



NETFLIX Dataset Exploratory Data Analysis (EDA)

Dataset:<https://www.kaggle.com/datasets/shivamb/netflix-shows>

Lijesh T K

1.Import the libraries

```
In [3]: import pandas as pd  
import numpy as np  
import matplotlib.pyplot as plt  
import seaborn as sns
```

2.Load the Dataset

```
In [6]: df=pd.read_csv("netflix_titles.csv")  
df
```

Out[6]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train l...
...
8802	s8803	Movie	Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	158 min	Cult Movies, Dramas, Thrillers	A political cartoonist, a crime reporter and a...
8803	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	July 1, 2019	2018	TV-Y7	2 Seasons	Kids' TV, Korean TV	While living alone in a spooky

show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description	
										Shows, TV Comedies	town, a young g...	
8804	s8805	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	2009	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...
8805	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chan...	India	March 2, 2019	2015	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

8807 rows × 12 columns

3.Data Exploration

```
In [19]: #Shape of dataset
df.shape
```

```
Out[19]: (8807, 12)
```

```
In [7]: df.head()
```

Out[7]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train I...

In [20]: `#data types`
`df.info()`

```
<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   cast         7982 non-null   object 
 5   country     7976 non-null   object 
 6   date_added  8797 non-null   object 
 7   release_year 8807 non-null   int64  
 8   rating      8803 non-null   object 
 9   duration    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
```

```
In [22]: #check for unique values
df.nunique()
```

```
Out[22]: show_id      8807
type        2
title       8807
director    4528
cast         7692
country     748
date_added  1767
release_year 74
rating      17
duration    220
listed_in   514
description  8775
dtype: int64
```

```
In [23]: #check for duplicates
df[df.duplicated()]
```

```
Out[23]: show_id  type  title  director  cast  country  date_added  release_year  rating  duration  listed_in  description
```

```
In [24]: # check for null values
df.isnull().sum()
```

```
Out[24]:
```

show_id	0
type	0
title	0
director	2634
cast	825
country	831
date_added	10
release_year	0
rating	4
duration	3
listed_in	0
description	0
dtype:	int64

```
In [28]: # treat the null values by most appropriate way,  
df['director'].fillna("Unknown_Value", inplace=True)  
df['cast'].fillna("Unknown_Value", inplace=True)  
df['country'].fillna("Unknown_Value", inplace=True)
```

```
In [36]: df.dropna(subset=['date_added'], inplace=True)  
df.dropna(subset=['rating'], inplace=True)  
df.dropna(subset=['duration'], inplace=True)
```

```
In [37]: df.isna().sum()
```

```
Out[37]:
```

show_id	0
type	0
title	0
director	0
cast	0
country	0
date_added	0
release_year	0
rating	0
duration	0
listed_in	0
description	0
dtype:	int64

```
In [60]: df['type'].unique()
```

```
Out[60]: array(['Movie', 'TV Show'], dtype=object)
```

```
In [61]: df['title'].unique()
```

```
Out[61]: array(['Dick Johnson Is Dead', 'Blood & Water', 'Ganglands', ...,
   .... 'Zombieland', 'Zoom', 'Zubaan'], dtype=object)
```

```
In [62]: df['director'].unique()
```

```
Out[62]: array(['Kirsten Johnson', 'Unknown_Value', 'Julien Leclercq', ...,
   .... 'Majid Al Ansari', 'Peter Hewitt', 'Mozez Singh'], dtype=object)
```

```
In [63]: df['cast'].unique()
```

```
Out[63]: array(['Unknown_Value',
   .... 'Ama Qamata, Khosi Ngema, Gail Mabalane, Thabang Molaba, Dillon Windvogel, Natasha Thahane, Arno Greeff, Xolile Ts
habalala, Getmore Sithole, Cindy Mahlangu, Ryle De Morny, Greteli Fincham, Sello Maake Ka-Ncube, Odwa Gwanya, Mekaila Mat
hys, Sandi Schultz, Duane Williams, Shamilla Miller, Patrick Mofokeng',
   .... 'Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabiha Akkari, Sofia Lesaffre, Salim Kechiouche, Noureddine Farihi, Gee
rt Van Rampelberg, Bakary Diombera',
   .... '',
   .... 'Jesse Eisenberg, Woody Harrelson, Emma Stone, Abigail Breslin, Amber Heard, Bill Murray, Derek Graf',
   .... 'Tim Allen, Courteney Cox, Chevy Chase, Kate Mara, Ryan Newman, Michael Cassidy, Spencer Breslin, Rip Torn, Kevin
Zegers',
   .... 'Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanana, Manish Chaudhary, Meghna Malik, Malkeet Rauni, Anita Shabdish, C
hittaranjan Tripathy'],
   .... dtype=object)
```

```
In [68]: df['country'].unique()
```

```
Out[68]: array(['United States', 'South Africa', 'Unknown_Value', 'India',
       'United States, Ghana, Burkina Faso, United Kingdom, Germany, Ethiopia',
       'United Kingdom', 'Germany, Czech Republic', 'Mexico', 'Turkey',
       'Australia', 'United States, India, France', 'Finland',
       'China, Canada, United States',
       'South Africa, United States, Japan', 'Nigeria', 'Japan',
       'Spain, United States', 'France', 'Belgium',
       'United Kingdom, United States', 'United States, United Kingdom',
       'France, United States', 'South Korea', 'Spain',
       'United States, Singapore', 'United Kingdom, Australia, France',
       'United Kingdom, Australia, France, United States',
       'United States, Canada', 'Germany, United States',
       'South Africa, United States', 'United States, Mexico',
       'United States, Italy, France, Japan',
       'United States, Italy, Romania, United Kingdom',
       'Australia, United States', 'Argentina, Venezuela',
       'United States, United Kingdom, Canada', 'China, Hong Kong',
       'Russia', 'Canada', 'Hong Kong', 'United States, China, Hong Kong',
       'Italy, United States', 'United States, Germany',
       'United Kingdom, Canada, United States', ', South Korea',
       'Ireland', 'India, Nepal',
       'New Zealand, Australia, France, United States', 'Italy',
       'Italy, Brazil, Greece', 'Argentina', 'Jordan', 'Colombia',
       'United States, Japan', 'Belgium, United Kingdom',
       'Switzerland, United Kingdom, Australia', 'Israel, United States',
       'Canada, United States', 'Brazil', 'Argentina, Spain', 'Taiwan',
       'United States, Nigeria', 'Bulgaria, United States',
       'Spain, United Kingdom, United States', 'United States, China',
       'United States, France',
       'Spain, France, United Kingdom, United States',
       ', France, Algeria', 'Poland', 'Germany',
       'France, Israel, Germany, United States, United Kingdom',
       'New Zealand', 'Saudi Arabia', 'Thailand', 'Indonesia',
       'Egypt, Denmark, Germany', 'United States, Switzerland',
       'Hong Kong, Canada, United States', 'Kuwait, United States',
       'France, Canada, United States, Spain',
       'France, Netherlands, Singapore', 'France, Belgium',
       'Ireland, United States, United Kingdom', 'Egypt', 'Malaysia',
       'Israel', 'Australia, New Zealand', 'United Kingdom, Germany',
       'Belgium, Netherlands', 'South Korea, Czech Republic',
       'Australia, Germany', 'Vietnam', 'United Kingdom, Belgium',
       'United Kingdom, Australia, United States',
       'France, Japan, United States',
       'United Kingdom, Germany, Spain, United States',
       'United Kingdom, United States, France, Italy'],
```

'United States, Germany, Canada',
'United States, France, Italy, United Kingdom',
'United States, United Kingdom, Germany, Hungary',
'United States, New Zealand', 'Sweden', 'China', 'Lebanon',
'Romania', 'Finland, Germany', 'Lebanon, Syria', 'Philippines',
'Iceland', 'Denmark', 'United States, India',
'Philippines, Singapore, Indonesia',
'China, United States, Canada', 'Lebanon, United Arab Emirates',
'Canada, United States, Denmark', 'United Arab Emirates',
'Mexico, France, Colombia', 'Netherlands',
'Germany, United States, France', 'United States, Bulgaria',
'United Kingdom, France, Germany, United States',
'Norway, Denmark', 'Syria, France, Lebanon, Qatar',
'United States, Czech Republic', 'Mauritius',
'Canada, South Africa', 'Austria', 'Mexico, Brazil',
'Germany, France', 'Mexico, United States',
'United Kingdom, France, Spain, United States',
'United States, Australia',
'United States, United Kingdom, France', 'United States, Russia',
'United States, United Kingdom, New Zealand',
'Australia, United Kingdom', 'Canada, Nigeria, United States',
'France, United States, United Kingdom, Canada',
'France, United Kingdom', 'India, United Kingdom',
'Canada, United States, Mexico',
'United Kingdom, Germany, United States',
'Czech Republic, United Kingdom, United States',
'China, United Kingdom', 'Italy, United Kingdom', 'China, Taiwan',
'United States, Brazil, Japan, Spain, India',
'United States, China, United Kingdom', 'Cameroon',
'Lebanon, Palestine, Denmark, Qatar', 'Japan, United States',
'Uruguay, Germany', 'Egypt, Saudi Arabia',
'United Kingdom, France, Poland, Germany, United States',
'Ireland, Switzerland, United Kingdom, France, United States',
'United Kingdom, South Africa, France',
'Ireland, United Kingdom, France, Germany',
'Russia, United States', 'United Kingdom, United States, France',
'United Kingdom, ', 'United States, India, United Kingdom', 'Kenya',
'Spain, Argentina', 'India, United Kingdom, France, Qatar',
'Belgium, France', 'Argentina, Chile', 'United States, Thailand',
'Chile, Brazil', 'United States, Colombia',
'Canada, United States, United Kingdom', 'Uruguay', 'Luxembourg',
'United States, Cambodia, Romania', 'Bangladesh',
'Spain, Belgium, United States',
'United Kingdom, United States, Australia',
'Canada, United States, France', 'Portugal, United States',

'Portugal, Spain', 'India, United States',
'United Kingdom, Ireland', 'United Kingdom, Spain, United States',
'Hungary, United States', 'United States, South Korea',
'Canada, United States, Cayman Islands', 'India, France',
'France, Canada', 'Canada, Hungary, United States', 'Norway',
'Canada, United Kingdom, United States',
'United Kingdom, Germany, France, United States',
'Denmark, United States', 'Senegal', 'France, Algeria',
'United Kingdom, Finland, Germany, United States, Australia, Japan, France, Ireland',
'Philippines, Canada, United Kingdom, United States',
'Ireland, France, Iceland, United States, Mexico, Belgium, United Kingdom, Hong Kong',
'Singapore', 'Kuwait', 'United States, France, Serbia',
'United States, Italy', 'Spain, Italy',
'United States, Ireland, United Kingdom, India',
'United Kingdom, Singapore', 'Hong Kong, United States',
'United States, Malta, France, United Kingdom',
'United States, China, Canada', 'Canada, United States, Ireland',
'Lebanon, Canada, France', 'Japan, Canada, United States',
'Spain, France, Canada',
'Denmark, Singapore, Canada, United States',
'United States, France, Denmark', 'United States, China, Colombia',
'Spain, Thailand, United States', 'Mexico, Spain',
'Ireland, Luxembourg, Belgium', 'China, United States',
'Canada, Belgium', 'Canada, United Kingdom',
'Lebanon, United Arab Emirates, France, Switzerland, Germany',
'France, Belgium, Italy',
'Lebanon, United States, United Arab Emirates', 'Lebanon, France',
'France, Lebanon', 'France, Lebanon, United Kingdom',
'France, Norway, Lebanon, Belgium',
'Sweden, Czech Republic, United Kingdom, Denmark, Netherlands',
'United States, United Kingdom, India', 'Indonesia, Netherlands',
'Turkey, South Korea', 'Serbia, United States', 'Namibia',
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'United States, France, Canada, Belgium', 'United Kingdom, China',
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'Peru, Germany, Norway', 'Mozambique', 'Brazil, France',
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'Hong Kong, China', 'France, Belgium, Luxembourg, Cambodia',
'United Kingdom, Australia', 'Belarus',
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'Poland, United States',
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'United States, Mexico, Spain, Malta',
'Saudi Arabia, United Arab Emirates', 'Zimbabwe',
'United Kingdom, Germany, United Arab Emirates, New Zealand',
'Romania, United States', 'Canada, Nigeria',
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'United Kingdom, Spain', 'Finland, France',
'United Kingdom, Germany, United States, France',
'India, United Kingdom, China, Canada, Japan, South Korea, United States',
'Italy, United Kingdom, France', 'United States, Mexico, Colombia',
'Turkey, India', 'Italy, Turkey',
'United Kingdom, United States, Japan',
'France, Belgium, United States',
'Puerto Rico, United States, Colombia', 'Uruguay, Argentina',
'United States, United Kingdom, Japan', 'United States, Argentina',
'United Kingdom, Italy', 'Ireland, United Kingdom',
'United Kingdom, France, Belgium, Canada, United States',
'Netherlands, Germany, Denmark, United Kingdom', 'Hungary',
'Austria, Germany', 'Taiwan, China',
'United Kingdom, United States, Ireland',
'South Korea, United States', 'Brazil, United Kingdom',
'Pakistan, United States', 'Romania, France, Switzerland, Germany',
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'United Kingdom, France, Belgium, Ireland, United States',
'United States, Norway, Canada', 'Kenya, United States',
'France, South Korea, Japan, United States', 'Taiwan, Malaysia',
'Uruguay, Argentina, Germany, Spain',
'United States, United Kingdom, France, Germany, Japan',
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'Spain, Germany, Denmark, United States', 'Norway, Sweden',

'South Korea, Canada, United States, China',
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'United Kingdom, United States, Germany, Denmark, Belgium, Japan',
'India, Germany', 'India, United Kingdom, Canada, United States',
'Philippines, United States', 'Romania, Bulgaria, Hungary',
'Uruguay, Guatemala', 'France, Senegal, Belgium',
'United Kingdom, Canada', 'Mexico, United States, Spain, Colombia',
'Canada, Norway', 'Singapore, United States',
'Finland, Germany, Belgium', 'United Kingdom, France',
'United States, Chile', 'United Kingdom, Japan, United States',
'Spain, United Kingdom', 'Argentina, United States, Mexico',
'United States, South Korea, Japan', 'Canada, Australia',
'United Kingdom, Hungary, Australia', 'Italy, Belgium',
'United States, United Kingdom, Germany', 'Switzerland',
'Singapore, Malaysia',
'France, Belgium, Luxembourg, Romania, Canada, United States',
'South Africa, Nigeria', 'Spain, France',
'United Kingdom, Hong Kong', 'Pakistan', 'Brazil, United States',
'Denmark, Brazil, France, Portugal, Sweden', 'India, Turkey',
'Malaysia, Singapore, Hong Kong', 'Philippines, Singapore',
'Australia, Canada', 'Taiwan, China, France, United States',
'Germany, Italy', 'Colombia, Peru, United Kingdom',
'Thailand, China, United States', 'Argentina, United States',
'Sweden, United States', 'Uruguay, Spain, Mexico',
'France, Luxembourg, Canada', 'Denmark, Spain', 'Chile, Argentina',
'United Kingdom, Belgium, Sweden', 'Canada, Brazil',
'Italy, France', 'Canada, Germany',
'Pakistan, United Arab Emirates', 'Ghana, United States',
'Mexico, Finland', 'United Arab Emirates, United Kingdom, India',
'Netherlands, Belgium', 'United States, Taiwan',
'Austria, Iraq, United States', 'United Kingdom, Malawi',
'Paraguay, Argentina', 'United Kingdom, Russia, United States',
'India, Pakistan', 'Indonesia, Singapore', 'Spain, Belgium',
'Iceland, Sweden, Belgium', 'Croatia', 'Uruguay, Argentina, Spain',
'United Kingdom, Ireland, United States',
'Canada, Germany, France, United States', 'United Kingdom, Japan',
'Norway, Denmark, Netherlands, Sweden',
'Hong Kong, China, United States', 'Ireland, Canada',
'Italy, Switzerland, France, Germany', 'Mexico, Netherlands',
'United States, Sweden', 'Germany, France, Russia',
'France, Iran, United States', 'United Kingdom, India',
'Russia, Poland, Serbia', 'Spain, Portugal', 'Peru',
'Mexico, Argentina',
'United Kingdom, Canada, United States, Cayman Islands',

'Indonesia, United States',
'United States, Israel, United Kingdom, Canada',
'Norway, Iceland, United States', 'Czech Republic, United States',
'United Kingdom, India, United States',
'United Kingdom, West Germany', 'India, Australia',
'United States', 'Belgium, United Kingdom, United States',
'India, Germany, Austria',
'United States, Brazil, South Korea, Mexico, Japan, Germany',
'Spain, Mexico', 'China, Japan', 'Argentina, France',
'China, United States, United Kingdom',
'France, Luxembourg, United States',
'China, United States, Australia', 'Colombia, Mexico',
'United States, Canada, Ireland', 'Chile, Peru',
'Argentina, Italy', 'Canada, Japan, United States',
'United Kingdom, Canada, United States, Germany',
'Italy, Switzerland, Albania, Poland',
'United States, Japan, Canada', 'Cambodia',
'Italy, United States, Argentina',
'Saudi Arabia, Syria, Egypt, Lebanon, Kuwait',
'United States, Canada, Indonesia, United Kingdom, China, Singapore',
'Spain, Colombia',
'United Kingdom, South Africa, Australia, United States',
'Bulgaria', 'Argentina, Brazil, France, Poland, Germany, Denmark',
'United Kingdom, Spain, United States, Germany',
'Philippines, Qatar', 'Netherlands, Belgium, Germany, Jordan',
'United Arab Emirates, United States', 'Norway, Germany, Sweden',
'South Korea, China', 'Georgia', 'Soviet Union, India',
'Australia, United Arab Emirates', 'Canada, Germany, South Africa',
'South Korea, China, United States', 'India, Soviet Union',
'India, Mexico', 'Georgia, Germany, France',
'United Arab Emirates, Romania', 'India, Malaysia',
'Germany, Jordan, Netherlands', 'Turkey, France, Germany, Poland',
'Greece, United States', 'France, United Kingdom, United States',
'Norway, Germany', 'France, Morocco', 'Cambodia, United States',
'United States, Denmark', 'United States, Colombia, Mexico',
'United Kingdom, Italy, Israel, Peru, United States',
'Argentina, Uruguay, Spain, France',
'United Kingdom, France, United States, Belgium',
'France, Canada, China, Cambodia',
'United Kingdom, France, Belgium, United States', 'Chile, France',
'Netherlands, United States', 'France, United Kingdom, India',
'Czech Republic, Slovakia', 'Singapore, France',
'Spain, Switzerland', 'United States, Australia, China',
'South Africa, United States, Germany',
'United States, United Kingdom, Australia',

'Spain, Italy, Argentina', 'Chile, Spain, Argentina, Germany',
'West Germany', 'Austria, Czech Republic', 'Lebanon, Qatar',
'United Kingdom, Jordan, Qatar, Iran',
'France, South Korea, Japan', 'Israel, Germany, France',
'Canada, Japan, Netherlands', 'United States, Hungary',
'France, Germany', 'France, Qatar',
'United Kingdom, Germany, Canada', 'Ireland, South Africa',
'Chile, United States, France', 'Belgium, France, Netherlands',
'United Kingdom, Ukraine, United States',
'Germany, Australia, France, China', 'Norway, United States',
'United States, Bermuda, Ecuador',
'United States, Hungary, Ireland, Canada',
'United Kingdom, Egypt, United States',
'United States, France, United Kingdom', 'Spain, Mexico, France',
'United States, South Africa', 'Hong Kong, China, Singapore',
'South Africa, China, United States', 'Denmark, France, Poland',
'New Zealand, United Kingdom',
'Netherlands, Denmark, South Africa', 'Iran, France',
'United Kingdom, United States, France, Germany',
'Australia, France', 'Ireland, United Kingdom, United States',
'United Kingdom, France, Germany', 'Canada, Luxembourg',
'Brazil, Netherlands, United States, Colombia, Austria, Germany',
'France, Canada, Belgium', 'Canada, France',
'Bulgaria, United States, Spain, Canada', 'Sweden, Netherlands',
'France, United States, Mexico',
'Australia, United Kingdom, United Arab Emirates, Canada',
'Australia, Armenia, Japan, Jordan, Mexico, Mongolia, New Zealand, Philippines, South Africa, Sweden, United States, Uruguay',
'India, Iran', 'France, Belgium, Spain',
'Denmark, Sweden, Israel, United States', 'United States, Iceland',
'United Kingdom, Russia',
'United States, Israel, Italy, South Africa',
'Netherlands, Denmark, France, Germany', 'South Korea, Japan',
'United Kingdom, Pakistan', 'France, New Zealand',
'United Kingdom, Czech Republic, United States, Germany, Bahamas',
'China, Germany, India, United States', 'Germany, Sri Lanka',
'United States, India, Bangladesh',
'United States, Canada, France', 'Brazil, France, Germany',
'Germany, United States, Hong Kong, Singapore',
'France, Germany, Switzerland',
'Germany, France, Luxembourg, United Kingdom, United States',
'United Kingdom, Canada, Italy', 'Czech Republic, France',
'Taiwan, Hong Kong, United States, China', 'Germany, Australia',
'United Kingdom, Poland, United States', 'Denmark, Zimbabwe',
'United Kingdom, South Africa',

'Finland, Sweden, Norway, Latvia, Germany',
'South Africa, United States, New Zealand, Canada',
'United States, Italy, United Kingdom, Liechtenstein',
'Denmark, France, Belgium, Italy, Netherlands, United States, United Kingdom',
'United States, Australia, Mexico',
'United Kingdom, Czech Republic, Germany, United States',
'France, China, Japan, United States',
'United States, South Korea, China', 'Germany, Belgium',
'Pakistan, Norway, United States',
'United States, Canada, Belgium, United Kingdom', 'Venezuela',
'Canada, France, Italy, Morocco, United States',
'Canada, Spain, France', 'United States, Indonesia',
'Spain, France, Italy',
'United Arab Emirates, United States, United Kingdom',
'United Kingdom, Israel, Russia', 'Spain, Cuba',
'United States, Brazil', 'United States, France, Mexico',
'United States, Nicaragua',
'United Kingdom, United States, Spain, Germany, Greece, Canada',
'Italy, Canada, France',
'United Kingdom, Denmark, Canada, Croatia', 'Italy, Germany',
'United States, France, United Kingdom, Japan',
'United States, United Kingdom, Denmark, Sweden',
'United States, United Kingdom, Italy',
'United States, France, Canada, Spain',
'Russia, United States, China', 'United States, Canada, Germany',
'Ireland, United States', 'United States, United Arab Emirates',
'United States, Ireland',
'Ireland, United Kingdom, Italy, United States', 'Poland',
'Slovenia, Croatia, Germany, Czech Republic, Qatar',
'Canada, United Kingdom, Netherlands',
'United States, Spain, Germany', 'India, Japan',
'China, South Korea, United States',
'United Kingdom, France, Belgium',
'Canada, Ireland, United States',
'United Kingdom, United States, Dominican Republic',
'United States, Senegal', 'Germany, United Kingdom, United States',
'South Africa, Germany, Netherlands, France',
'Canada, United States, United Kingdom, France, Luxembourg',
'Ireland, United States, France', 'Germany, United States, Canada',
'United Kingdom, Germany, Canada, United States',
'United States, France, Canada, Lebanon, Qatar',
'Netherlands, Belgium, United Kingdom, United States',
'France, Belgium, China, United States',
'United States, Chile, Israel',
'United Kingdom, Norway, Denmark, Germany, Sweden',

