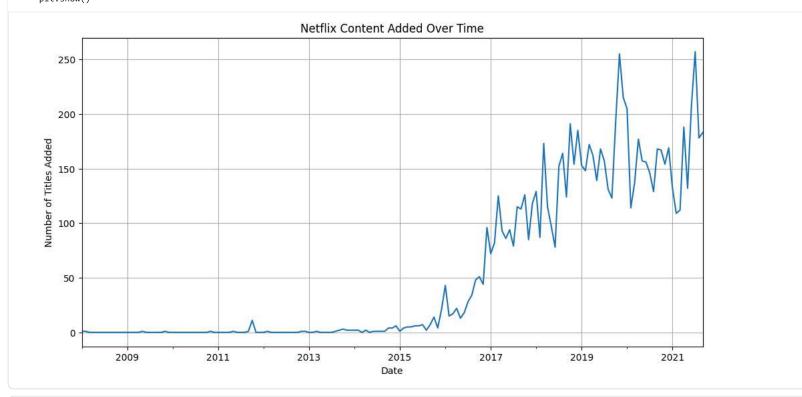
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
# Load Netflix dataset
df = pd.read_csv("netflix_titles.csv")
# Basic info
print(df.info())
# First few rows
print(df.head())
# Description of object and date columns
print(df.describe(include="all"))
<class '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
    type
                 8807 non-null
                                object
1
                 8807 non-null
    title
                                object
    director
                 6173 non-null
                                object
                 7982 non-null
 4 cast
                                object
 5
    country
                 7976 non-null
                                object
    date_added
                 8797 non-null
                                object
 7
    release_year 8807 non-null
                                int64
                 8803 non-null
 8 rating
                                obiect
                 8804 non-null
 9 duration
                                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
                                 title
                                               director \
            type
      s1 Movie Dick Johnson Is Dead Kirsten Johnson
      s2 TV Show
                          Blood & Water
      s3 TV Show
                              Ganglands Julien Leclercq
      s4 TV Show Jailbirds New Orleans
3
                                                   NaN
      s5 TV Show
                                                   NaN
                           Kota Factory
                                             cast
                                                        country \
                                             NaN United States
1 Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...
                                                   South Africa
2 Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...
                                                            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
2 September 24, 2021
                            2021 TV-MA 1 Season
3 September 24, 2021
                            2021 TV-MA 1 Season
4 September 24, 2021
                            2021 TV-MA 2 Seasons
                                        listed in \
                                    Documentaries
    International TV Shows, TV Dramas, TV Mysteries
2 Crime TV Shows, International TV Shows, TV Act...
                            Docuseries, Reality TV
```

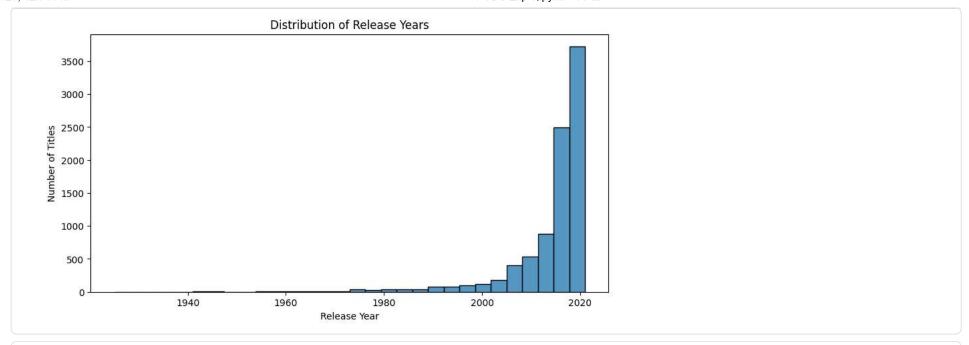
```
4 International TV Shows, Romantic TV Shows, TV ...
                                        description
0 As her father nears the end of his life, filmm...
1 After crossing paths at a party, a Cape Town t...
2 To protect his family from a powerful drug lor...
3 Feuds, flirtations and toilet talk go down amo...
4 In a city of coaching centers known to train I...
       show_id type title
                                   director
                                                           cast \
count
         8807
                8807
                        8807
                                       6173
                                                           7982
unique 8807
                   2 8807
                                       4528
                                                           7692
top
        s8807 Movie Zubaan Rajiv Chilaka David Attenborough
# Unique values
print("Number of unique countries:", df["country"].nunique())
print("Number of unique directors:", df["director"].nunique())
# Content counts by type (Movie/TV Show)
print(df["type"].value counts())
# Count of content per year
print(df["release_year"].value_counts().head())
# Grouped by country and type
print(df.groupby(["country", "type"]).size().sort_values(ascending=False).head(10))
# Convert date_added to datetime
df["date_added"] = pd.to_datetime(df["date_added"], format="mixed", errors="coerce")
# Set index to date_added
df.set_index("date_added", inplace=True)
# Monthly content additions
monthly content = df.resample("M").size()
Number of unique countries: 748
Number of unique directors: 4528
type
           6131
Movie
TV Show
          2676
Name: count, dtype: int64
release_year
2018
      1147
2017
       1032
       1030
2019
2020
        953
2016
        902
Name: count, dtype: int64
country
                type
United States
                          2058
               Movie
                           893
India
               Movie
United States
               TV Show
                           760
United Kingdom TV Show
                           213
                           206
               Movie
Japan
               TV Show
                           169
South Korea
               TV Show
                           158
                           122
Canada
               Movie
                            97
Spain
               Movie
Egypt
               Movie
                            92
dtype: int64
/tmp/ipython-input-1638353343.py:15: FutureWarning: 'M' is deprecated and will be removed in a future version, please use 'ME' instead.
 monthly_content = df.resample("M").size()
```

```
# Plotting
plt.figure(figsize=(12,6))
monthly_content.plot()
plt.title("Netflix Content Added Over Time")
```

```
plt.xlabel("Date")
plt.ylabel("Number of Titles Added")
plt.grid(True)
plt.show()
```



```
# Distribution of release years
plt.figure(figsize=(10,5))
sns.histplot(df["release_year"], bins=30, kde=False)
plt.title("Distribution of Release Years")
plt.xlabel("Release Year")
plt.ylabel("Number of Titles")
plt.show()
```



```
# Content Type Count
sns.countplot(data=df, x="type", palette="Set2")
plt.title("Count of Movies and TV Shows")
plt.show()
```

/tmp/ipython-input-1908447077.py:2: FutureWarning: Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect. sns.countplot(data=df, x="type", palette="Set2") Count of Movies and TV Shows 6000 5000 4000 3000 2000 1000 TV Show

```
# Top 10 countries with most content
top_countries = df["country"].value_counts().head(10)
top_countries.plot(kind="bar", color="skyblue")
plt.title("Top 10 Countries by Number of Titles")
plt.ylabel("Count")
plt.xticks(rotation=45)
plt.show()
```

Movie

type

