```
In [14]: import pandas as pd

         try:
             # Load the dataset
             df = pd.read_csv(r'C:\Users\Marwa\Desktop\6b93ab97-805e-4bff-ab35-487a6e9639a5_Series - Metadata.csv'
             
             # Display the first few rows of the dataframe
             print(df.head())
         except FileNotFoundError:
             print("The file was not found. Please check the file path.")
         except pd.errors.ParserError:
             print("There was an issue parsing the file. It might not be a valid CSV.")
         except Exception as e:
             print(f"An error occurred: {e}")
```

```
    Population, total  SP.POP.TOTL       American Samoa  ASM     47818  \
0   Population, total  SP.POP.TOTL               Andorra  AND     53569
1   Population, total  SP.POP.TOTL                Angola  AGO  11828638
2   Population, total  SP.POP.TOTL  Antigua and Barbuda  ATG     63328
3   Population, total  SP.POP.TOTL             Argentina  ARG  32637657
4   Population, total  SP.POP.TOTL               Armenia  ARM   3556539

       58230     52217     51368     50448     49463     48424     47321  \
0      66097     71621     71746     72540     73837     75013     76343
1   16394062  27128337  28127721  29154746  30208628  31273533  32353588
2      75055     89236     89941     90564     91119     91626     92117
3   37070774  42669500  43131966  43590368  44044811  44494502  44938712
