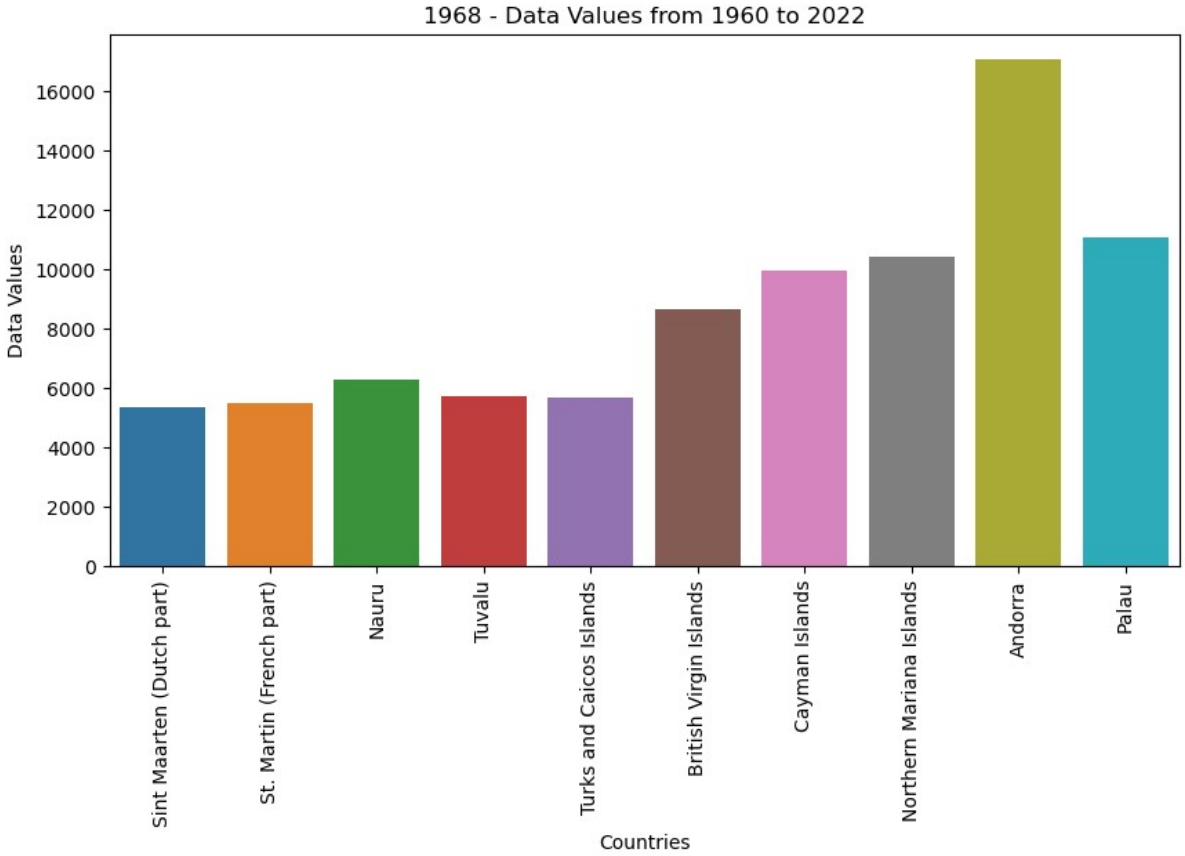
Countries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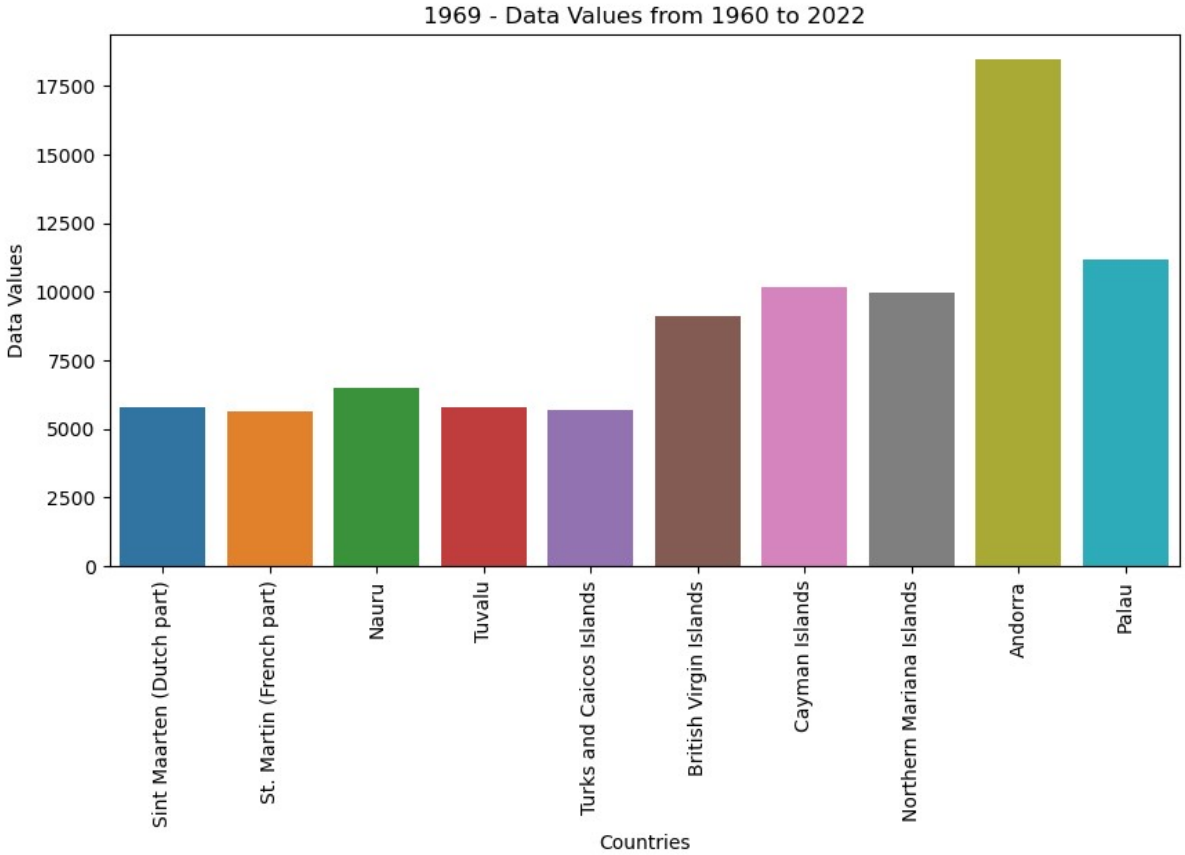
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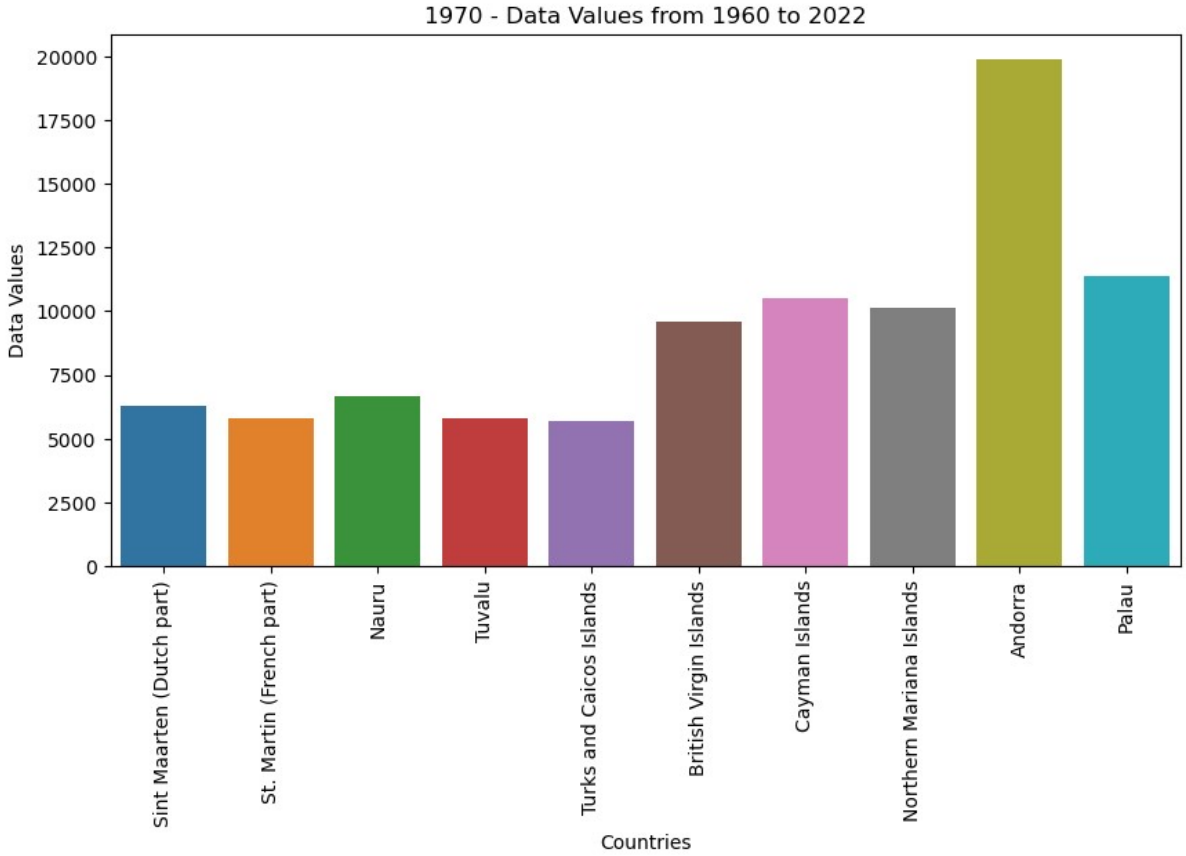
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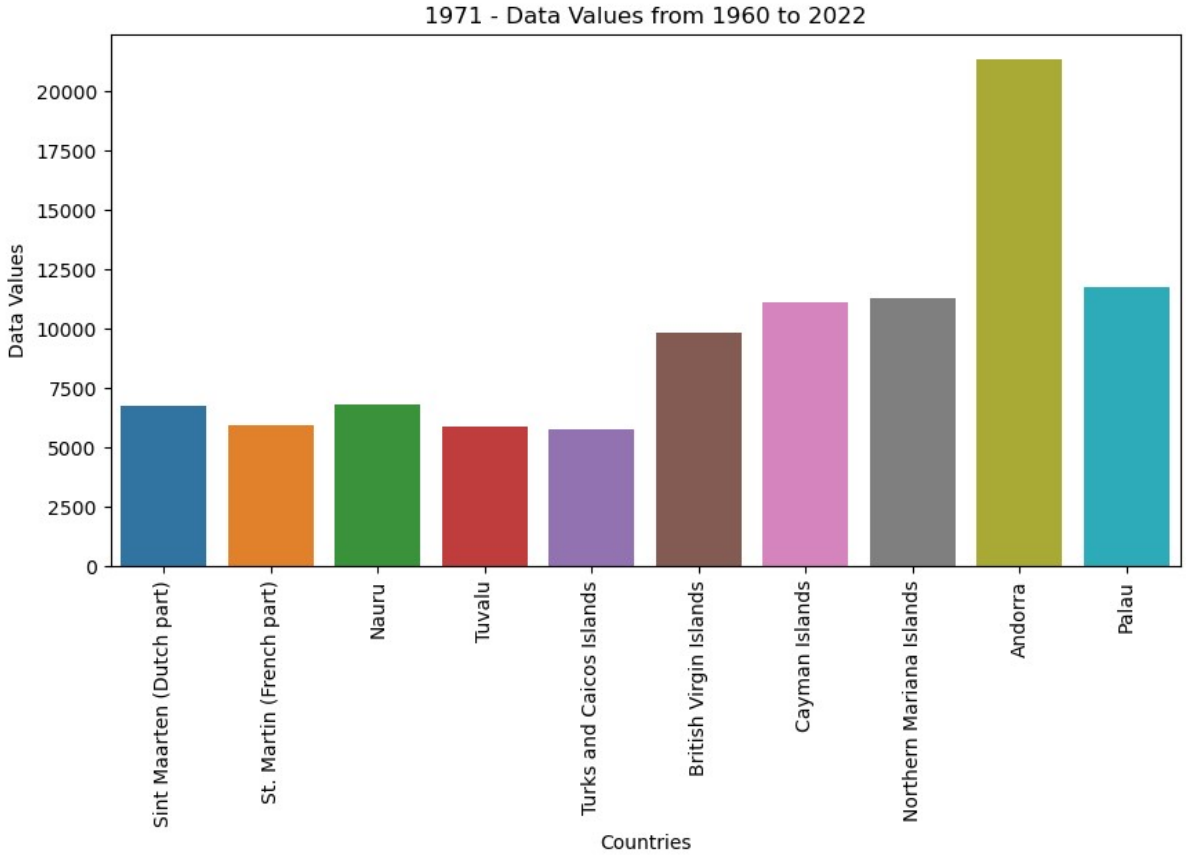
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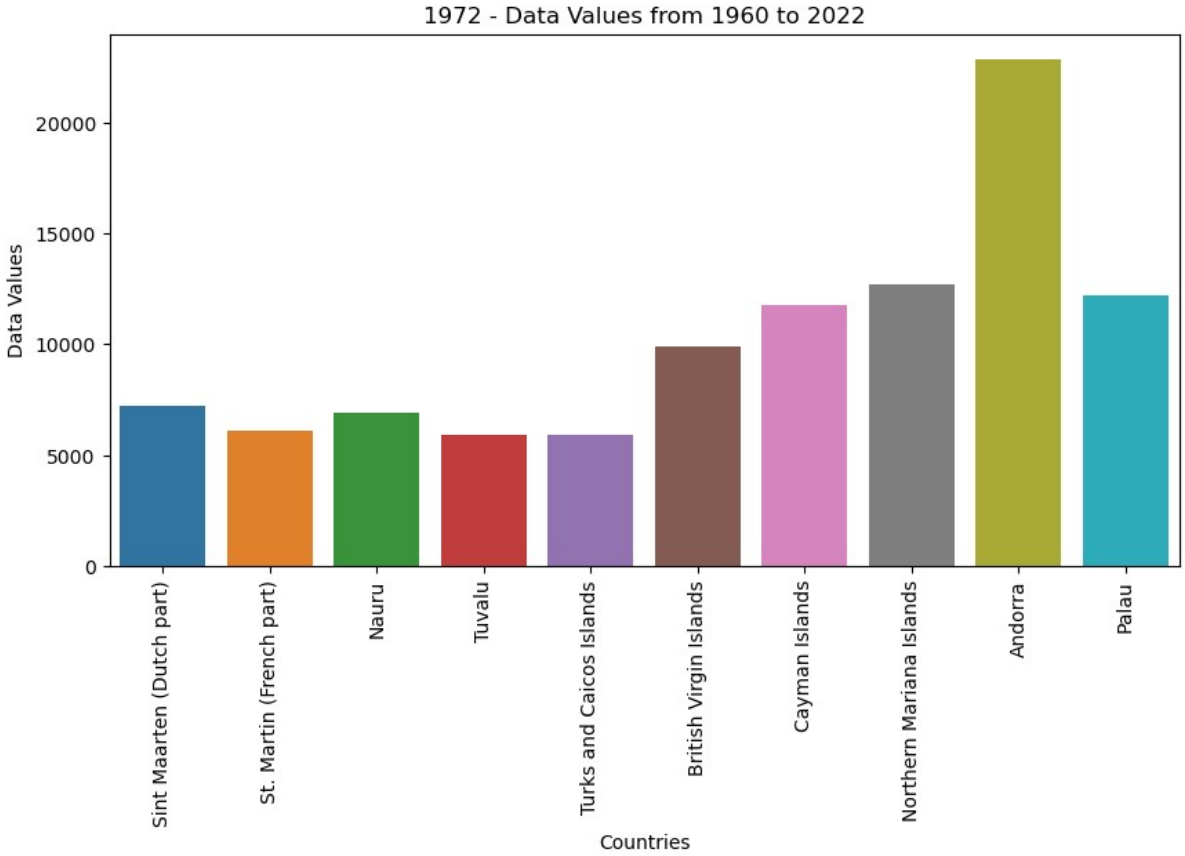
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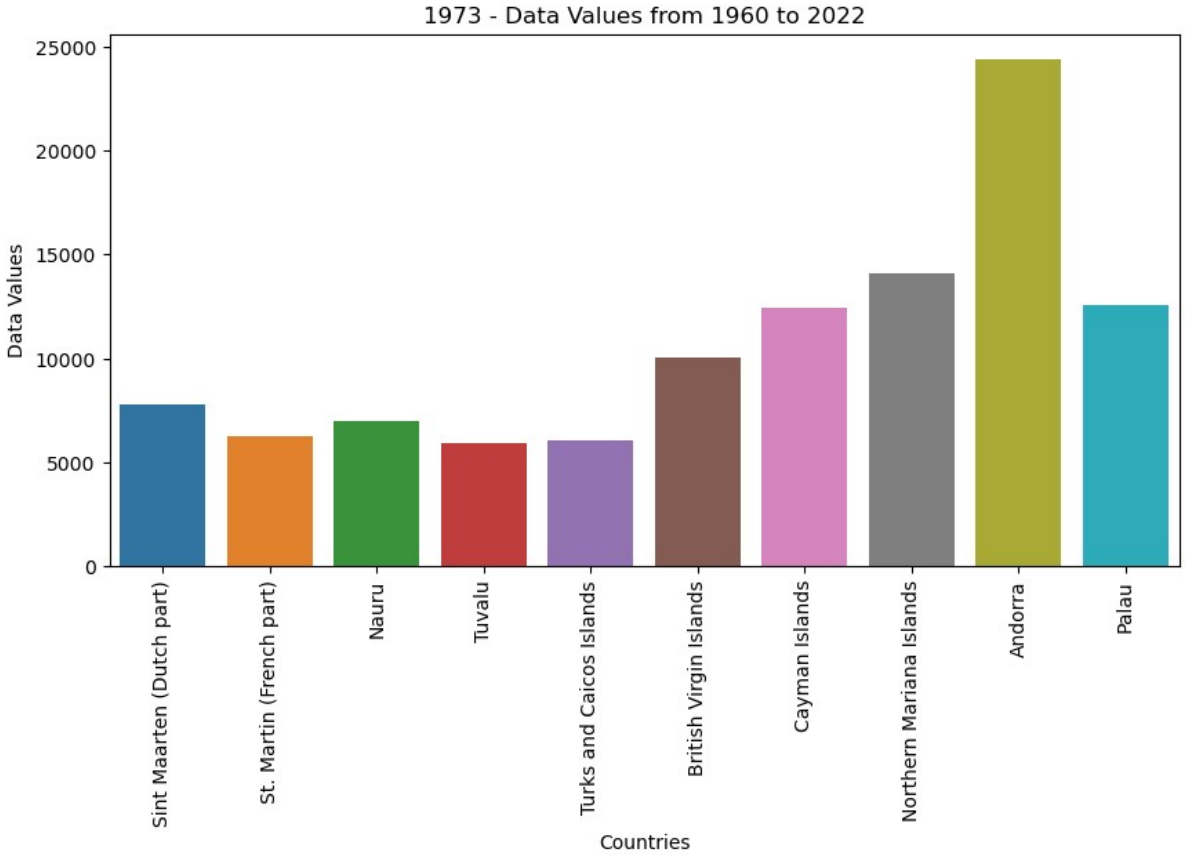
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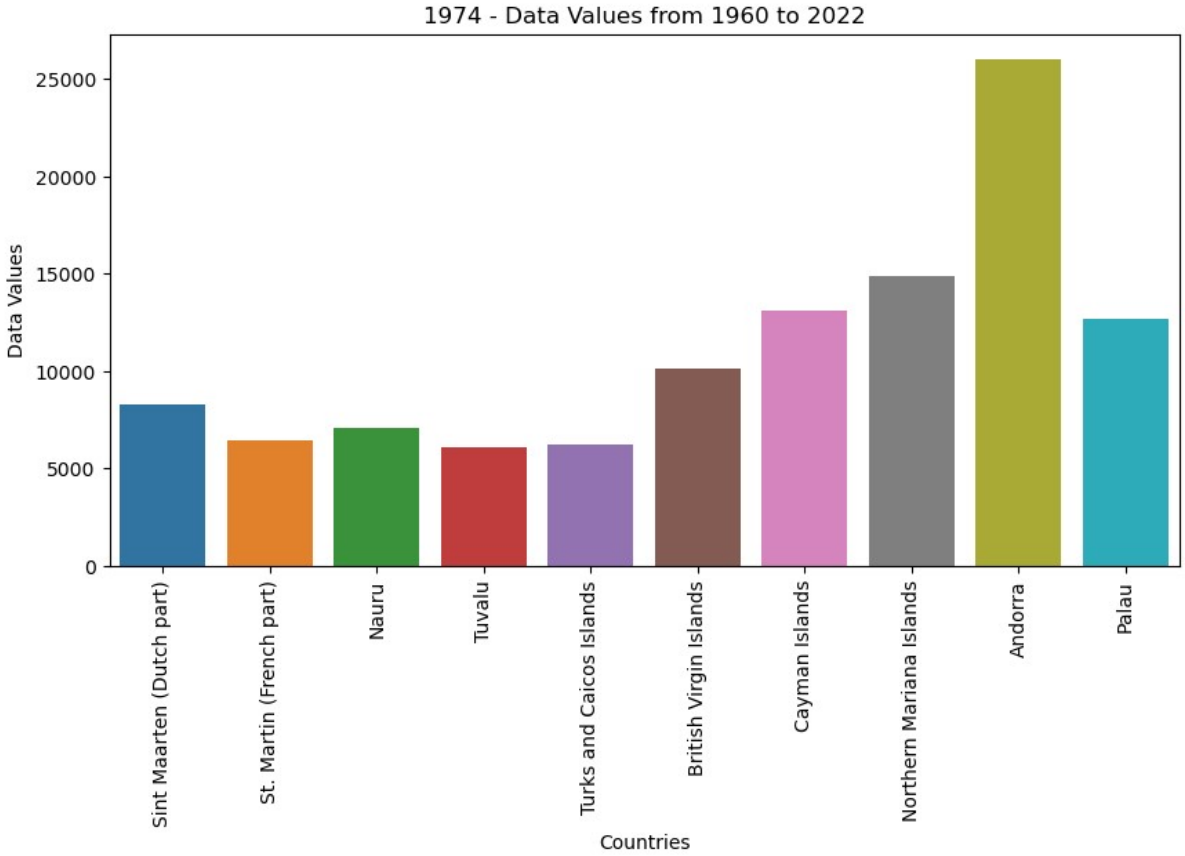
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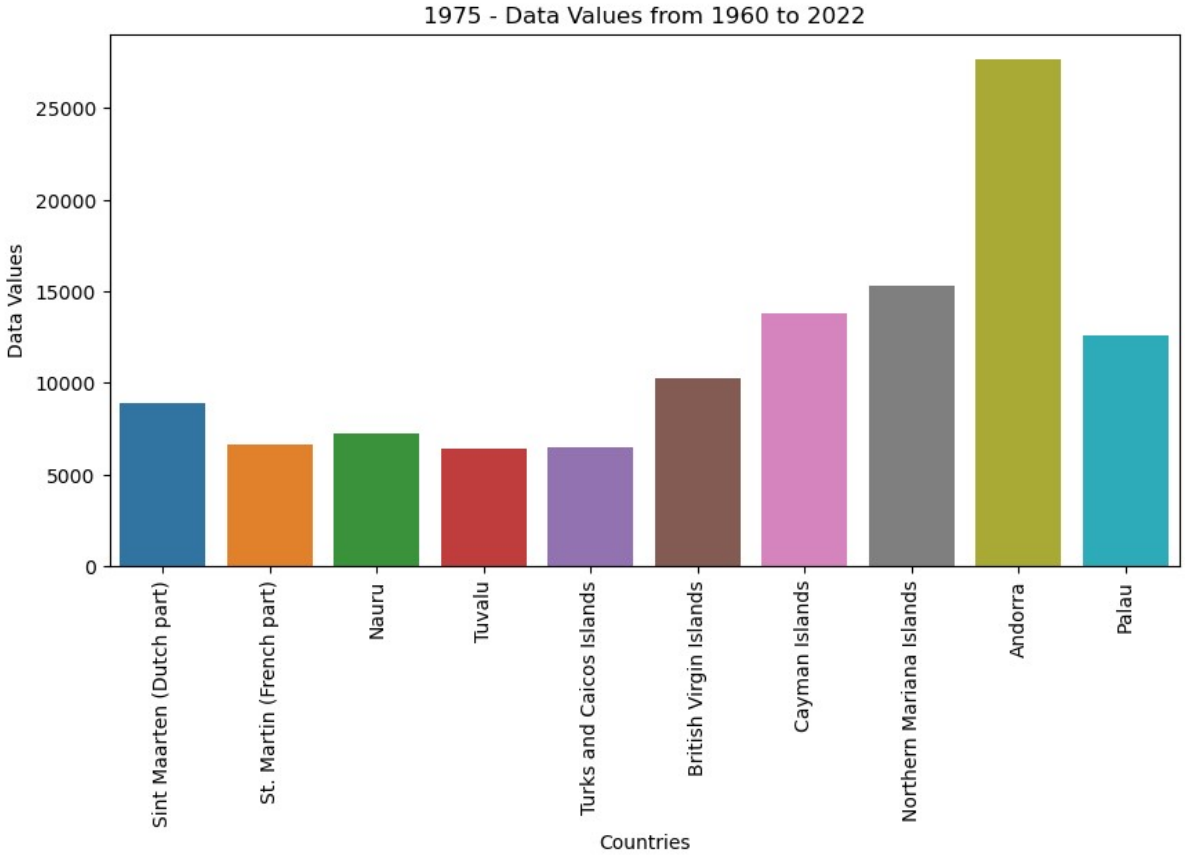
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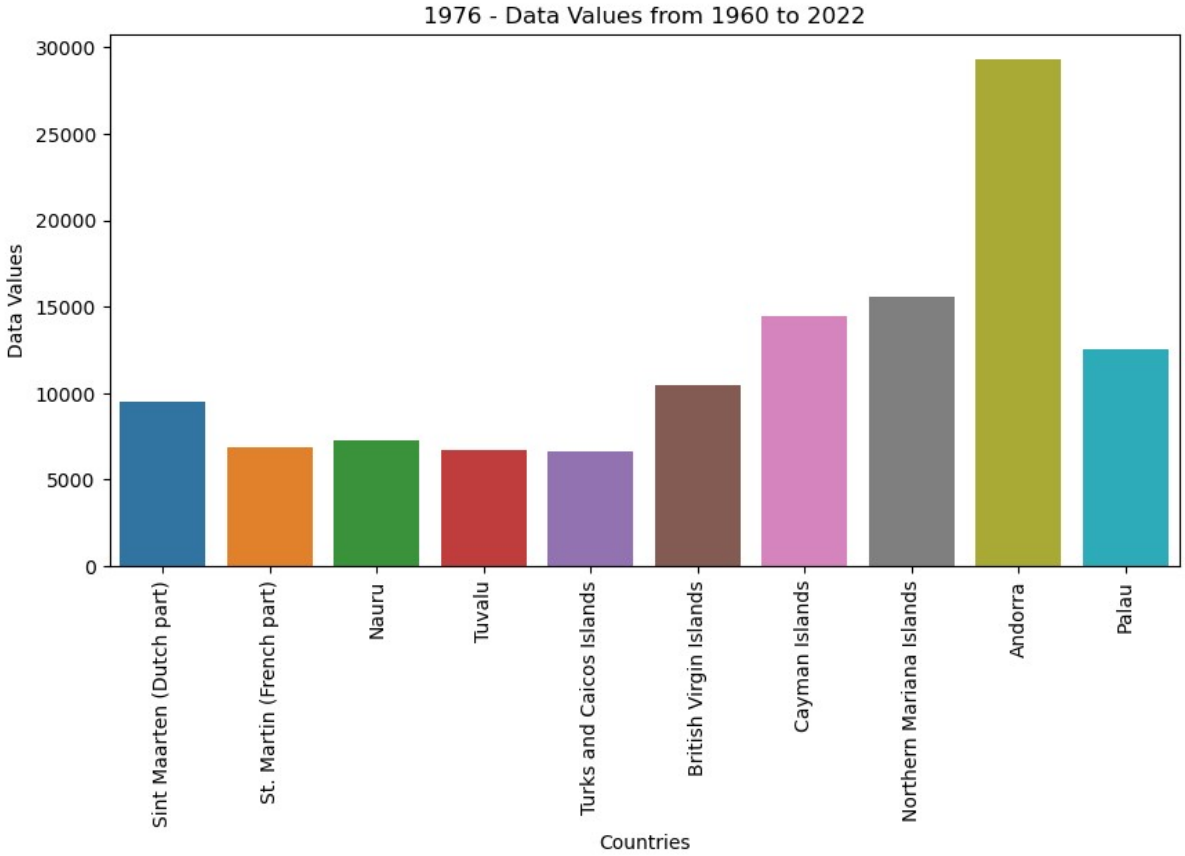
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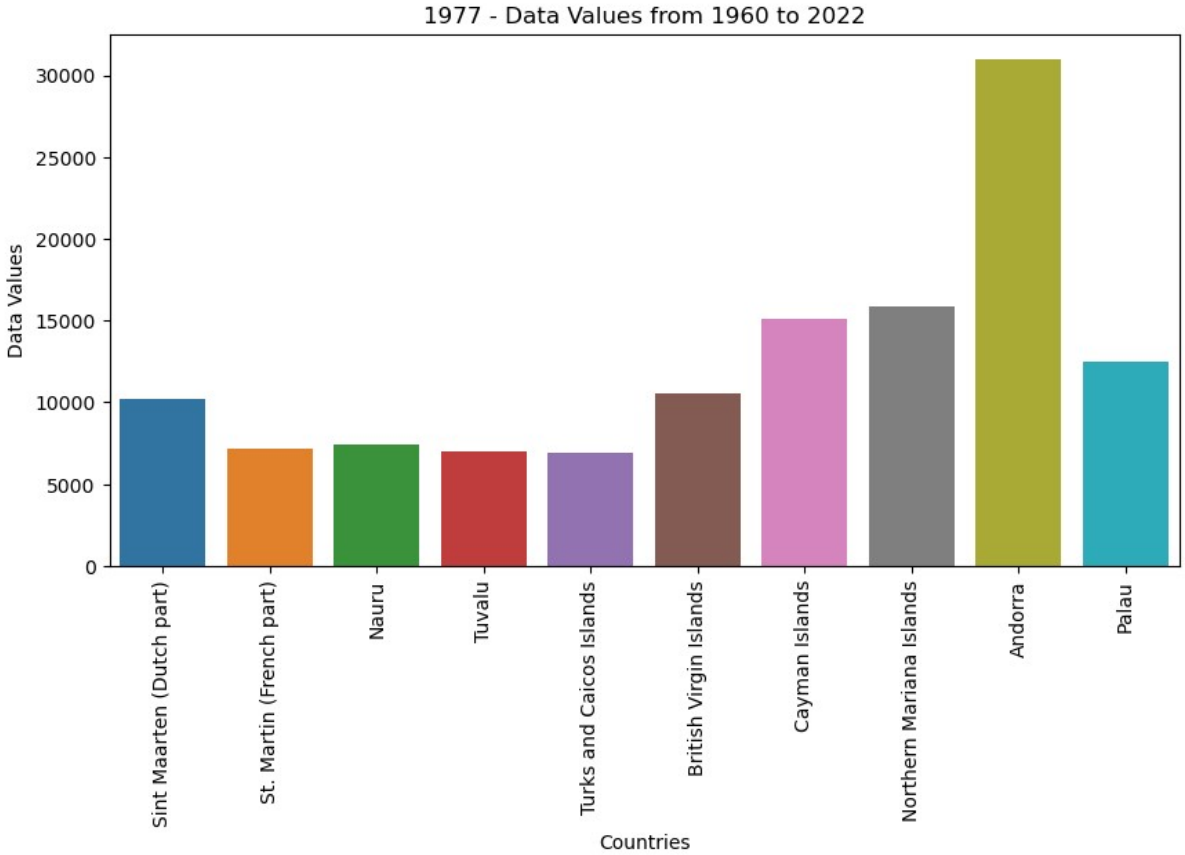
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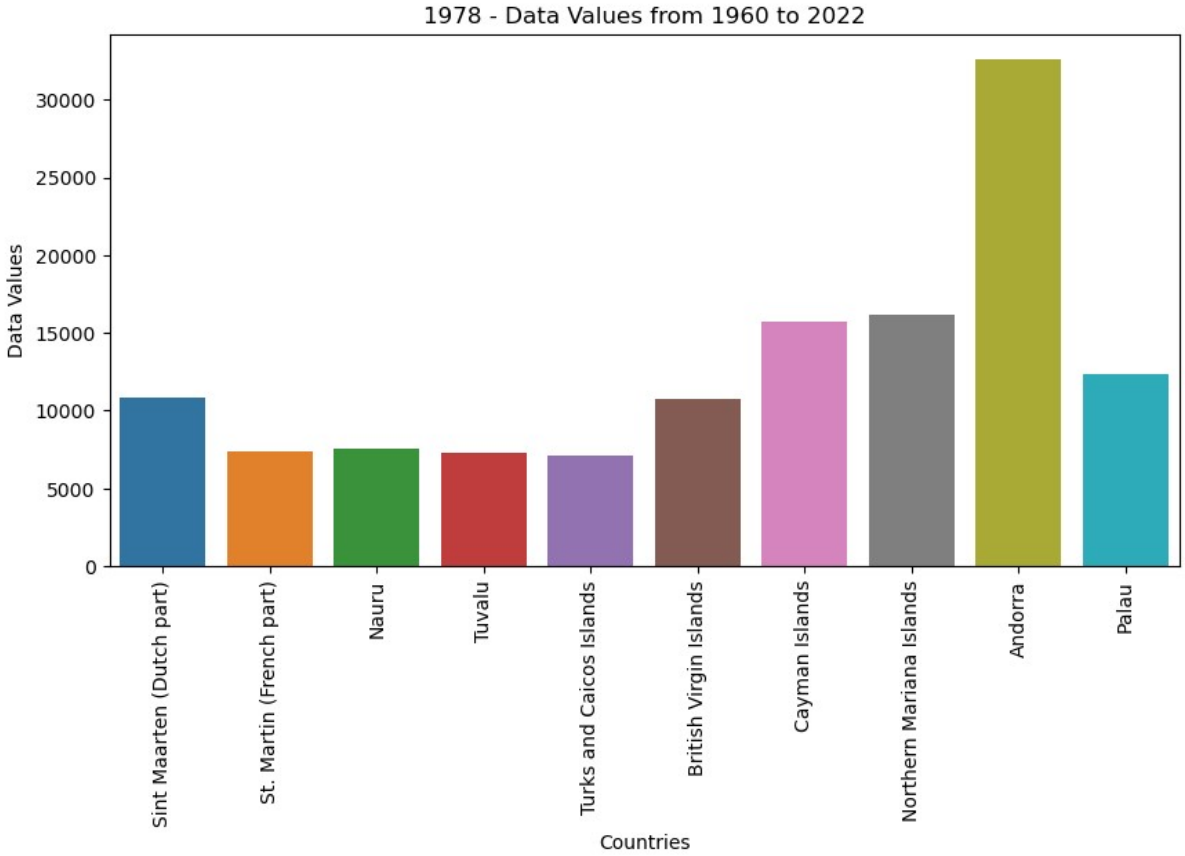
Countries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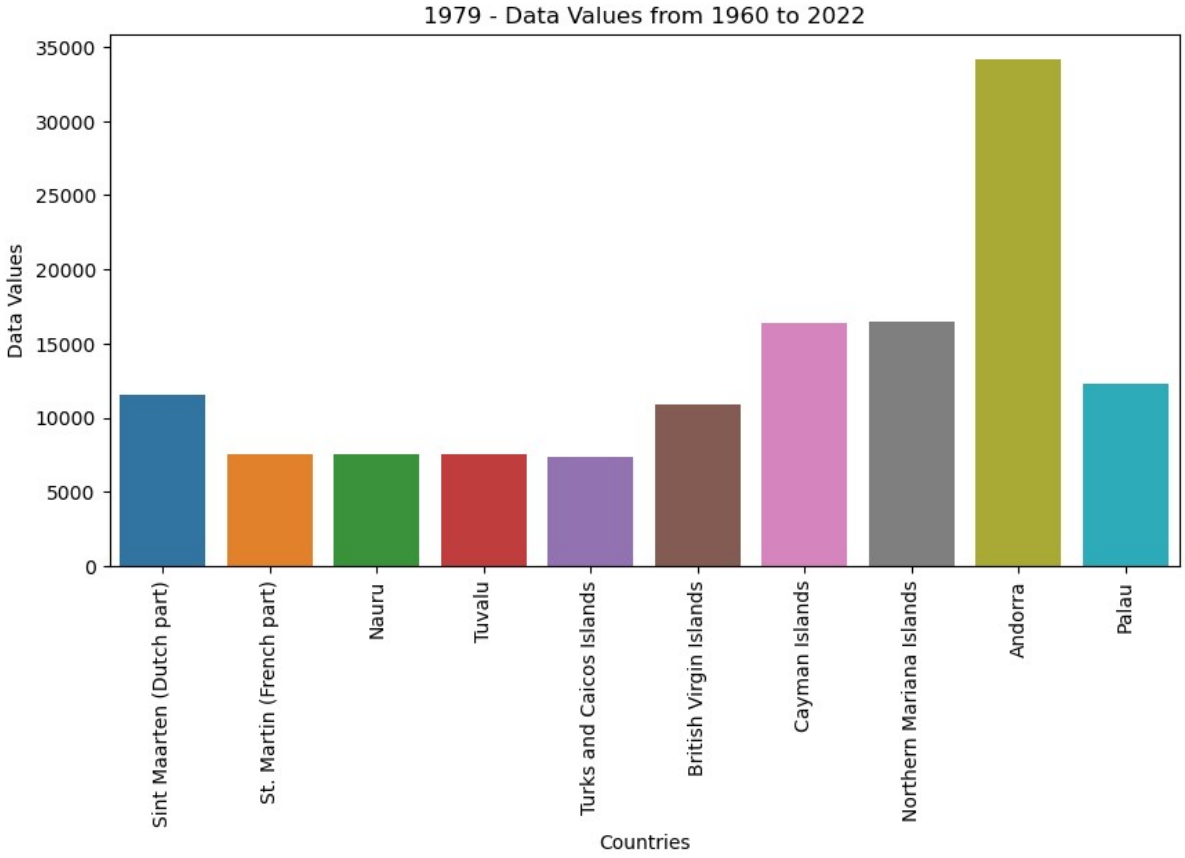
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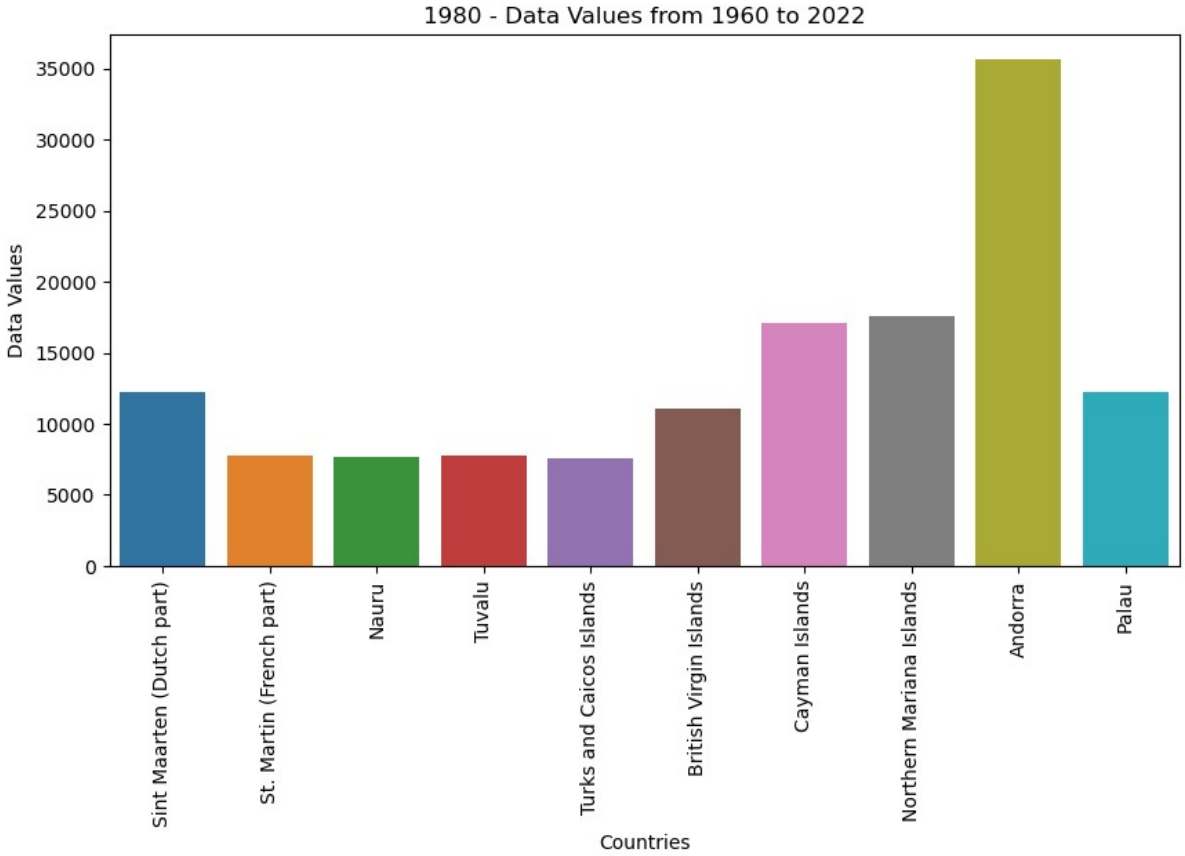
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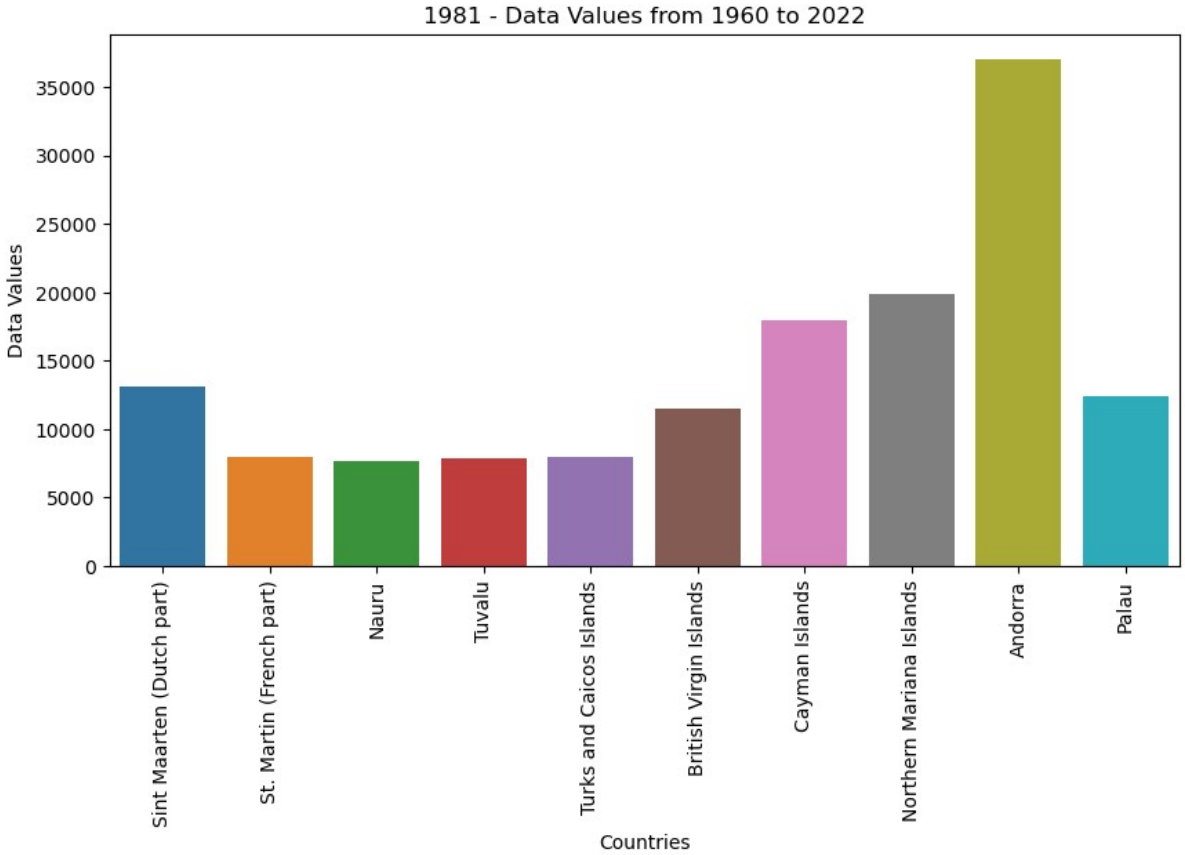
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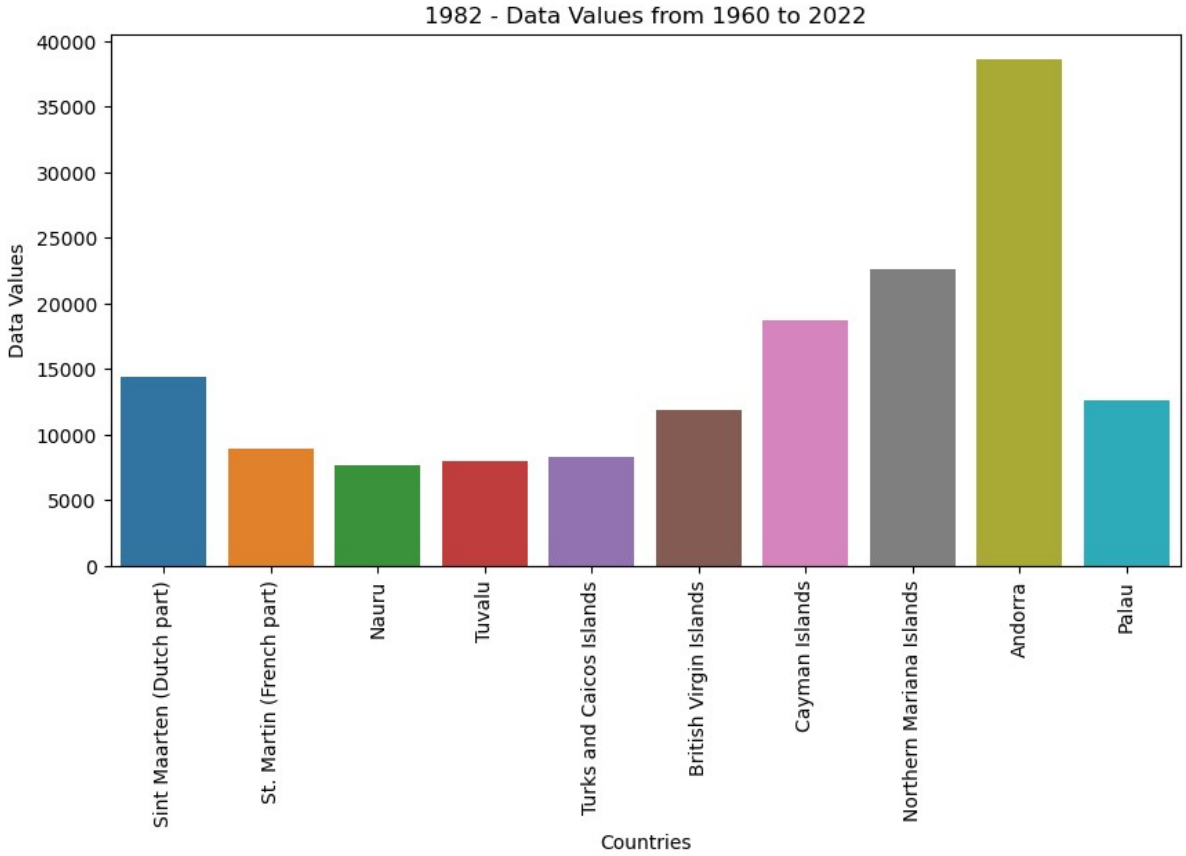
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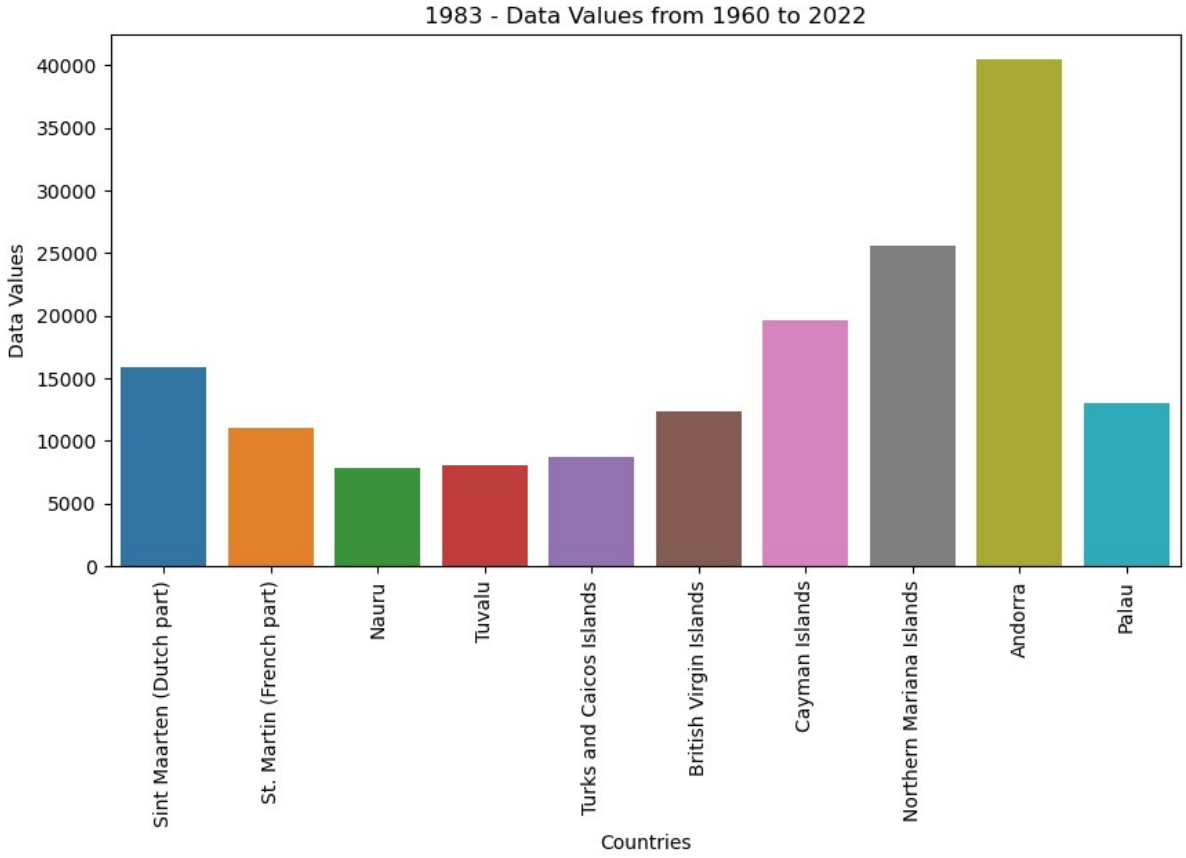