'Norway, Denmark, Sweden', 'China, India, Nepal',
'Colombia, Mexico, United States', 'United Kingdom, South Korea',
'Denmark, China', 'United States, Greece, Brazil',
'South Korea, France',
'United States, Australia, Samoa, United Kingdom',
'Germany, United Kingdom', 'Argentina, Chile, Peru',
'Turkey, Azerbaijan', 'Poland, West Germany',
'Germany, United States, Sweden', 'Canada, Spain',
'United States, Cambodia', 'United States, Greece',
'Norway, United Kingdom, France, Ireland',
'United Kingdom, Poland', 'Israel, Sweden, Germany, Netherlands',
'Switzerland, France', 'Italy, India', 'United States, Botswana',
'Chile, Argentina, France, Spain, United States',
'United States, India, South Korea, China',
'Denmark, Germany, Belgium, United Kingdom, France',
'Denmark, Germany, Belgium, United Kingdom, France, Sweden',
'France, Switzerland, Spain, United States, United Arab Emirates',
'Brazil, India, China, United States',
'Denmark, France, United States, Sweden', 'Australia, Iraq',
'China, Morocco, Hong Kong', 'Canada, United States, Germany',
'United Kingdom, Thailand', 'Venezuela, Colombia',
'Colombia, United States',
'France, Germany, Czech Republic, Belgium',
'Switzerland, Vatican City, Italy, Germany, France',
'Portugal, France, Poland, United States',
'United States, New Zealand, Japan',
'United States, Netherlands, Japan, France', 'India, Switzerland',
'Canada, India', 'United States, Morocco',
'Singapore, Japan, France',
'Canada, Mexico, Germany, South Africa',
'United Kingdom, United States, Canada',
'Germany, France, United States, Canada, United Kingdom',
'United States, Uruguay', 'India, Canada',
'Ireland, Canada, United Kingdom, United States',
'United States, Germany, Australia', 'Australia, France, Ireland',
'Australia, India', 'United States, United Kingdom, Canada, Japan',
'Sweden, United Kingdom, Finland', 'Hong Kong, Taiwan',
'United States, United Kingdom, Spain, South Korea', 'Guatemala',
'Ukraine',
'Italy, South Africa, West Germany, Australia, United States',
'United States, Germany, United Kingdom, Australia',
'Italy, France, Switzerland', 'Canada, France, United States',
'Switzerland, United States', 'Thailand, Canada, United States',
'China, Hong Kong, United States', 'United Kingdom, New Zealand',
'Czech Republic, United Kingdom, France',