4    3168523   2889930   2878595   2865835   2851923   2836557   2820602

       46189     45035     44273     43914
0      77700     79034     79824     80088
1   33428486  34503774  35588987  36684202
2      92664     93219     93763     94298
3   45376763  45808747  46234830  46654581
4    2805608   2790974   2780469   2777970
```

```python
In [18]: import matplotlib.pyplot as plt

         # Plot histogram
         plt.figure(figsize=(12, 6))
         plt.hist(df_year['Population'], bins=40, color='skyblue', edgecolor='black')
         plt.title(f'Distribution of Population Sizes in {year}')
         plt.xlabel('Population Size')
         plt.ylabel('Frequency')
         plt.grid(True)
         plt.show()
```
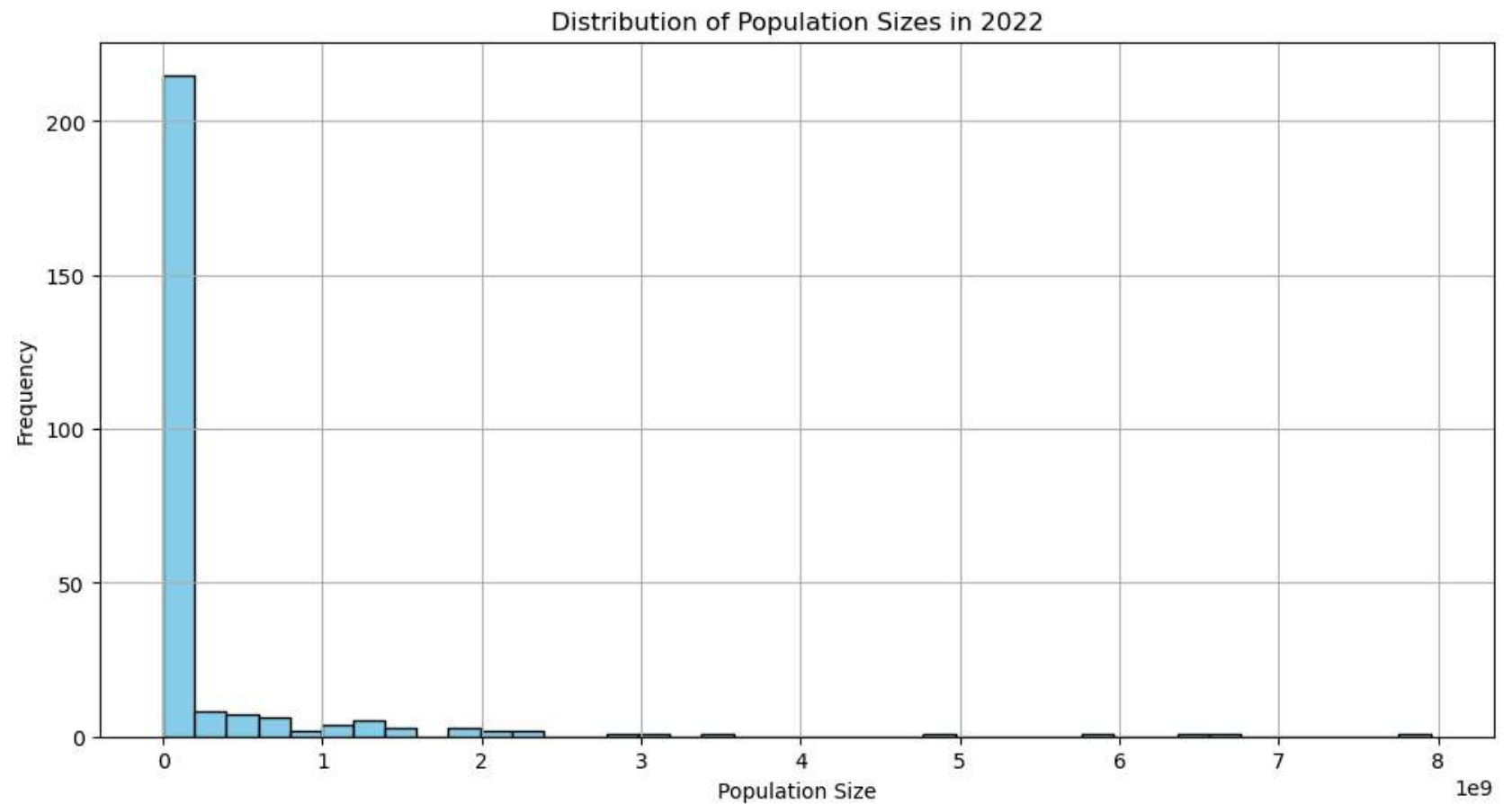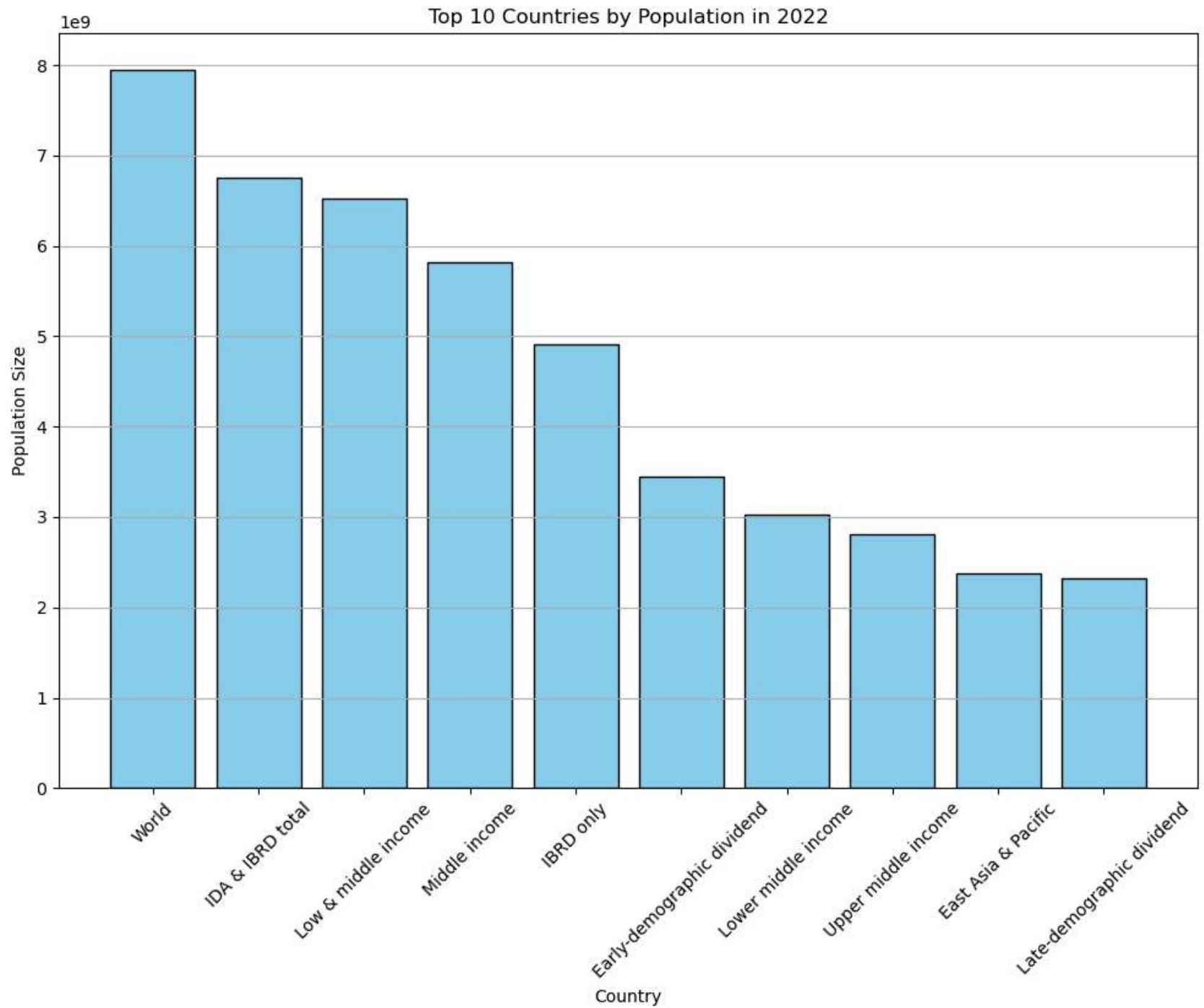
Distribution of Population Sizes in 2022

```
In [13]:  # Select the top 10 countries by population for a bar chart
          top_countries = df_year.nlargest(10, 'Population')

          # Plot bar chart
          plt.figure(figsize=(12, 8))
          plt.bar(top_countries['Country'], top_countries['Population'], color='skyblue', edgecolor='black')
          plt.title(f'Top 10 Countries by Population in {year}')
          plt.xlabel('Country')
          plt.ylabel('Population Size')
          plt.xticks(rotation=45)
          plt.grid(axis='y')
          plt.show()
```

Top 10 Countries by Population in 2022

In [ ]: