```
In [1]: import pandas as pd
        import matplotlib.pyplot as plt
        import seaborn as sns
        df = pd.read_csv('netflix_titles.csv')
        print(df.head())
        print(df.info())
        df['date_added'] = df['date_added'].str.strip()
        df['date_added'] = pd.to_datetime(df['date_added'])
        df['rating'].fillna('Not Rated', inplace=True)
        print(df.isnull().sum())
        # 5. Exploratory Data Analysis (EDA)
        # a) Count of Movies vs TV Shows
        plt.figure(figsize=(6,4))
        sns.countplot(x='type', data=df)
        plt.title('Count of Movies vs TV Shows')
        plt.show()
        # b) Top 10 Countries Producing Netflix Content
        top_countries = df['country'].value_counts().head(10)
        plt.figure(figsize=(10,5))
        sns.barplot(x=top_countries.index, y=top_countries.values)
        plt.xticks(rotation=45)
        plt.title('Top 10 Countries Producing Netflix Content')
        plt.ylabel('Number of Titles')
        plt.show()
        # c) Number of Releases by Year
        df['release_year'].value_counts().sort_index().plot(kind='line', figsize=(10,5))
        plt.title('Number of Releases Over Time')
        plt.xlabel('Year')
        plt.ylabel('Number of Titles')
        plt.show()
        # 6. Final Insights
        print("""

    Netflix focuses more on Movies than TV Shows.

    US and India are major contributors to Netflix's content library.

    The number of new titles has grown steadily over time, peaking in recent years.

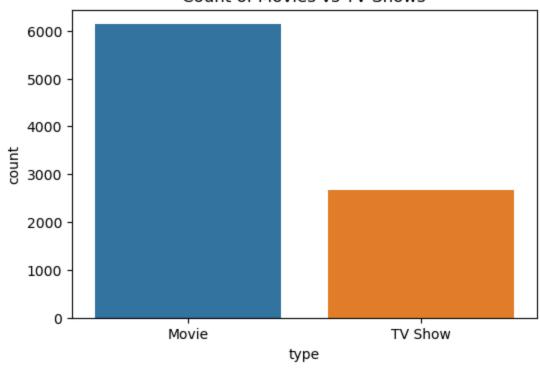
        """)
```

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```
show_id
             type
                                   title
                                                 director \
      s1
            Movie
                    Dick Johnson Is Dead Kirsten Johnson
      s2 TV Show
                           Blood & Water
1
2
      s3
          TV Show
                               Ganglands Julien Leclercq
3
      s4 TV Show
                   Jailbirds New Orleans
                                                      NaN
4
      s5 TV Show
                            Kota Factory
                                                      NaN
                                               cast
                                                           country \
                                                NaN United States
0
1 Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...
                                                      South Africa
2 Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...
                                                               NaN
3
                                                               NaN
4 Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...
                                                             India
          date added release year rating
                                            duration \
0 September 25, 2021
                              2020 PG-13
                                              90 min
1 September 24, 2021
                              2021 TV-MA 2 Seasons
                              2021 TV-MA
2 September 24, 2021
                                            1 Season
3 September 24, 2021
                              2021 TV-MA
                                            1 Season
4 September 24, 2021
                              2021 TV-MA 2 Seasons
                                          listed in \
0
                                      Documentaries
    International TV Shows, TV Dramas, TV Mysteries
1
2 Crime TV Shows, International TV Shows, TV Act...
3
                             Docuseries, Reality TV
4 International TV Shows, Romantic TV Shows, TV ...
                                        description
0 As her father nears the end of his life, filmm...
1 After crossing paths at a party, a Cape Town t...
2 To protect his family from a powerful drug lor...
3 Feuds, flirtations and toilet talk go down amo...
4 In a city of coaching centers known to train I...
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8807 entries, 0 to 8806
Data columns (total 12 columns):
#
    Column
                  Non-Null Count Dtype
___
    -----
                  -----
                                 ----
0
    show_id
                  8807 non-null
                                  object
1
    type
                  8807 non-null
                                  object
 2
    title
                  8807 non-null
                                  object
 3
    director
                  6173 non-null
                                  object
 4
                  7982 non-null
                                  object
    cast
 5
    country
                  7976 non-null
                                  object
    date_added
                  8797 non-null
 6
                                  object
 7
    release year 8807 non-null
                                  int64
    rating
                  8803 non-null
                                  object
    duration
 9
                  8804 non-null
                                  object
 10 listed in
                  8807 non-null
                                  object
 11 description
                  8807 non-null
                                  object
dtypes: int64(1), object(11)
memory usage: 825.8+ KB
None
show id
                  0
type
```

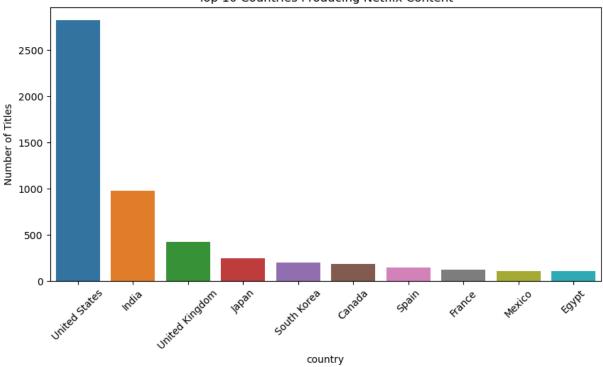
title	0
director	2634
cast	825
country	831
date_added	10
release_year	0
rating	0
duration	3
listed_in	0
description	0
dtype: int64	

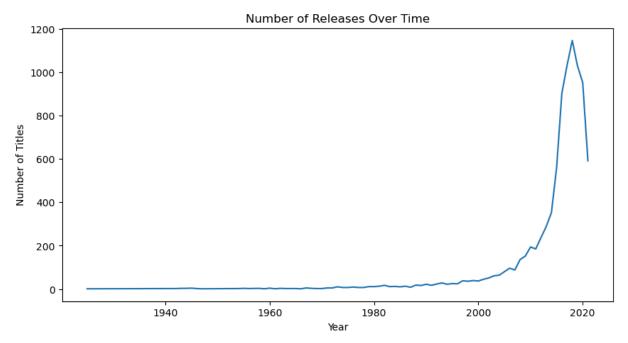
Count of Movies vs TV Shows



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- US and India are major contributors to Netflix's content library.
- The number of new titles has grown steadily over time, peaking in recent years.

In []: