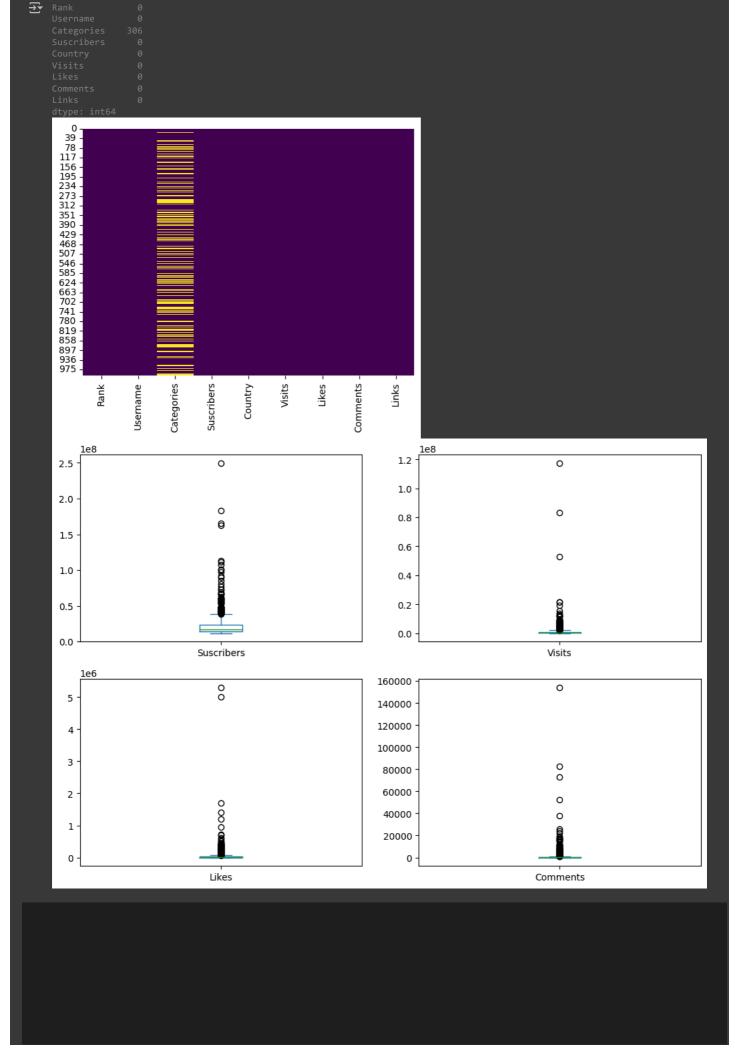
```
1 from google.colab import files
 2 import pandas as pd
 4 # Upload the CSV file
 5 uploaded = files.upload()
     Choose Files youtubers_df.csv
       youtubers_df.csv(text/csv) - 125368 bytes, last modified: 8/24/2024 - 100% done
    4
 1 df = pd.read_csv('youtubers_df.csv')
 2 df
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 Next steps:
              Generate code with df
                                                                      New interactive sheet
 1 df.info()
     RangeIndex: 1000 entries, 0 to 999
     # Column
                      Non-Null Count Dtype
                       1000 non-null
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          Username
                       1000 non-null
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          Categories 694 non-null
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          Suscribers 1000 non-null
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          Visits
                       1000 non-null
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          Likes
                       1000 non-null
                                        float64
          Comments
                       1000 non-null
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                       1000 non-null
     dtypes: float64(4), int64(1), object(4)
     memory usage: 70.4+ KB
 1 import matplotlib.pyplot as plt
 3 # Check for missing data
 4 print(df.isnull().sum())
 6 # Visualize missing data
 7 import seaborn as sns
 8
 9 sns.heatmap(df.isnull(), cbar=False, cmap='viridis')
10 plt.show()
12 # Check for outliers using boxplots
13 df[['Suscribers', 'Visits', 'Likes', 'Comments']].plot(kind='box', subplots=True, layout=(2, 2), figsize=(12, 8))
14 plt.show()
```

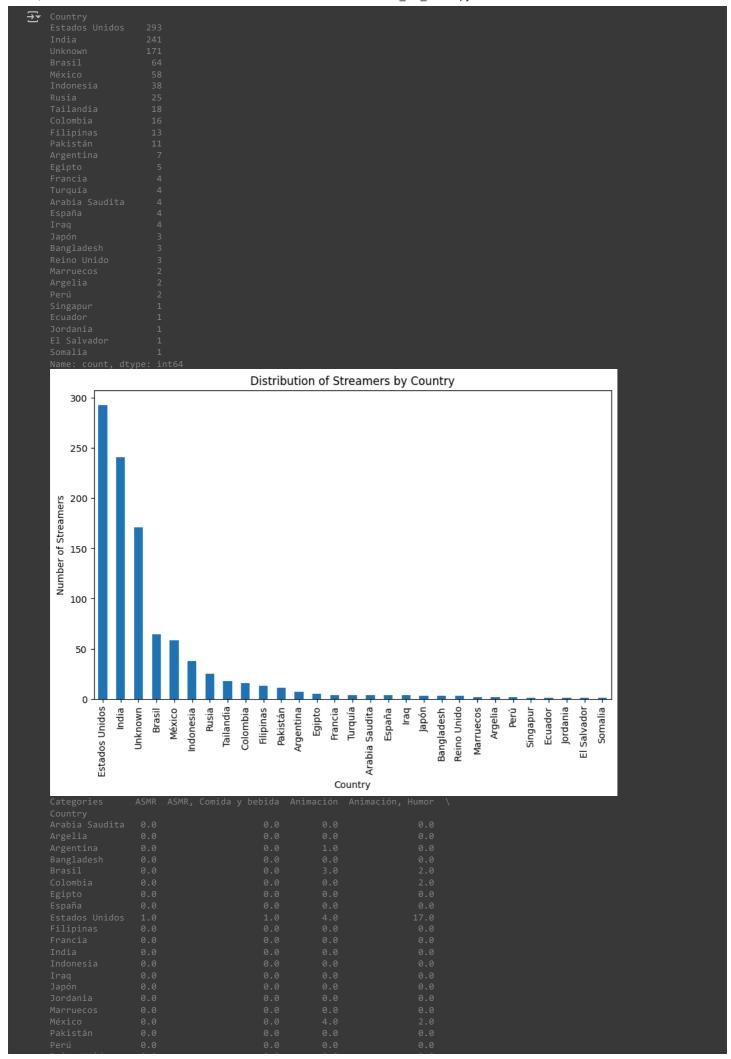


```
1 # Popular categories
 2 popular_categories = df['Categories'].value_counts()
3 print(popular_categories)
{\bf 5} # Correlation between subscribers, likes, and comments
6 correlation_matrix = df[['Suscribers', 'Likes', 'Comments']].corr()
7 print(correlation_matrix)
9 # Visualize correlation using a heatmap
10 sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm')
11 plt.show()

    Categories

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              Suscribers
                                  Likes
                                                  Comments
```

```
1 # Distribution by Country
 2 country_distribution = df['Country'].value_counts()
3 print(country_distribution)
5 # Plot the distribution of streamers by country
6 country_distribution.plot(kind='bar', figsize=(10, 6))
7 plt.title('Distribution of Streamers by Country')
8 plt.xlabel('Country')
9 plt.ylabel('Number of Streamers')
10 plt.show()
12 # Country and Category Preferences
13\ country\_category\_preferences\ =\ df.groupby(['Country',\ 'Categories']).size().unstack().fillna(0)
14 print(country_category_preferences)
16 # Visualize country and category preferences
17 country_category_preferences.plot(kind='bar', stacked=True, figsize=(12, 8))
18 plt.title('Country Preferences for Content Categories')
19 plt.xlabel('Country')
20 plt.ylabel('Number of Streamers')
21 plt.show()
```



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