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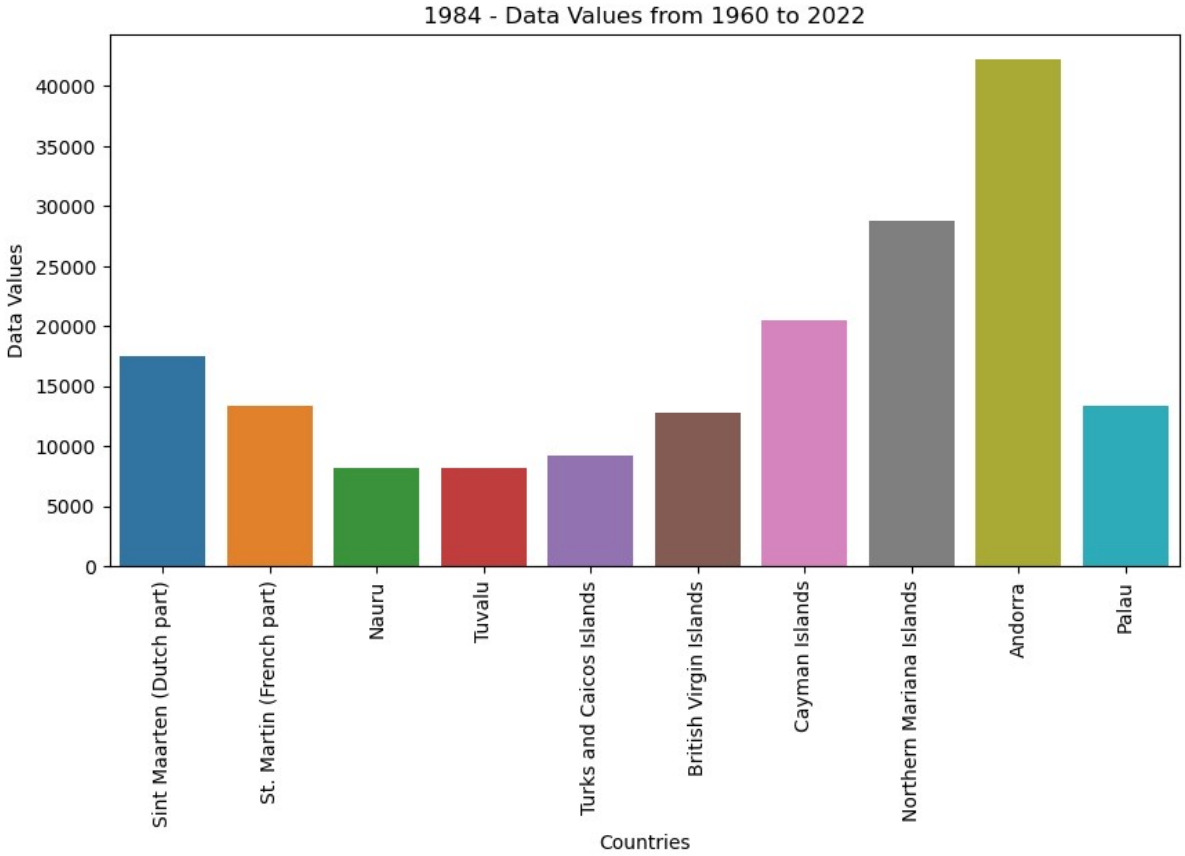
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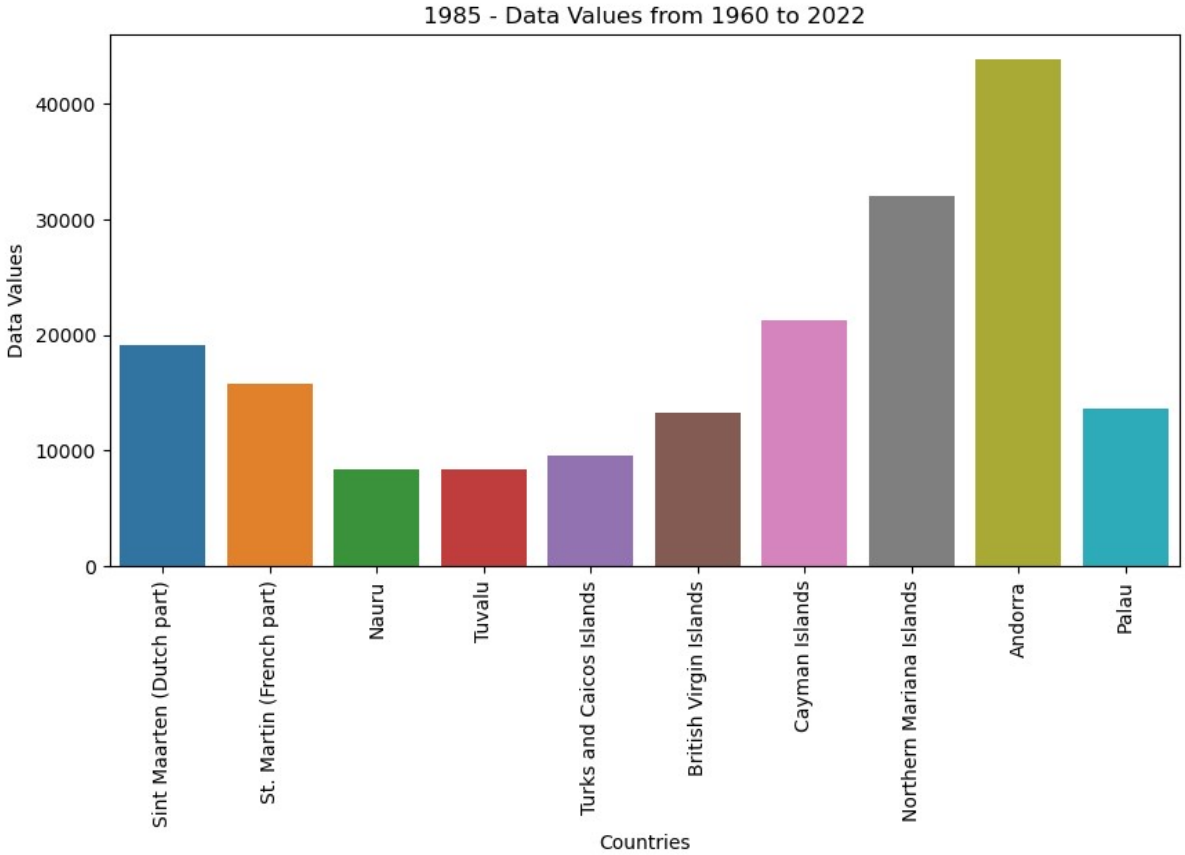
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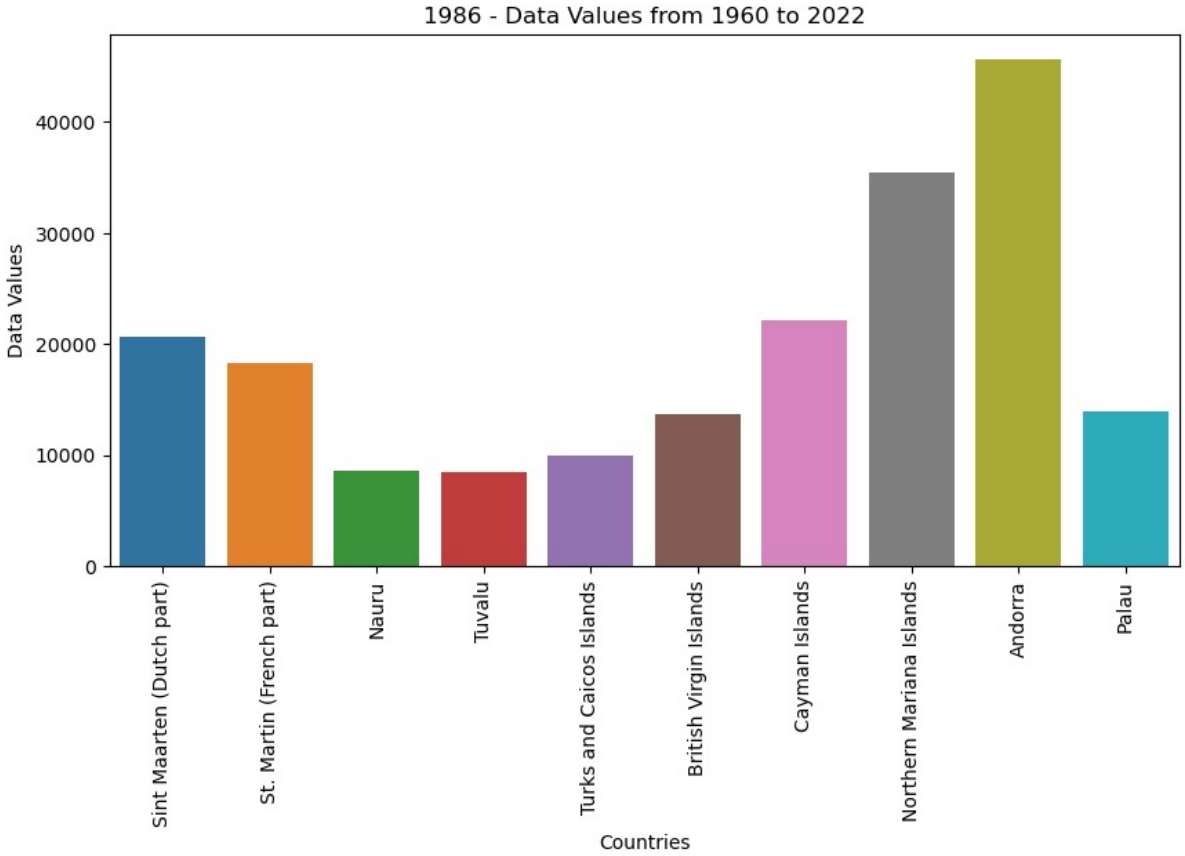
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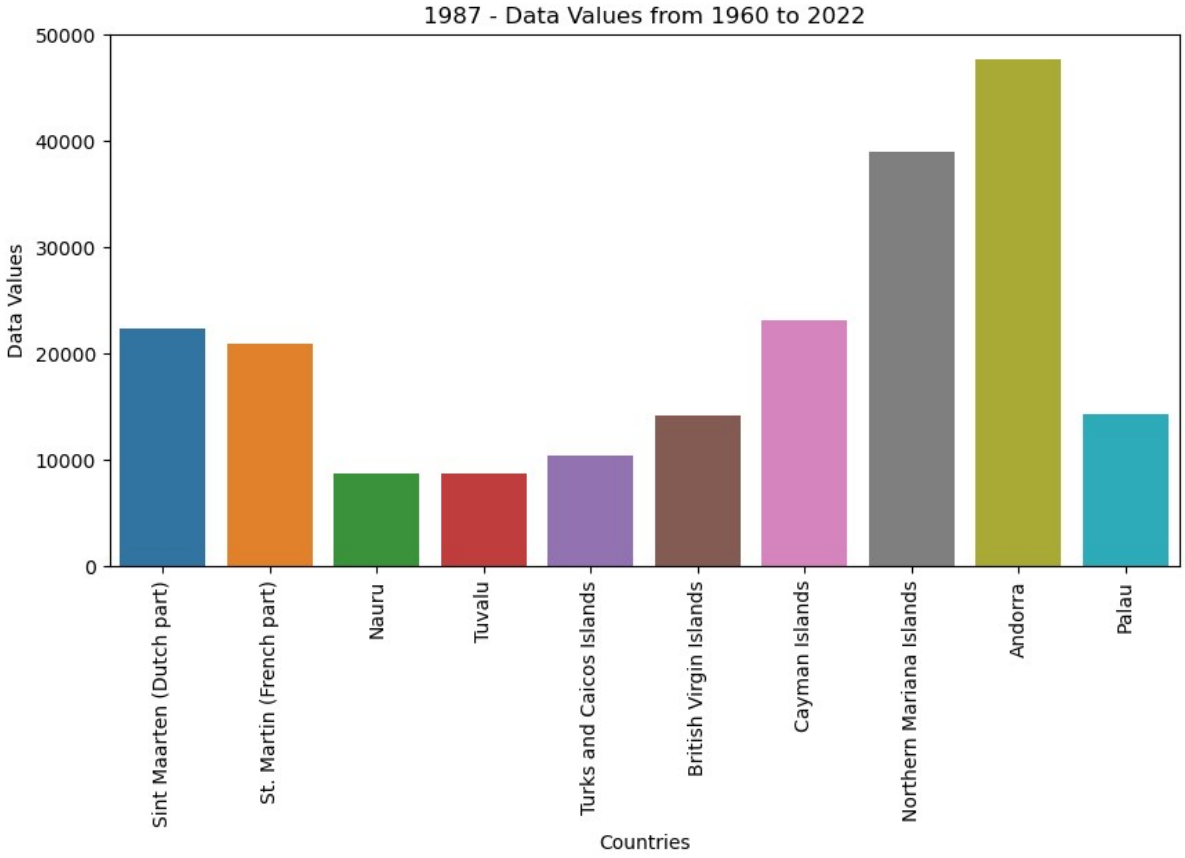
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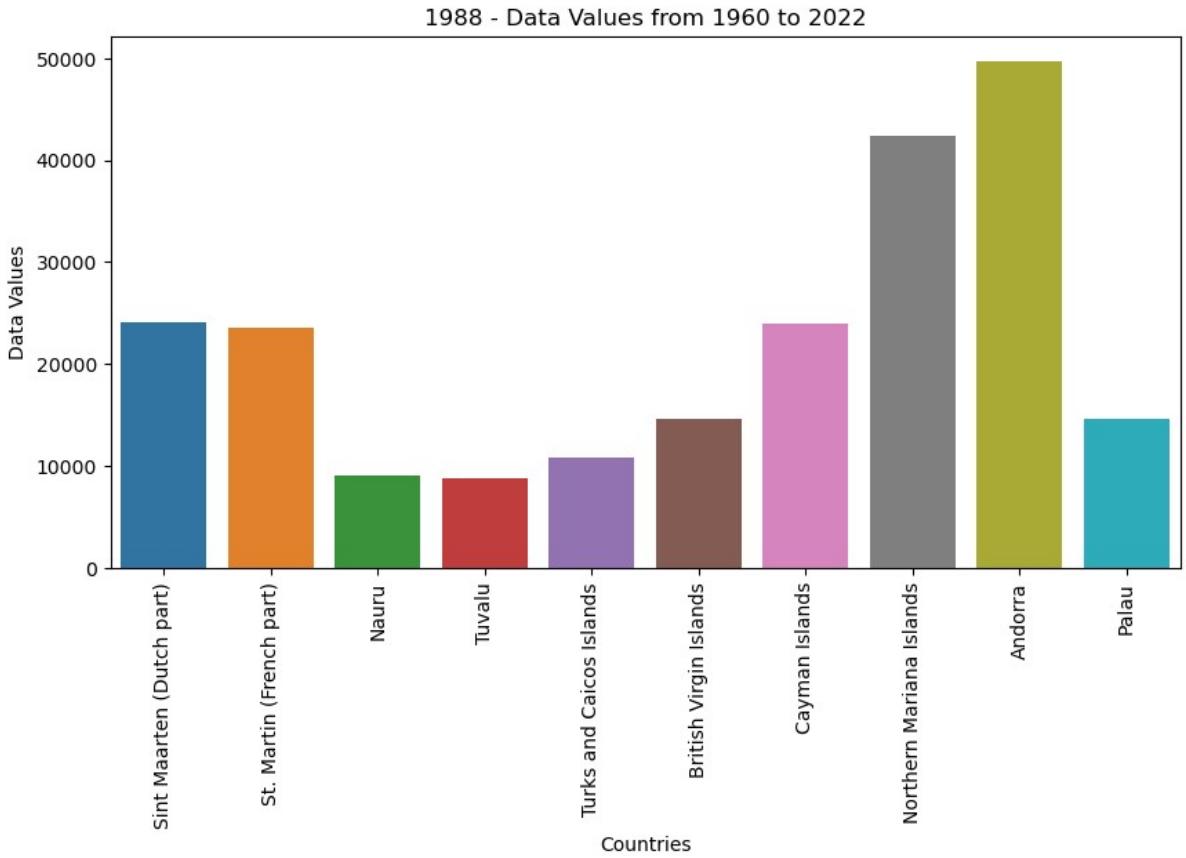
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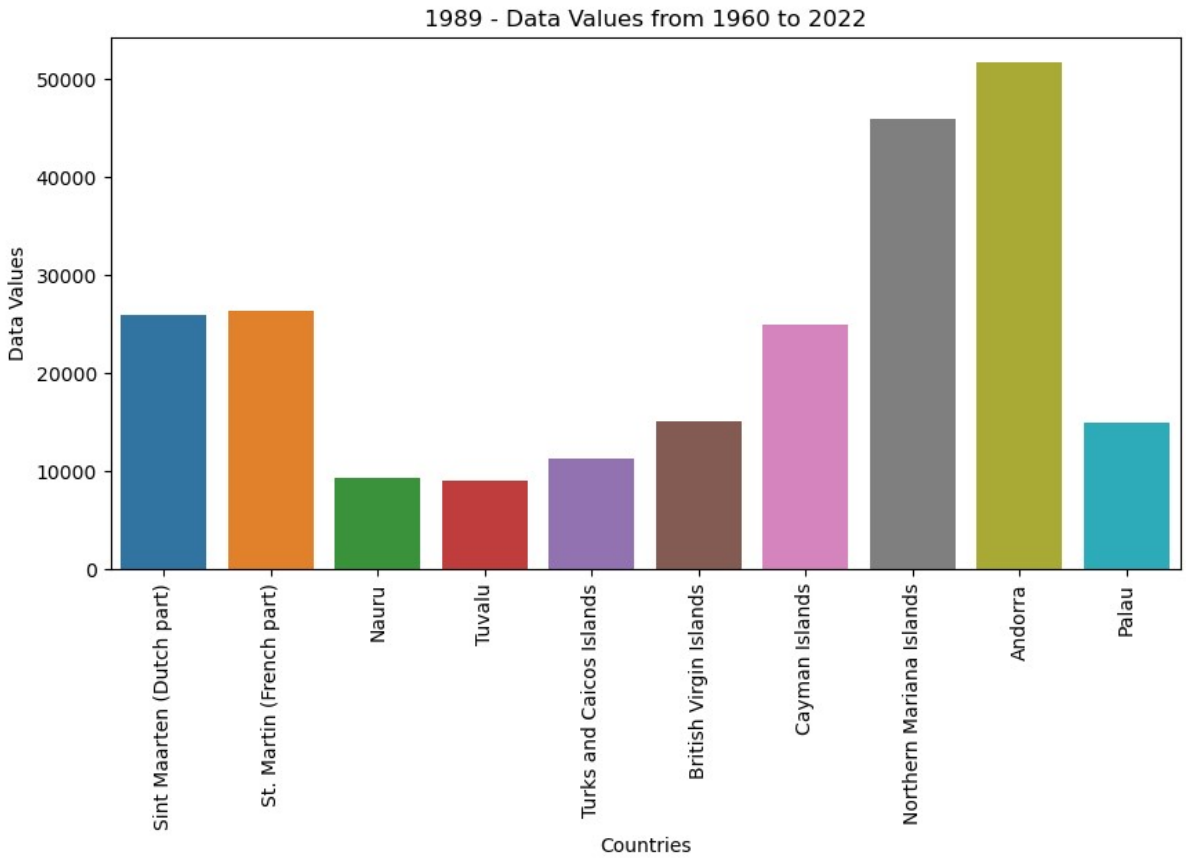
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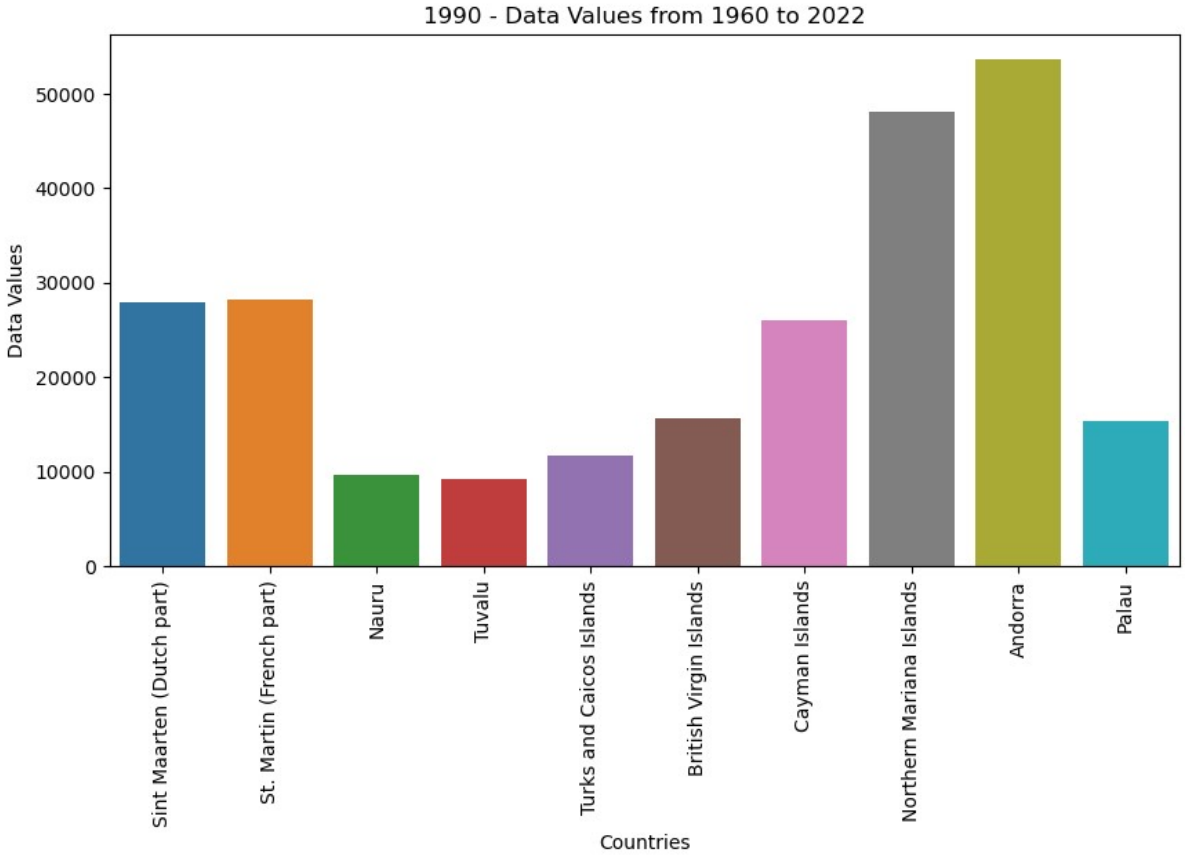
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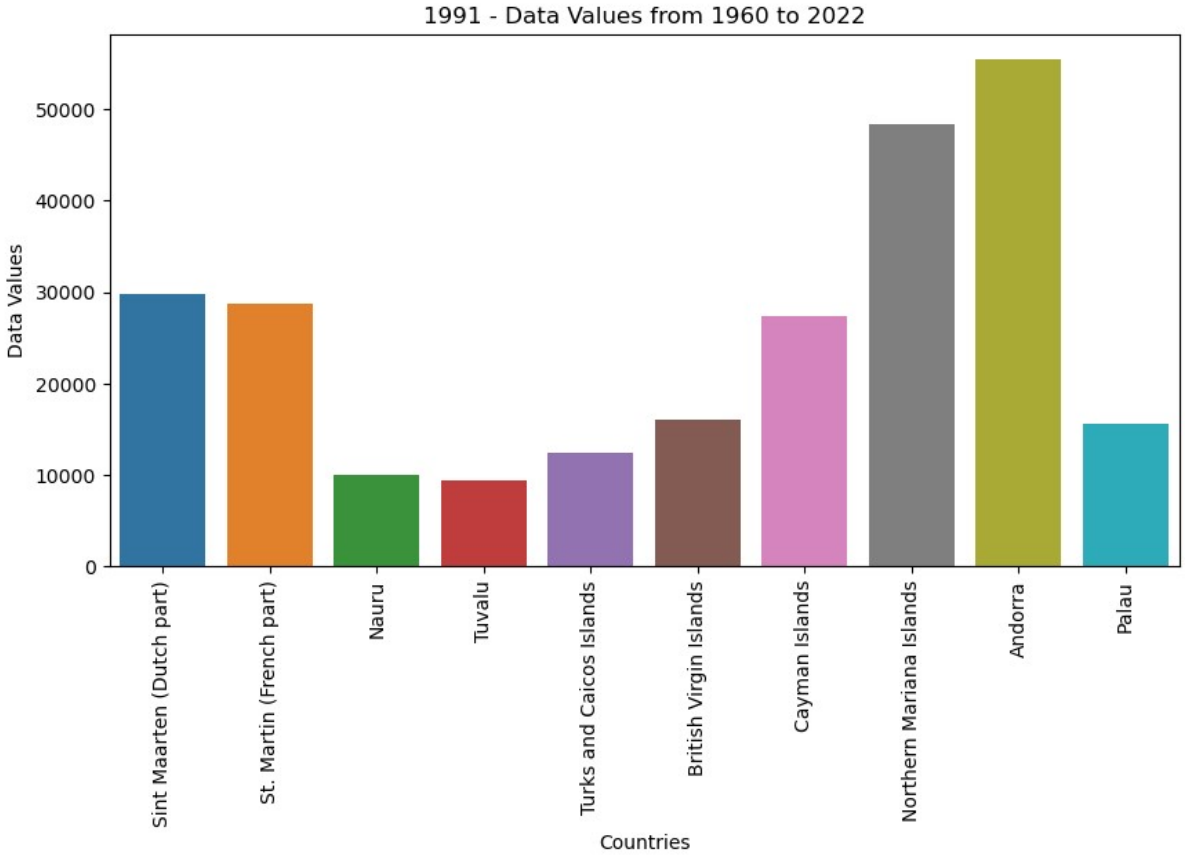
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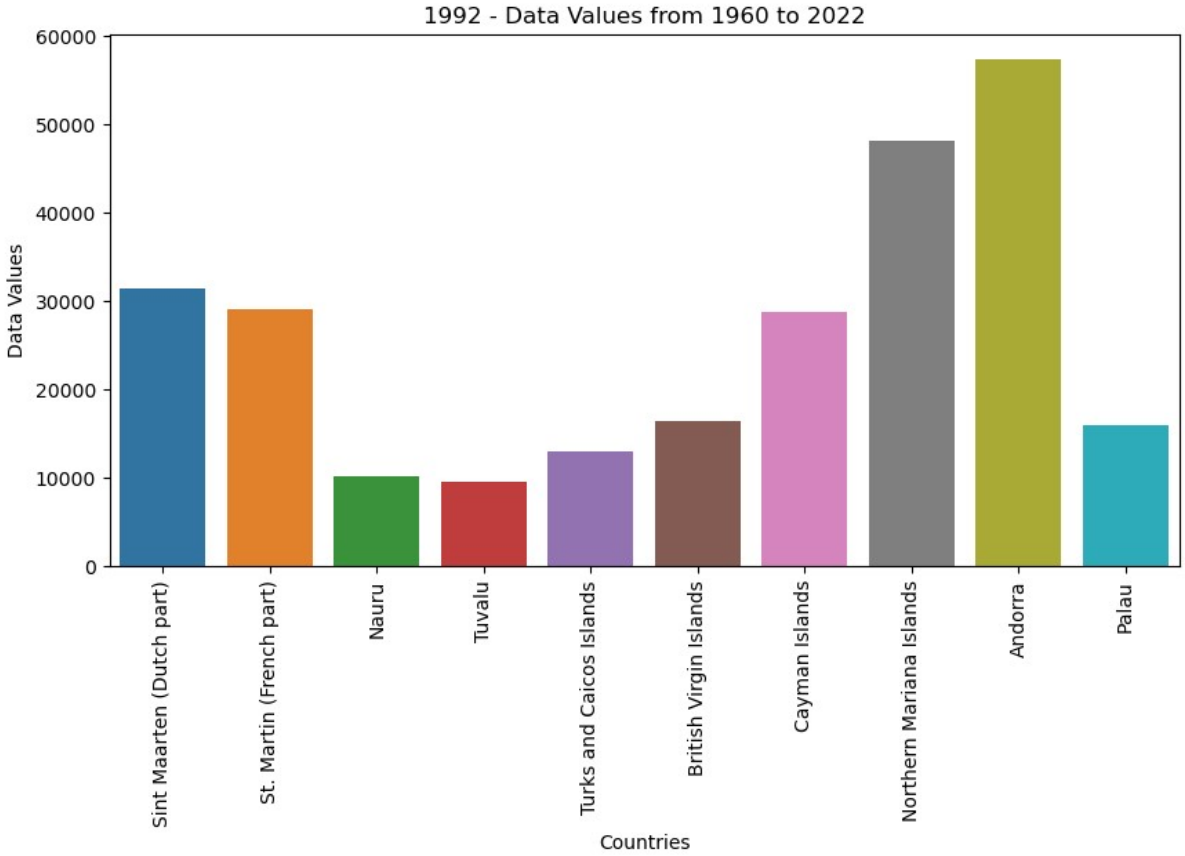
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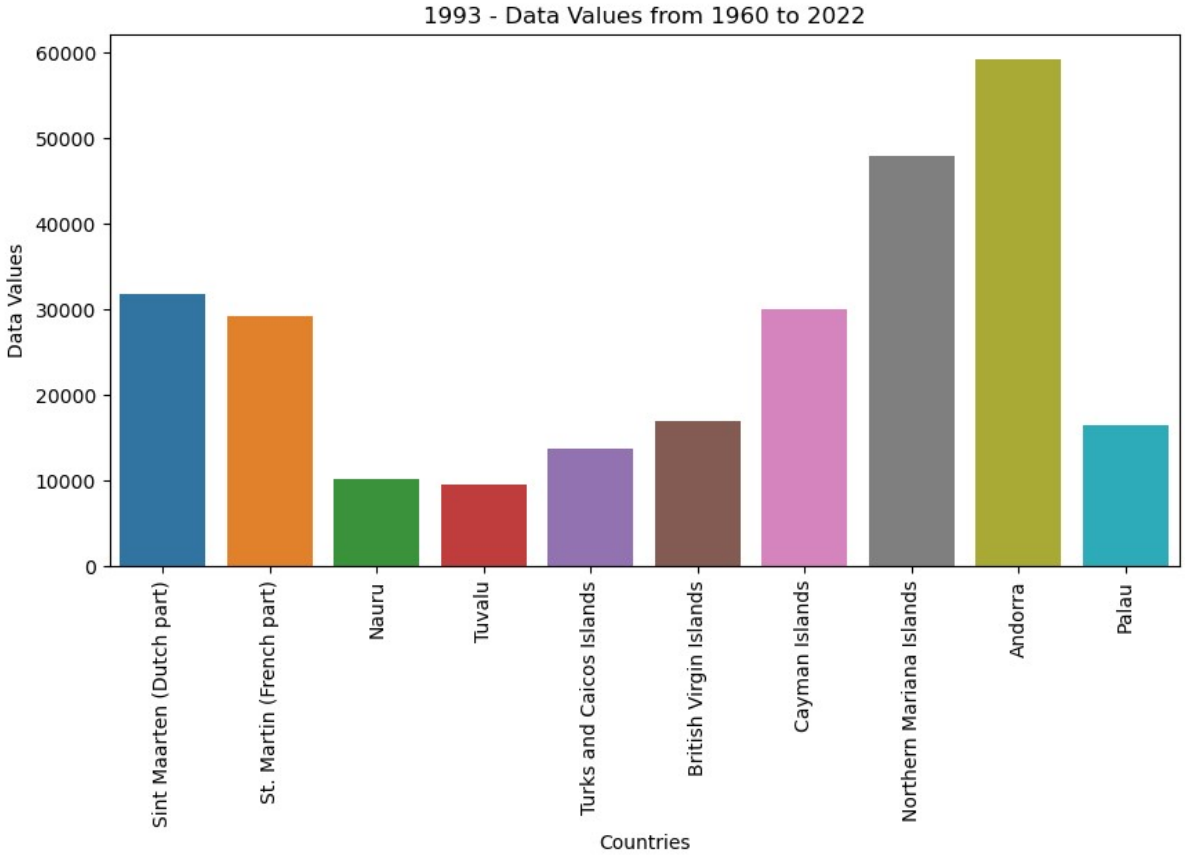
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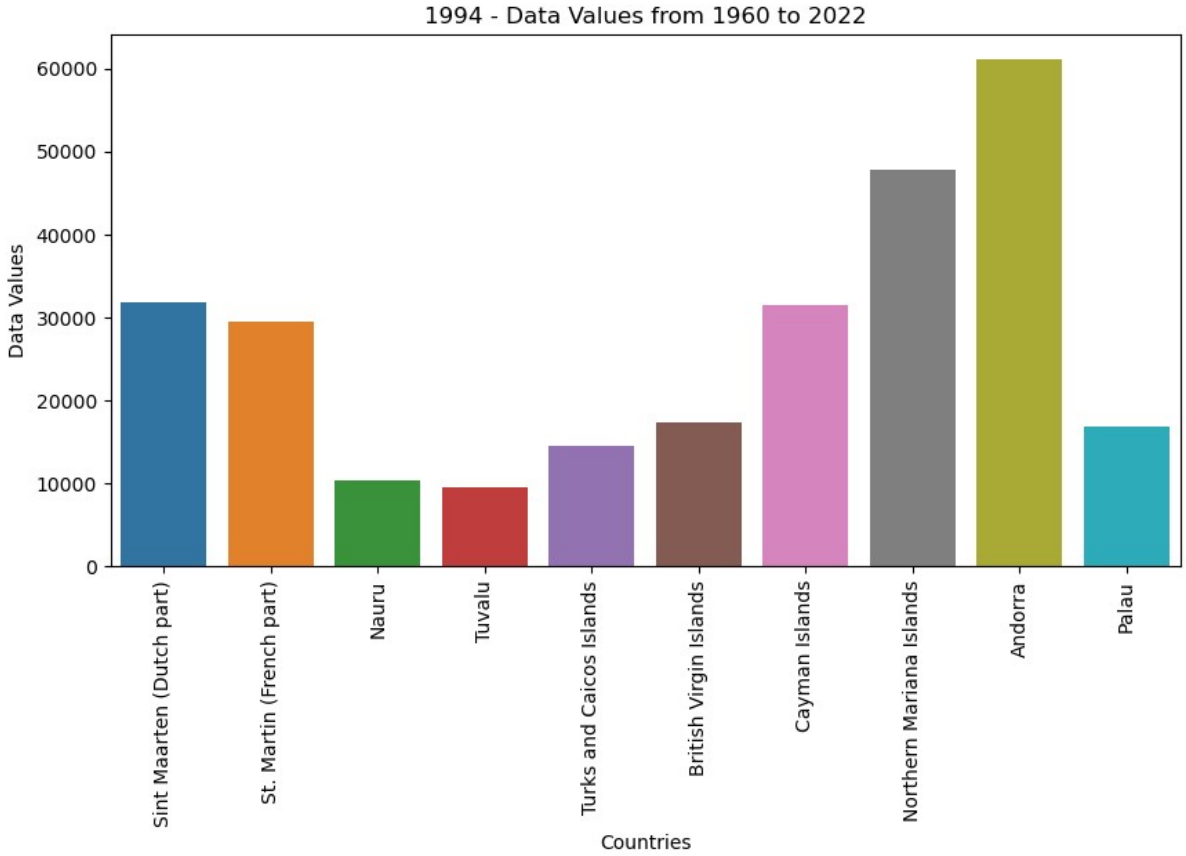
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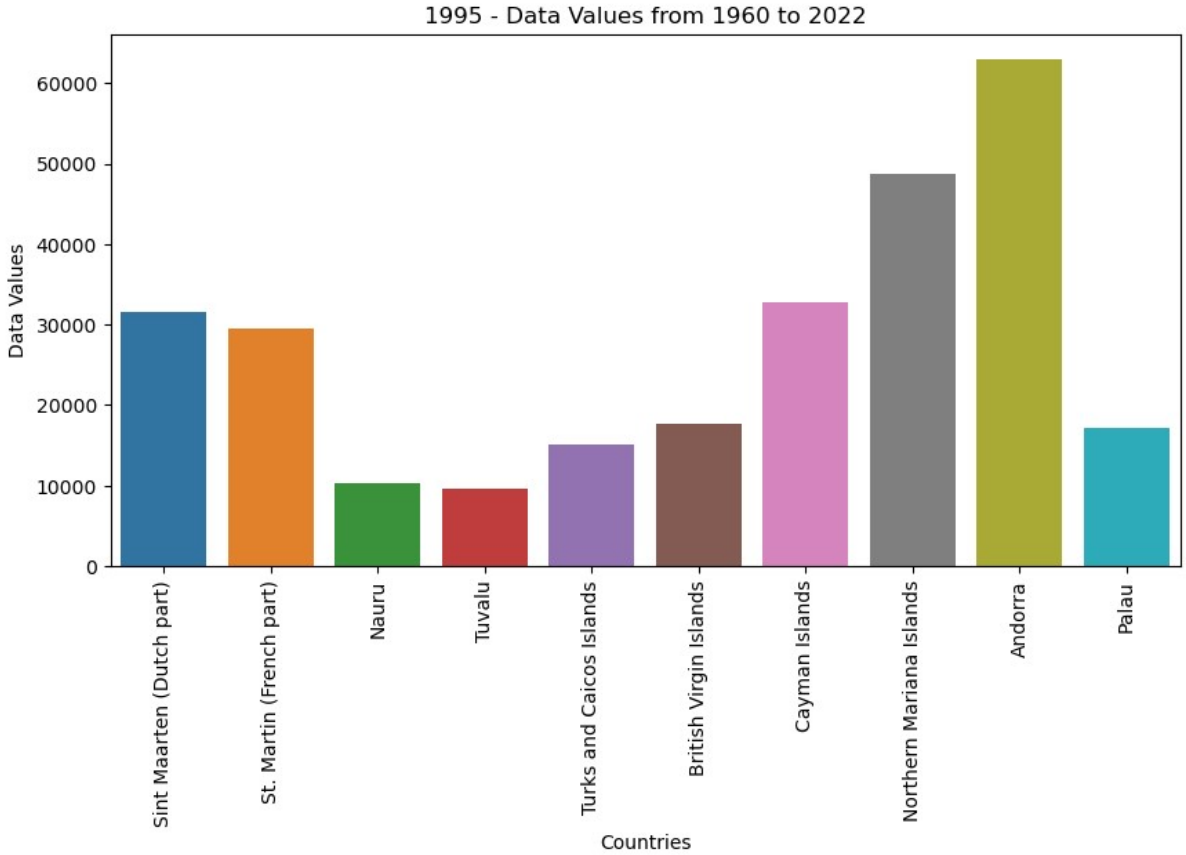
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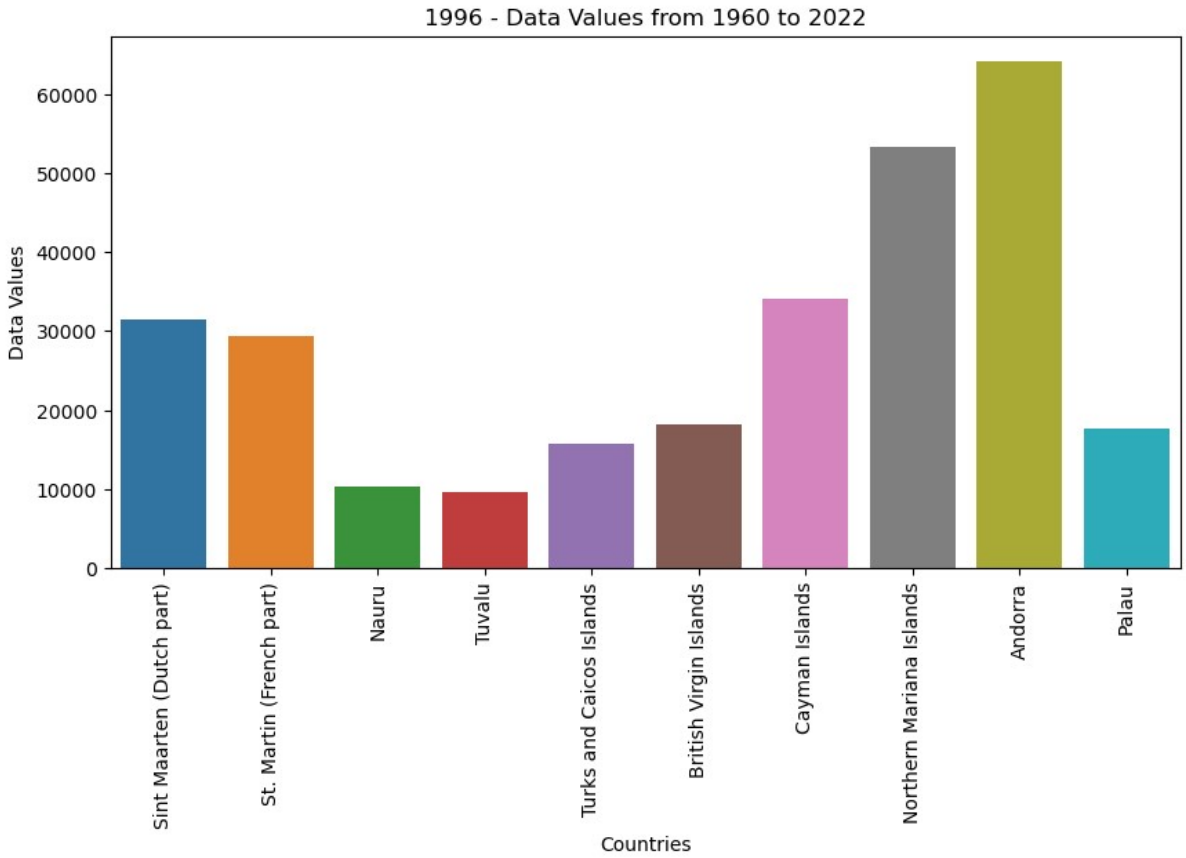
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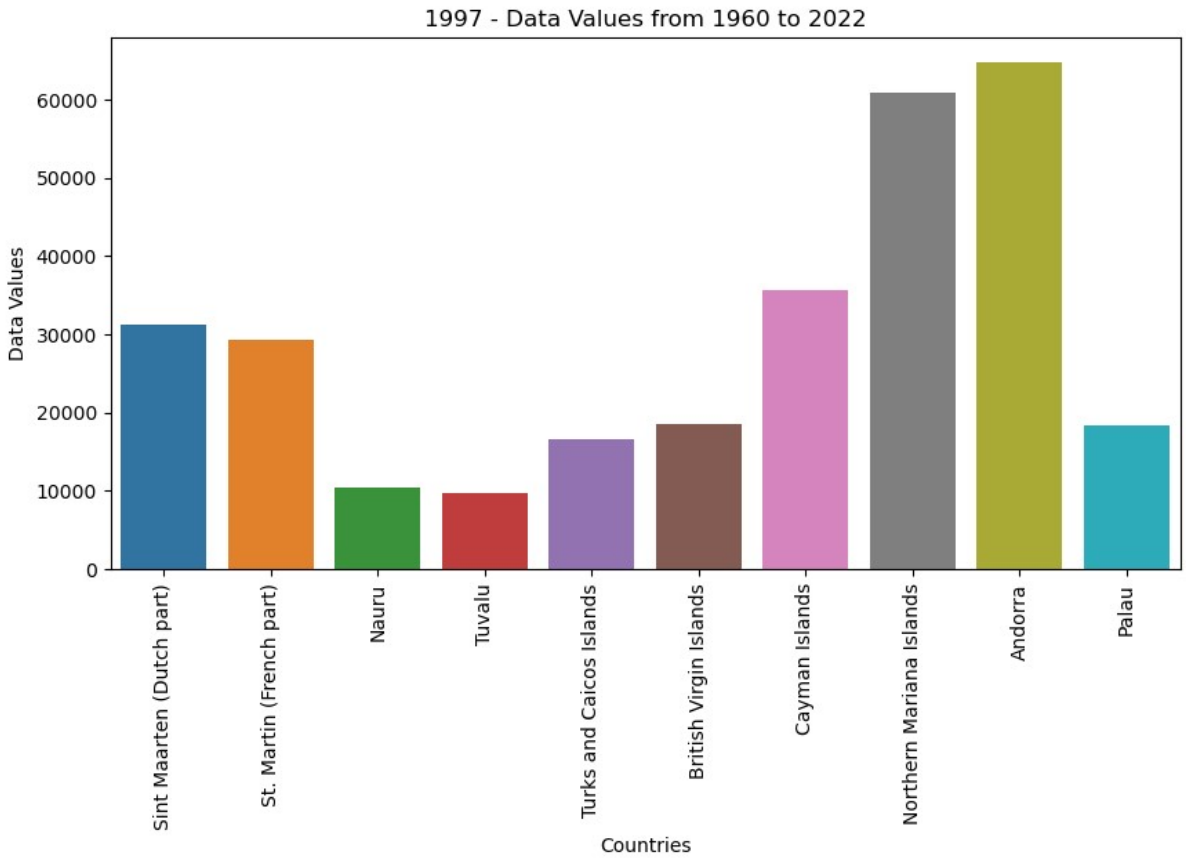
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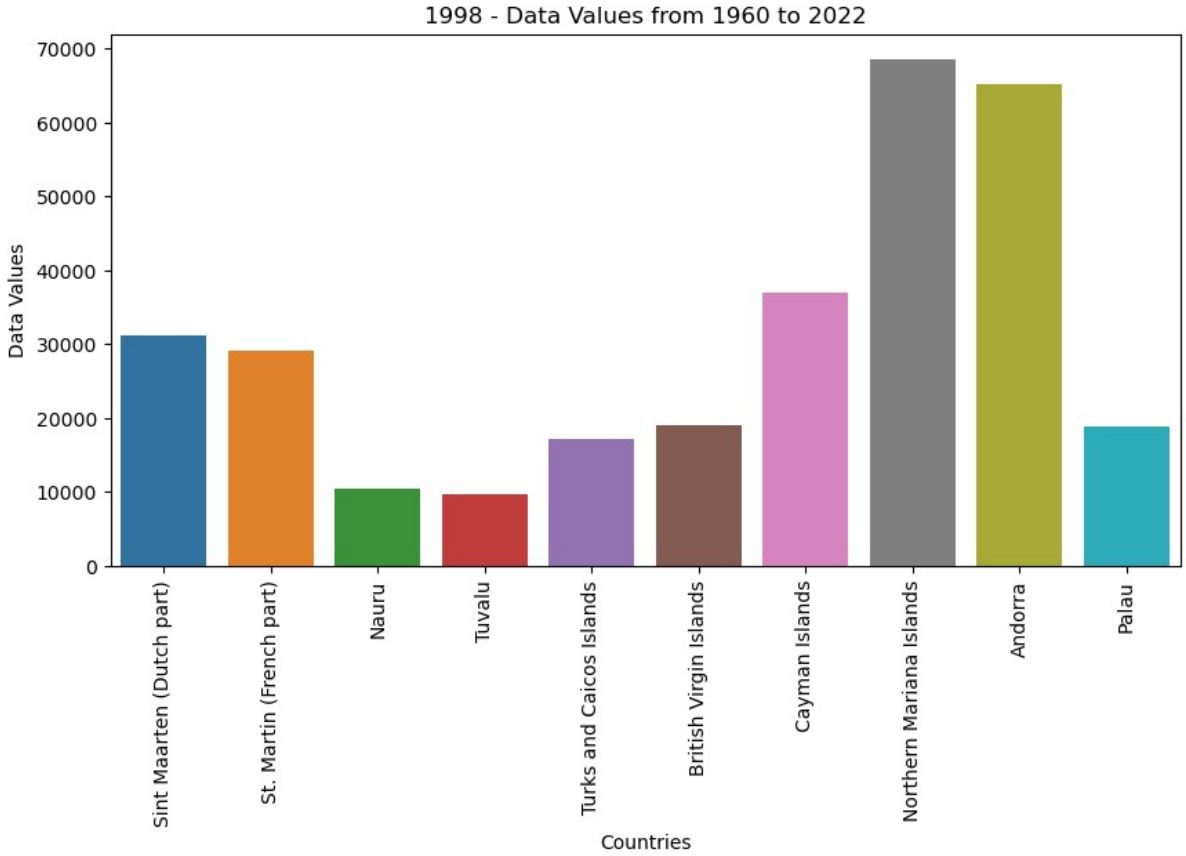
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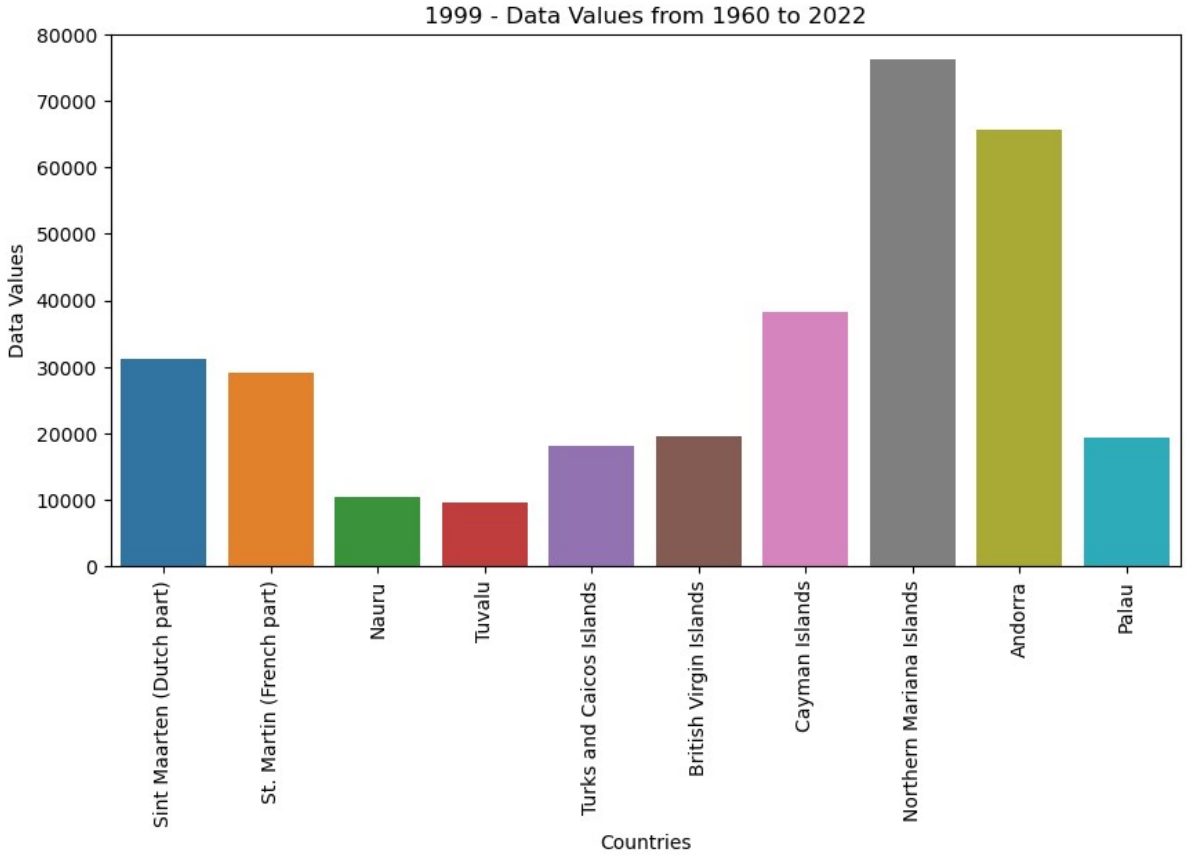
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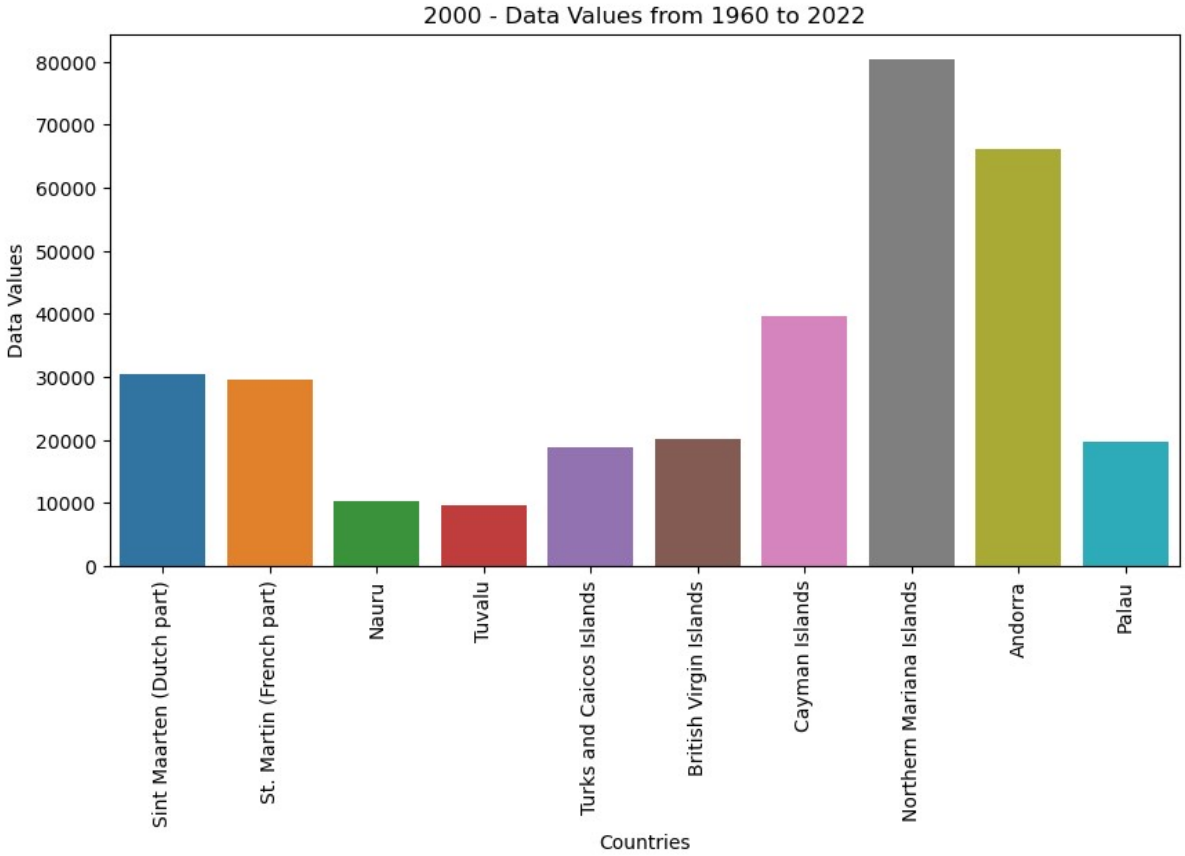
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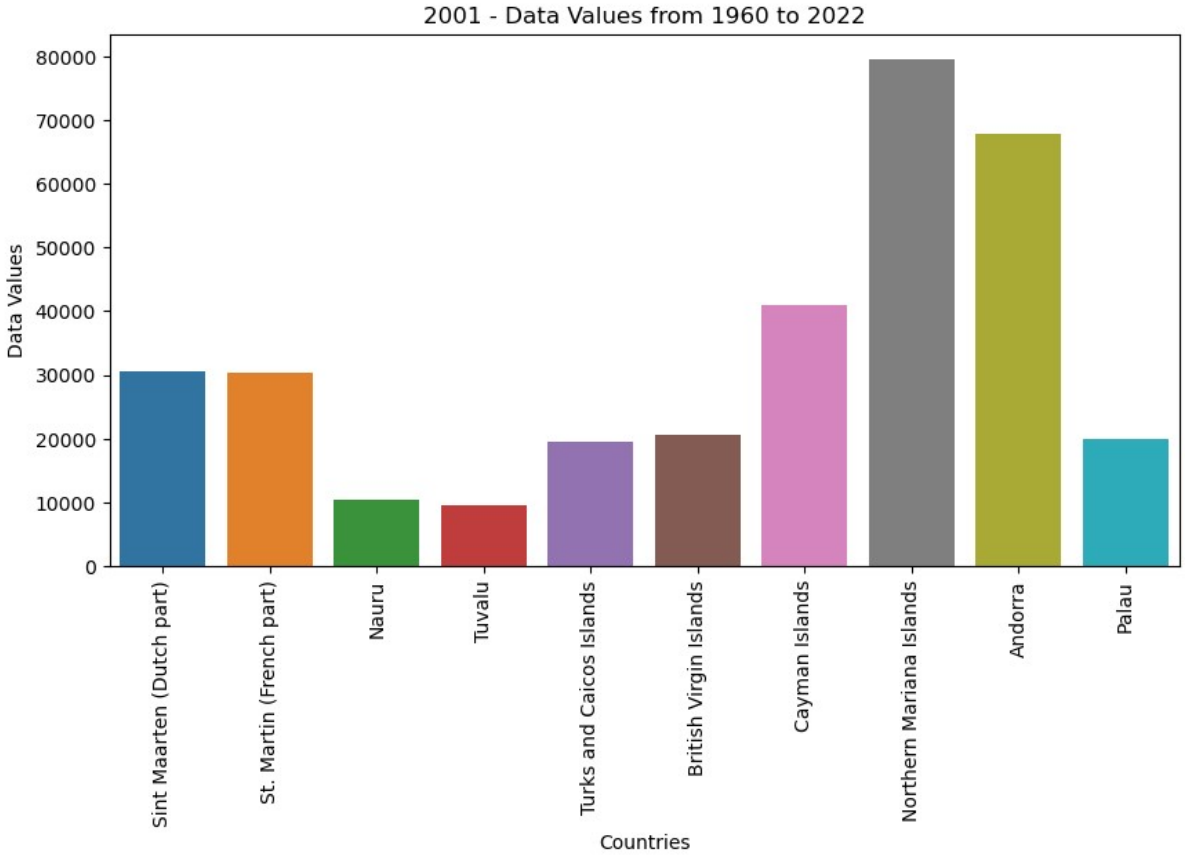
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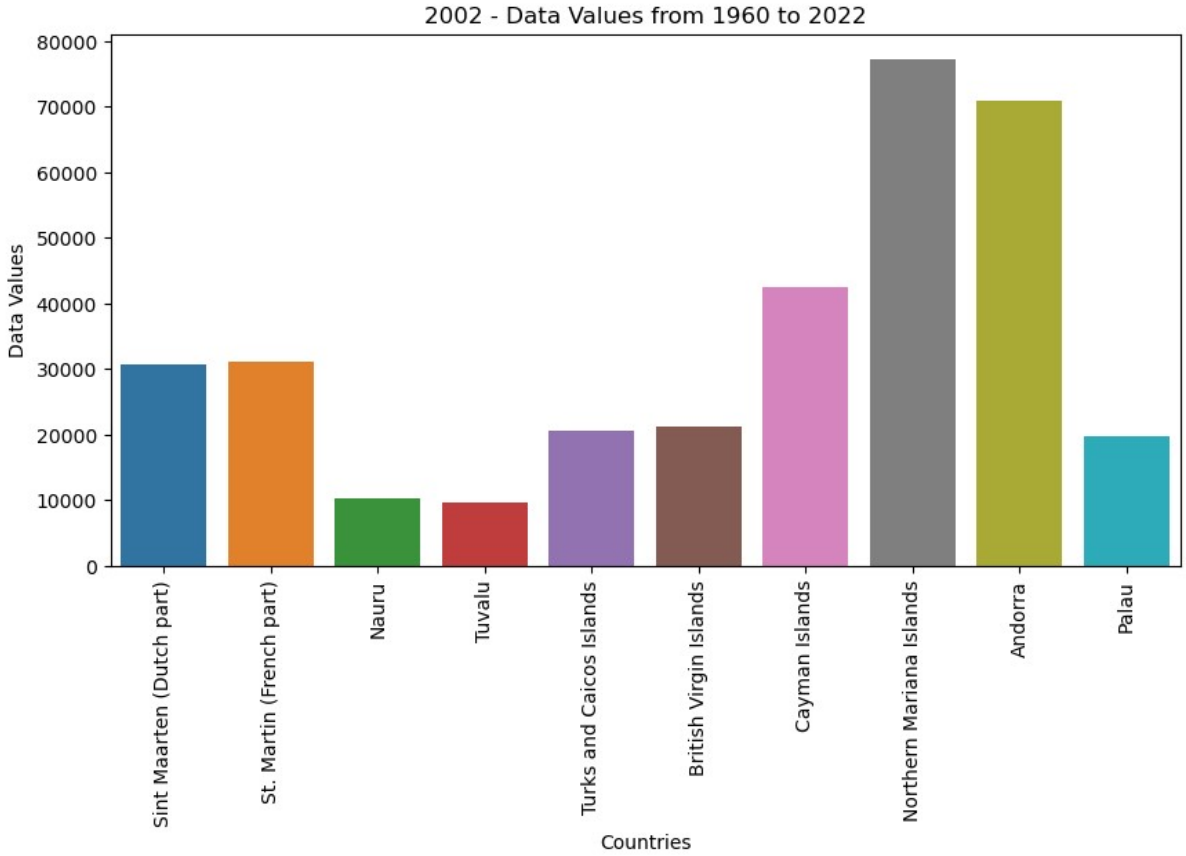
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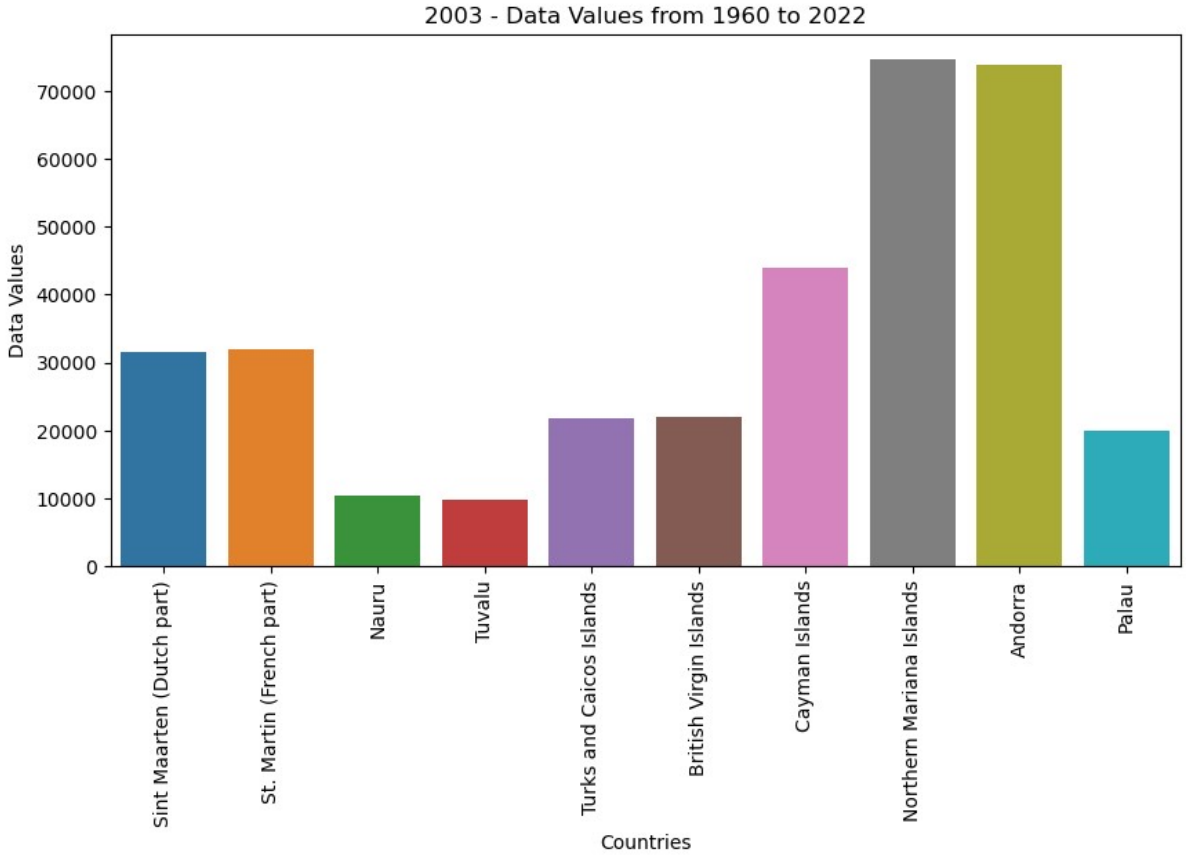
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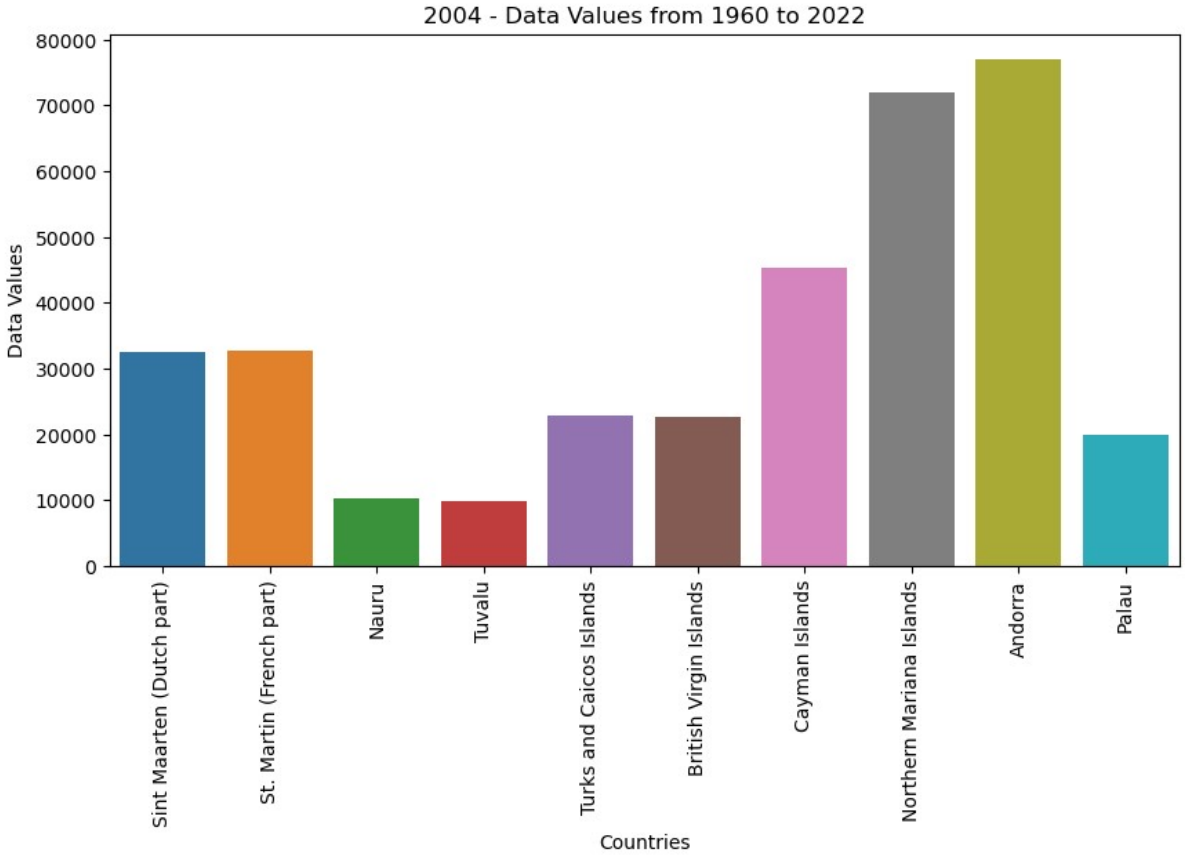
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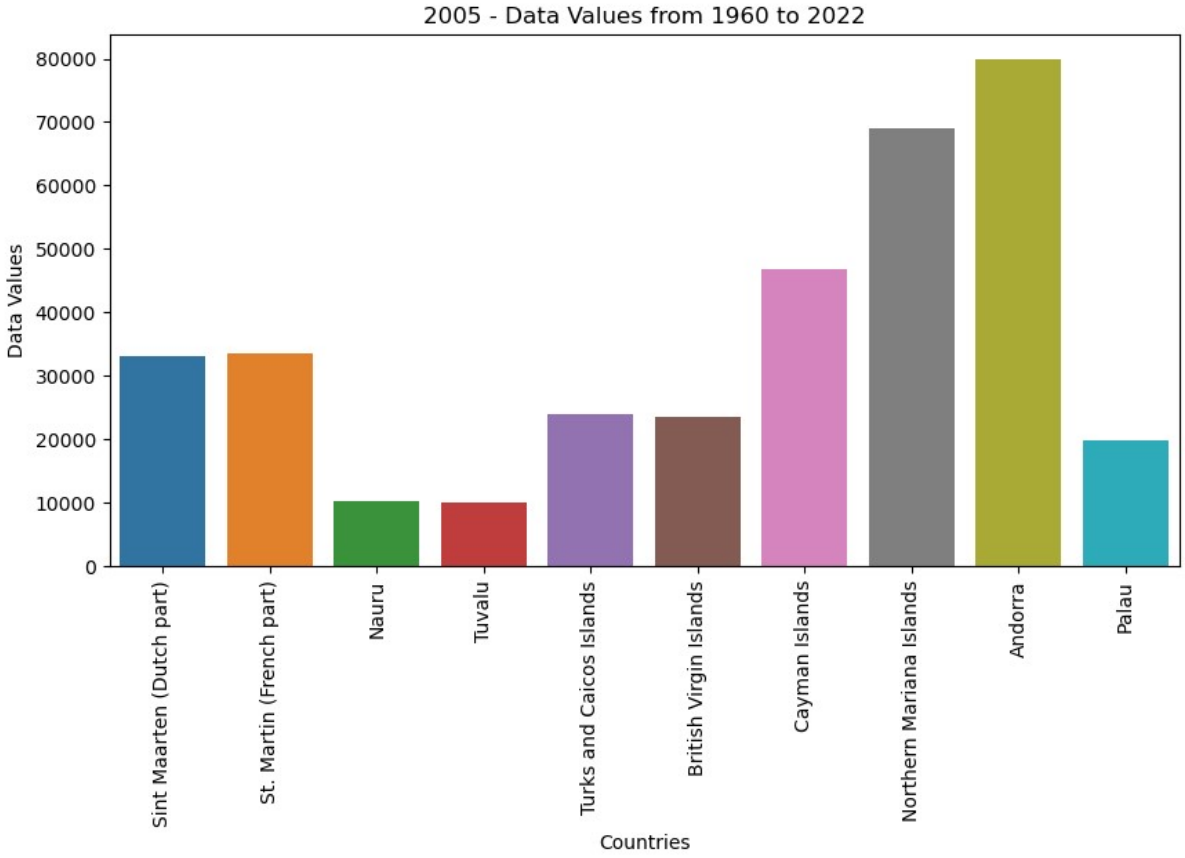
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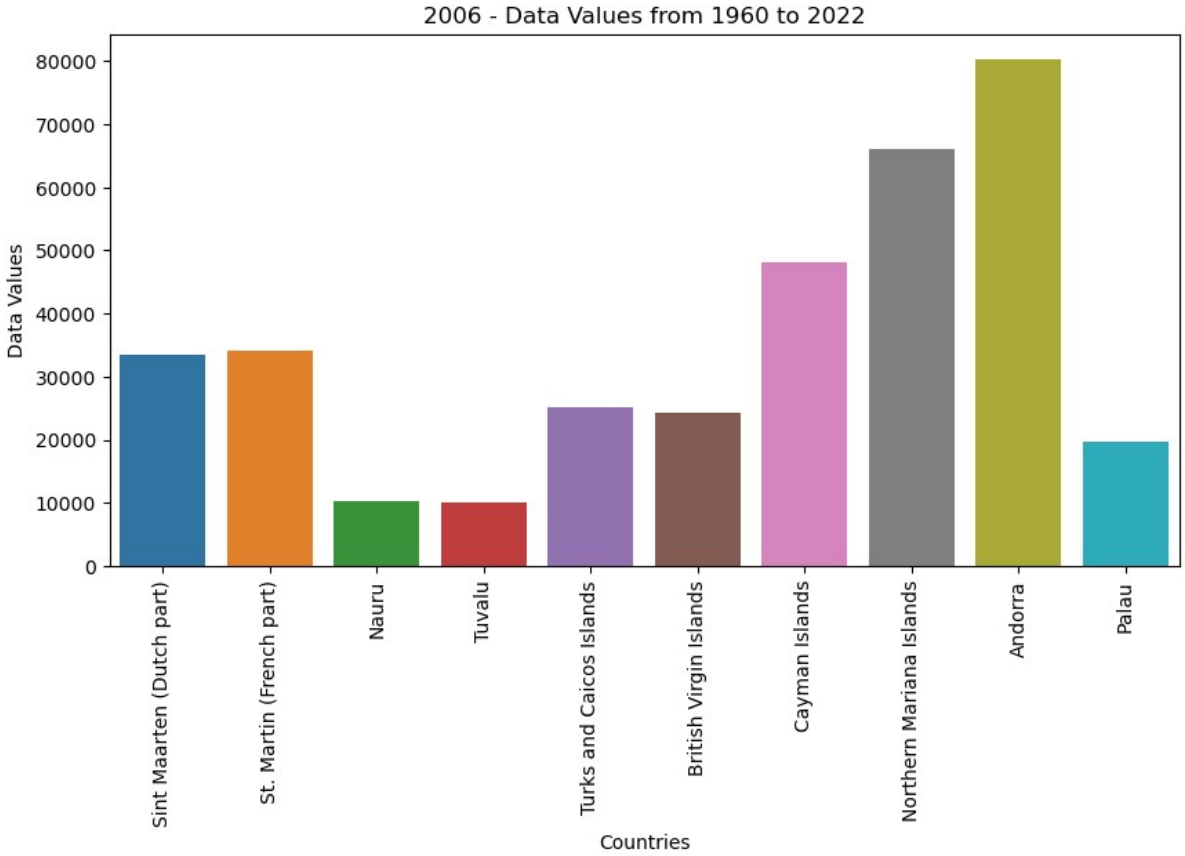
Countries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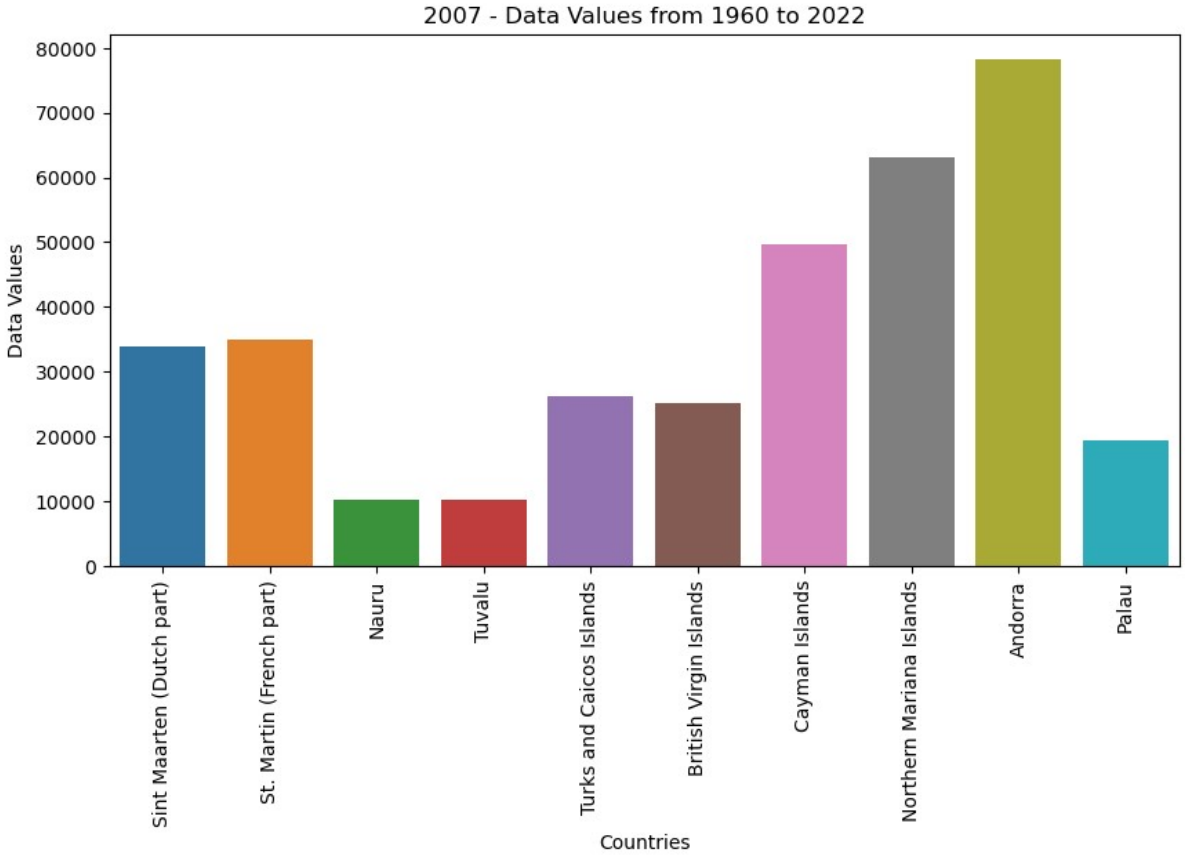
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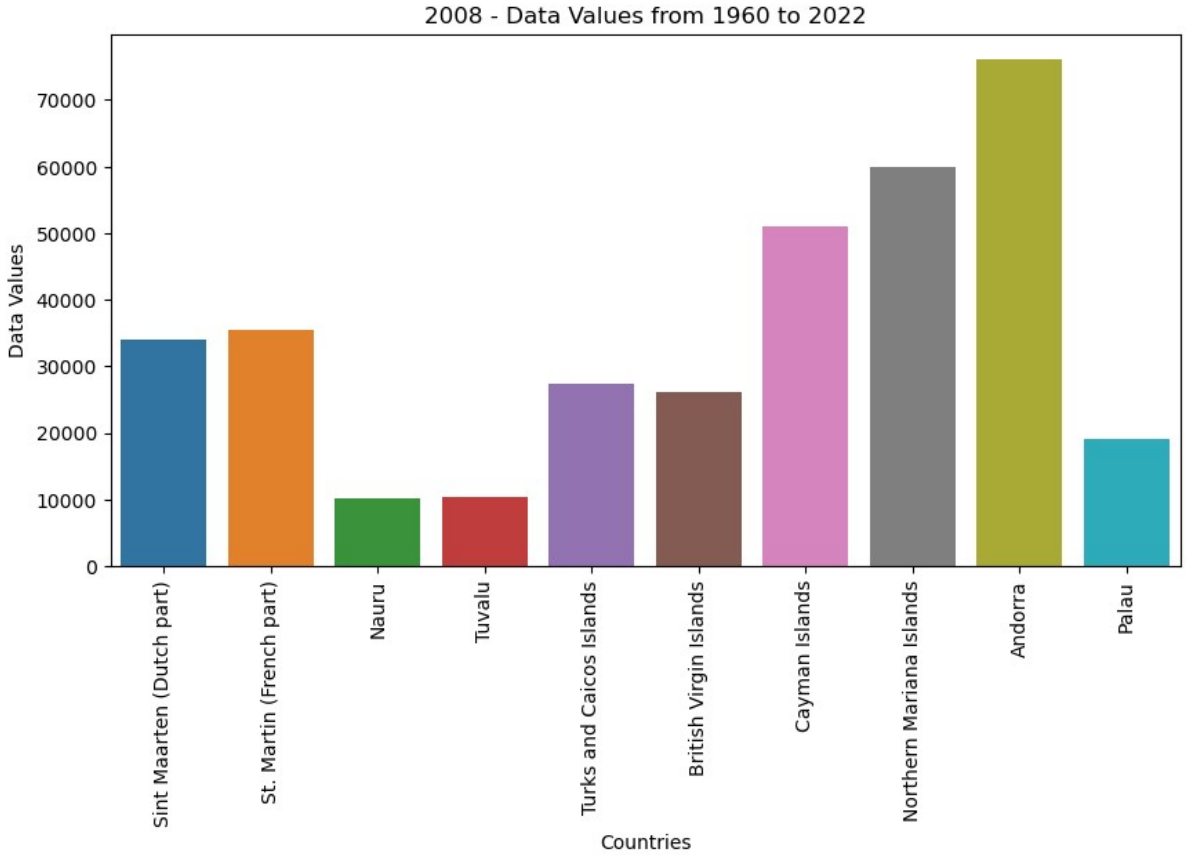
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Andorra
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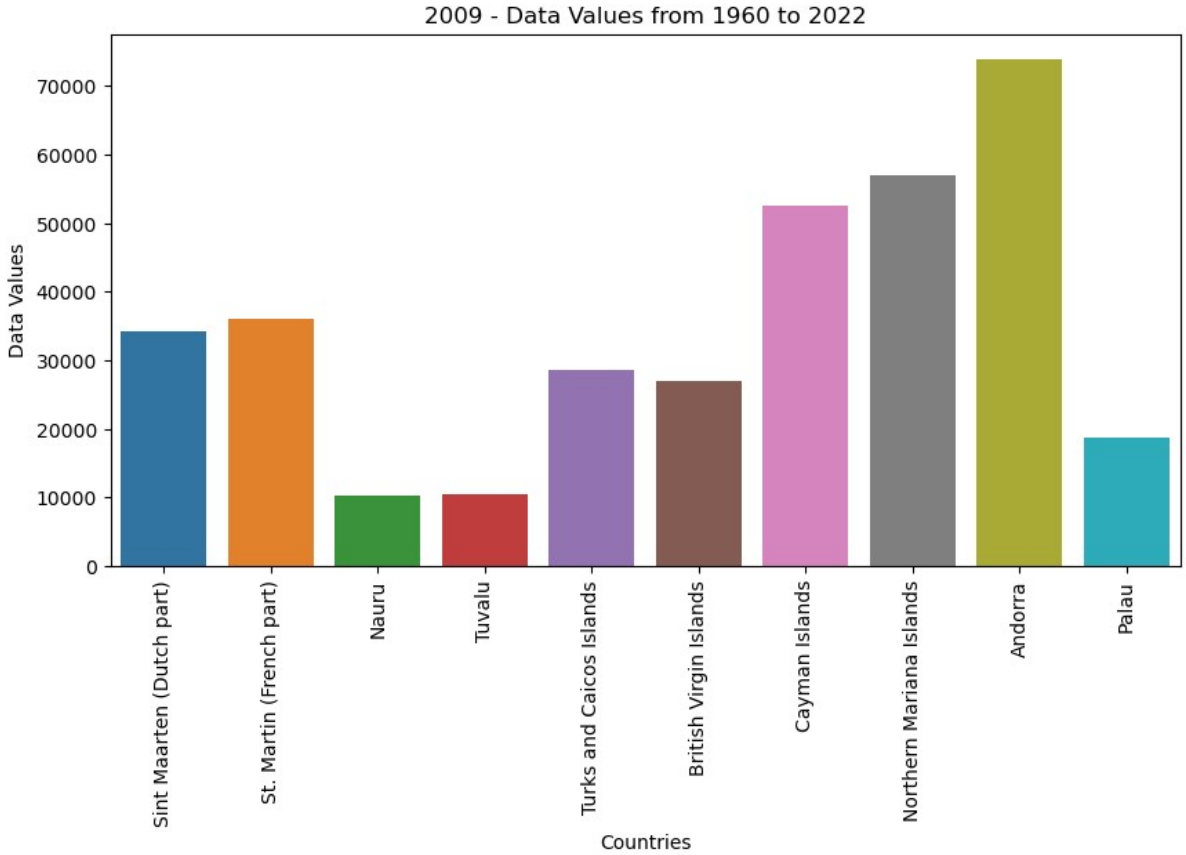
Countries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Andorra
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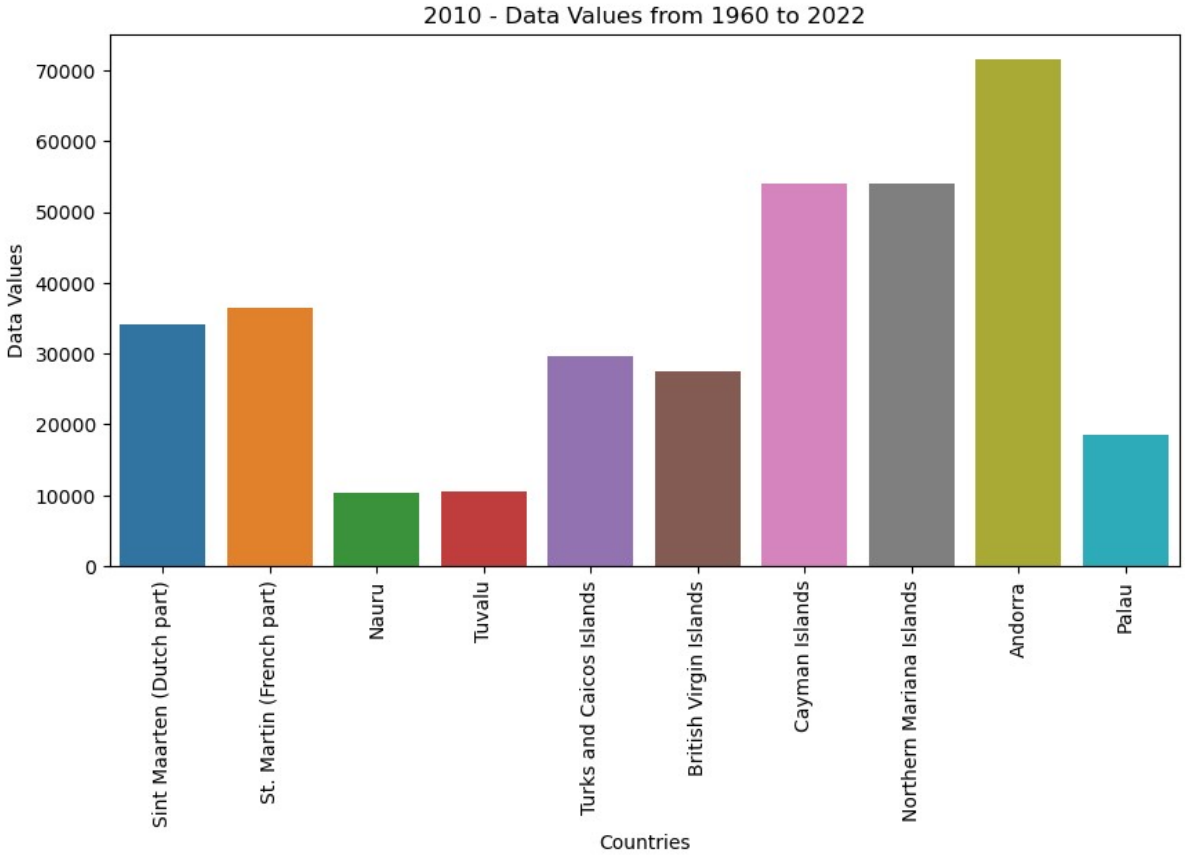
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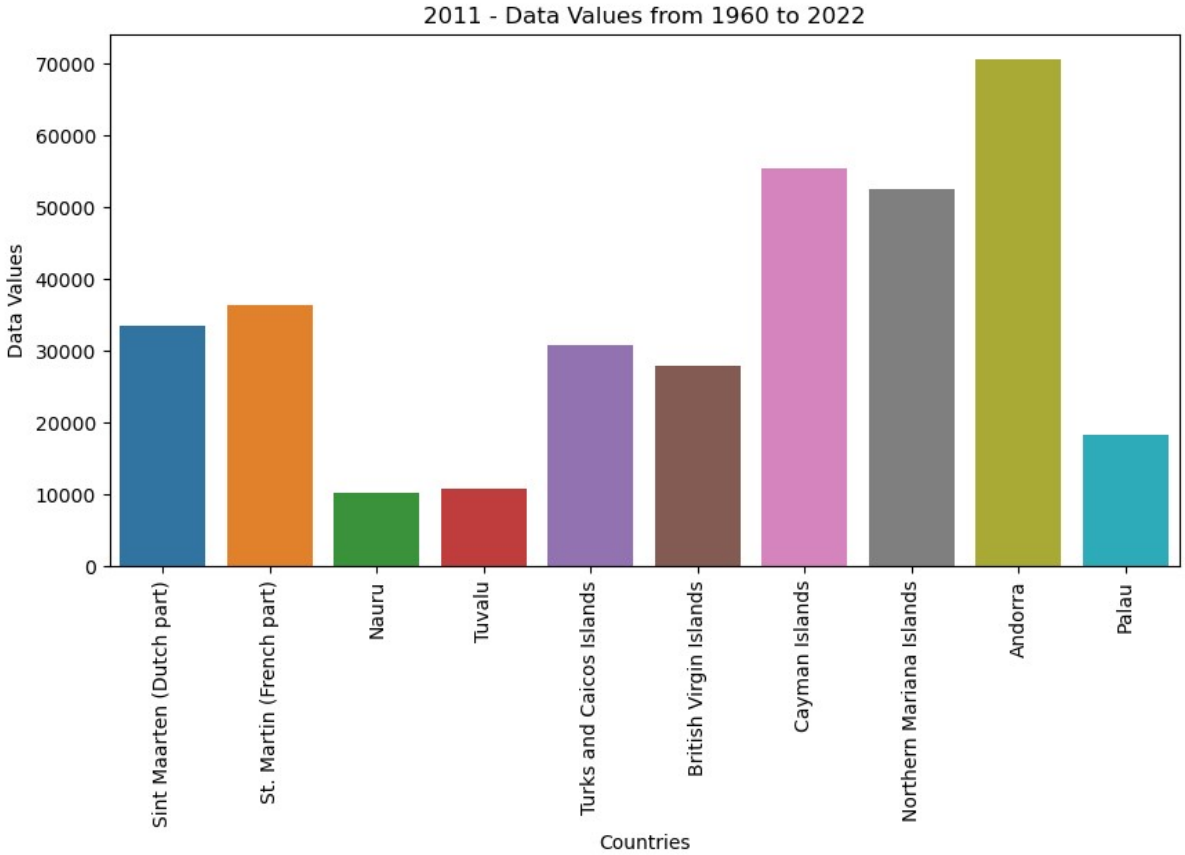
Countries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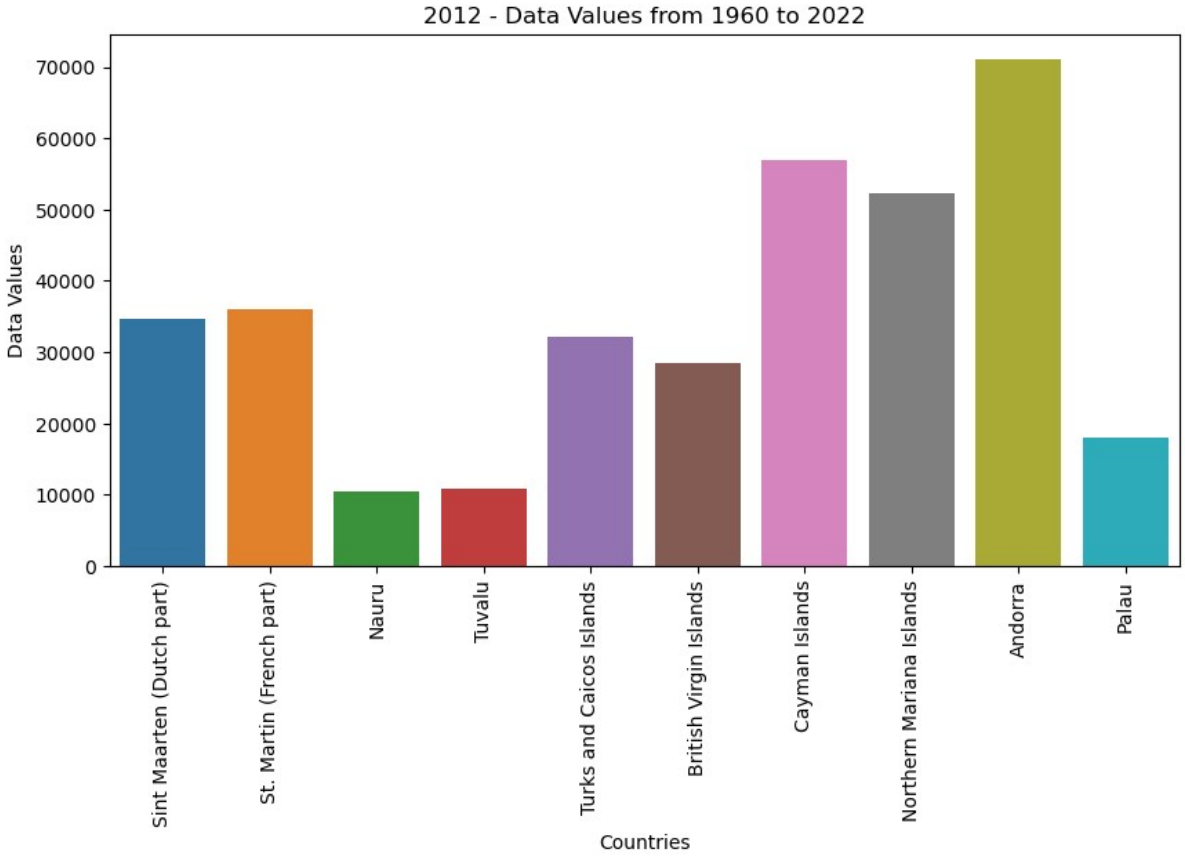
Countries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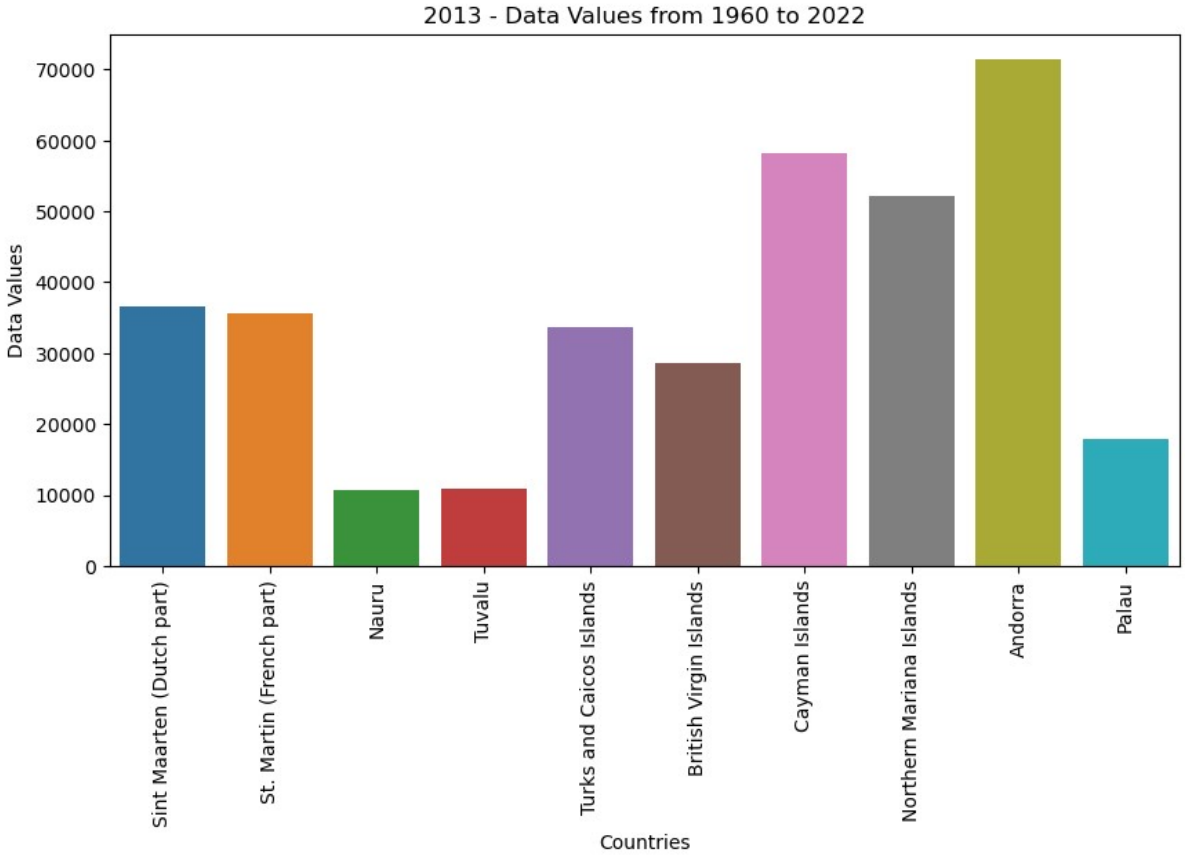
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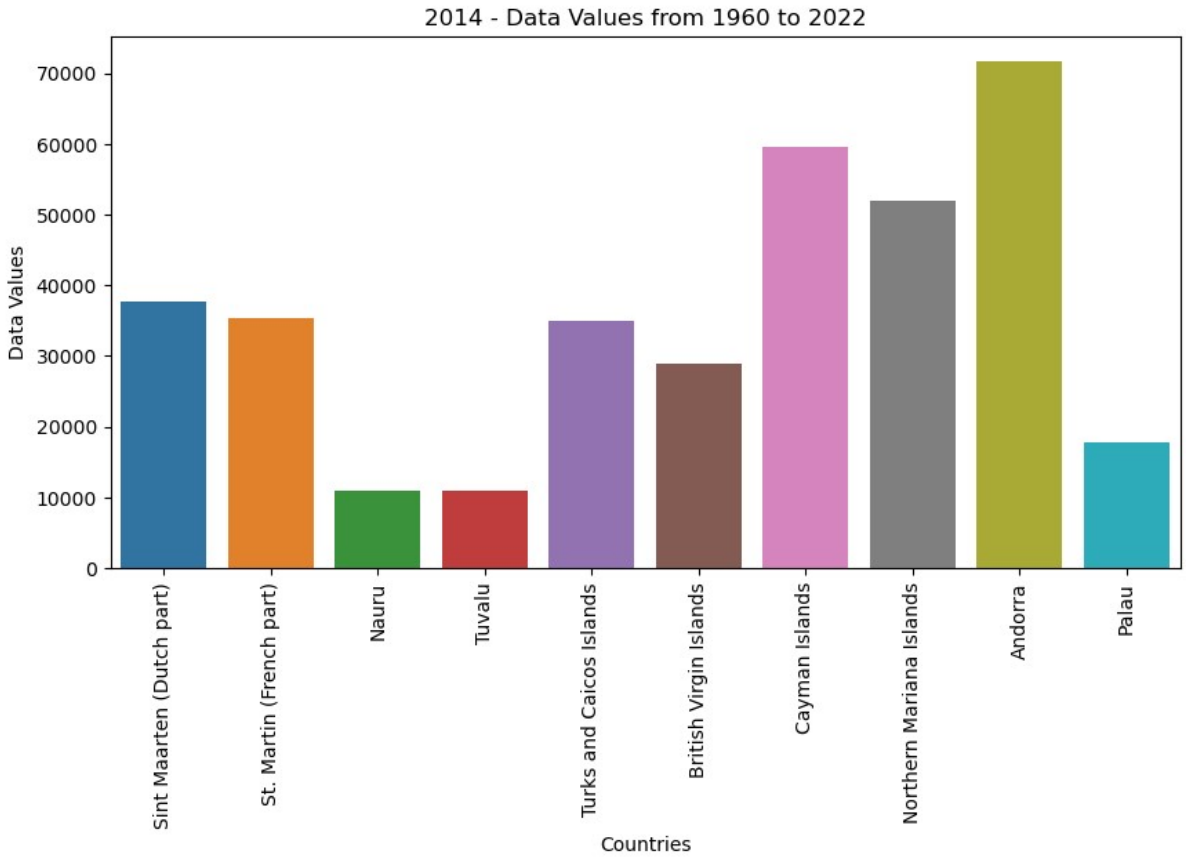
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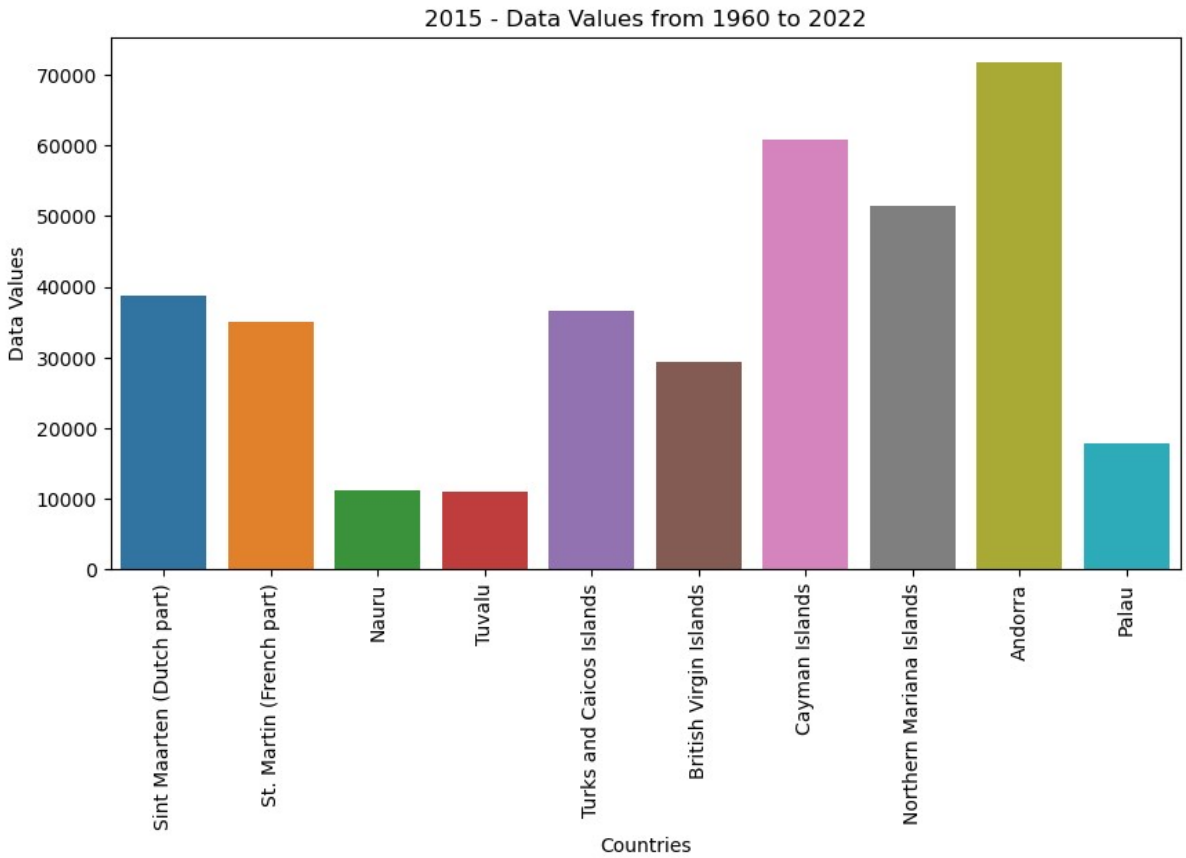
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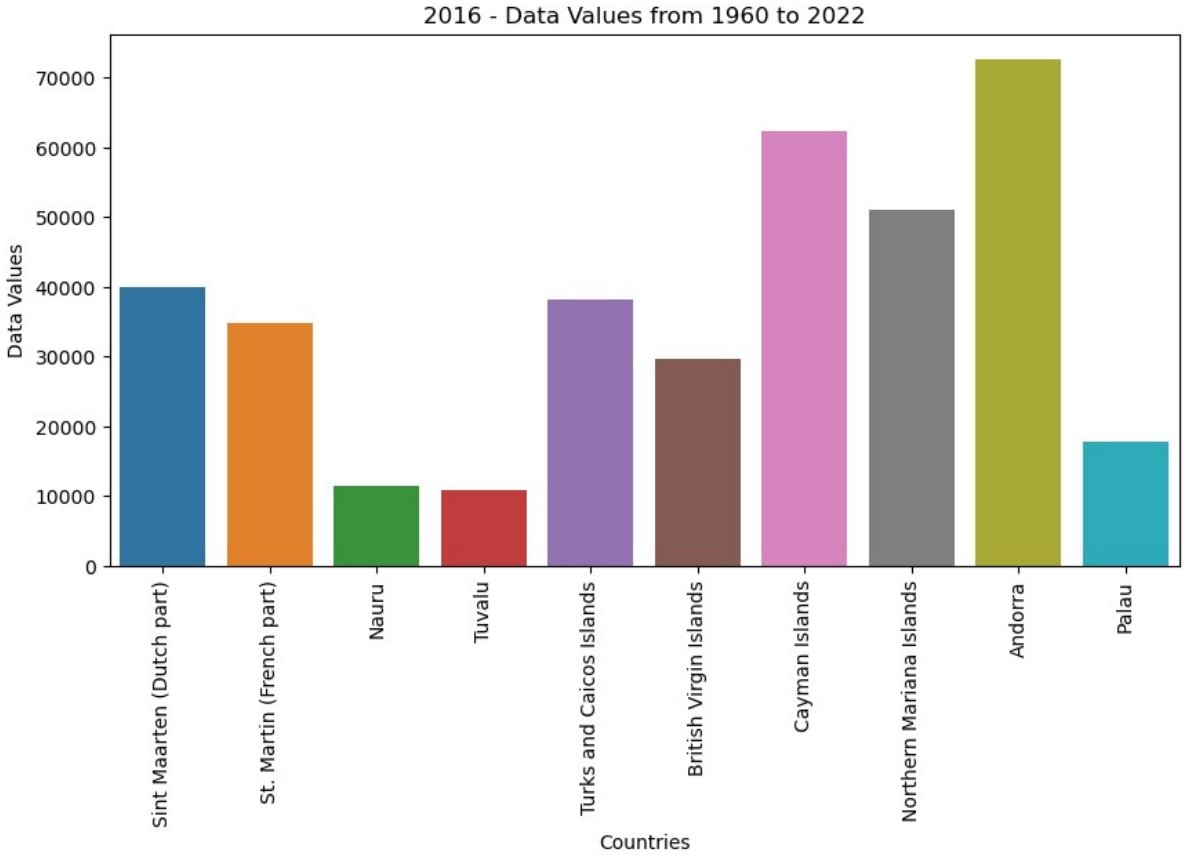
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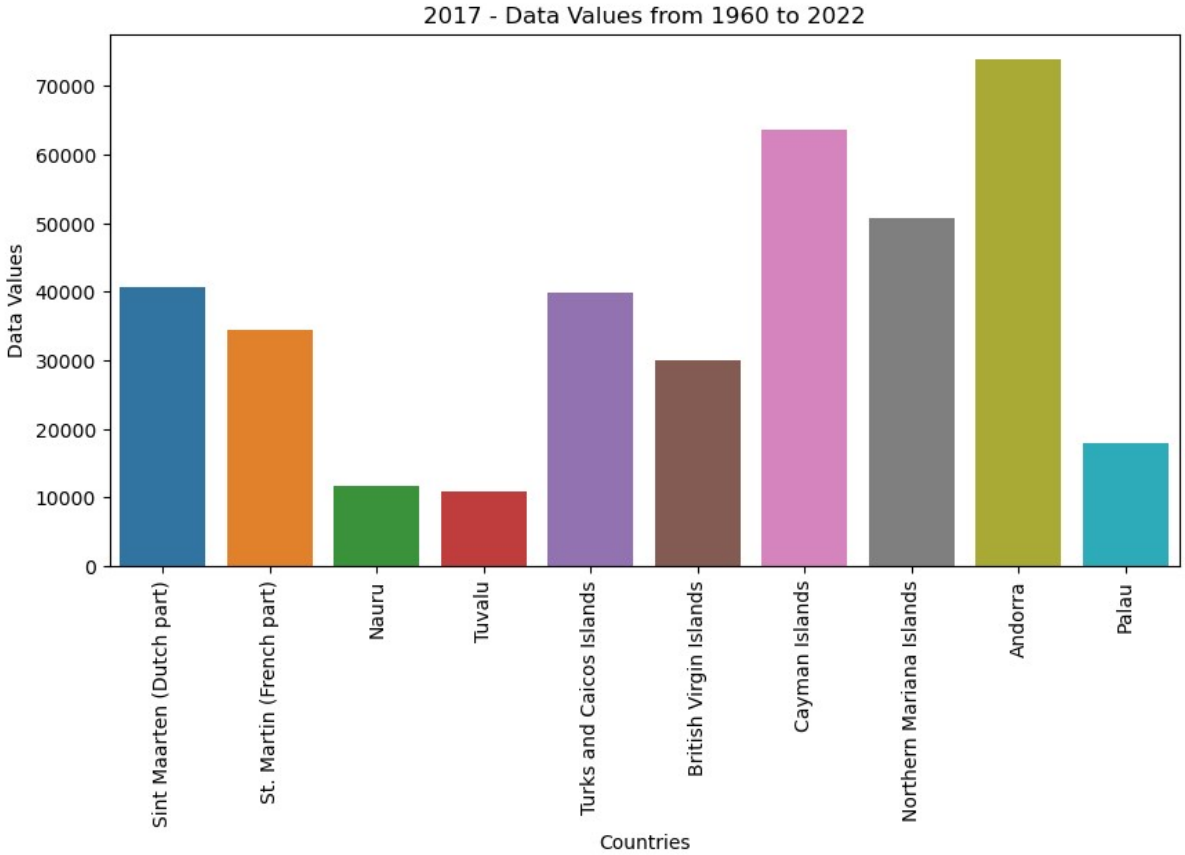
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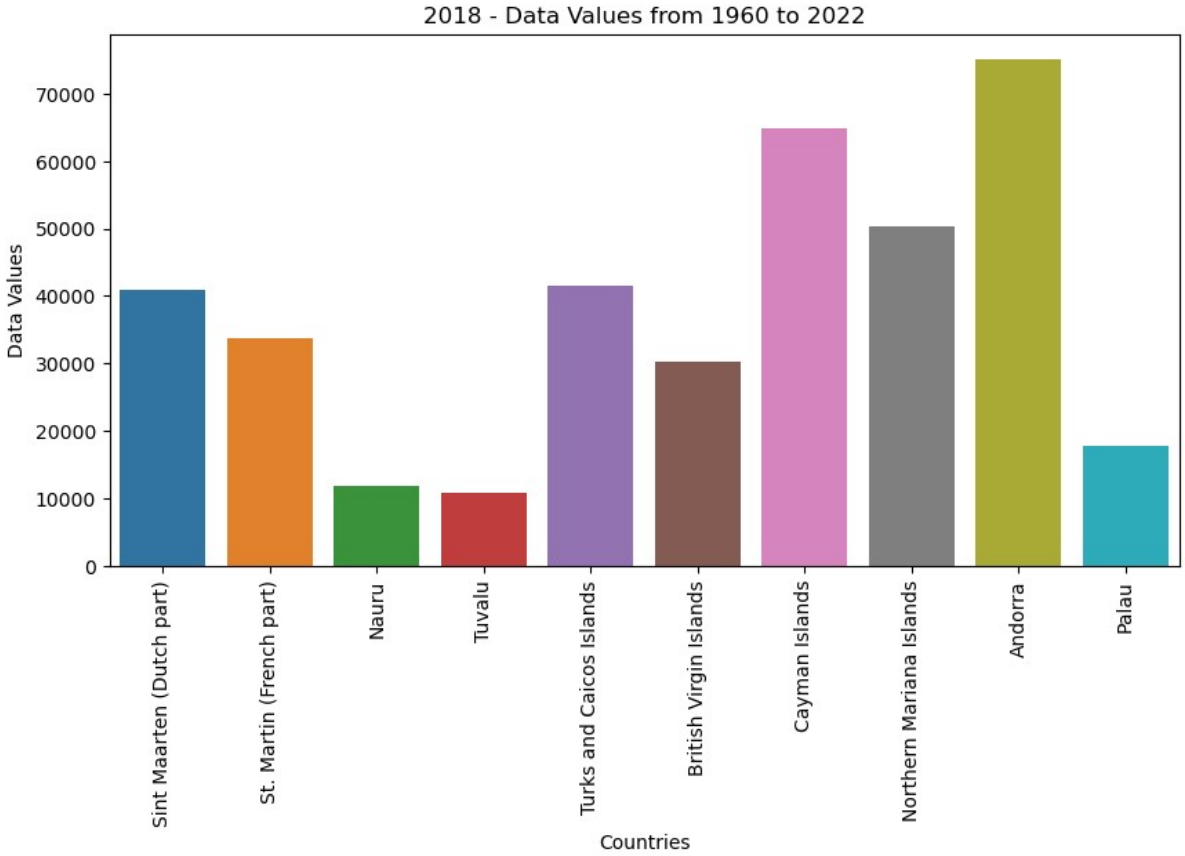
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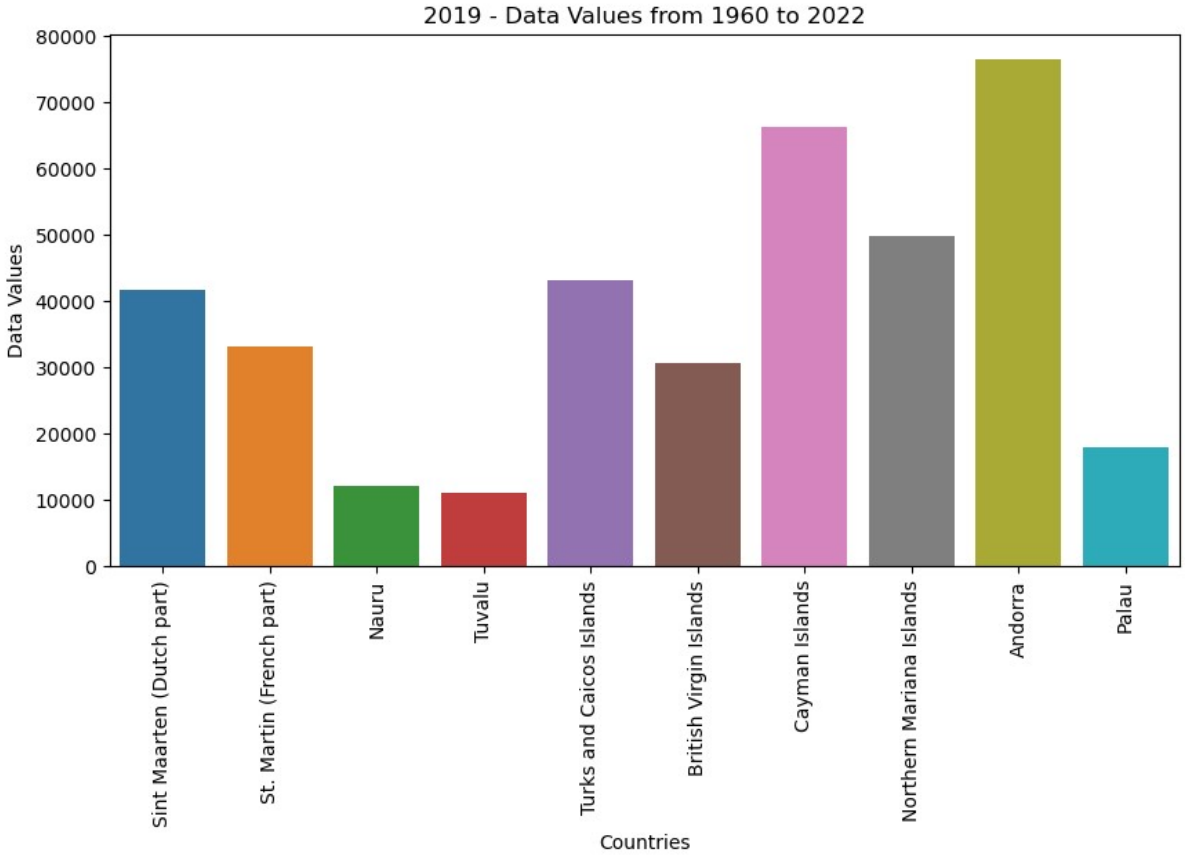
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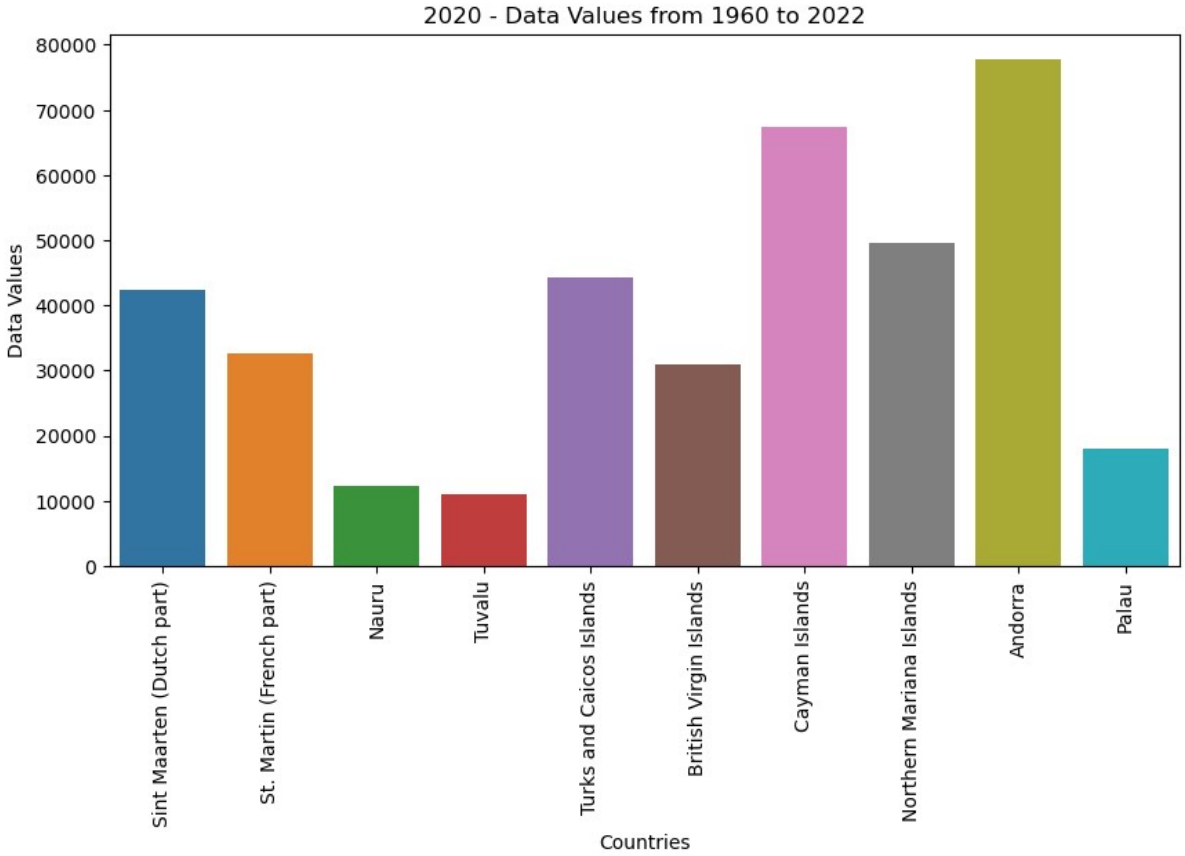
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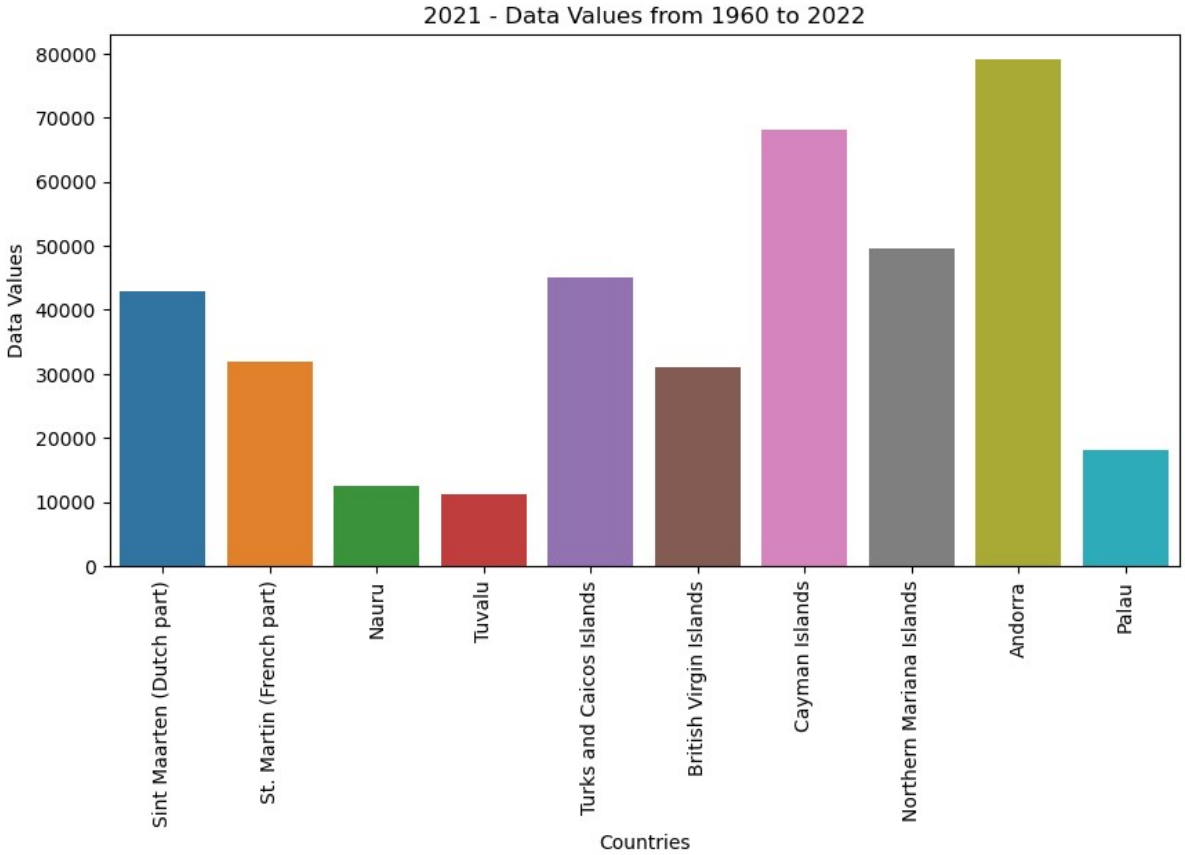
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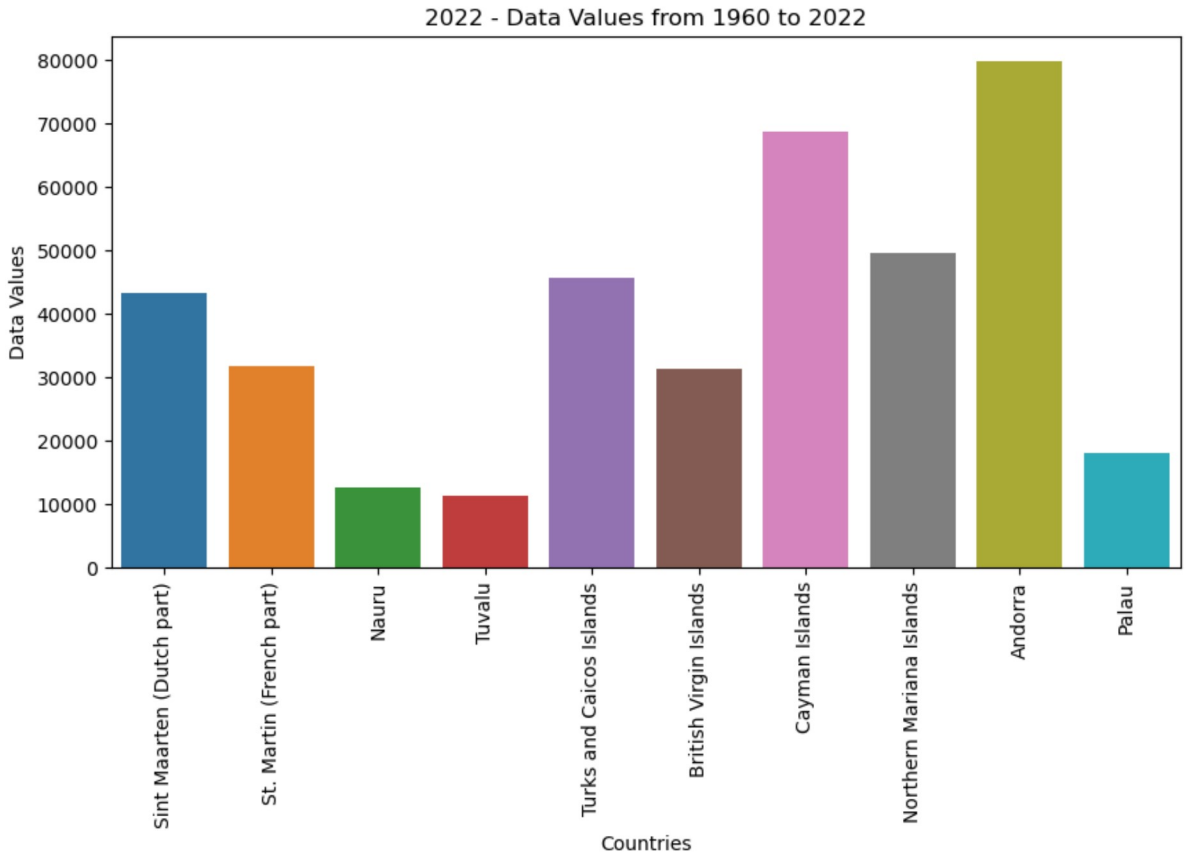
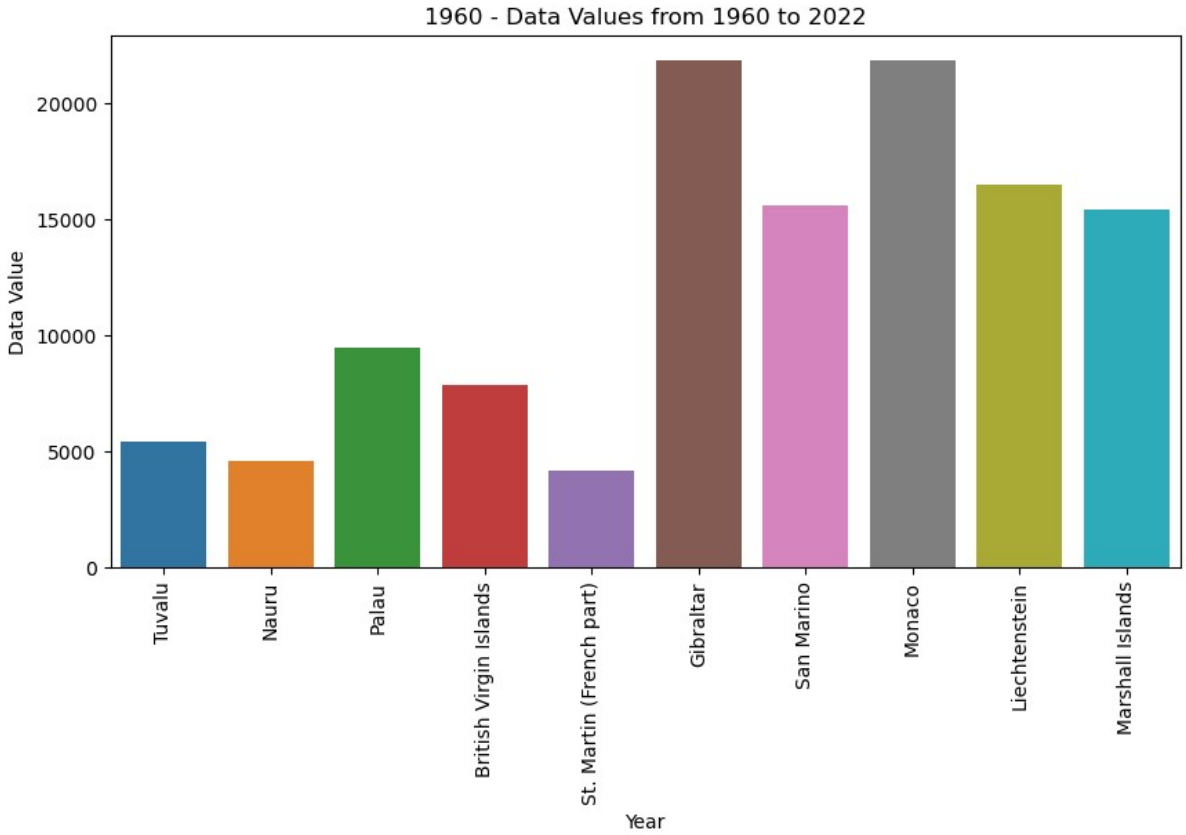


In [10]:
```
##Plotting histogram for indicators of top 10 countries by base year 2022
country_by_2022 = df.sort_values(by='2022').head(10)
country_by_2022

country_by_2022_t = country_by_2022.set_index("Country Name").T
for country_name,data_values in country_by_2022_t.iterrows():
    fig = plt.figure(figsize=(10,5))
    sns.barplot(x=data_values.index,y=data_values.values)
    plt.xlabel("Year")
    plt.ylabel("Data Value")
    plt.title(f"{country_name} - Data Values from 1960 to 2022")
    plt.xticks(rotation=90)
    plt.show()

###Conclusion : In this task, we have employed the World Development Indicator Data
```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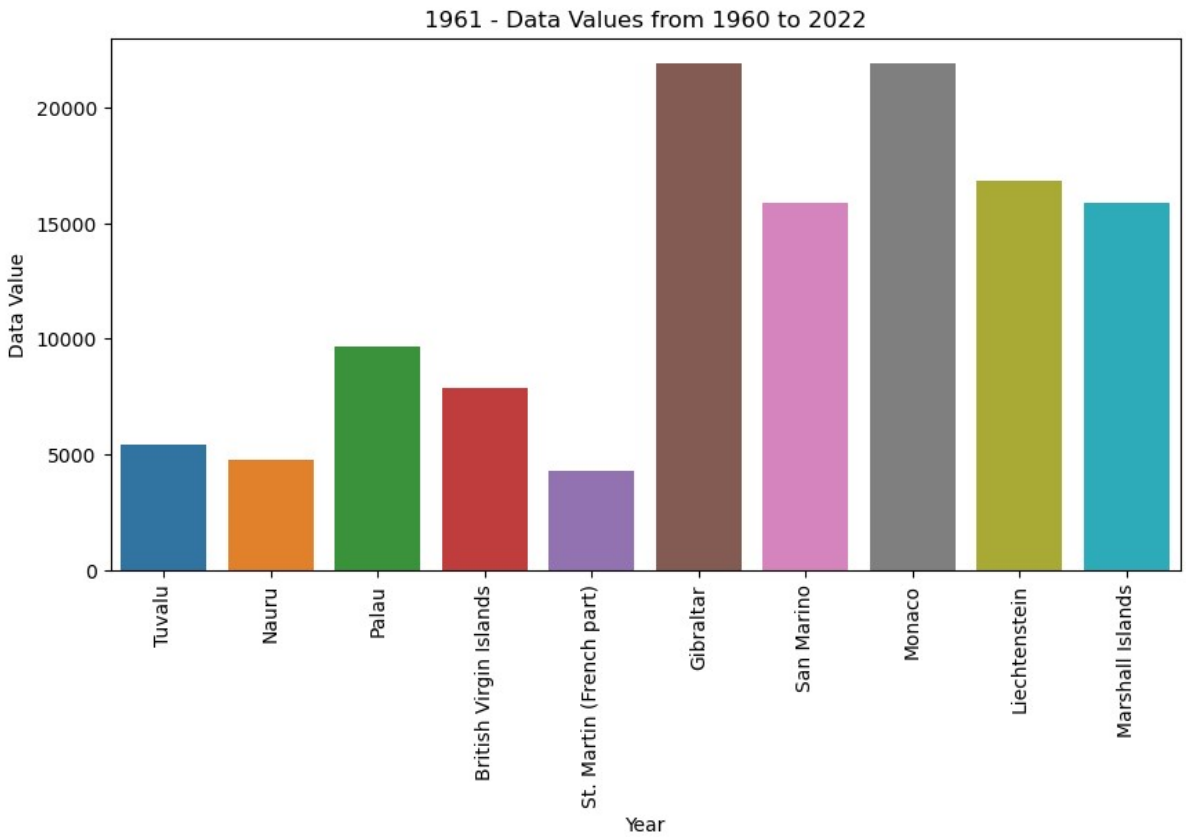
St. Martin (French part)
Gibraltar
San Marino
Monaco
Liechtenstein
Marshall Islands
Year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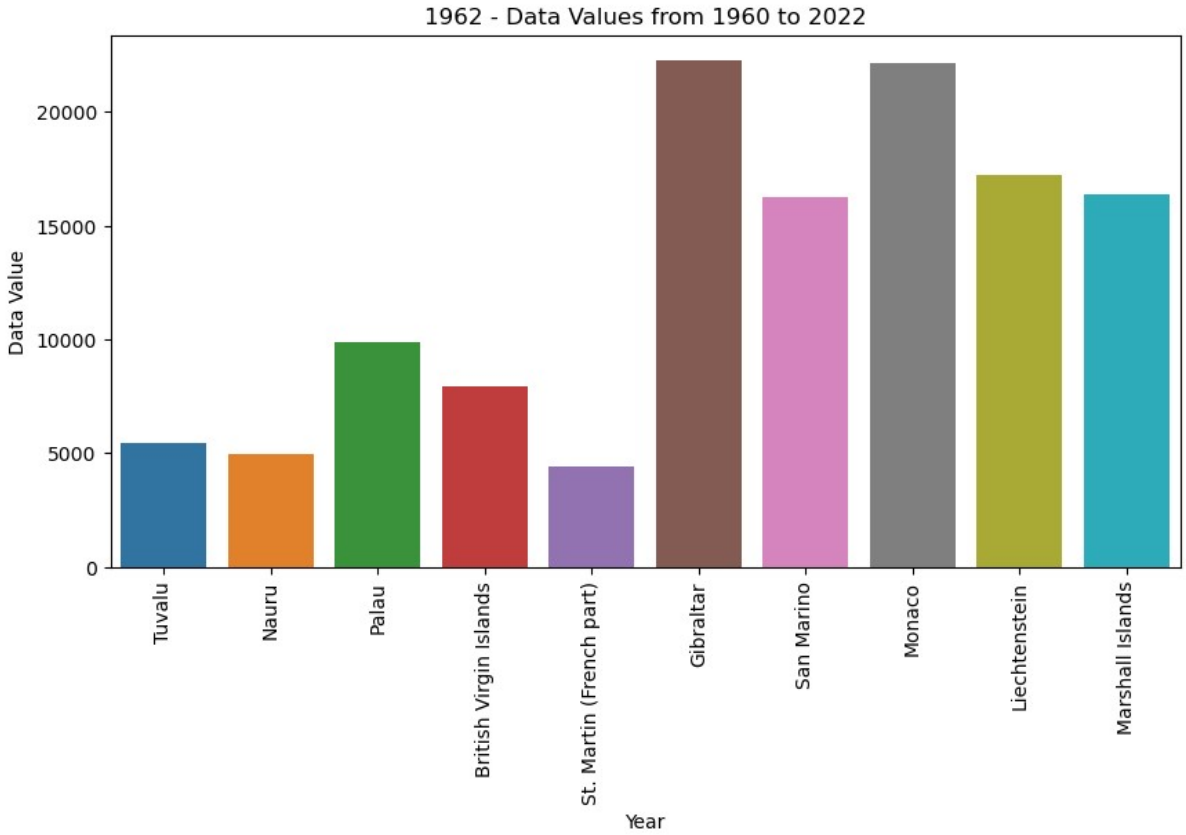
Year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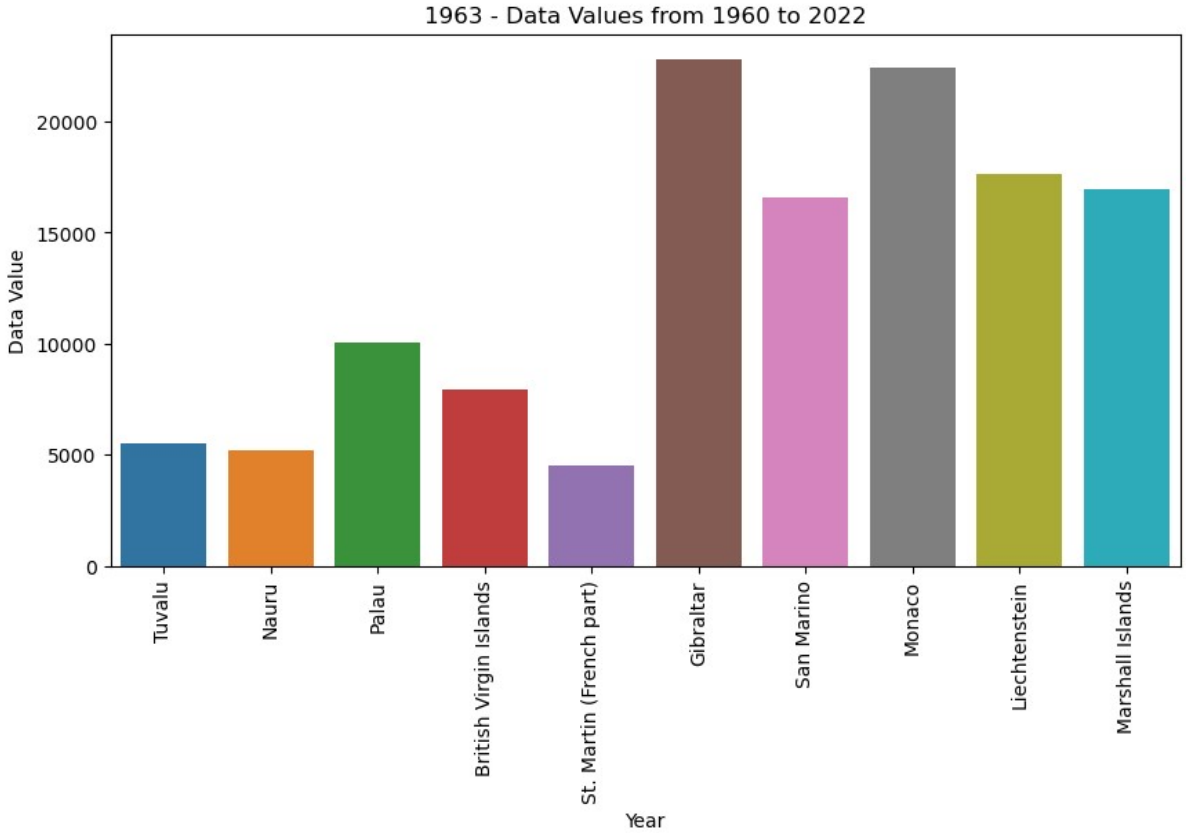
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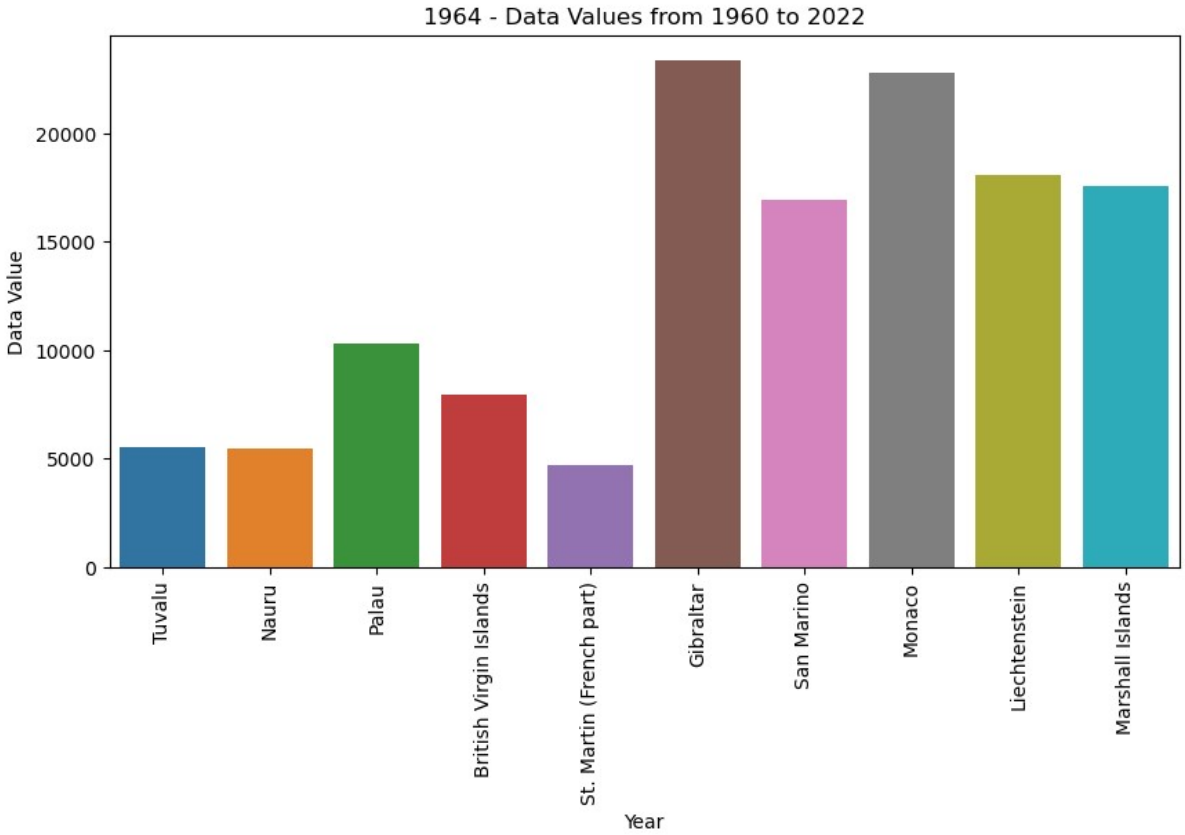
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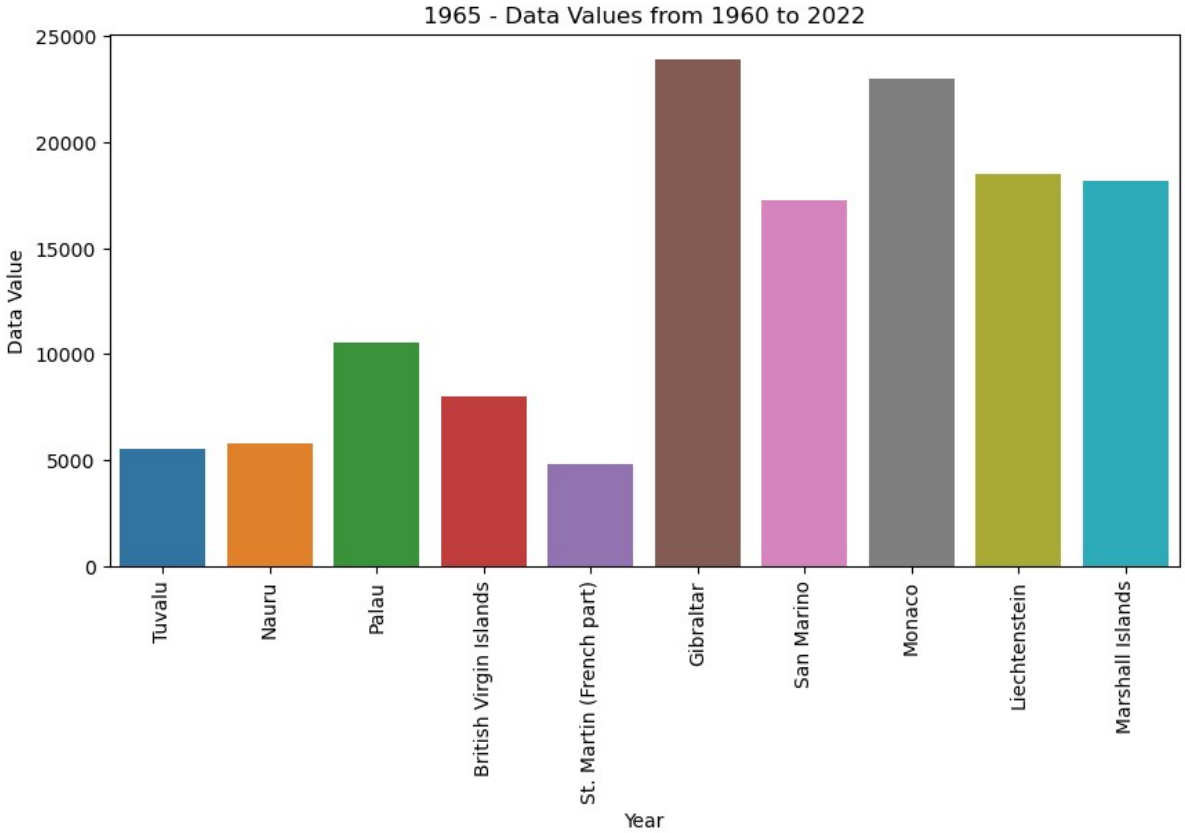
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Liechtenstein
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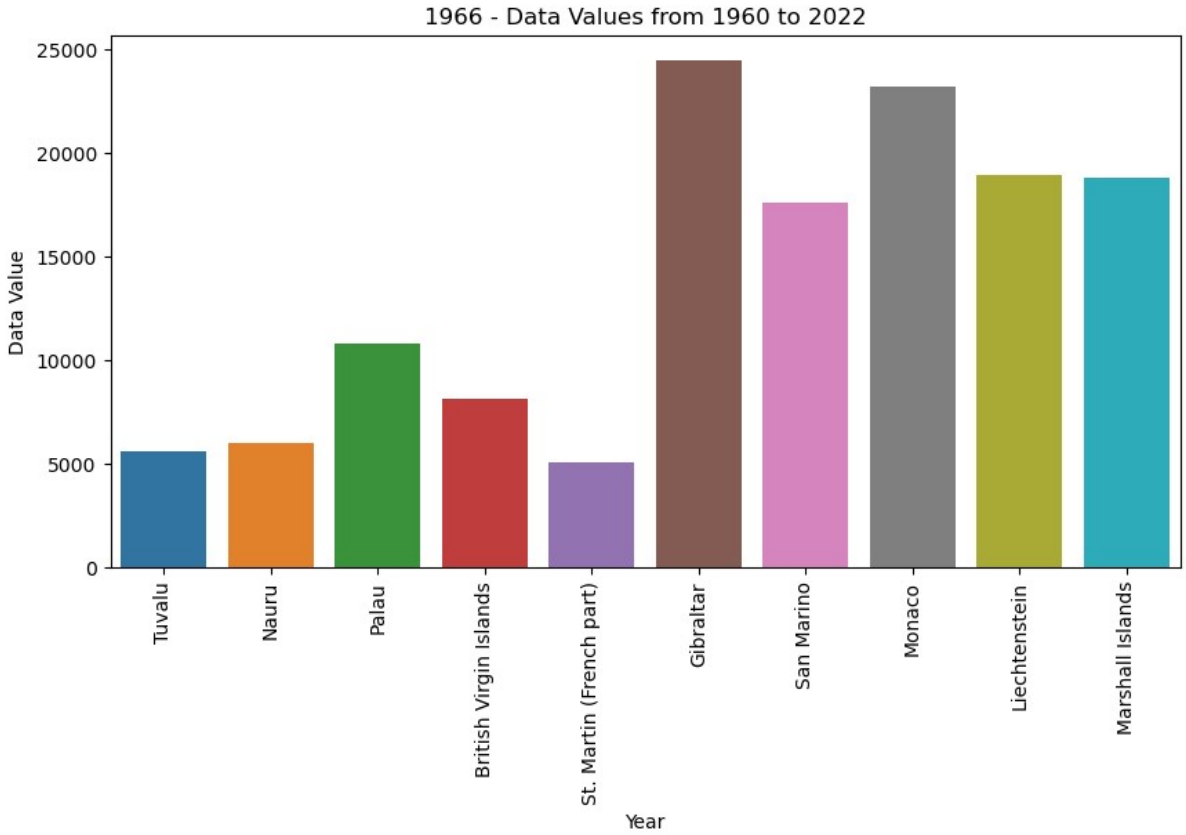
Year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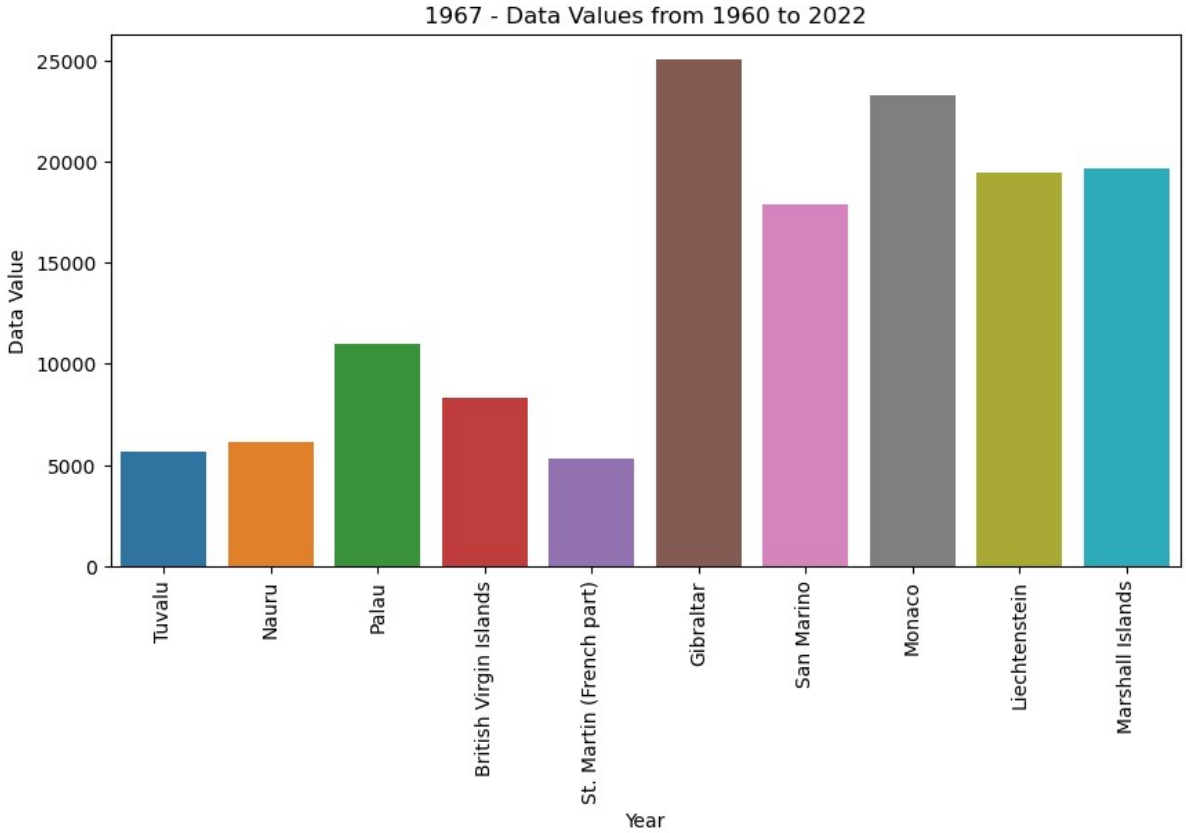
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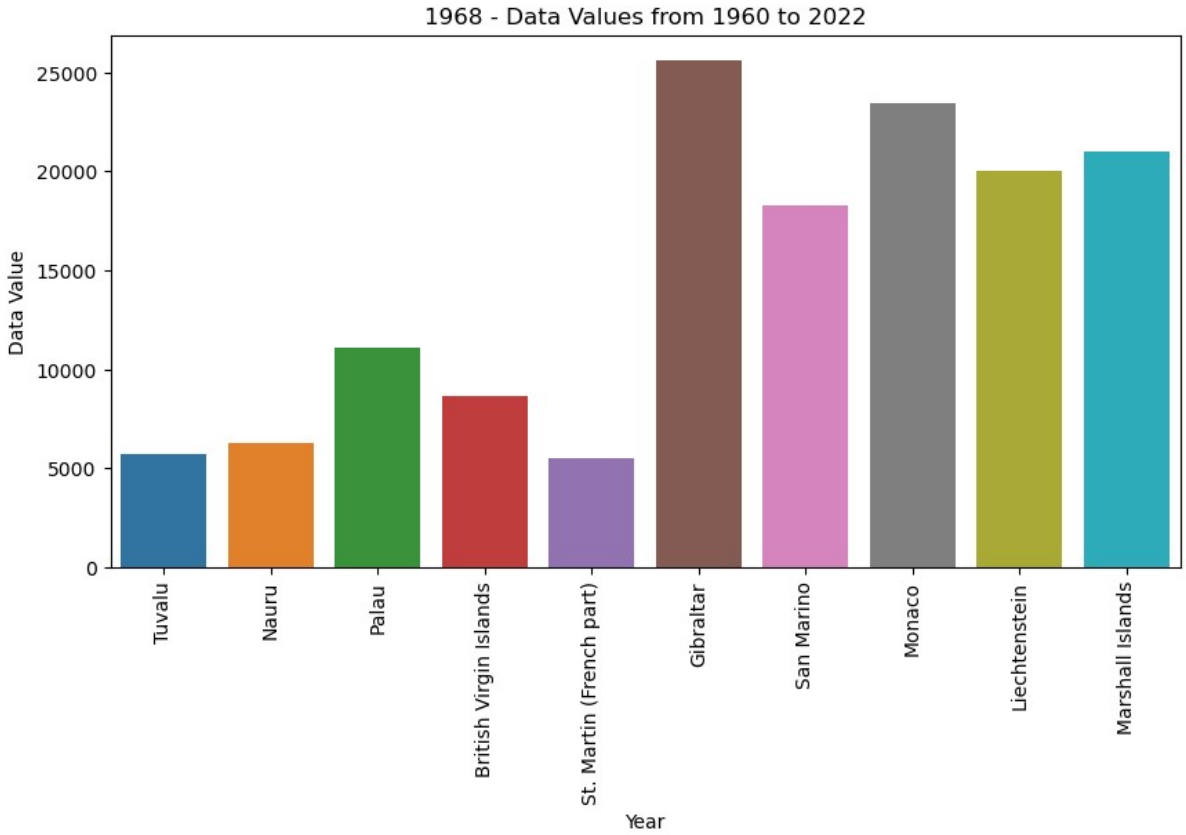
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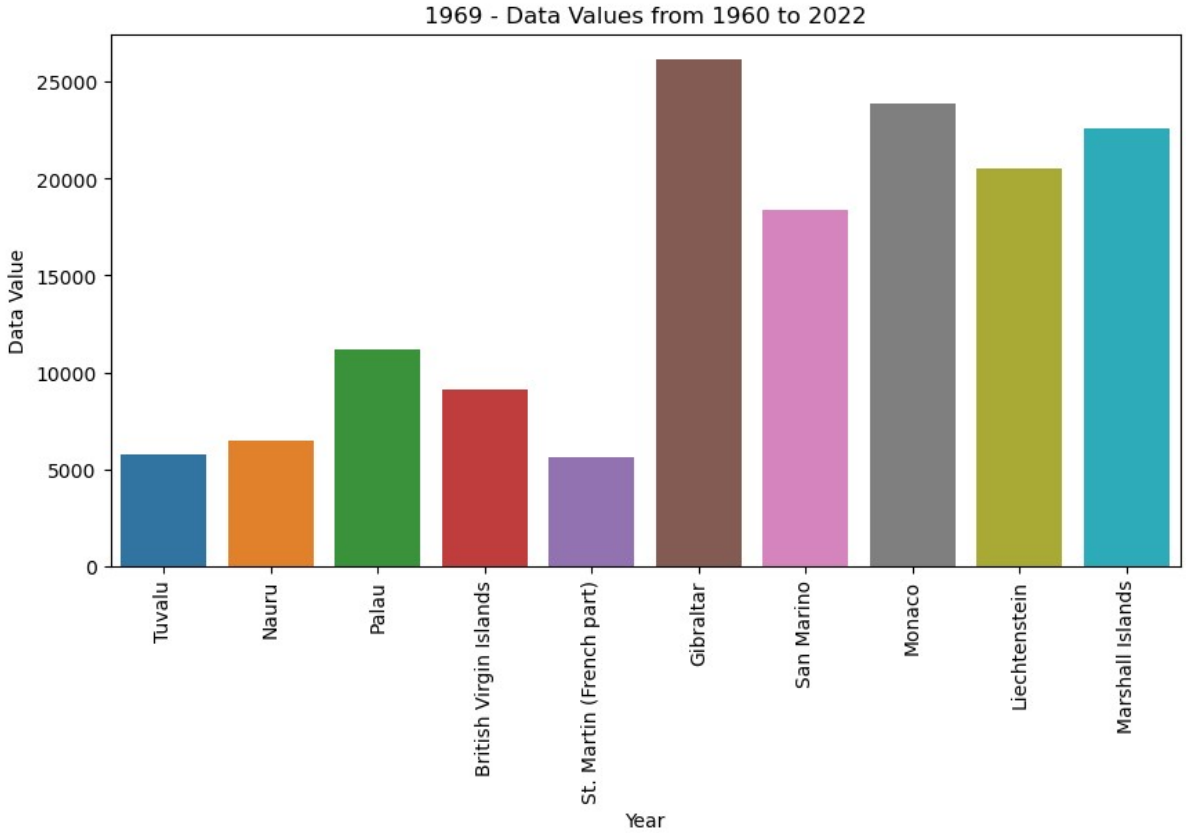
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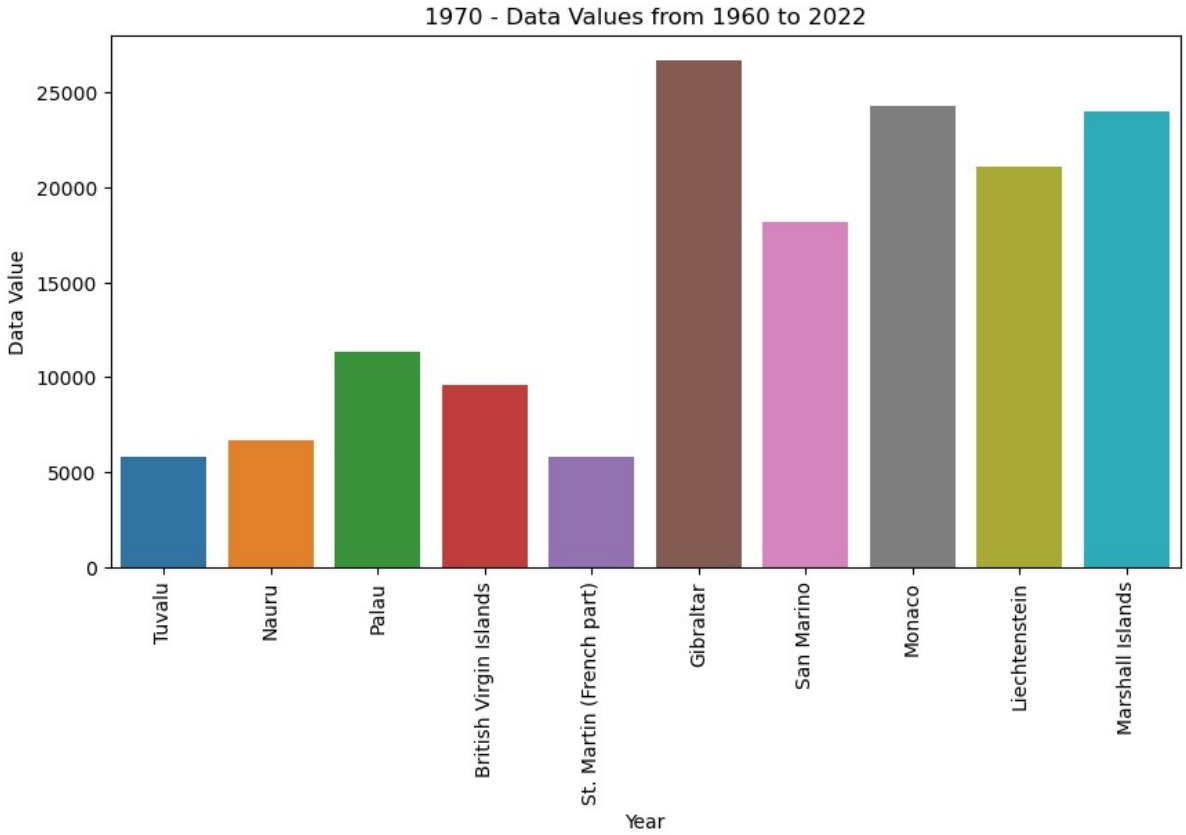
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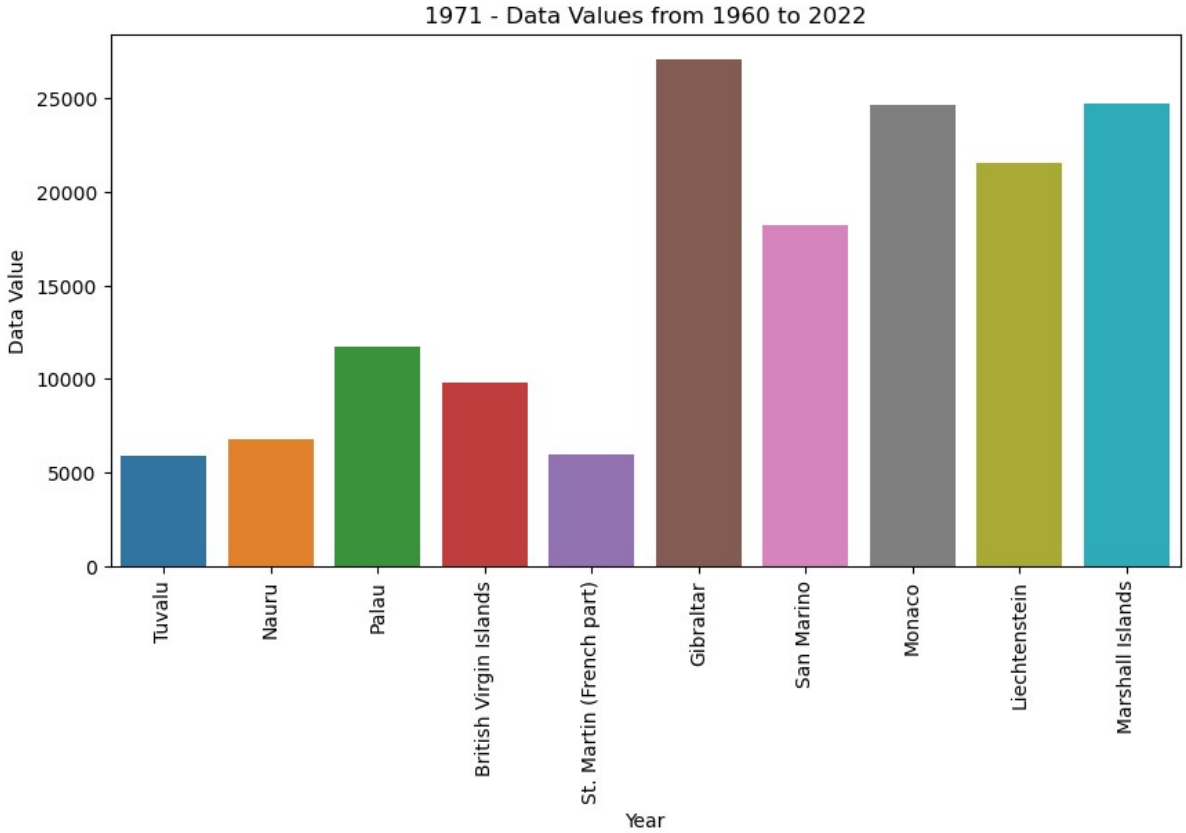
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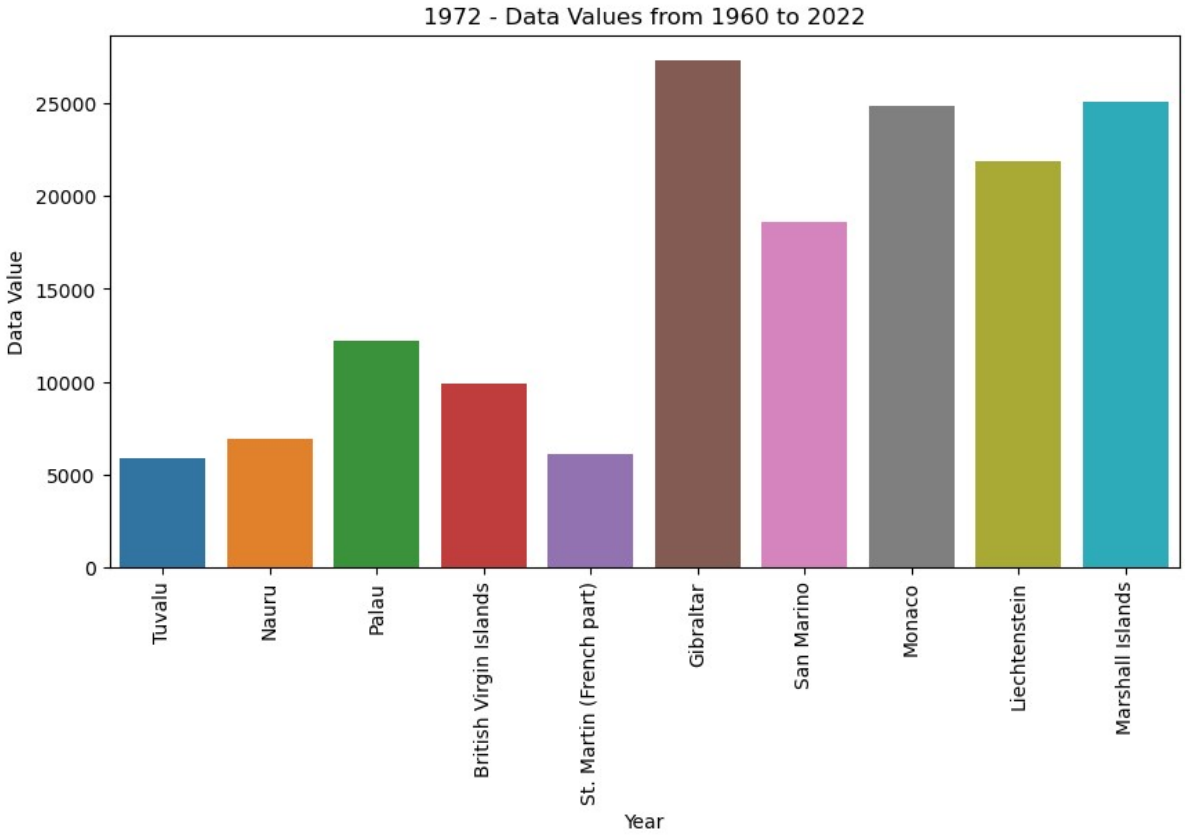
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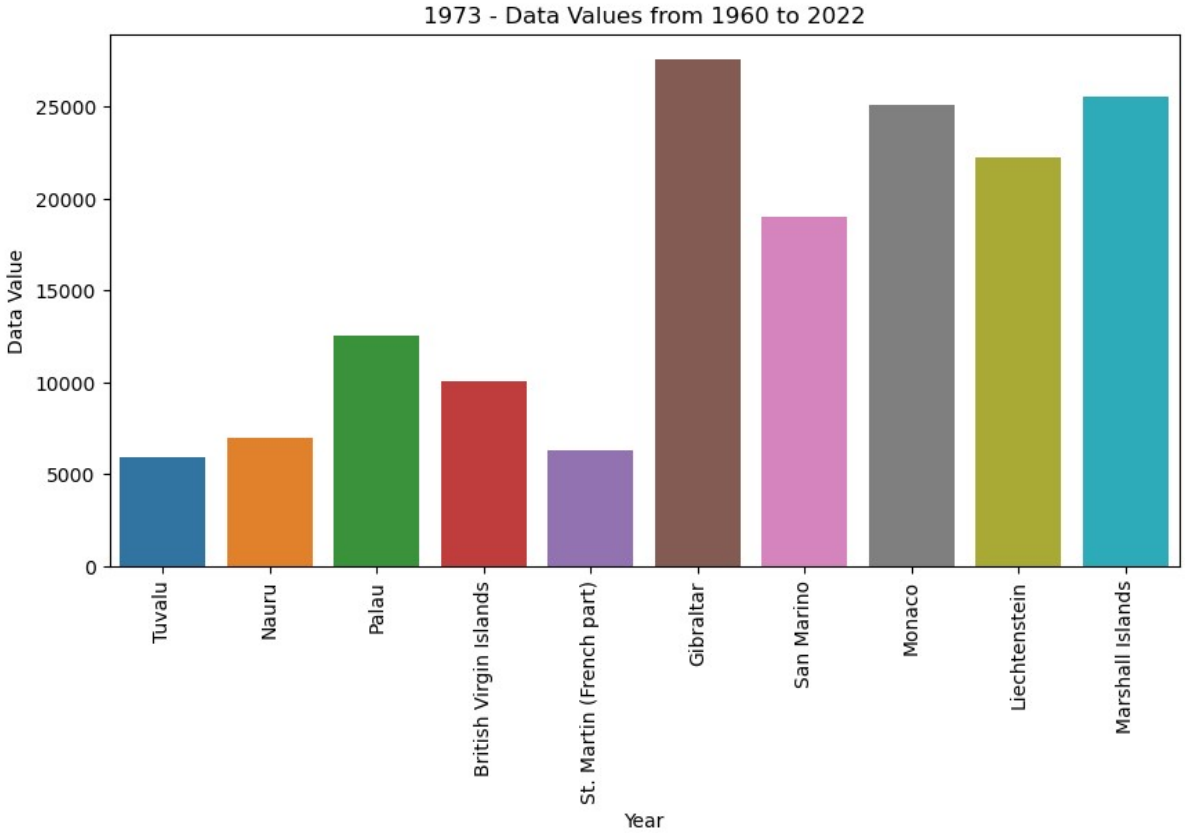
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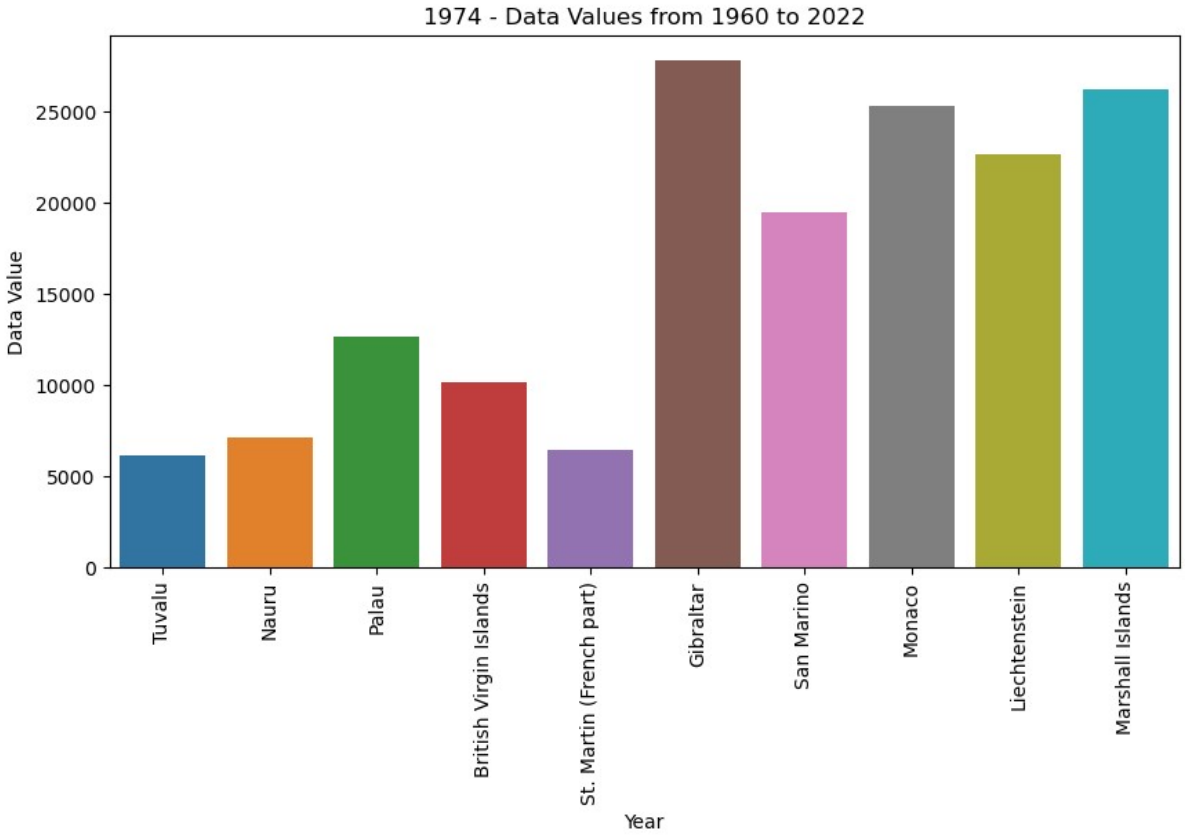
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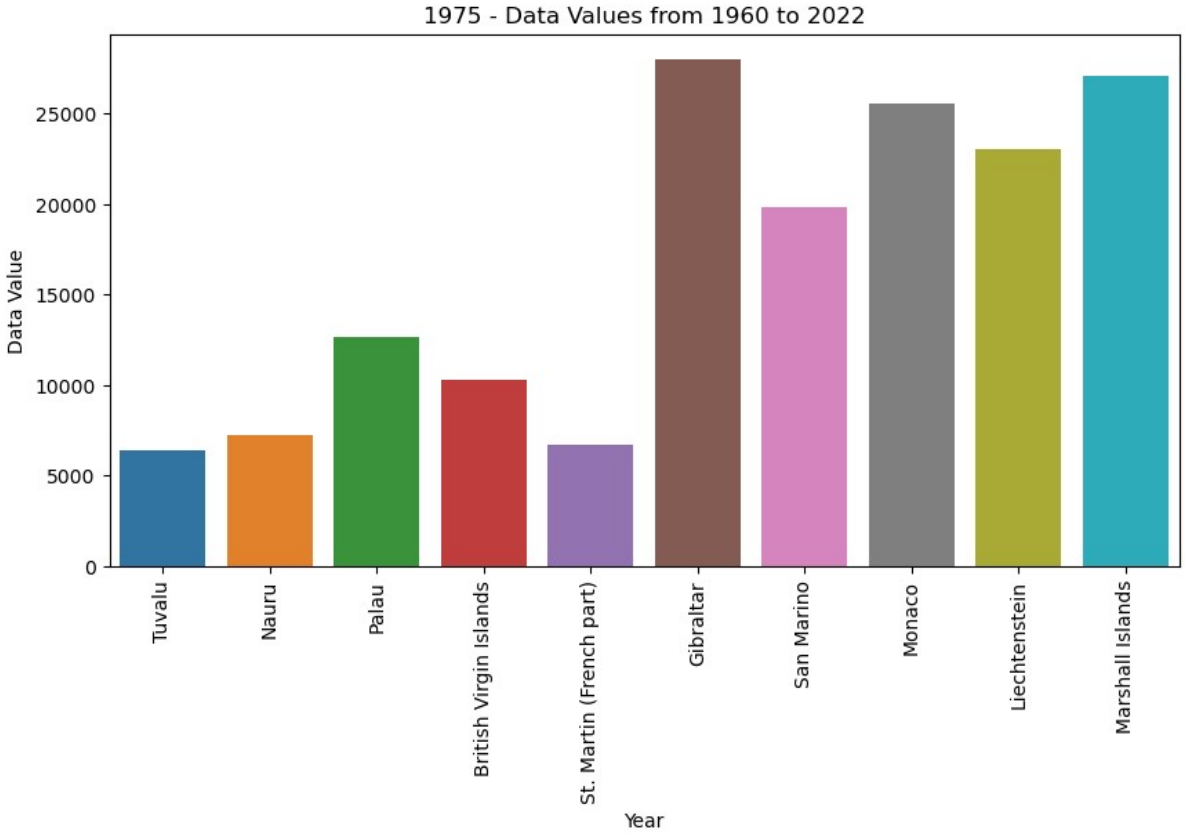
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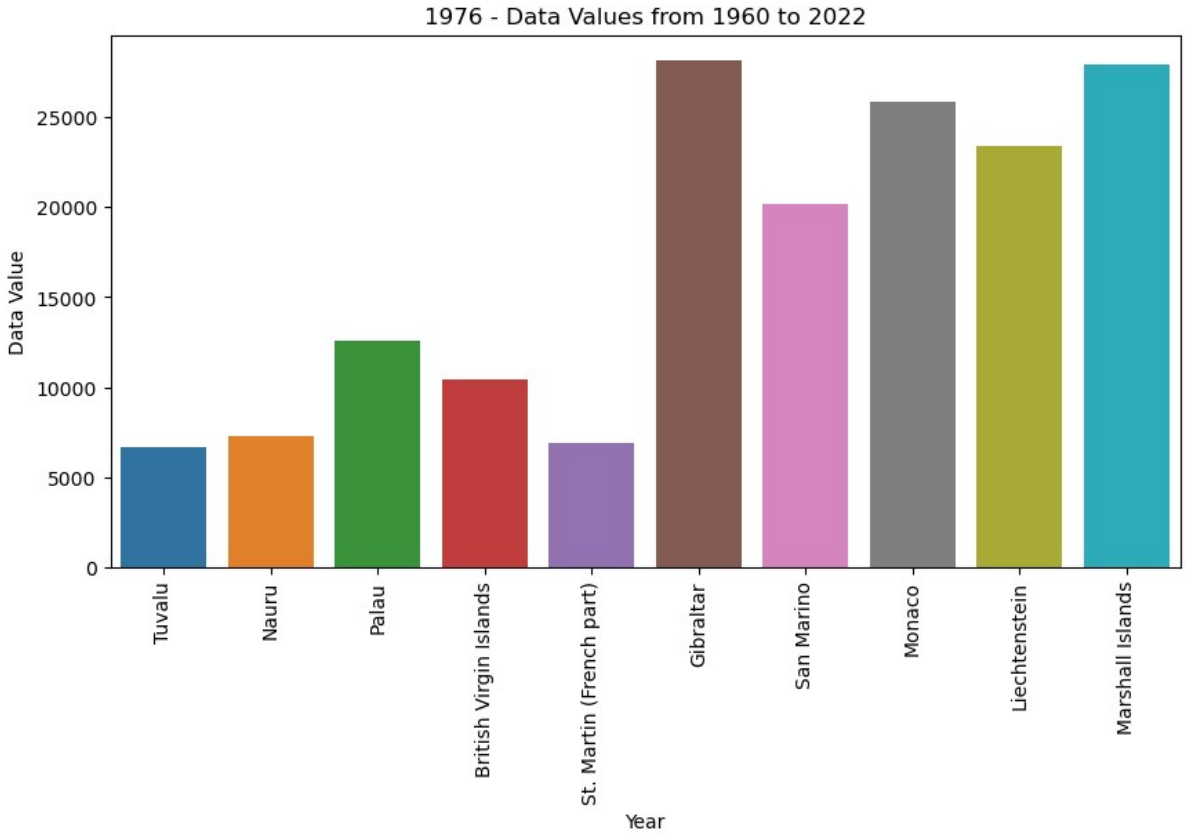
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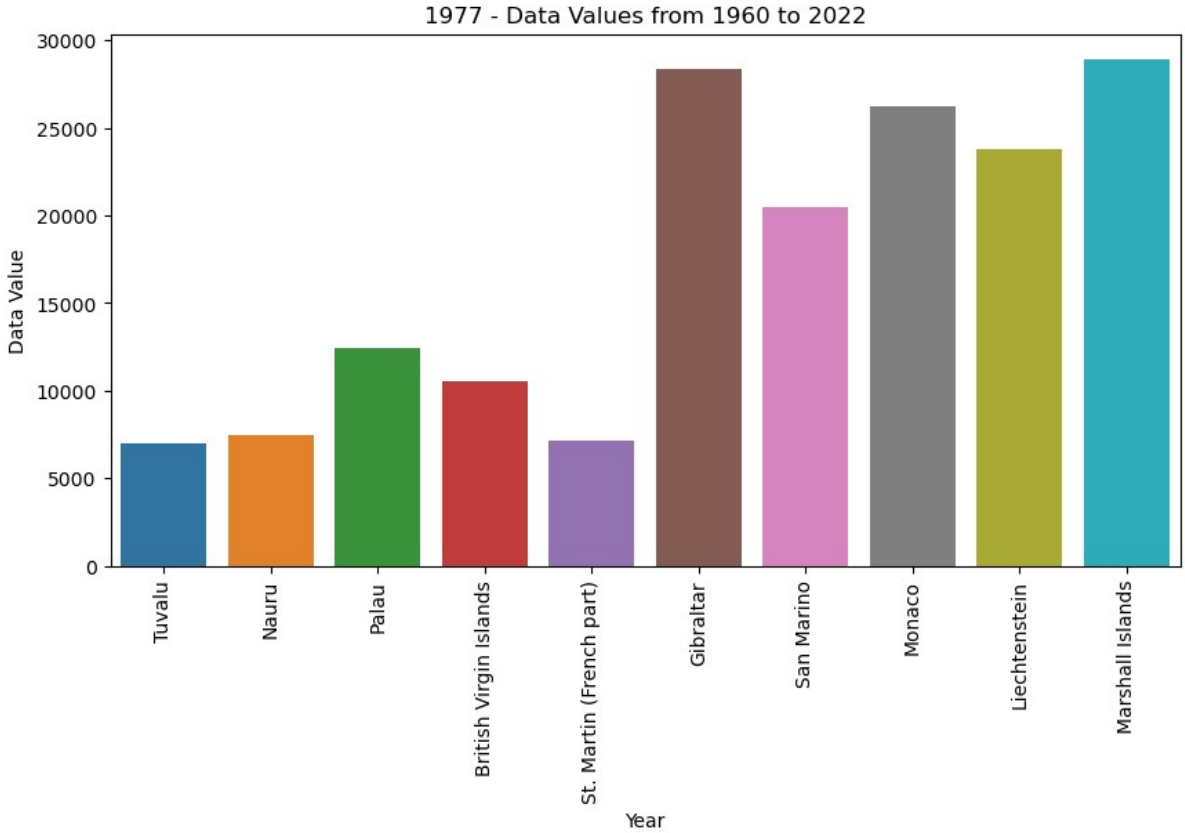
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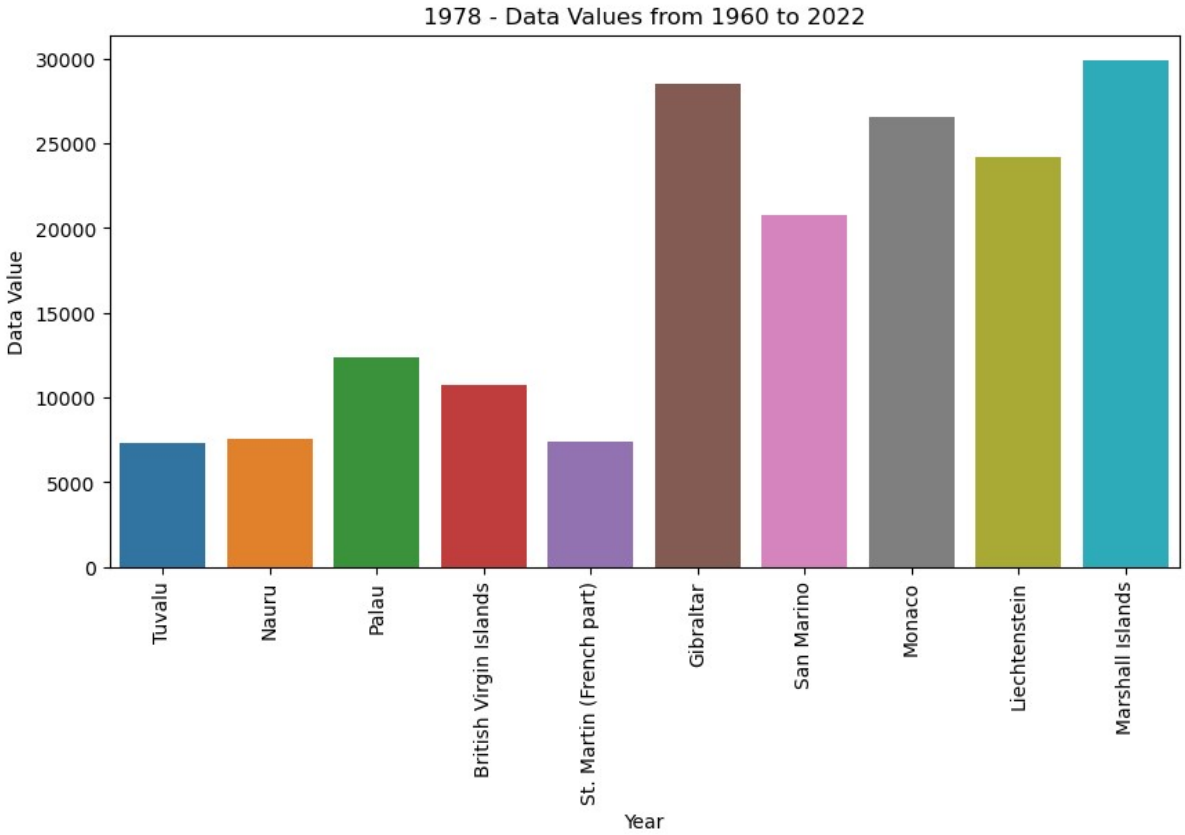
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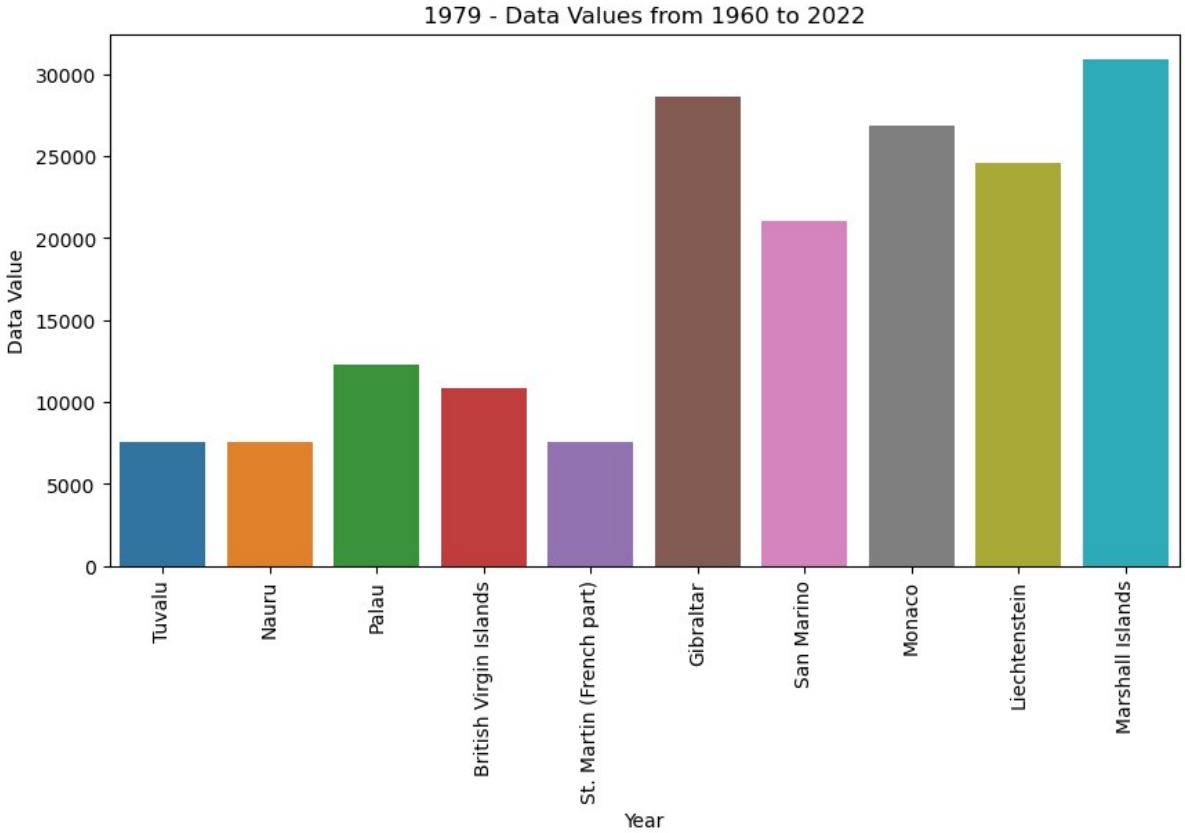
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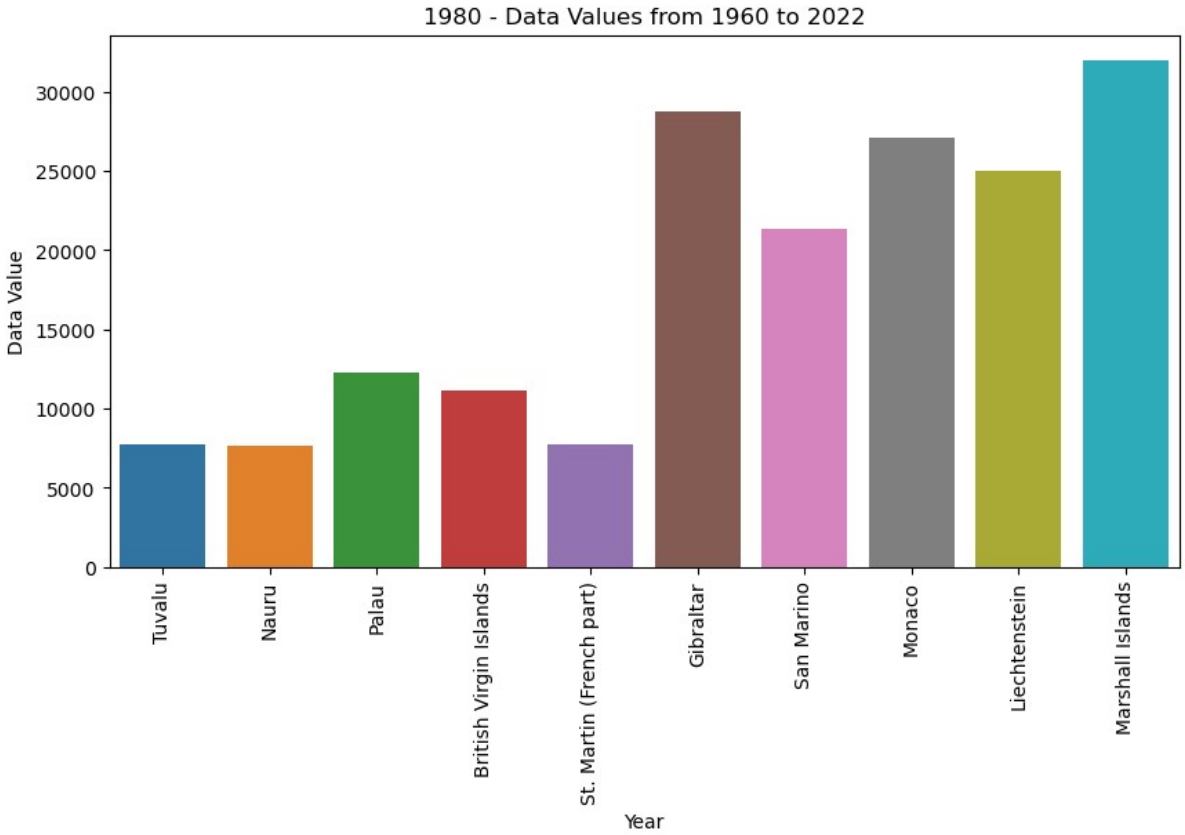
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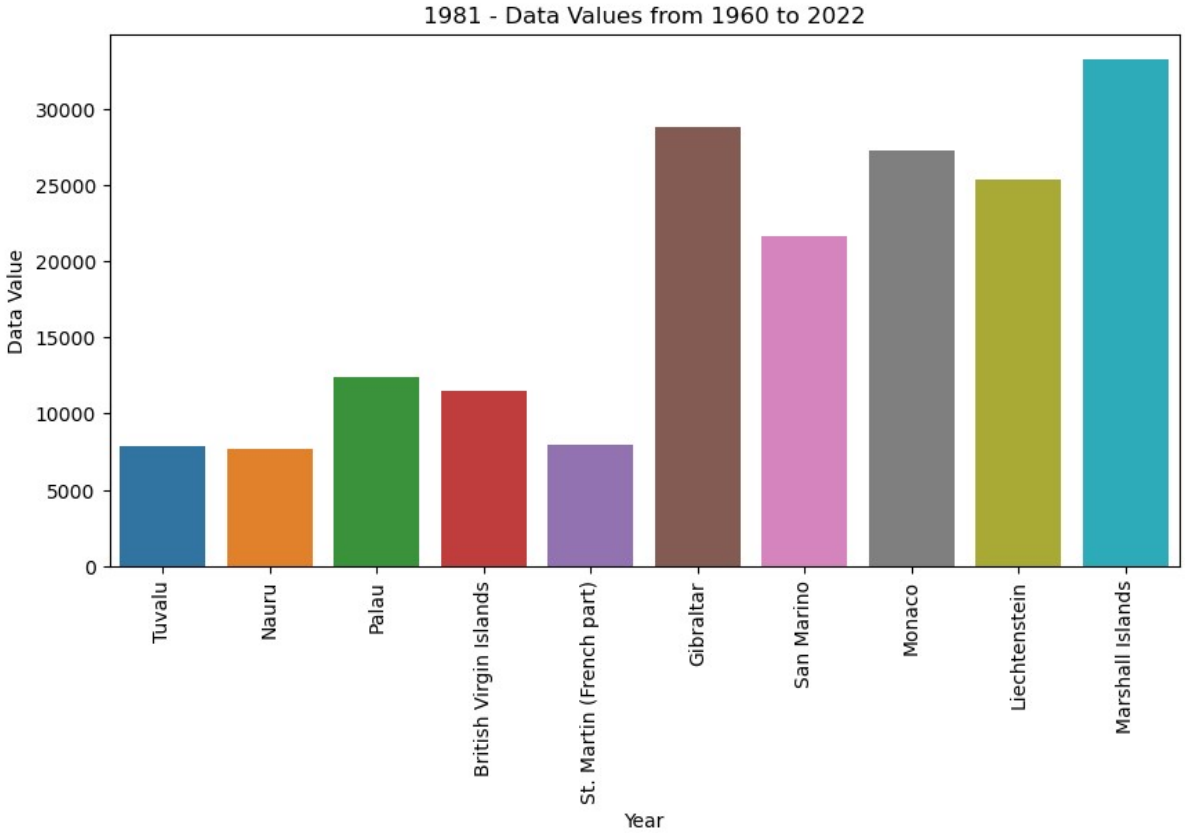
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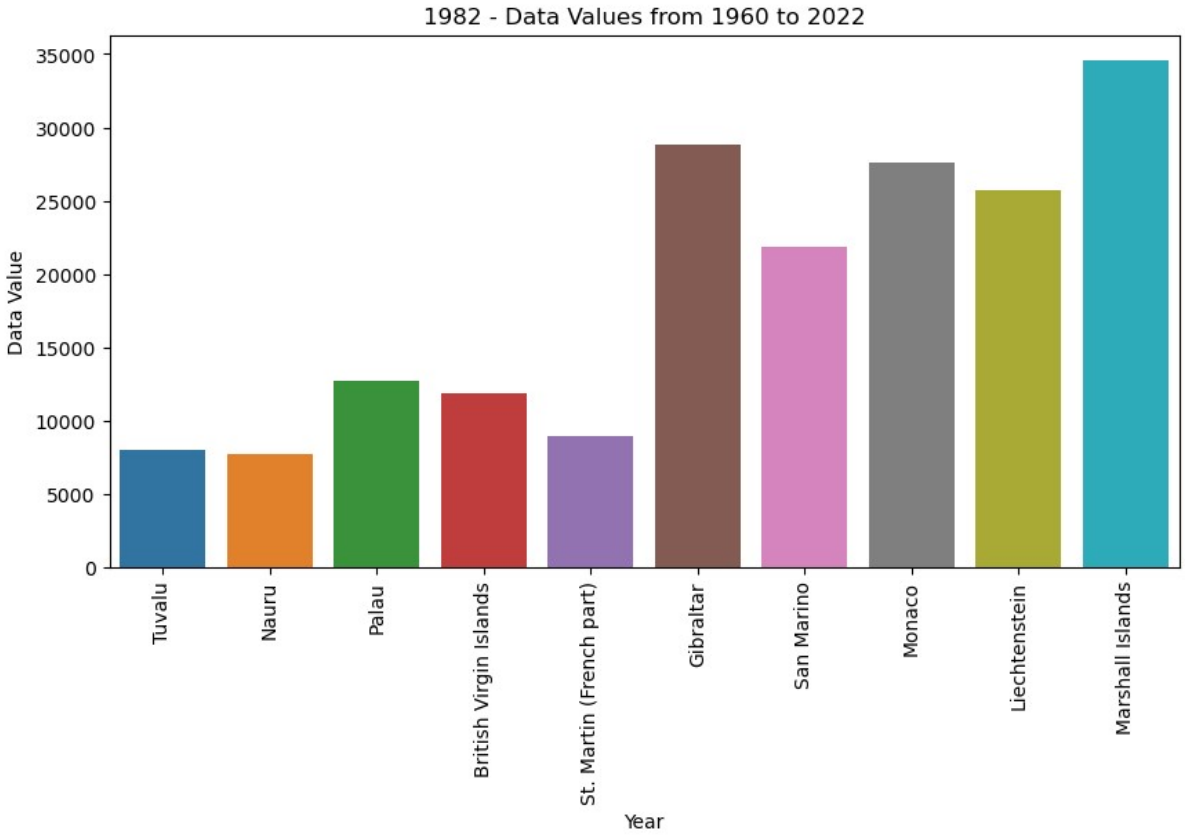
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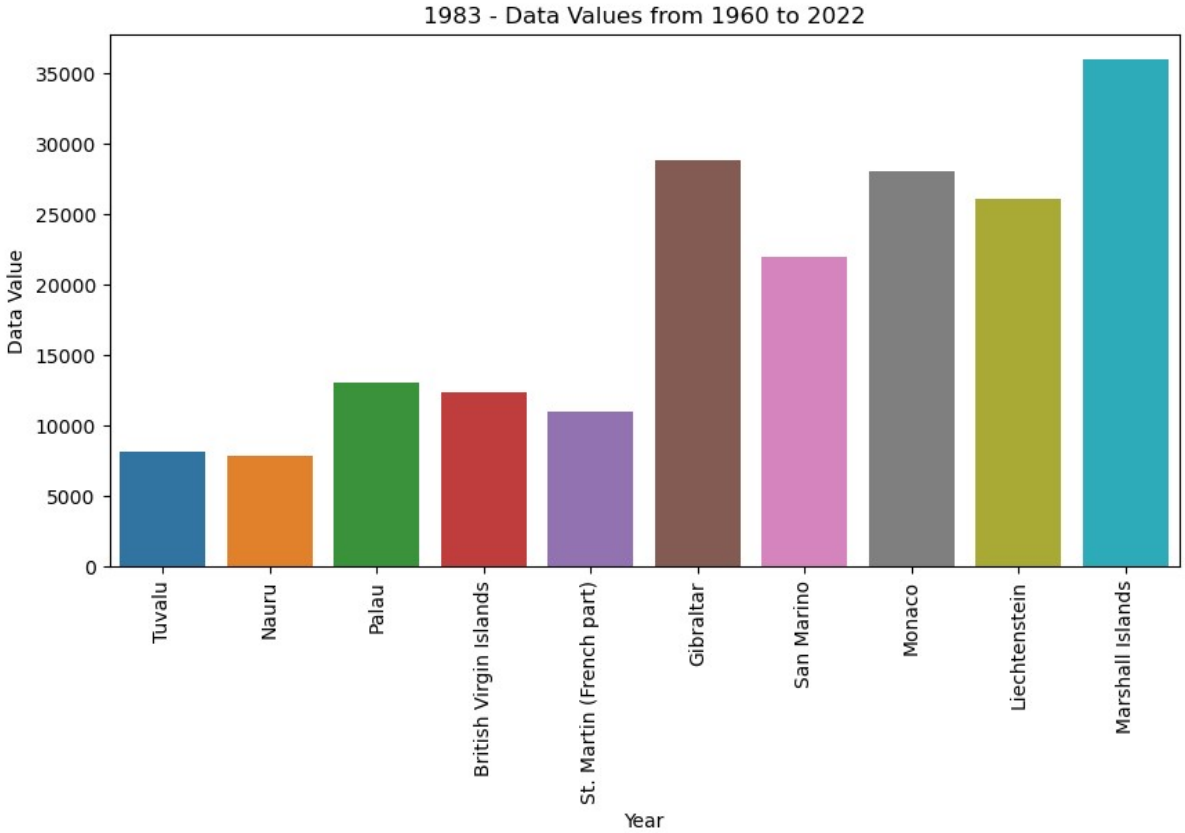
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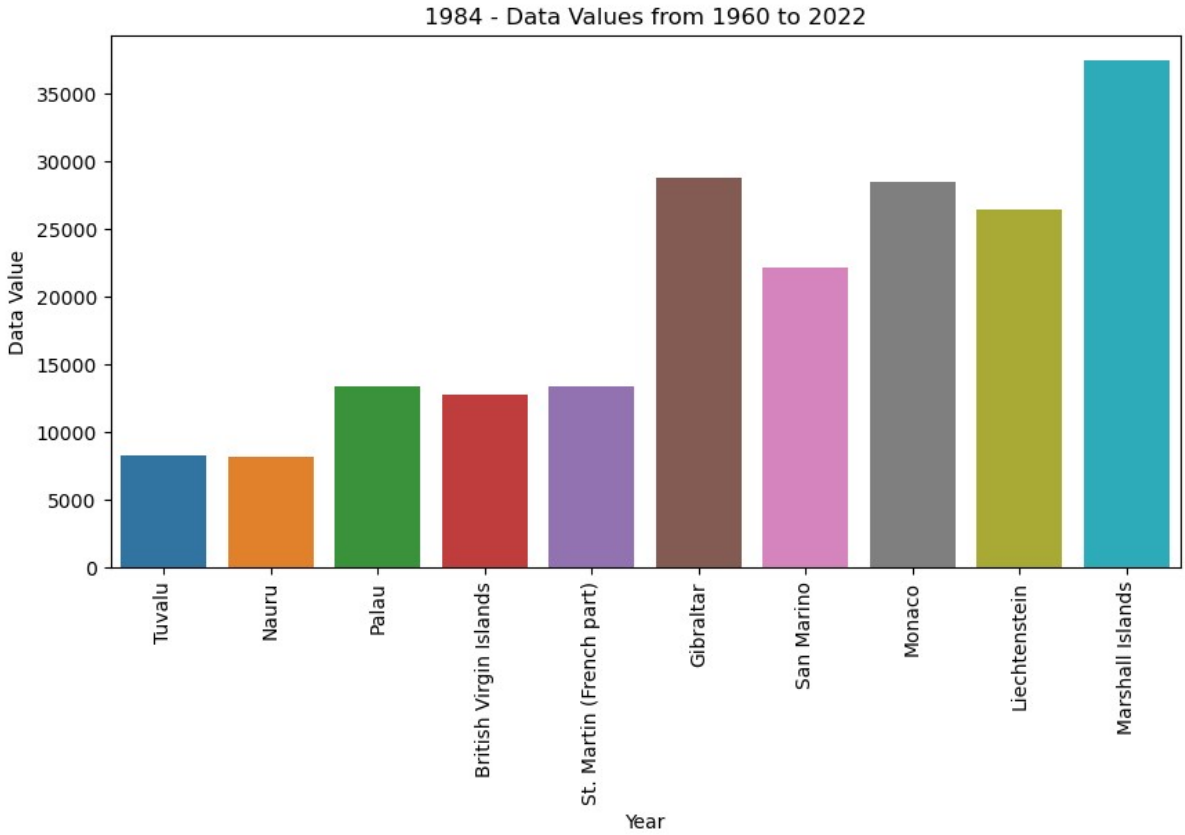
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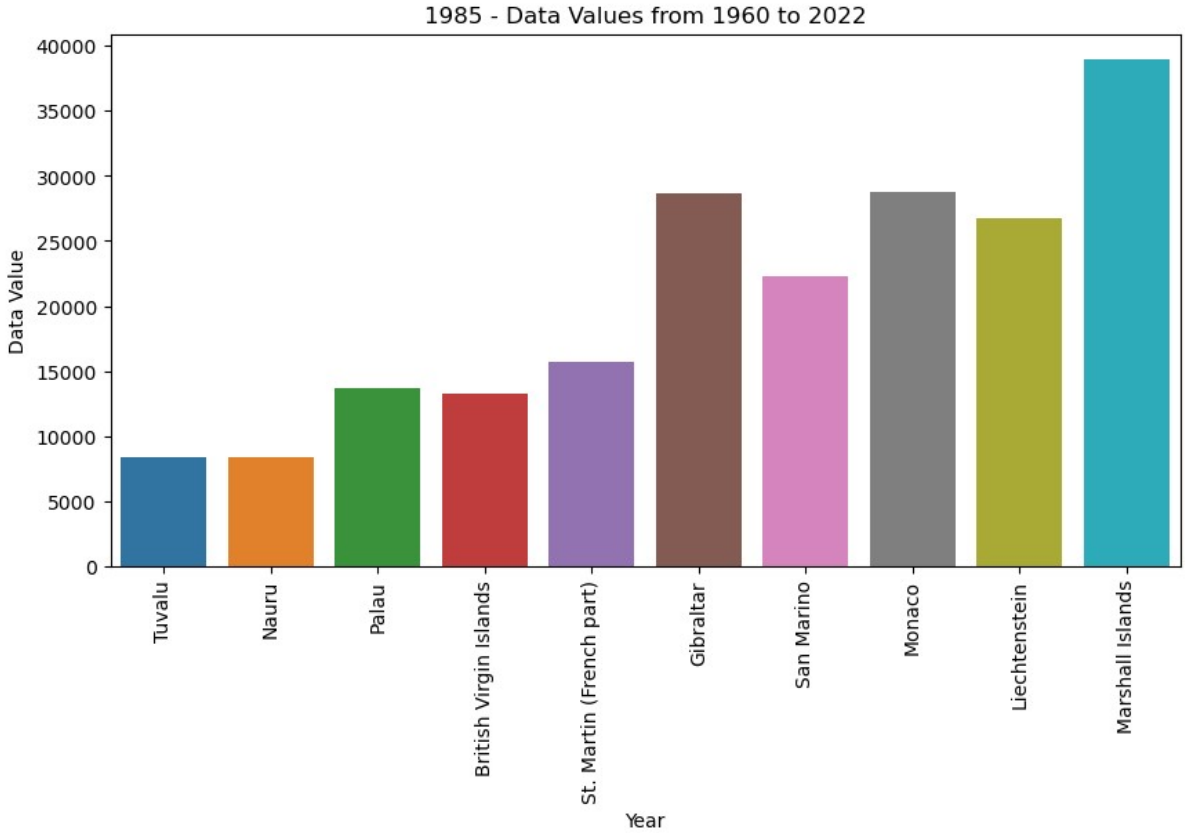
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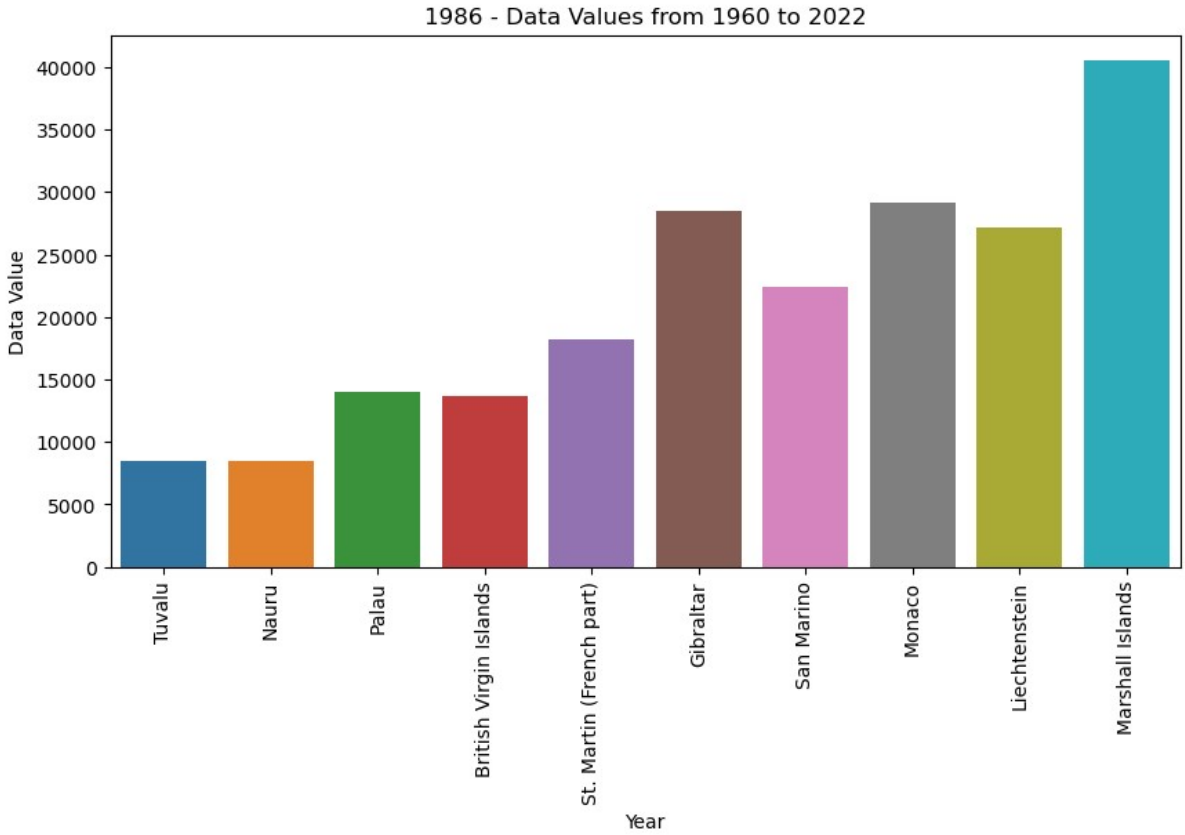
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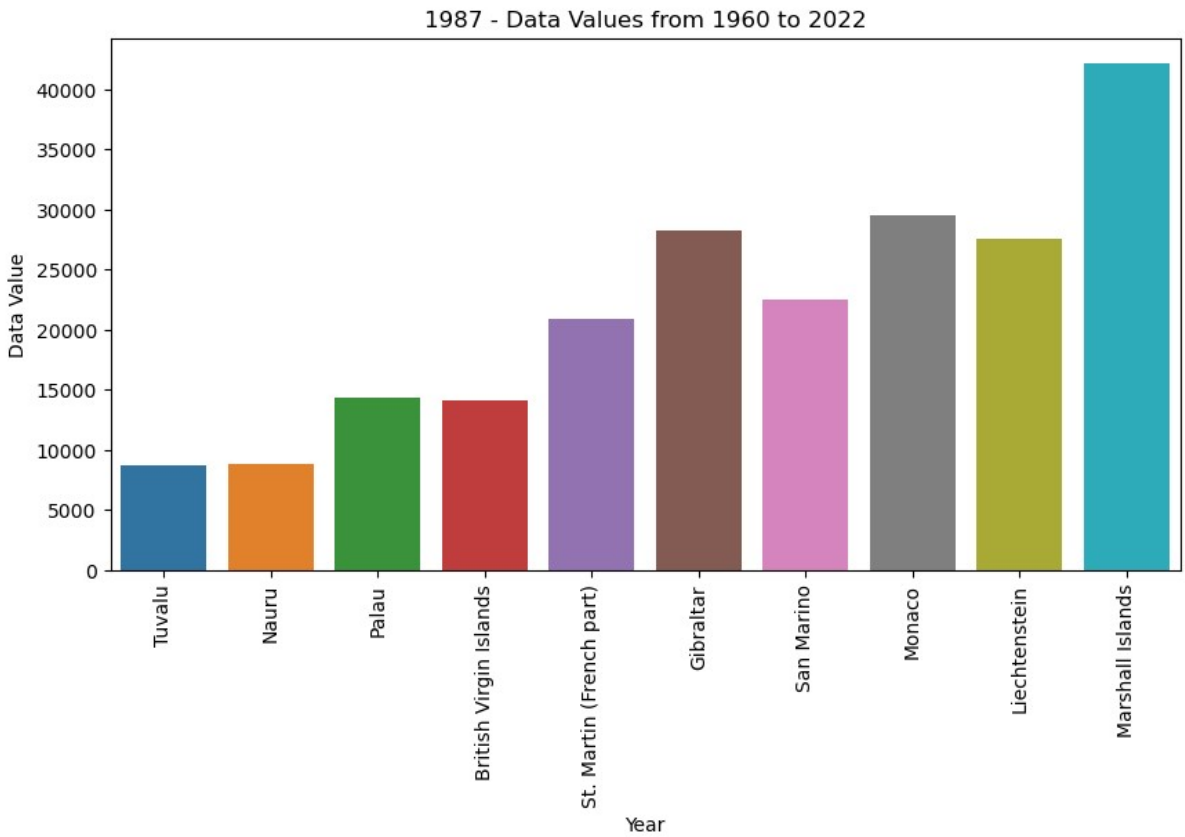
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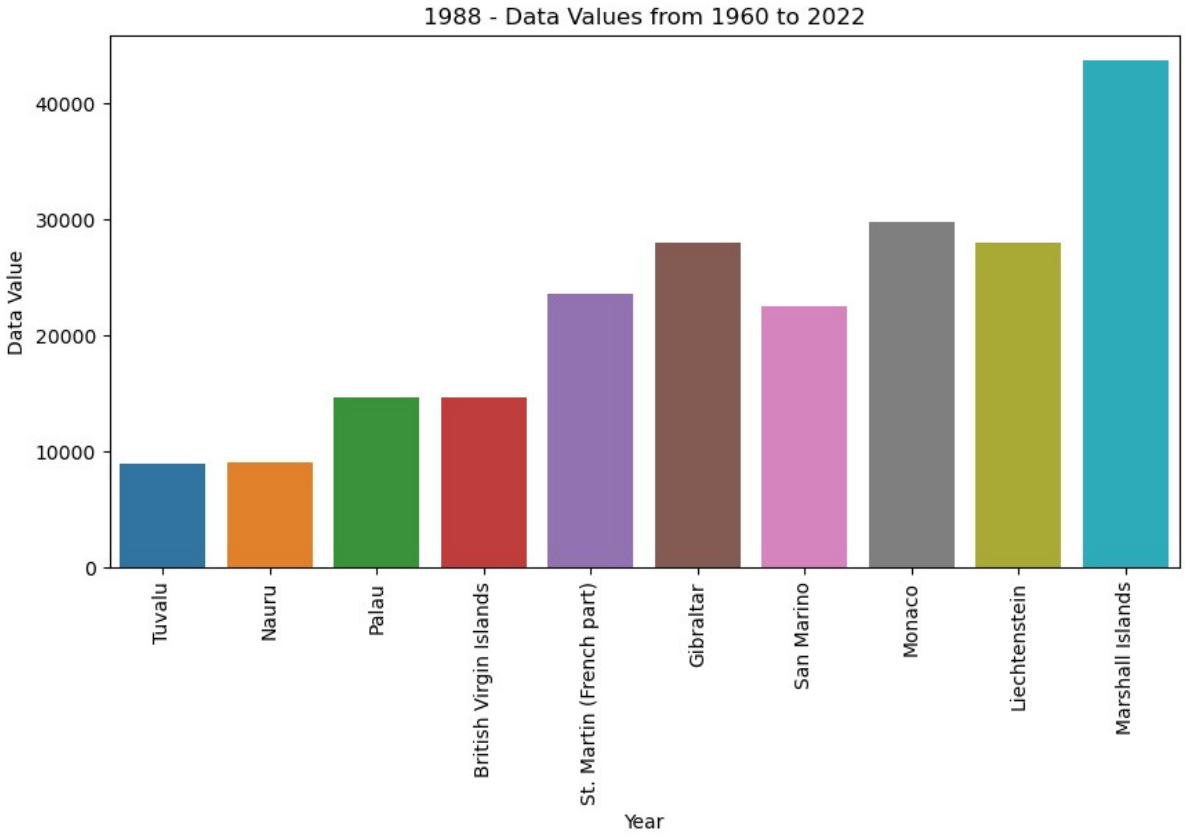
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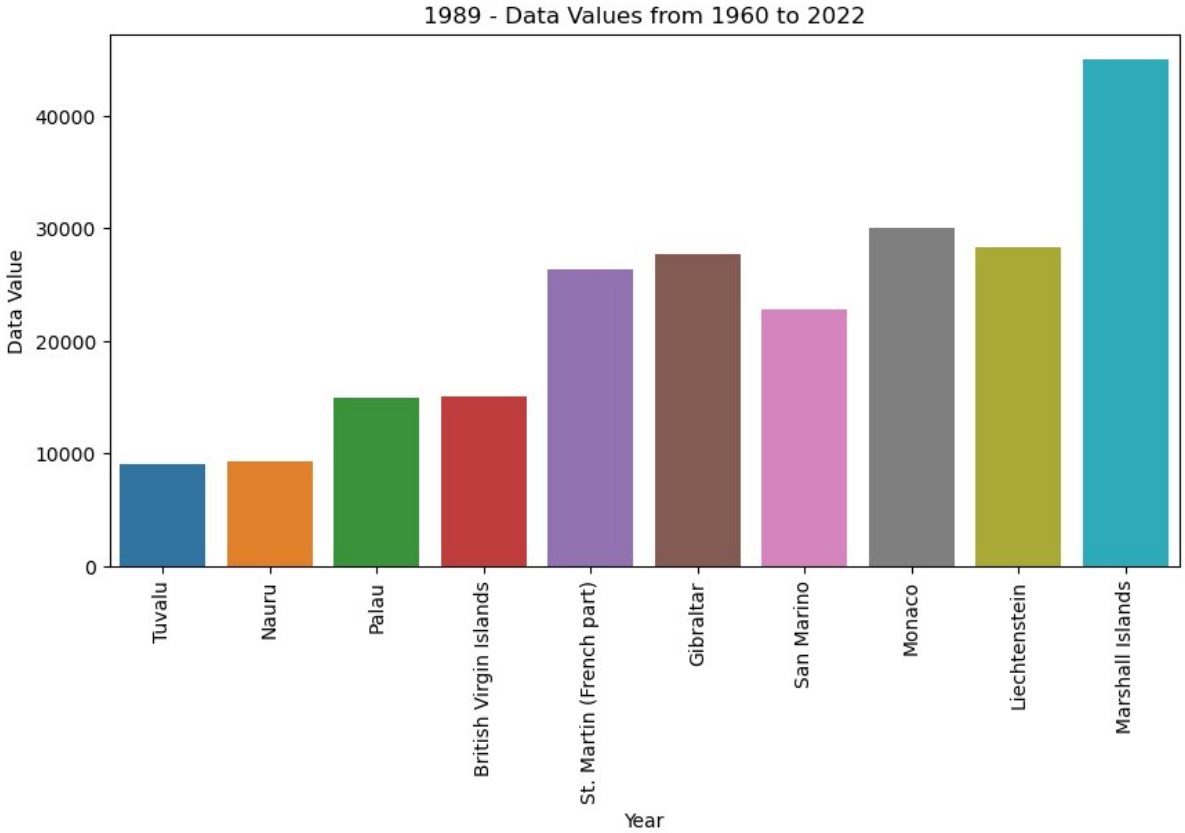
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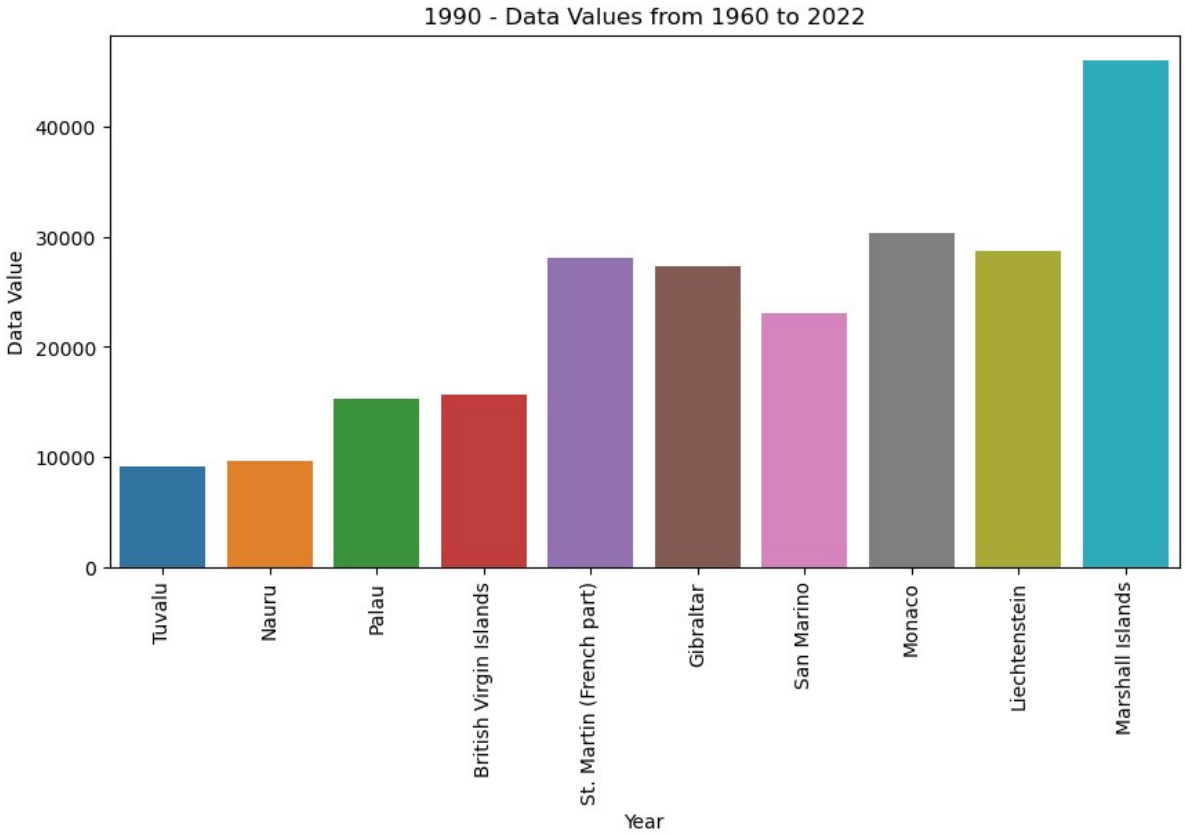
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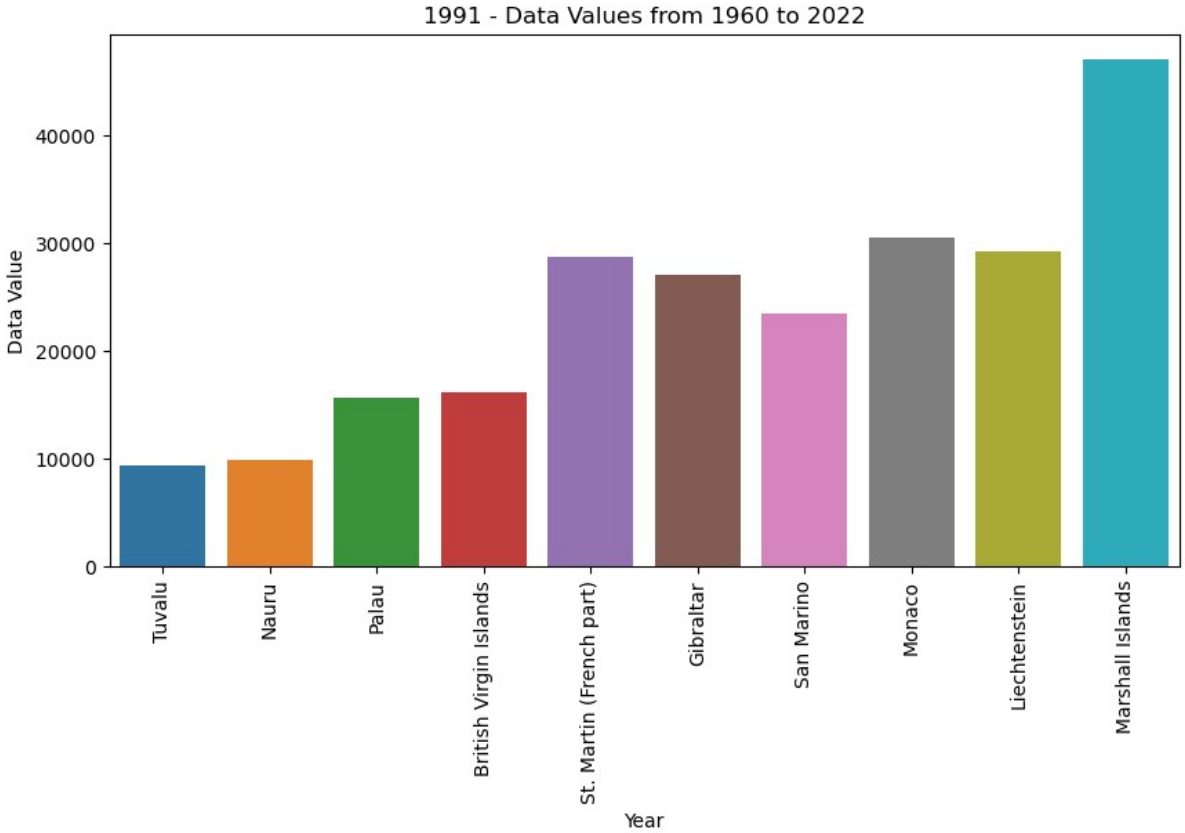
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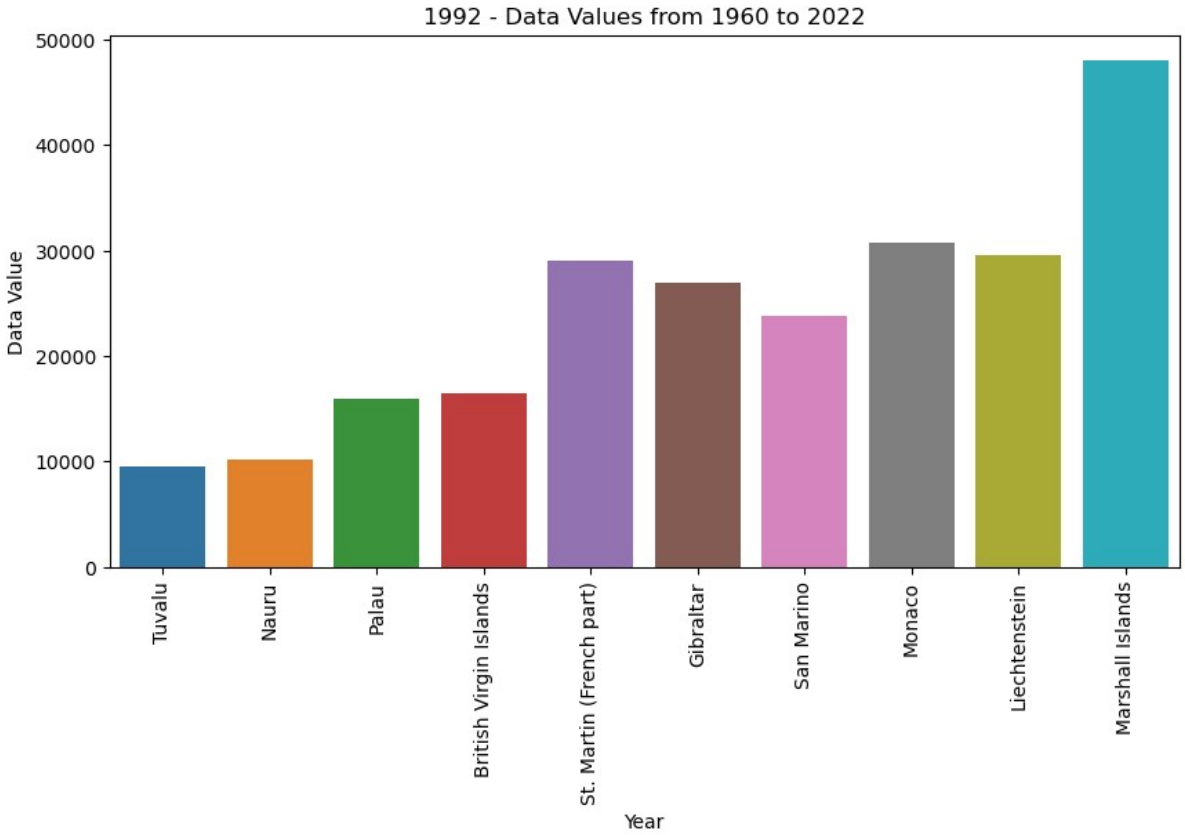
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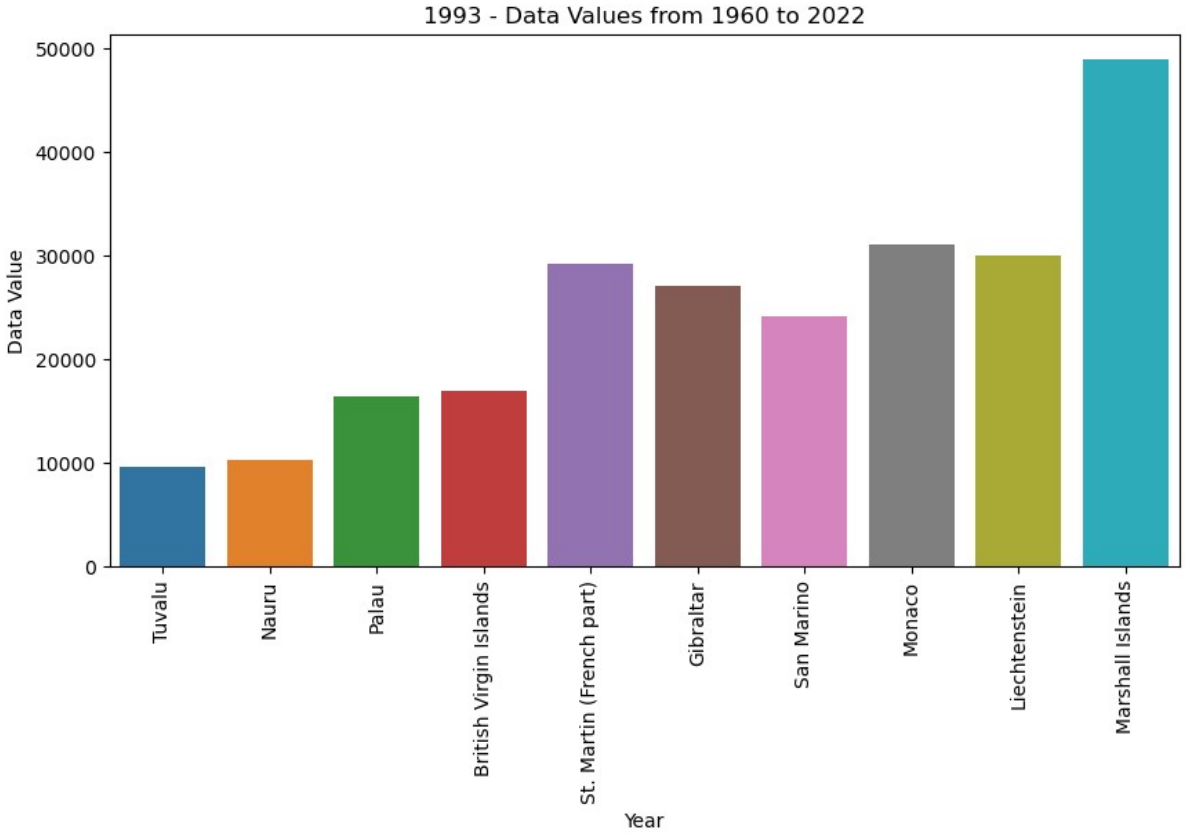
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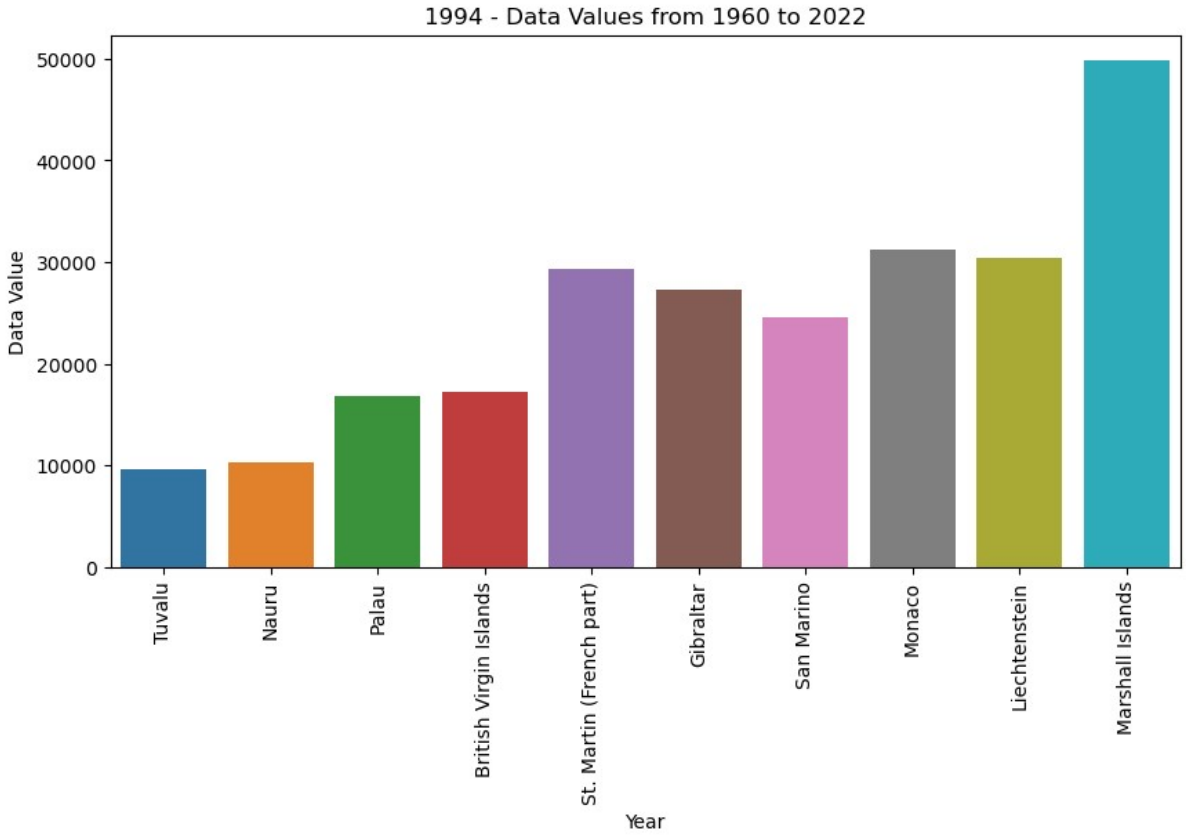
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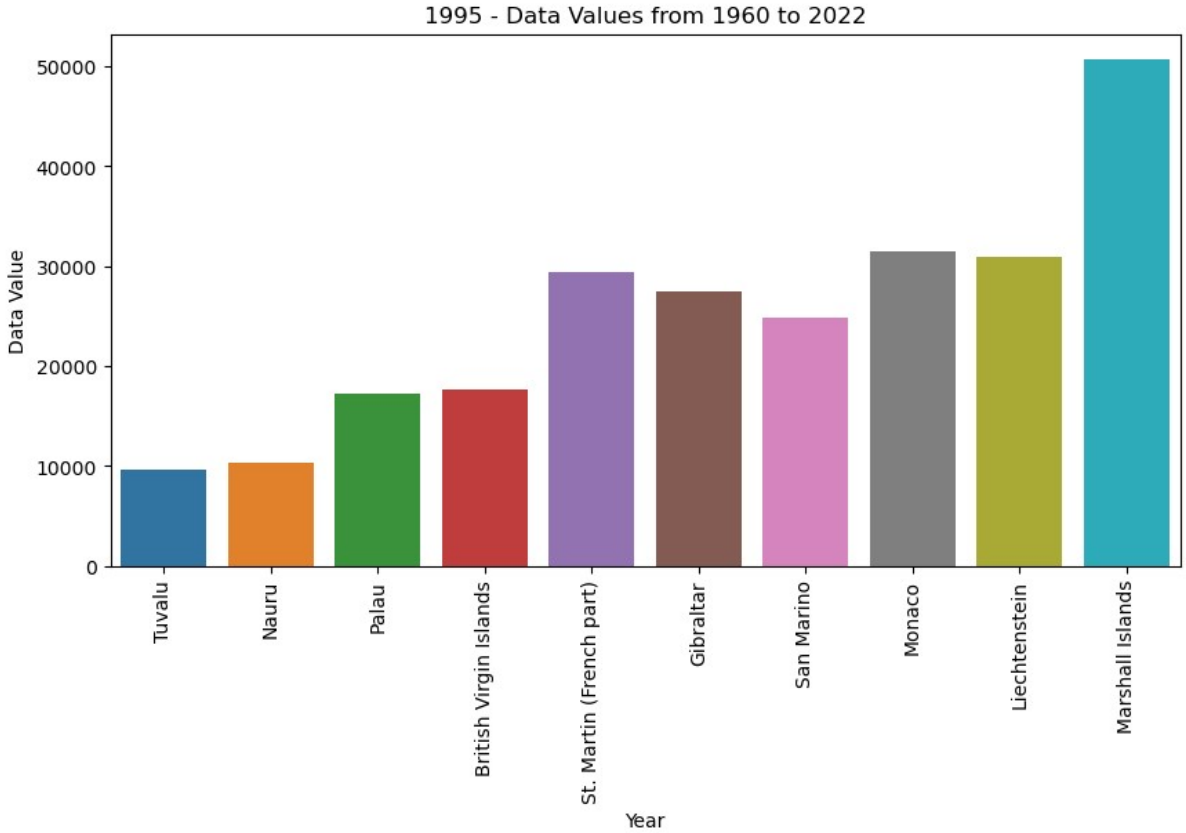
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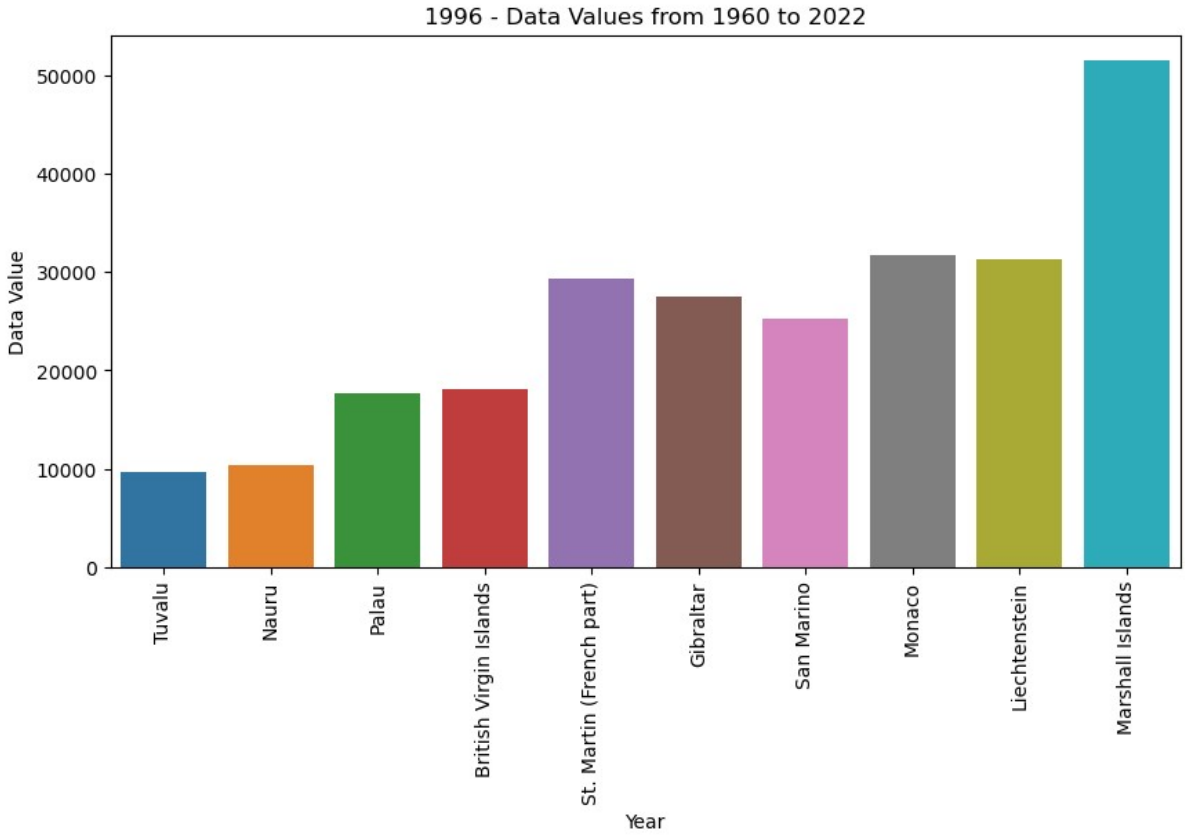
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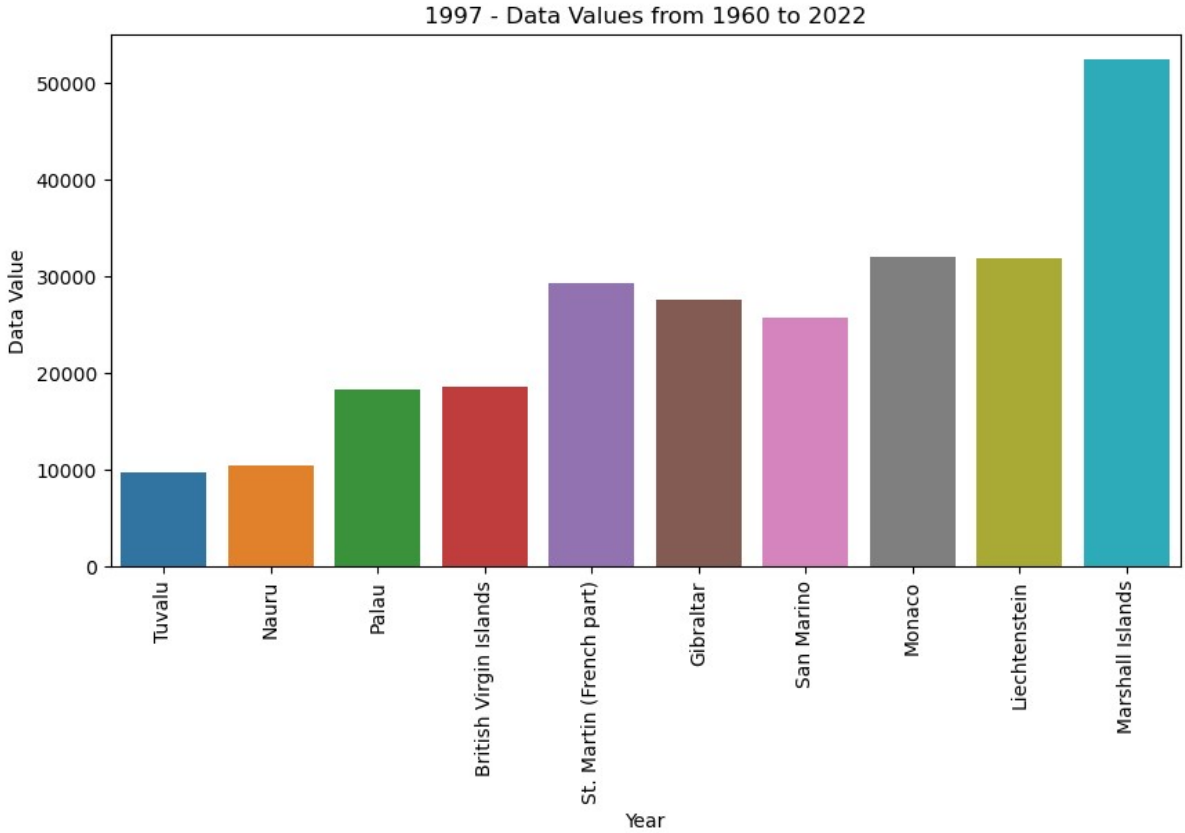
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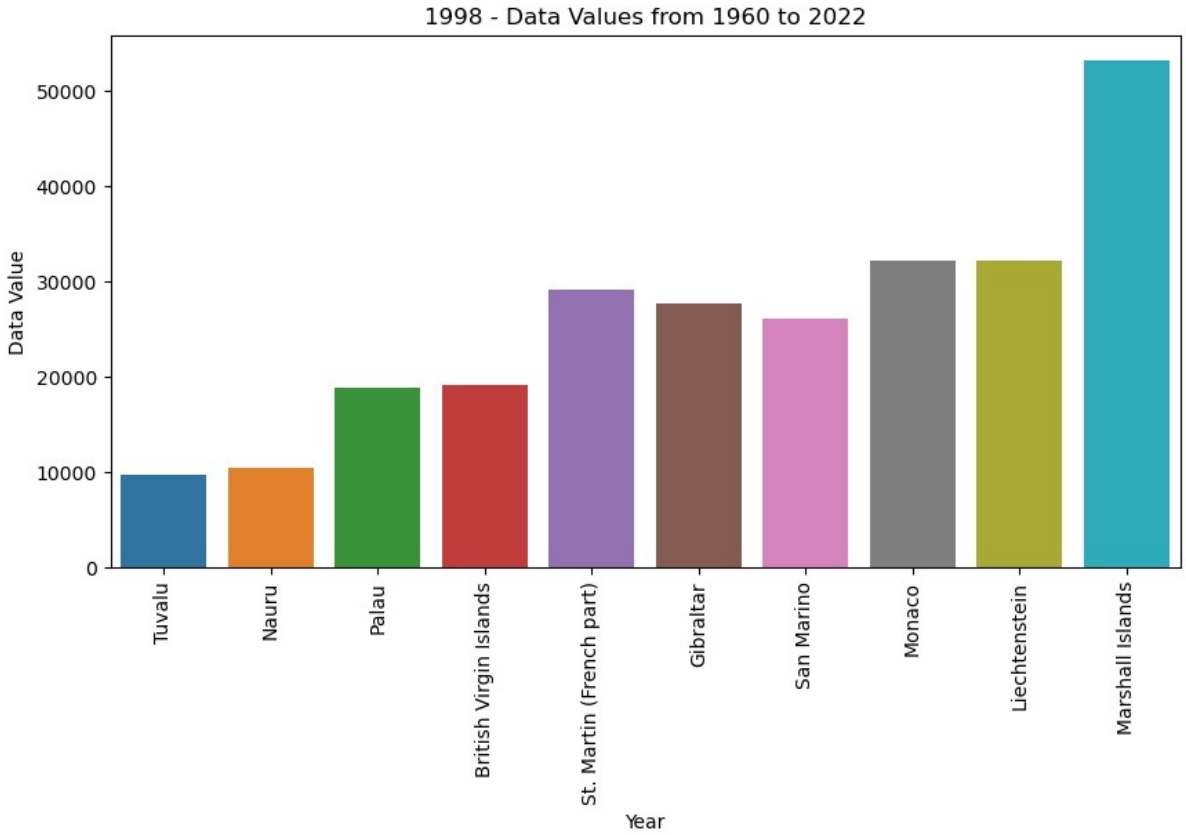
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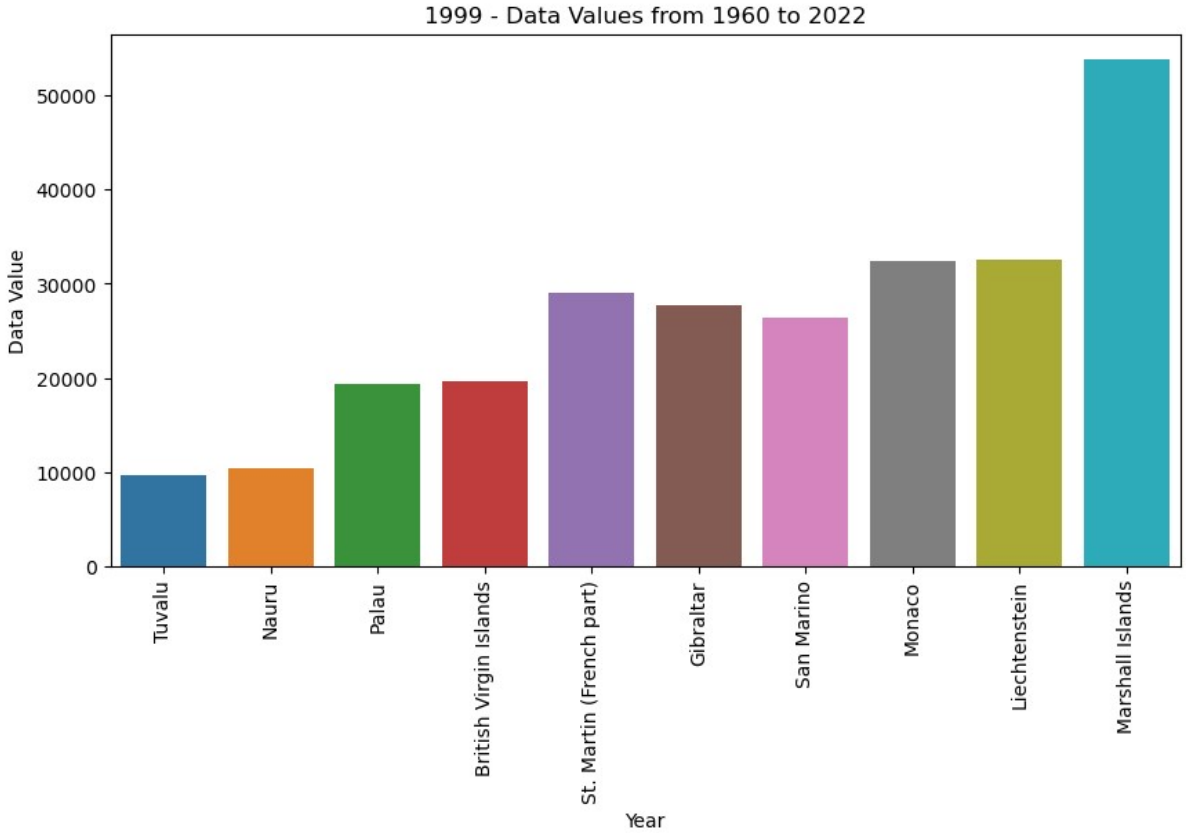
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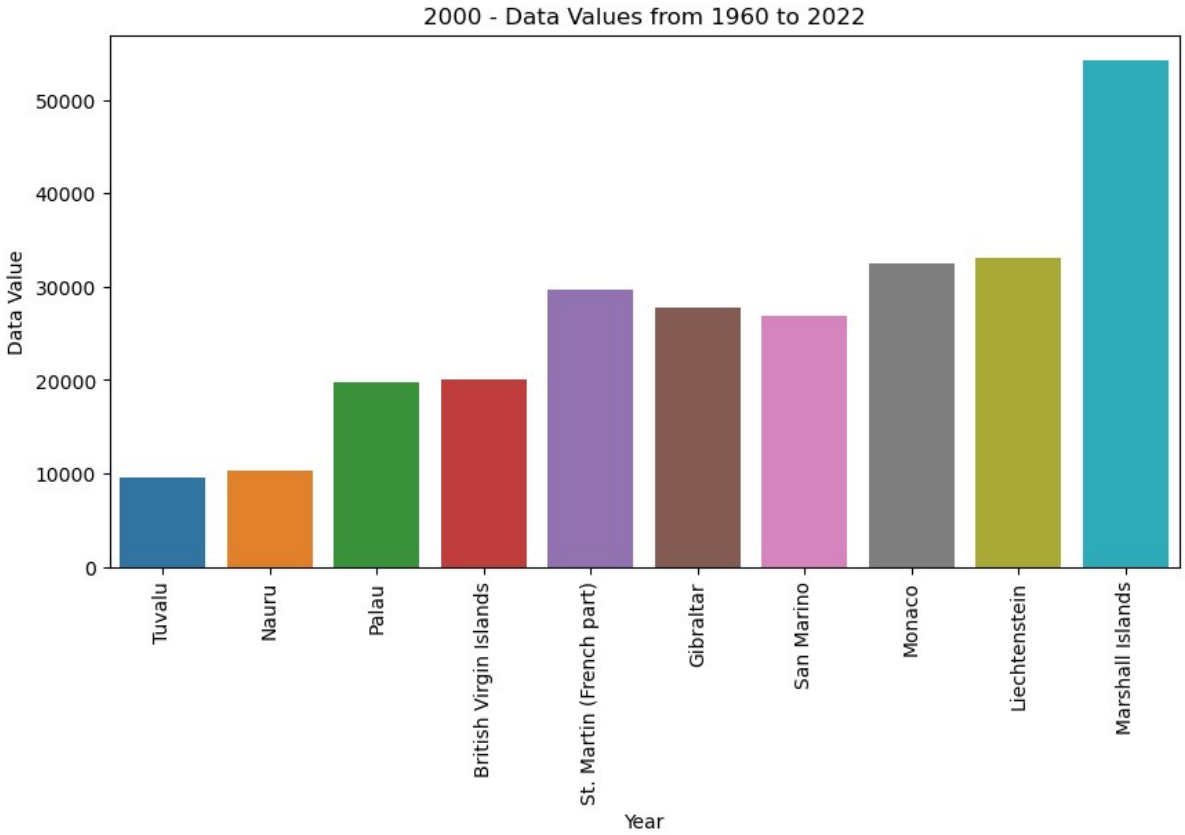
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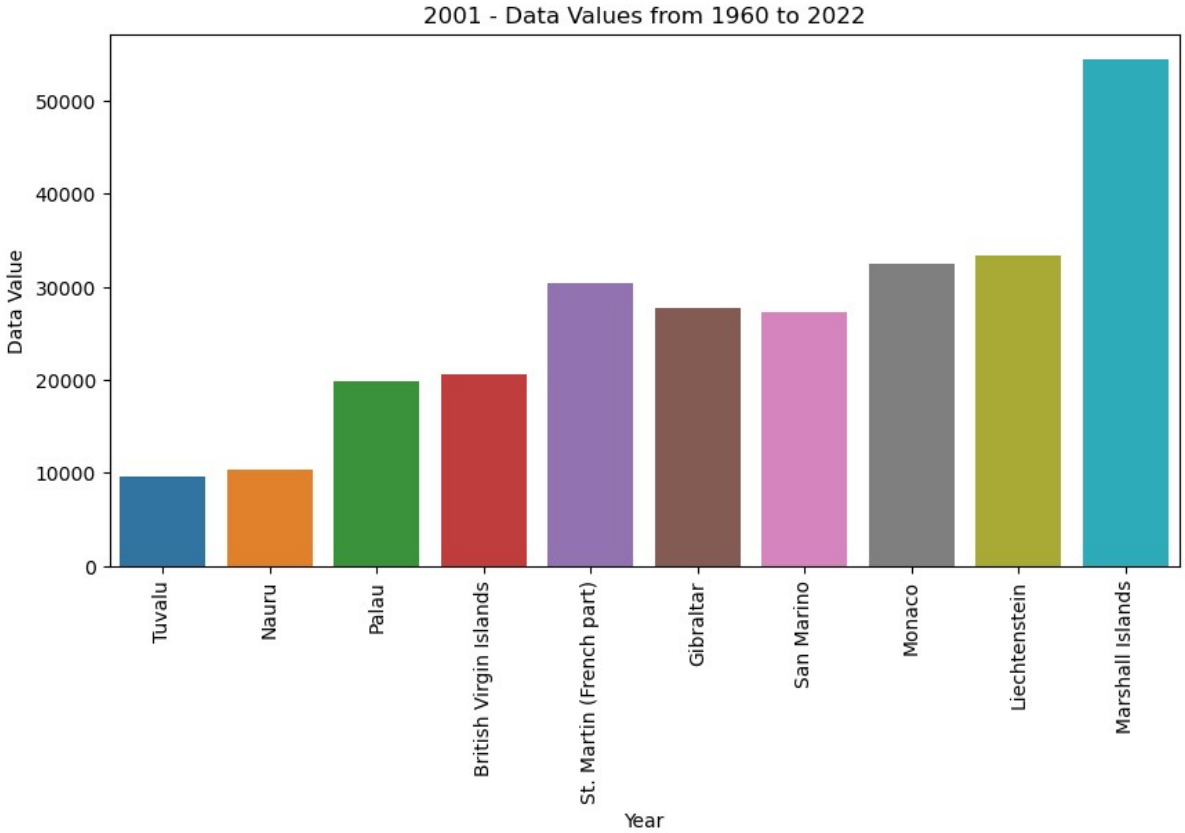
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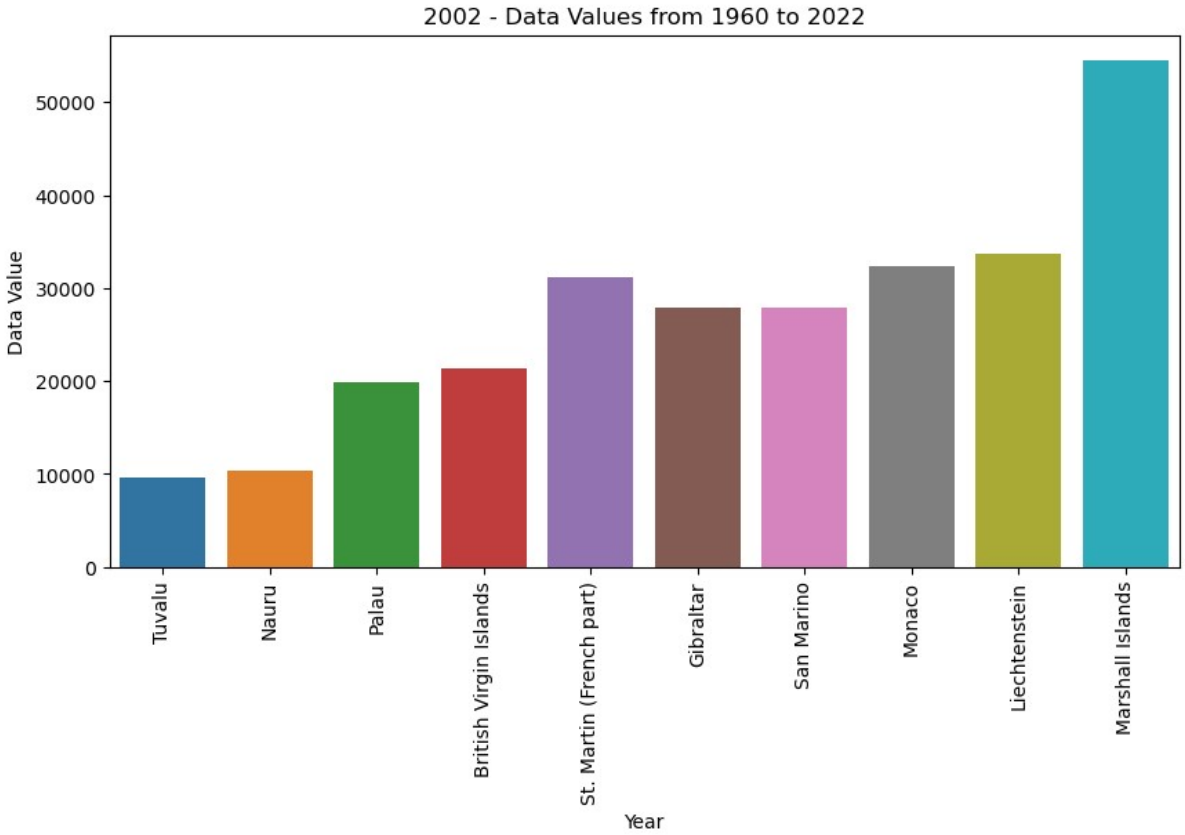
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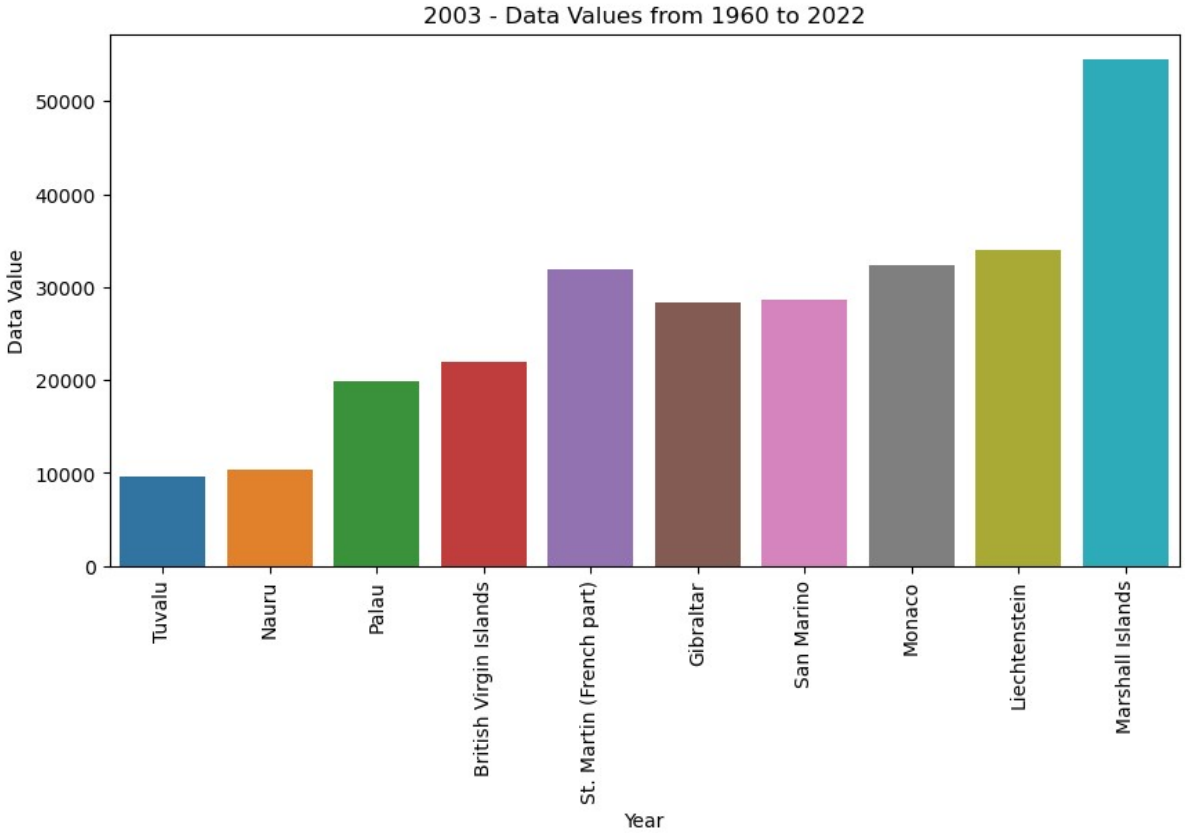
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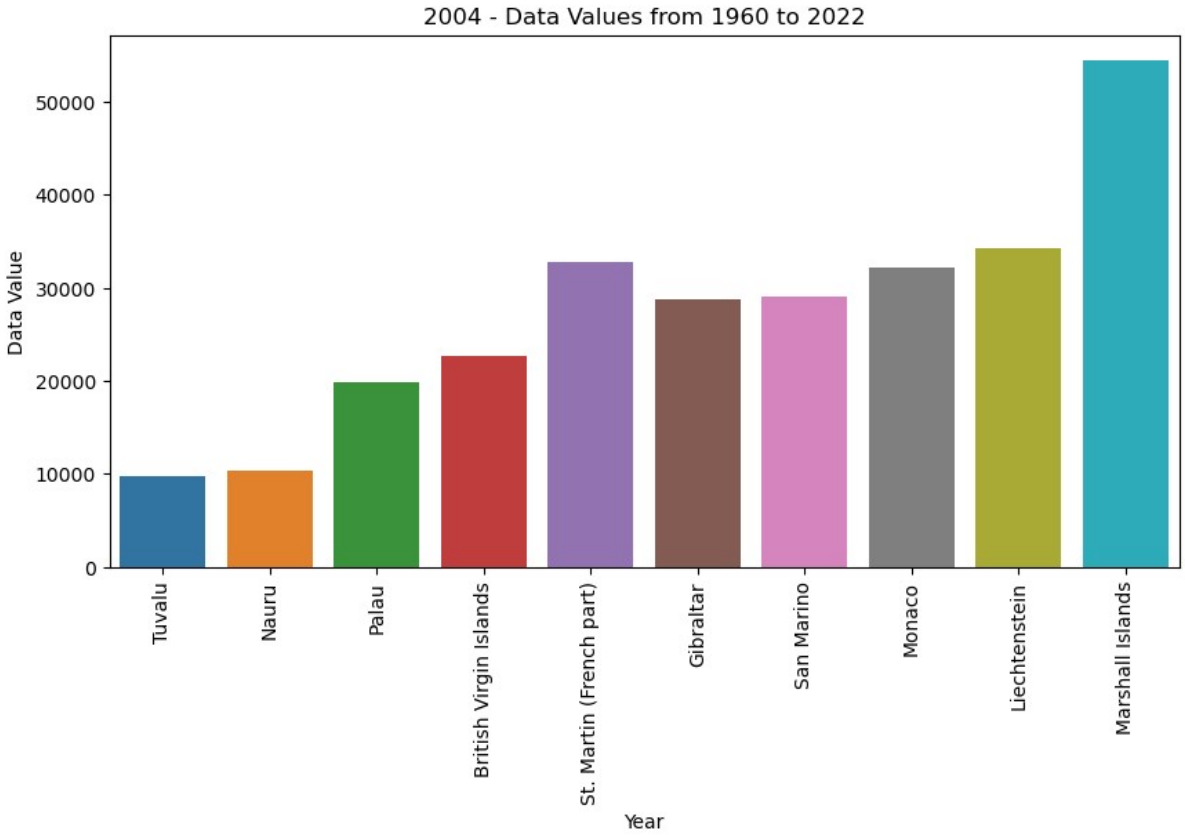
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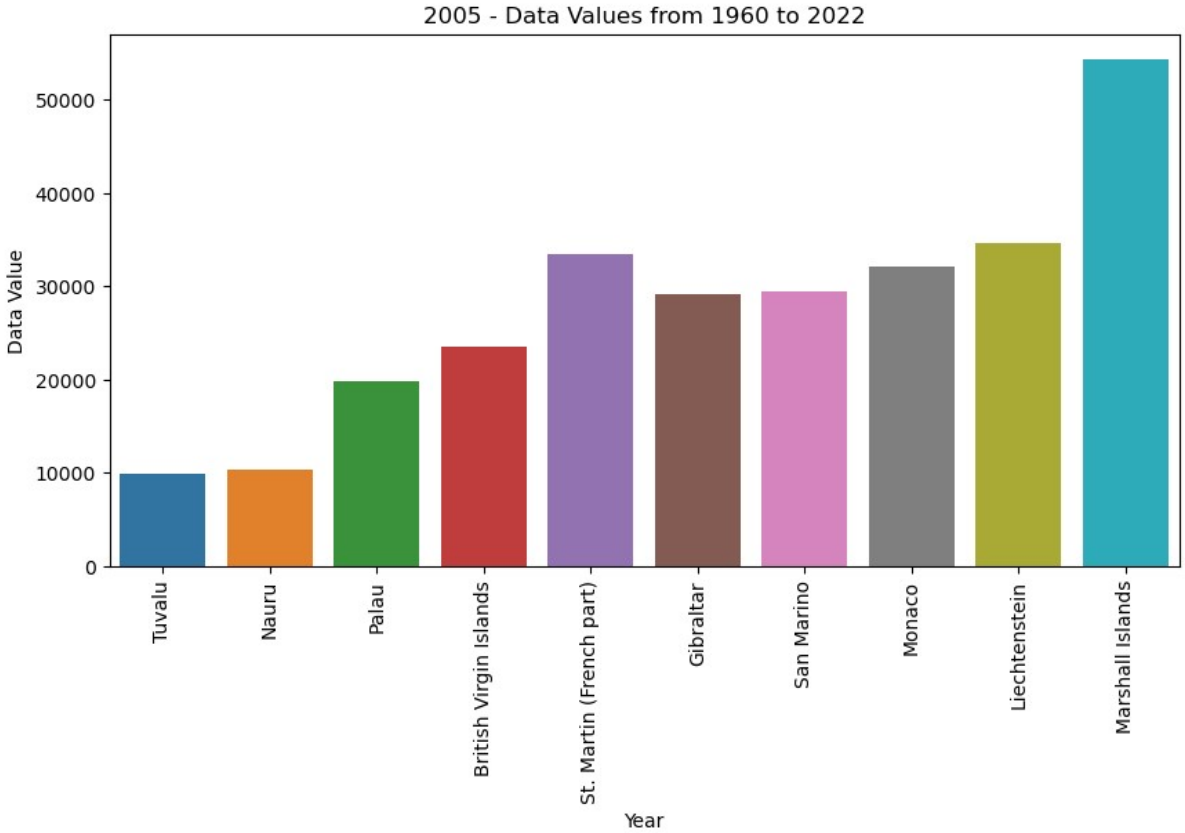
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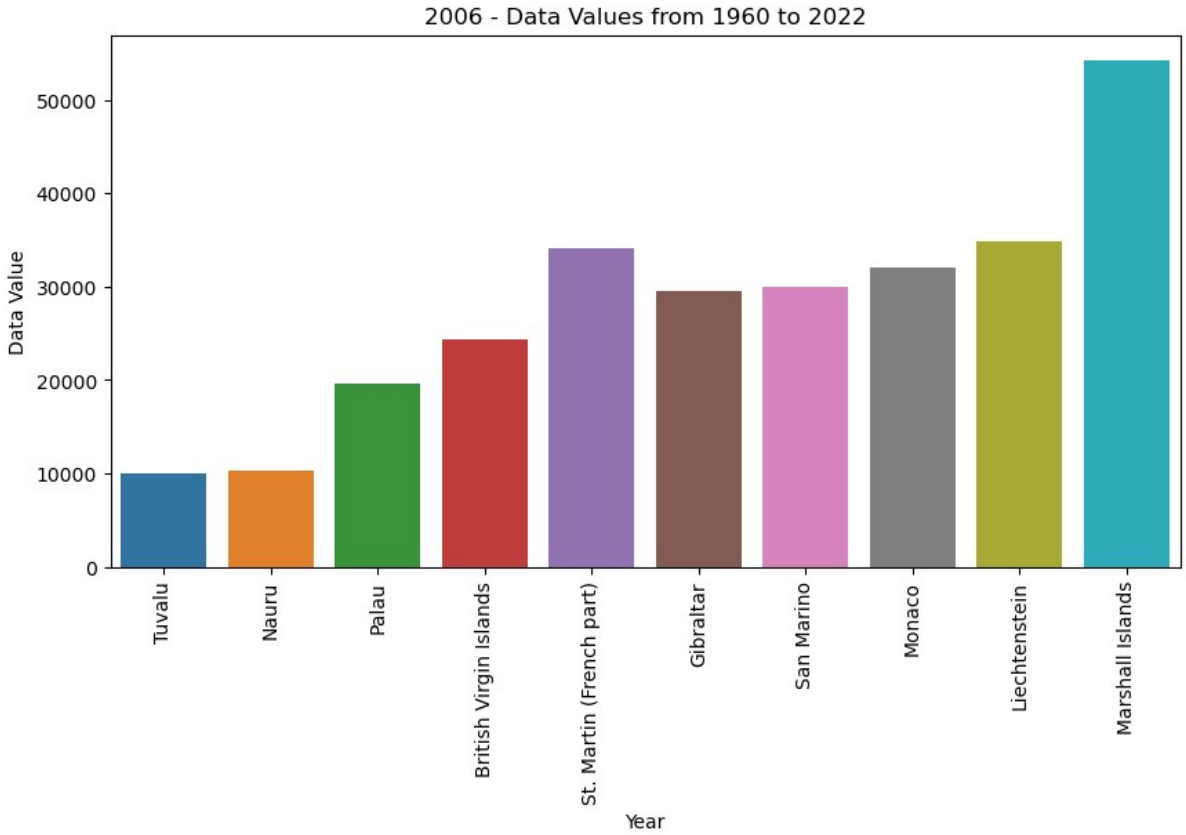
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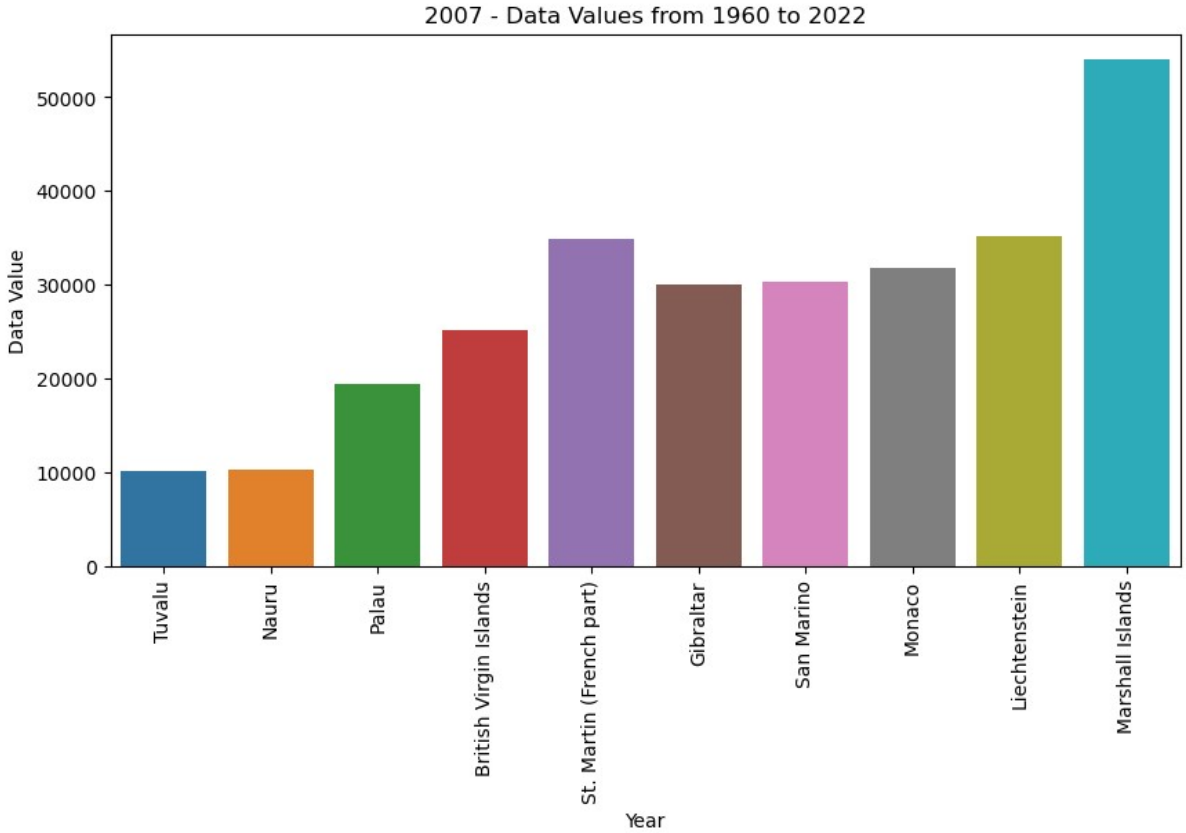