'Australia, United Kingdom, Canada', 'Jamaica, United States',
'Australia, United Kingdom, United States, New Zealand, Italy, France',
'France, United States, Canada',
'United Kingdom, France, Canada, Belgium, United States',
'Denmark, United Kingdom, Sweden', 'United States, Hong Kong',
'United States, Kazakhstan',
'Argentina, France, United States, Germany, Qatar',
'United States, Germany, United Kingdom',
'United States, Germany, United Kingdom, Italy',
'United States, New Zealand, United Kingdom',
'Finland, United States', 'Spain, France, Uruguay',
'France, Canada, United States', 'United States, Canada, China',
'Ireland, Canada, Luxembourg, United States, United Kingdom, Philippines, India',
'United States, Czech Republic, United Kingdom', 'Israel, Germany',
'Mexico, France',
'Israel, Germany, Poland, Luxembourg, Belgium, France, United States',
'Austria, United States', 'United Kingdom, Lithuania',
'United States, Greece, United Kingdom',
'United Kingdom, China, United States, India',
'United States, Sweden, Norway',
'United Kingdom, United States, Morocco',
'United States, United Kingdom, Morocco',
'Spain, Canada, United States',
'United States, India, United Arab Emirates',
'United Kingdom, Canada, France, United States',
'India, Germany, France',
'Belgium, Ireland, Netherlands, Germany, Afghanistan',
'France, Canada, Italy, United States, China',
'Ireland, United Kingdom, Greece, France, Netherlands',
'Denmark, Indonesia, Finland, Norway, United Kingdom, Israel, France, United States, Germany, Netherlands',
'New Zealand, United States',
'United States, Australia, South Africa, United Kingdom',
'United States, Germany, Mexico',
'Somalia, Kenya, Sudan, South Africa, United States',
'United States, Canada, Japan, Panama',
'United Kingdom, Spain, Belgium', 'Serbia, South Korea, Slovenia',
'Denmark, United Kingdom, South Africa, Sweden, Belgium',
'Germany, Canada, United States',
'Ireland, Canada, United States, United Kingdom',
'New Zealand, United Kingdom, Australia',
'United Kingdom, Australia, Canada, United States',
'Germany, United States, Italy', 'United States, Venezuela',
'United Kingdom, Canada, Japan',
'United Kingdom, United States, Czech Republic',
'United Kingdom, China, United States',

```
.... 'United Kingdom, Brazil, Germany',
.... 'United Kingdom, Namibia, South Africa, Zimbabwe, United States',
.... 'Canada, United States, India, United Kingdom',
.... 'Switzerland, United Kingdom, United States',
.... 'United Kingdom, India, Sweden',
.... 'United States, Brazil, India, Uganda, China',
.... 'Peru, United States, United Kingdom',
.... 'Germany, United States, United Kingdom, Canada',
.... 'Canada, India, Thailand, United States, United Arab Emirates',
.... 'United States, East Germany, West Germany',
.... 'France, Netherlands, South Africa, Finland',
.... 'Egypt, Austria, United States', 'Russia, Spain',
.... 'Croatia, Slovenia, Serbia, Montenegro', 'Japan, Canada',
.... 'United States, France, South Korea, Indonesia',
.... 'United Arab Emirates, Jordan'], dtype=object)
```

```
In [69]: df['date_added'].unique()
```

```
Out[69]: array(['September 25, 2021', 'September 24, 2021', 'September 23, 2021',
... 'December 6, 2018', 'March 9, 2016', 'January 11, 2020'],
... dtype=object)
```

```
In [70]: df['release_year'].unique()
```

```
Out[70]: array([2020, 2021, 1993, 2018, 1996, 1998, 1997, 2010, 2013, 2017, 1975,
1978, 1983, 1987, 2012, 2001, 2014, 2002, 2003, 2004, 2011, 2008,
2009, 2007, 2005, 2006, 1994, 2015, 2019, 2016, 1982, 1989, 1990,
1991, 1999, 1986, 1992, 1984, 1980, 1961, 2000, 1995, 1985, 1976,
1959, 1988, 1981, 1972, 1964, 1945, 1954, 1979, 1958, 1956, 1963,
1970, 1973, 1925, 1974, 1960, 1966, 1971, 1962, 1969, 1977, 1967,
1968, 1965, 1946, 1942, 1955, 1944, 1947, 1943], dtype=int64)
```

```
In [71]: df['rating'].unique()
```

```
Out[71]: array(['PG-13', 'TV-MA', 'PG', 'TV-14', 'TV-PG', 'TV-Y', 'TV-Y7', 'R',
'TV-G', 'G', 'NC-17', 'NR', 'TV-Y7-FV', 'UR'], dtype=object)
```

```
In [72]: df['duration'].unique()
```

```
Out[72]: array(['90 min', '2 Seasons', '1 Season', '91 min', '125 min',
   .... '9 Seasons', '104 min', '127 min', '4 Seasons', '67 min', '94 min',
   .... '5 Seasons', '161 min', '61 min', '166 min', '147 min', '103 min',
   .... '97 min', '106 min', '111 min', '3 Seasons', '110 min', '105 min',
   .... '96 min', '124 min', '116 min', '98 min', '23 min', '115 min',
   .... '122 min', '99 min', '88 min', '100 min', '6 Seasons', '102 min',
   .... '93 min', '95 min', '85 min', '83 min', '113 min', '13 min',
   .... '182 min', '48 min', '145 min', '87 min', '92 min', '80 min',
   .... '117 min', '128 min', '119 min', '143 min', '114 min', '118 min',
   .... '108 min', '63 min', '121 min', '142 min', '154 min', '120 min',
   .... '82 min', '109 min', '101 min', '86 min', '229 min', '76 min',
   .... '89 min', '156 min', '112 min', '107 min', '129 min', '135 min',
   .... '136 min', '165 min', '150 min', '133 min', '70 min', '84 min',
   .... '140 min', '78 min', '7 Seasons', '64 min', '59 min', '139 min',
   .... '69 min', '148 min', '189 min', '141 min', '130 min', '138 min',
   .... '81 min', '132 min', '10 Seasons', '123 min', '65 min', '68 min',
   .... '66 min', '62 min', '74 min', '131 min', '39 min', '46 min',
   .... '38 min', '8 Seasons', '17 Seasons', '126 min', '155 min',
   .... '159 min', '137 min', '12 min', '273 min', '36 min', '34 min',
   .... '77 min', '60 min', '49 min', '58 min', '72 min', '204 min',
   .... '212 min', '25 min', '73 min', '29 min', '47 min', '32 min',
   .... '35 min', '71 min', '149 min', '33 min', '15 min', '54 min',
   .... '224 min', '162 min', '37 min', '75 min', '79 min', '55 min',
   .... '158 min', '164 min', '173 min', '181 min', '185 min', '21 min',
   .... '24 min', '51 min', '151 min', '42 min', '22 min', '134 min',
   .... '177 min', '13 Seasons', '52 min', '14 min', '53 min', '8 min',
   .... '57 min', '28 min', '50 min', '9 min', '26 min', '45 min',
   .... '171 min', '27 min', '44 min', '146 min', '20 min', '157 min',
   .... '17 min', '203 min', '41 min', '30 min', '194 min', '15 Seasons',
   .... '233 min', '237 min', '230 min', '195 min', '253 min', '152 min',
   .... '190 min', '160 min', '208 min', '180 min', '144 min', '5 min',
   .... '174 min', '170 min', '192 min', '209 min', '187 min', '172 min',
   .... '16 min', '186 min', '11 min', '193 min', '176 min', '56 min',
   .... '169 min', '40 min', '10 min', '3 min', '168 min', '312 min',
   .... '153 min', '214 min', '31 min', '163 min', '19 min', '12 Seasons',
   .... '179 min', '11 Seasons', '43 min', '200 min', '196 min', '167 min',
   .... '178 min', '228 min', '18 min', '205 min', '201 min', '191 min'],
   .... dtype=object)
```

```
In [73]: df['listed_in'].unique()
```

```
Out[73]: array(['Documentaries', 'International TV Shows, TV Dramas, TV Mysteries',  
   'Crime TV Shows, International TV Shows, TV Action & Adventure',  
   'Docuseries, Reality TV',  
   'International TV Shows, Romantic TV Shows, TV Comedies',  
   'TV Dramas, TV Horror, TV Mysteries', 'Children & Family Movies',  
   'Dramas, Independent Movies, International Movies',  
   'British TV Shows, Reality TV', 'Comedies, Dramas',  
   'Crime TV Shows, Docuseries, International TV Shows',  
   'Dramas, International Movies',  
   'Children & Family Movies, Comedies',  
   'British TV Shows, Crime TV Shows, Docuseries',  
   'TV Comedies, TV Dramas', 'Documentaries, International Movies',  
   'Crime TV Shows, Spanish-Language TV Shows, TV Dramas',  
   'Thrillers',  
   'International TV Shows, Spanish-Language TV Shows, TV Action & Adventure',  
   'International TV Shows, TV Action & Adventure, TV Dramas',  
   'Comedies, International Movies',  
   'Comedies, International Movies, Romantic Movies',  
   'Docuseries, International TV Shows, Reality TV',  
   'Comedies, International Movies, Music & Musicals', 'Comedies',  
   'Horror Movies, Sci-Fi & Fantasy', 'TV Comedies',  
   'British TV Shows, International TV Shows, TV Comedies',  
   'International TV Shows, TV Dramas, TV Thrillers', "Kids' TV",  
   'Dramas, International Movies, Thrillers',  
   'Action & Adventure, Dramas, International Movies',  
   "Kids' TV, TV Comedies", 'Action & Adventure, Dramas',  
   "Kids' TV, TV Sci-Fi & Fantasy",  
   'Action & Adventure, Classic Movies, Dramas',  
   'Dramas, Horror Movies, Thrillers',  
   'Action & Adventure, Horror Movies, Thrillers',  
   'Action & Adventure', 'Dramas, Thrillers',  
   'International TV Shows, TV Dramas',  
   'International TV Shows, TV Dramas, TV Sci-Fi & Fantasy',  
   'Action & Adventure, Anime Features, International Movies',  
   'Reality TV', 'Docuseries, International TV Shows',  
   'Documentaries, International Movies, Sports Movies',  
   'International TV Shows, Reality TV, Romantic TV Shows',  
   'British TV Shows, Docuseries, International TV Shows',  
   'Anime Series, International TV Shows',  
   'Comedies, Dramas, International Movies',  
   'Crime TV Shows, TV Comedies, TV Dramas',  
   'Action & Adventure, Comedies, Dramas', "Anime Series, Kids' TV",  
   'International Movies, Thrillers', "Kids' TV, Korean TV Shows",  
   'Documentaries, Sports Movies', 'Sci-Fi & Fantasy, Thrillers',  
   'Dramas, International Movies, Romantic Movies',
```