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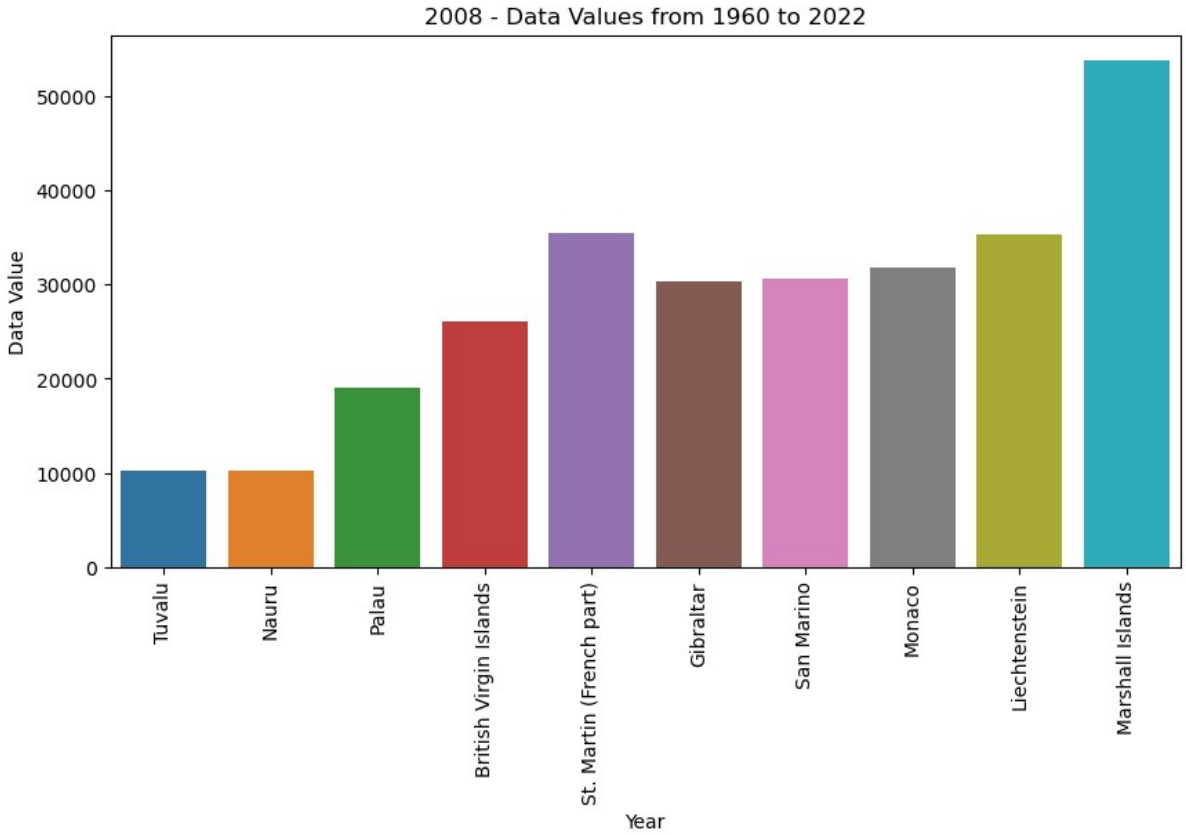
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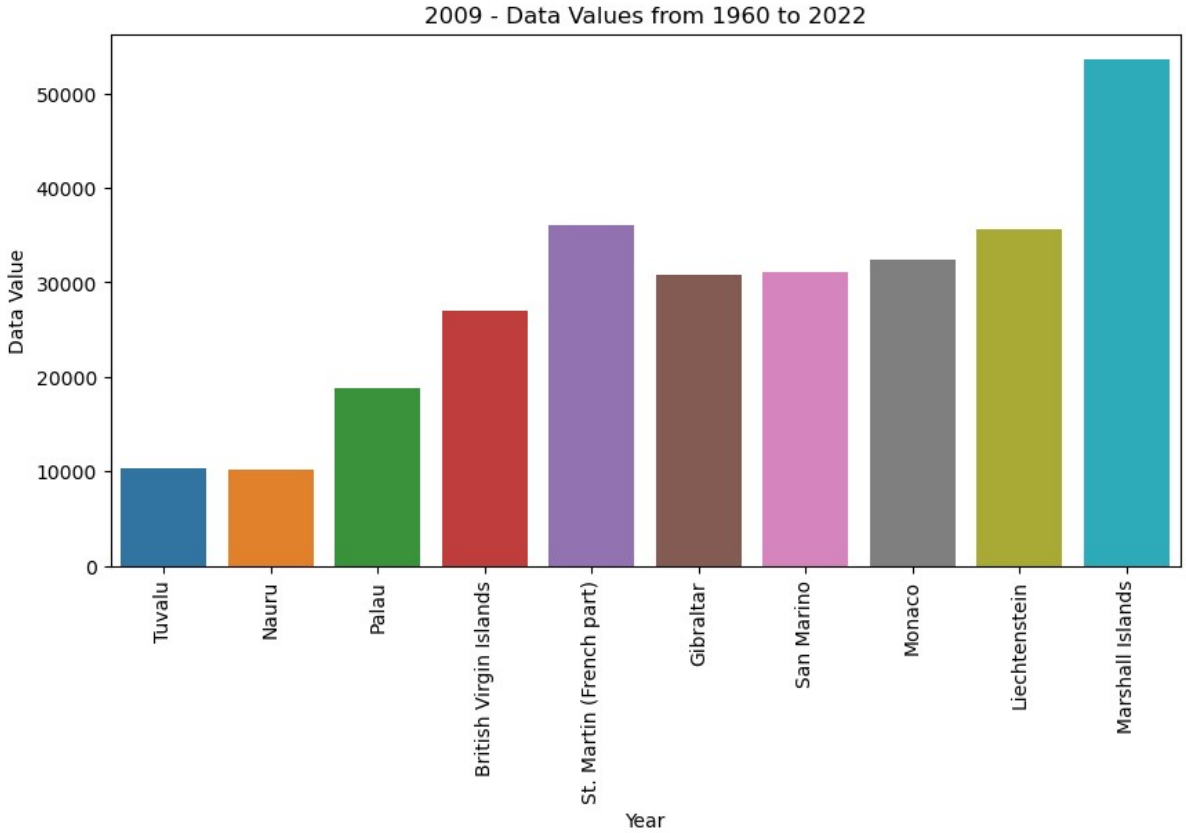
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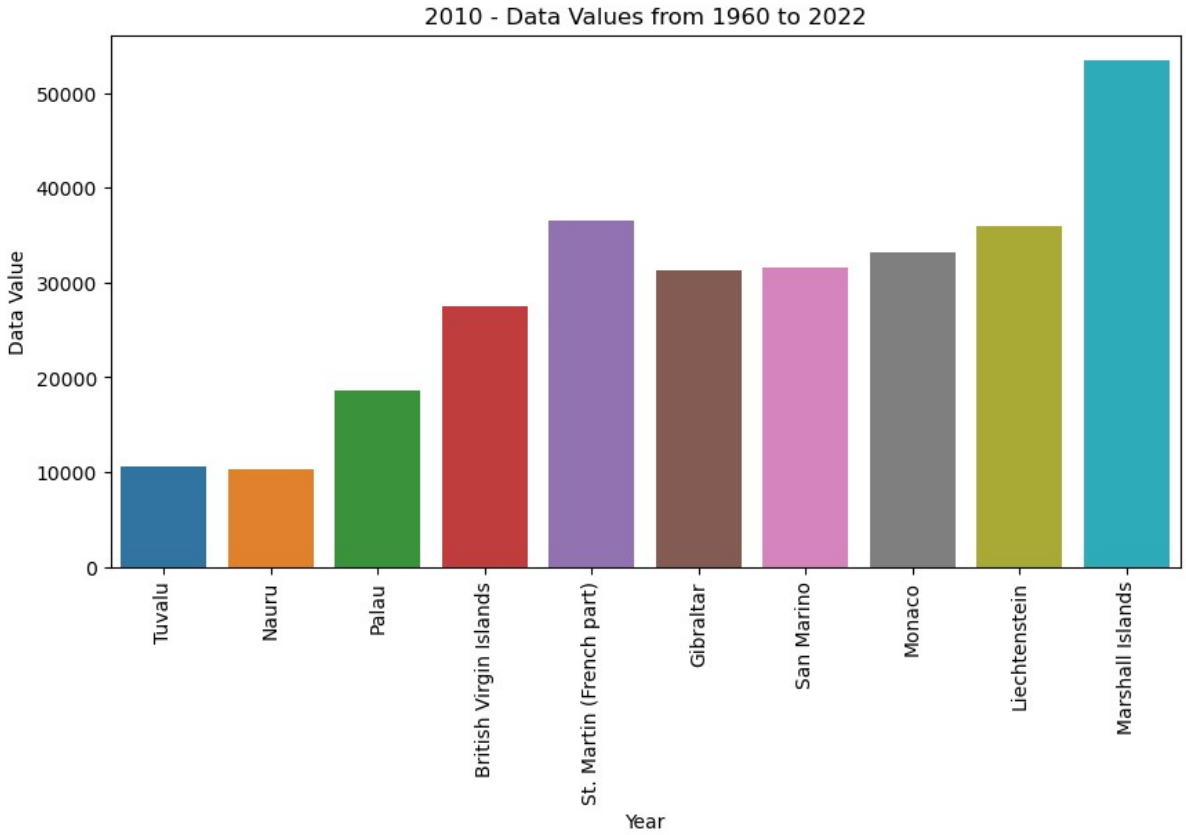
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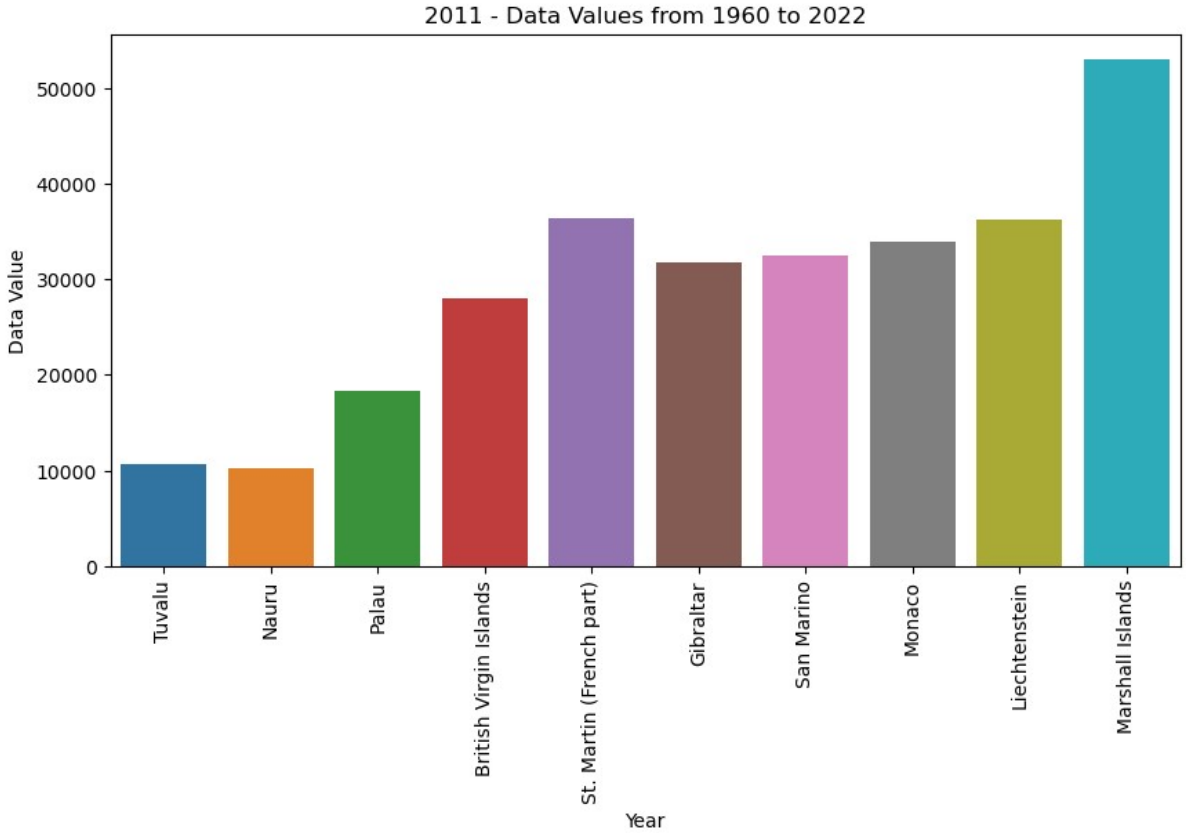
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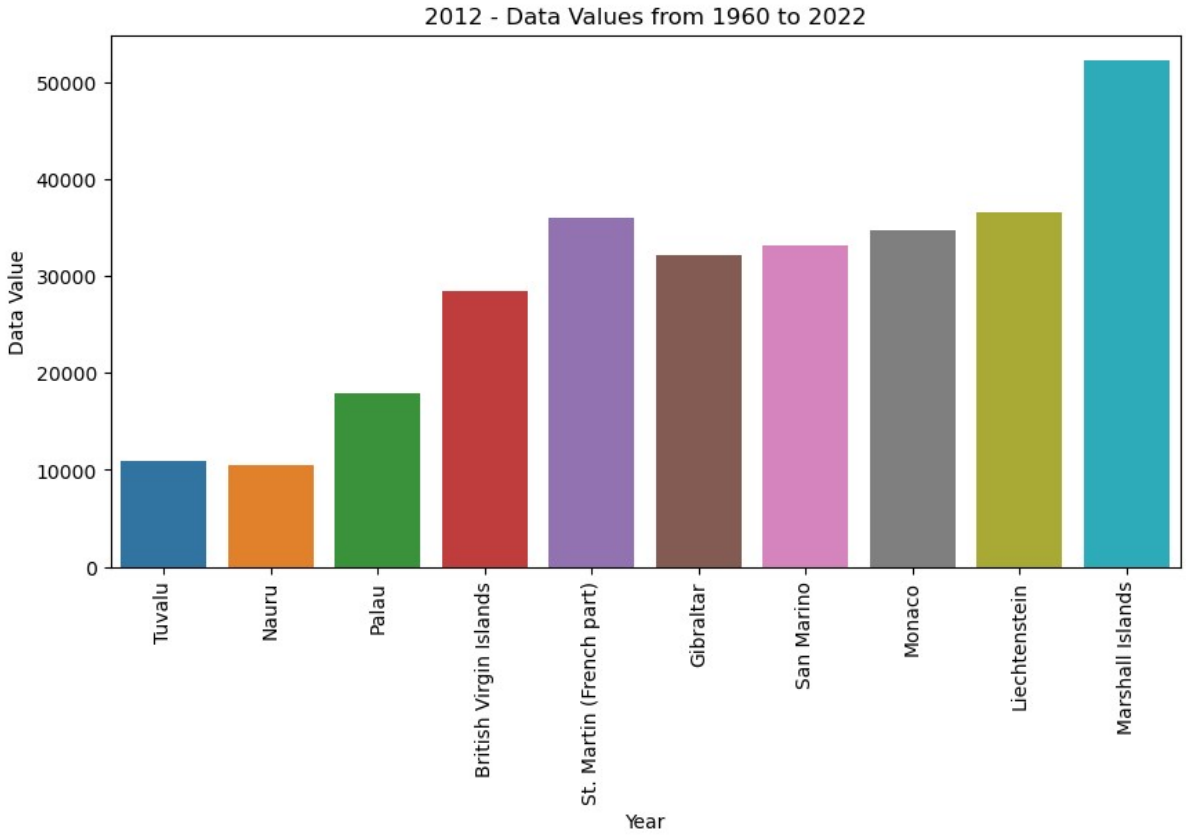
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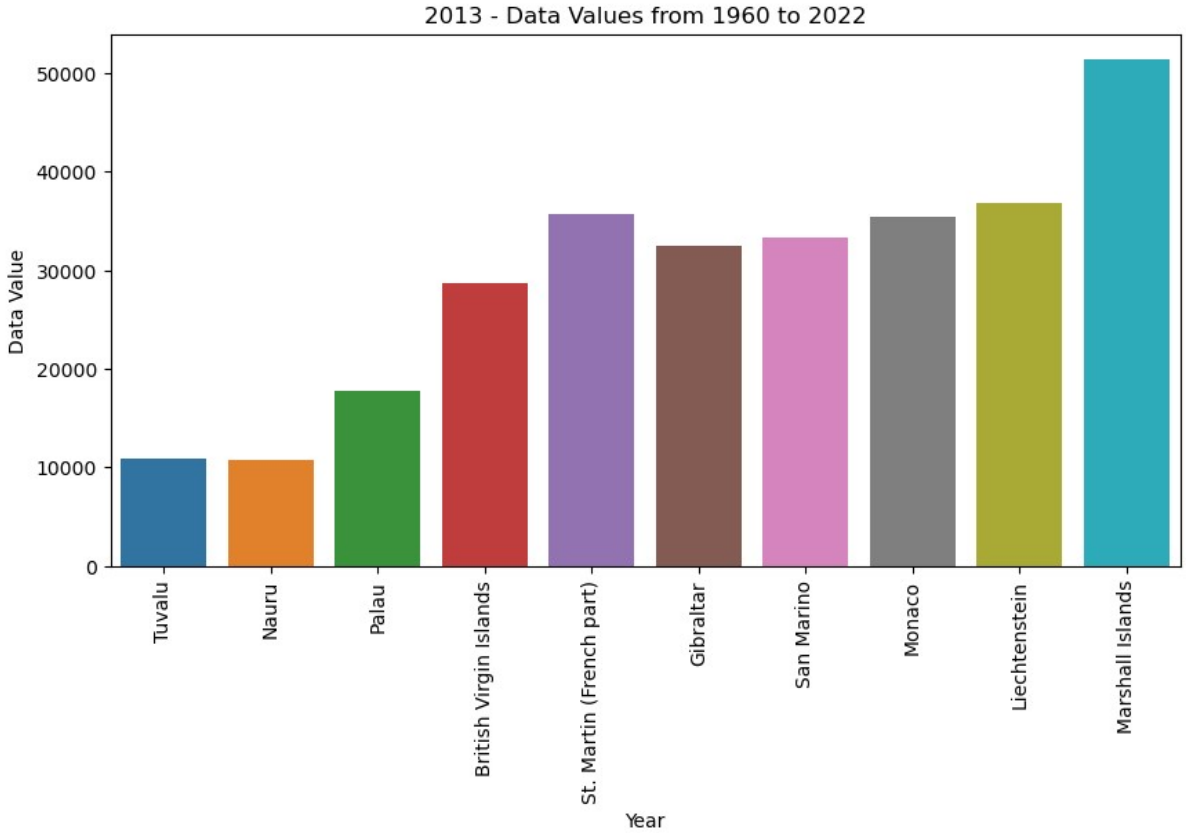
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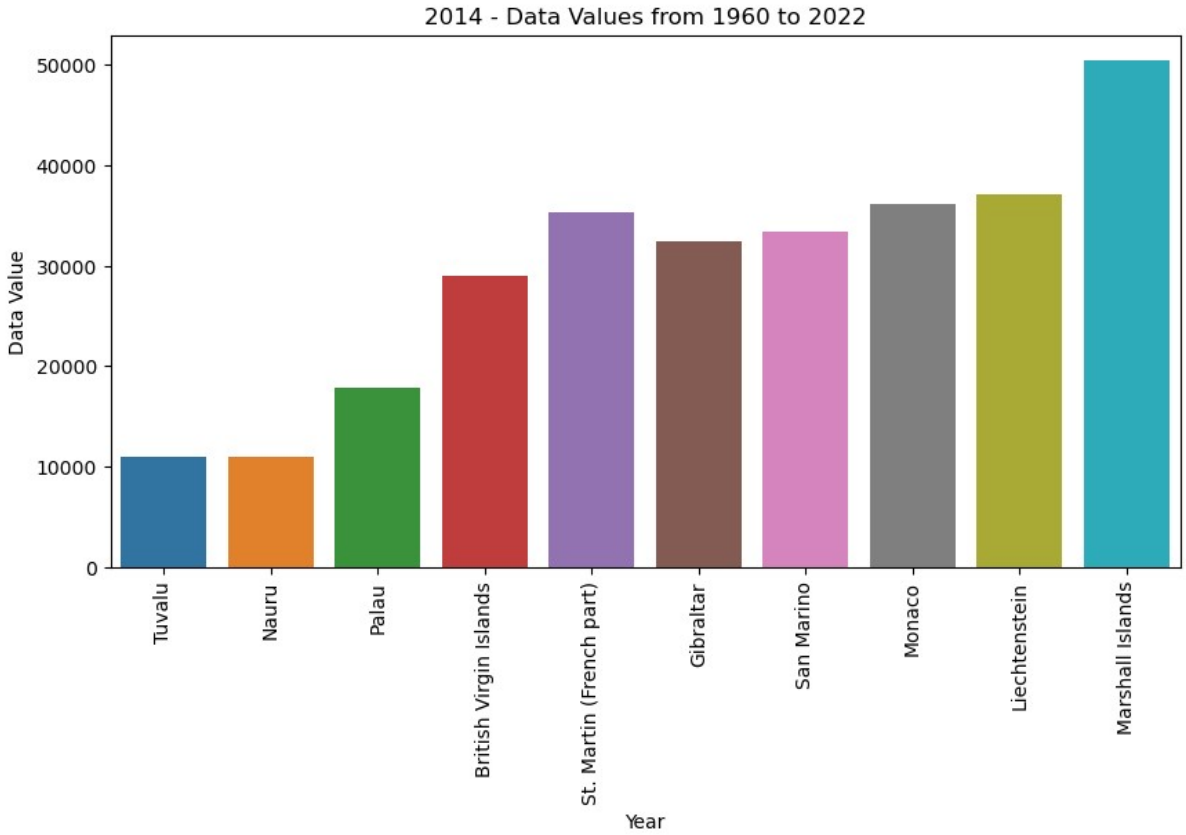
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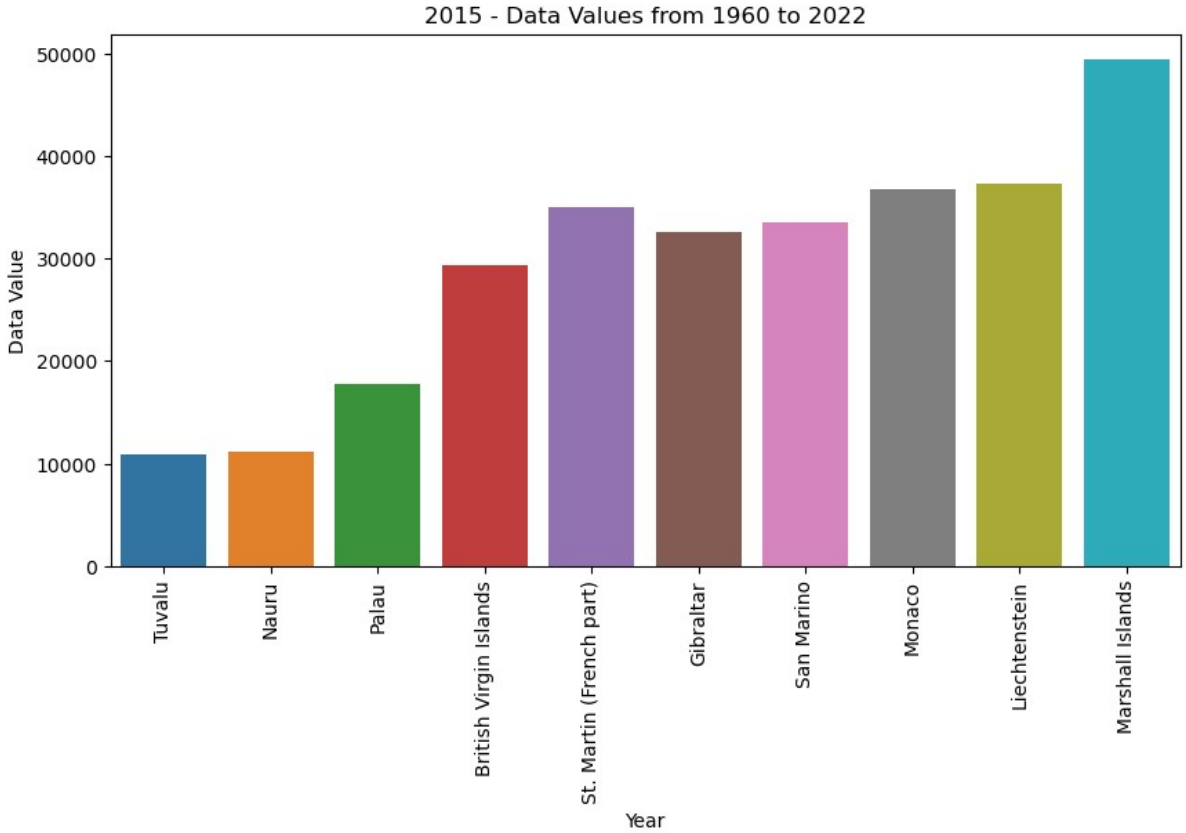
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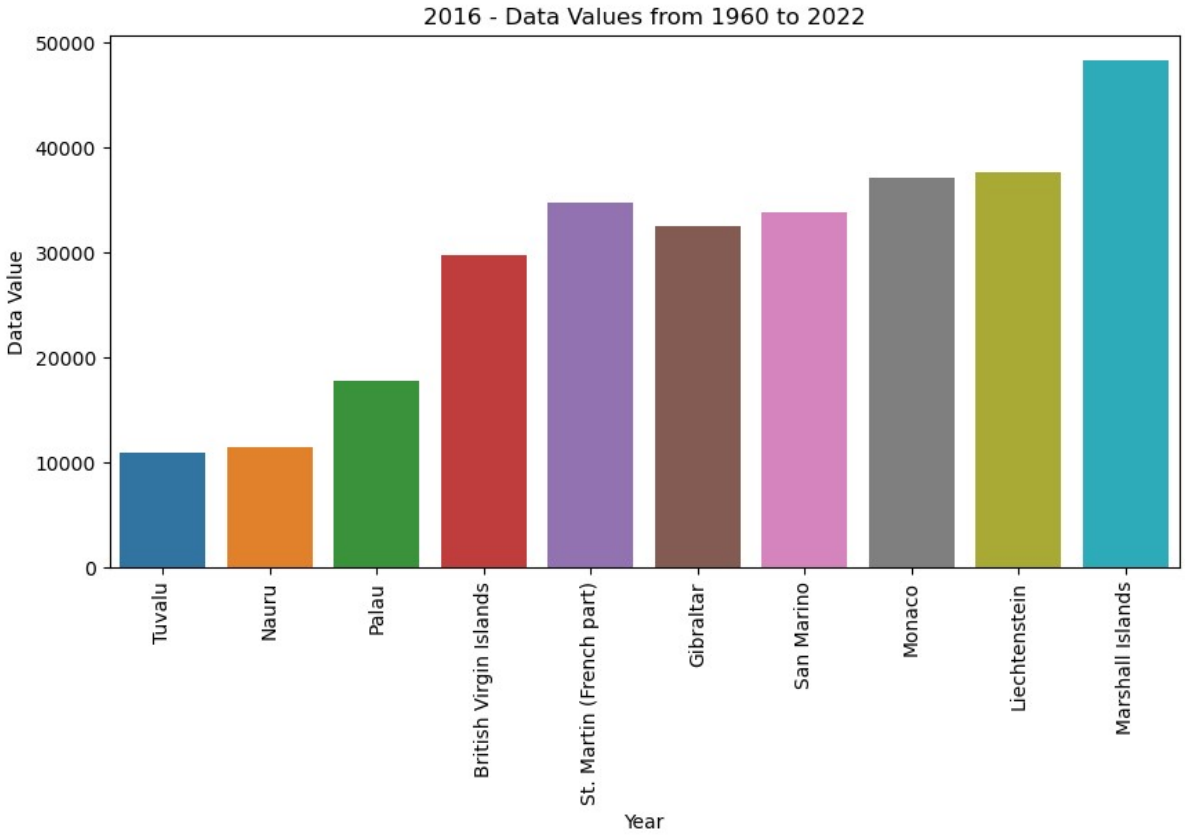
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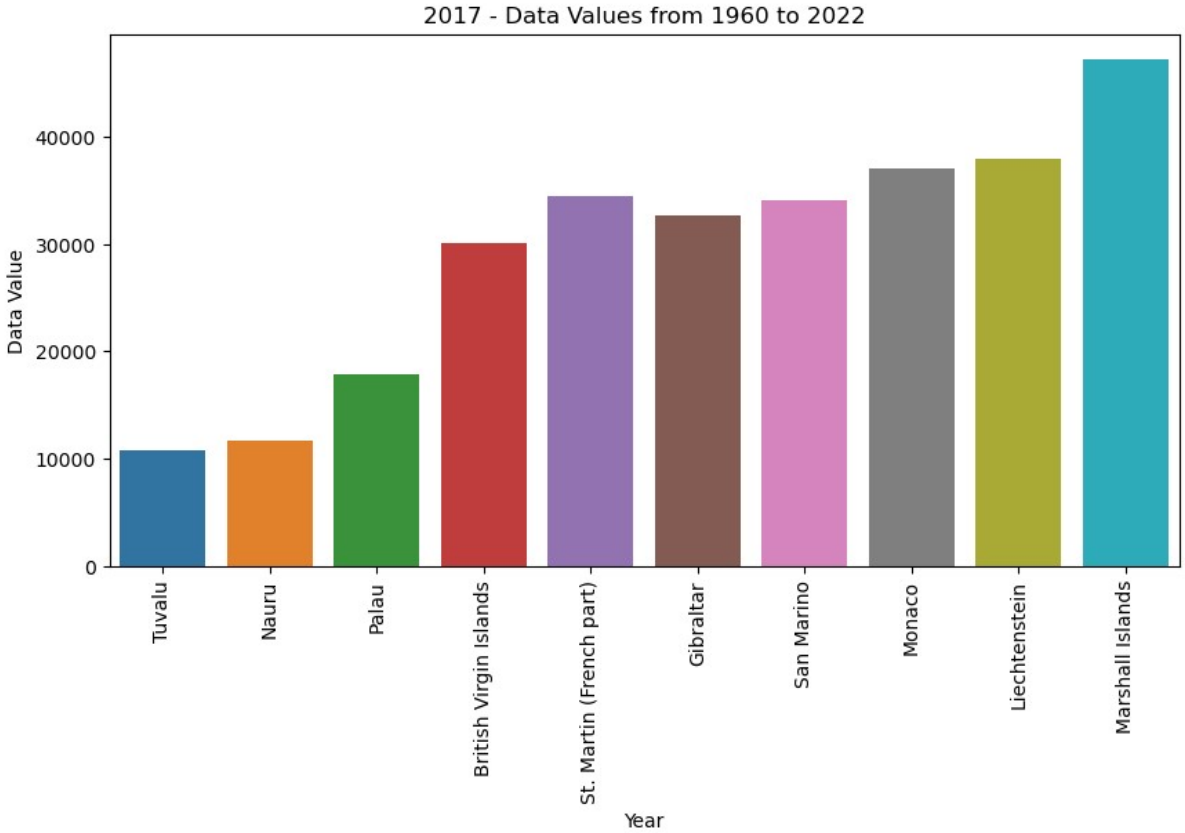
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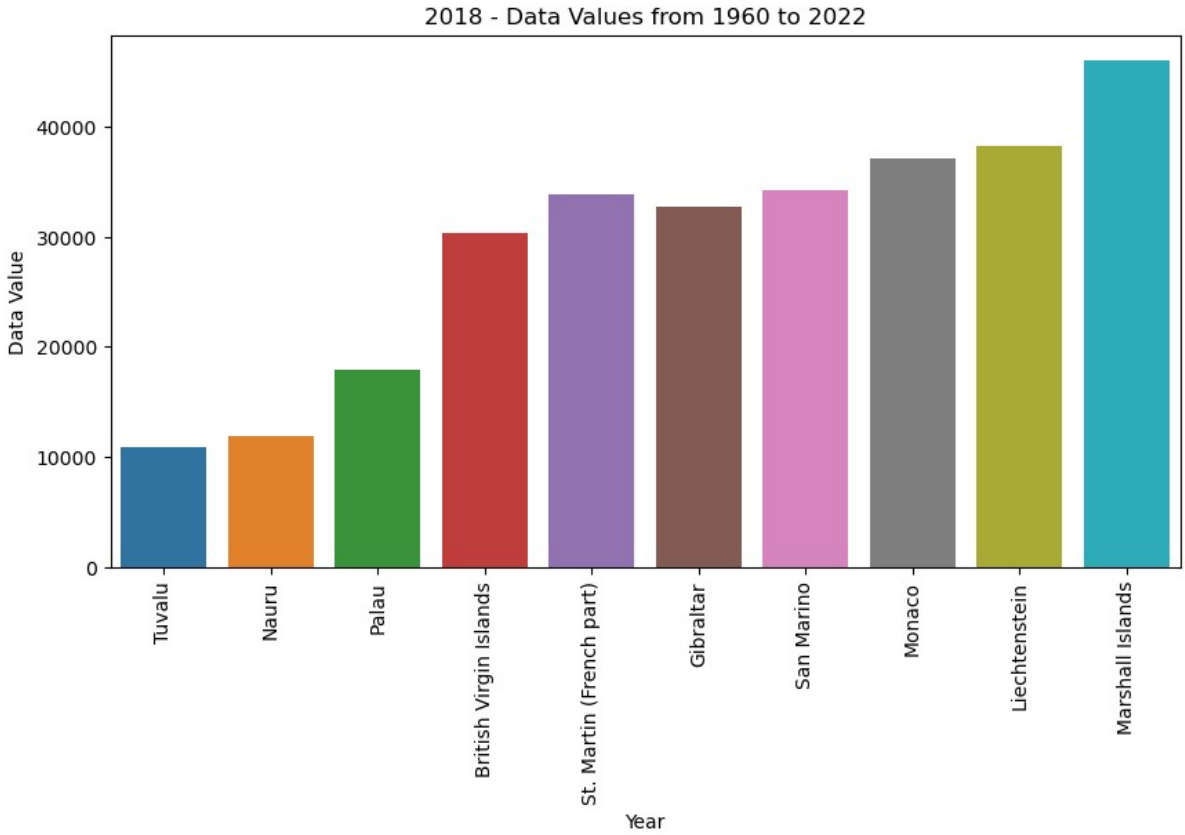
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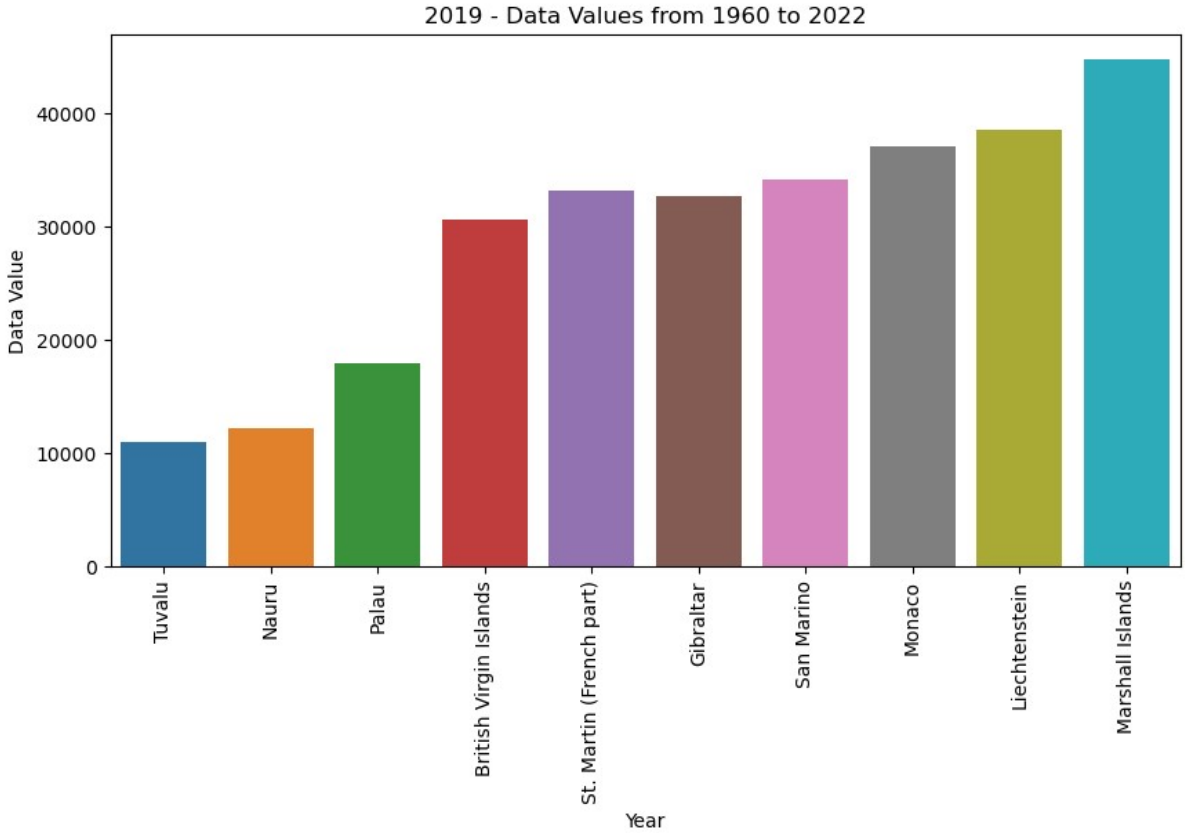
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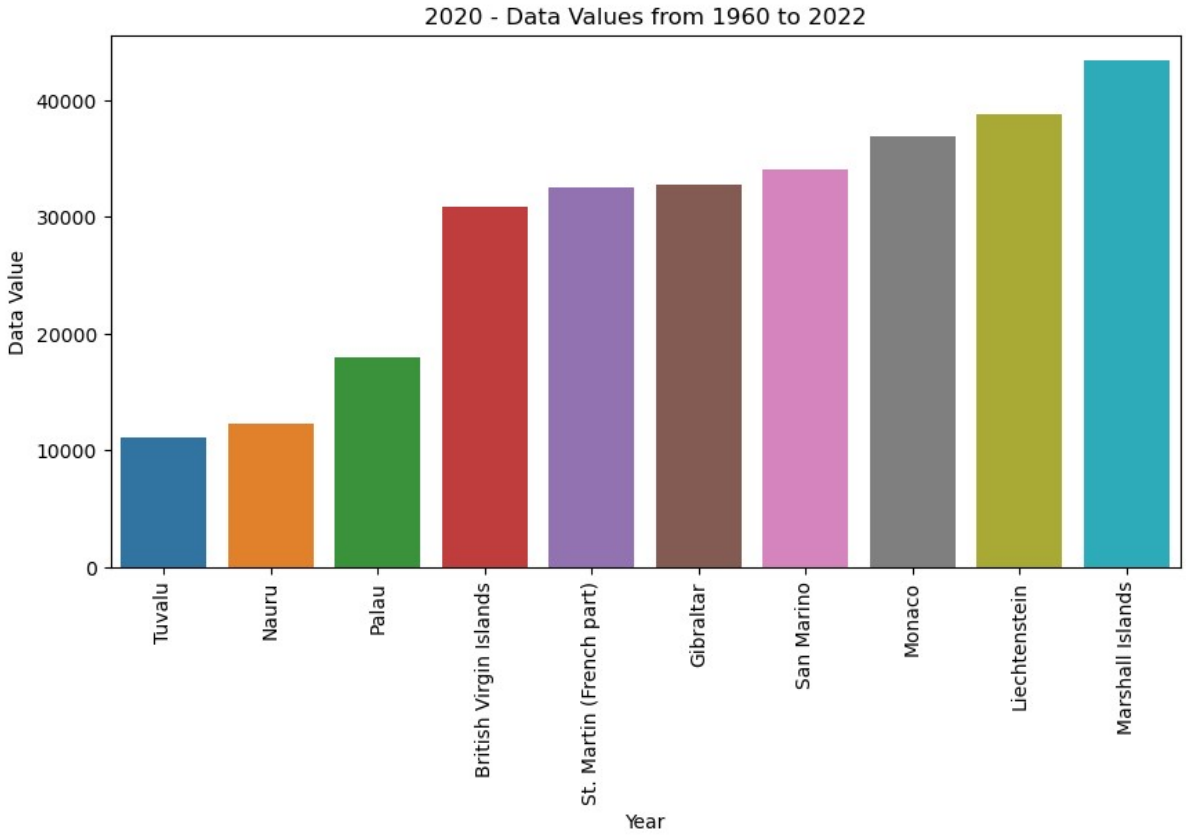
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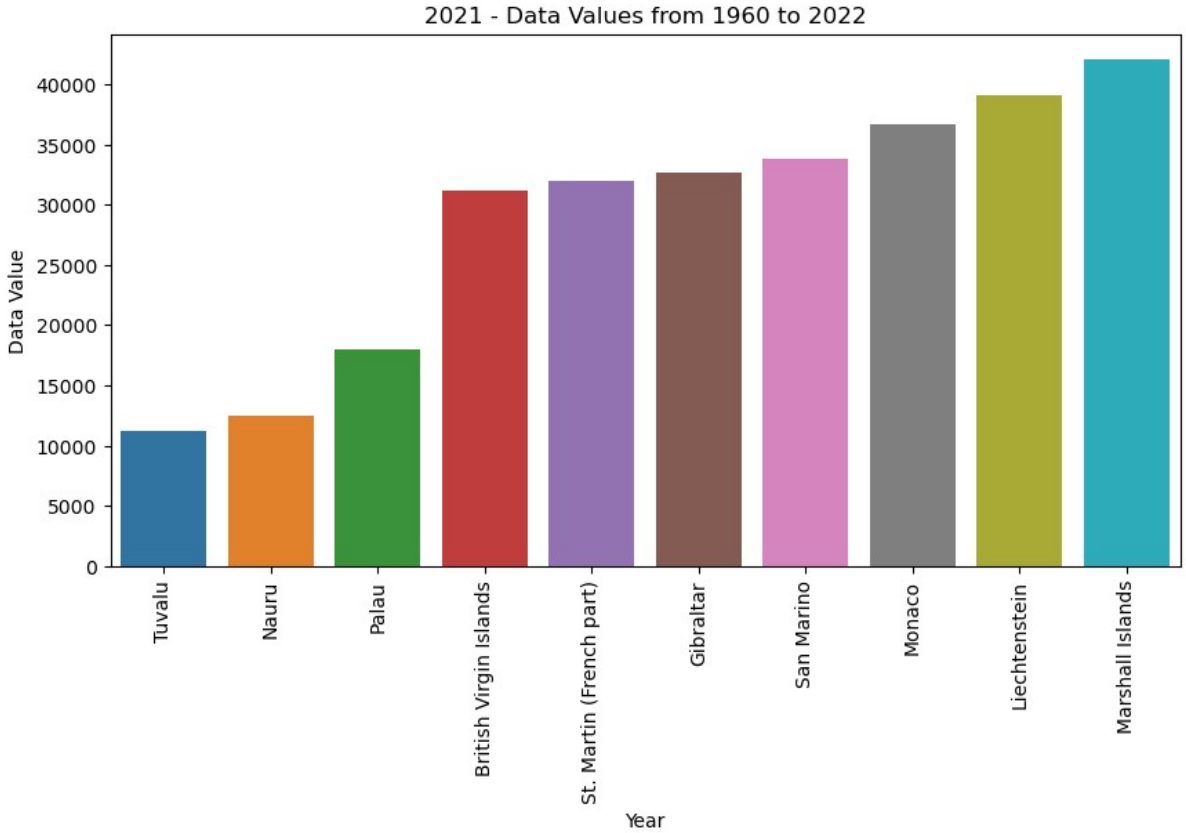
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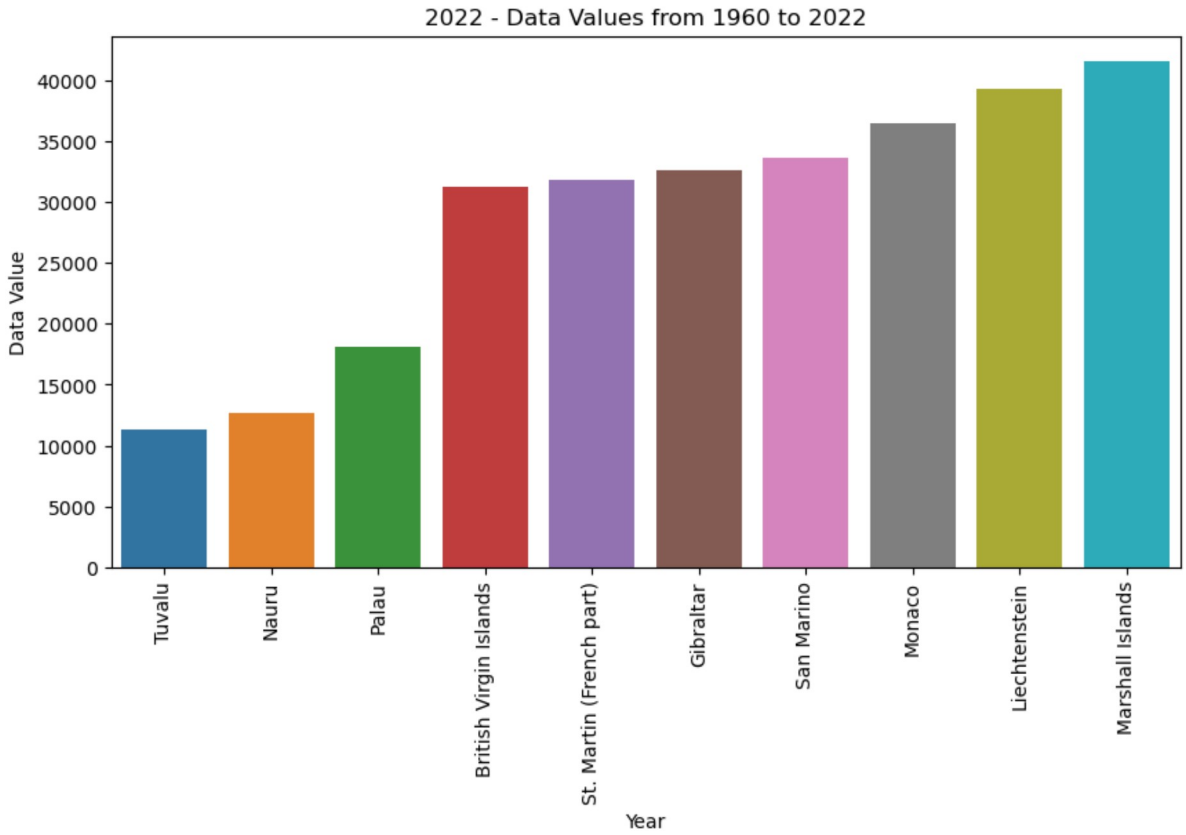
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