'Documentaries, Music & Musicals',
"Kids' TV, TV Comedies, TV Sci-Fi & Fantasy",
"British TV Shows, Kids' TV", 'Docuseries, Science & Nature TV',
'Children & Family Movies, Dramas',
"Kids' TV, TV Dramas, Teen TV Shows",
'Crime TV Shows, International TV Shows, Spanish-Language TV Shows',
'Docuseries, International TV Shows, Spanish-Language TV Shows',
'Dramas', 'Comedies, Romantic Movies', 'Dramas, Romantic Movies',
'Comedies, Dramas, Independent Movies',
'Crime TV Shows, TV Action & Adventure, TV Comedies',
'Children & Family Movies, Music & Musicals',
'Action & Adventure, Classic Movies, Cult Movies',
'International TV Shows, TV Action & Adventure, TV Comedies',
'Action & Adventure, Sci-Fi & Fantasy',
'Action & Adventure, Comedies', 'Classic Movies, Comedies, Dramas',
'Comedies, Cult Movies', 'Comedies, Cult Movies, Music & Musicals',
'Comedies, Music & Musicals', 'TV Shows',
'Action & Adventure, International Movies',
'Anime Series, International TV Shows, Teen TV Shows',
'Action & Adventure, Children & Family Movies, Cult Movies',
'Comedies, Dramas, Romantic Movies',
'Comedies, Cult Movies, Sci-Fi & Fantasy',
'Classic Movies, Dramas',
'Action & Adventure, Children & Family Movies, Comedies',
'Dramas, Faith & Spirituality', 'Documentaries, LGBTQ Movies',
'Action & Adventure, Classic Movies', 'Docuseries',
'International TV Shows, TV Comedies',
'Dramas, Independent Movies',
'Action & Adventure, Comedies, International Movies',
'International TV Shows, Spanish-Language TV Shows, TV Dramas',
'Crime TV Shows, International TV Shows, TV Dramas',
'Action & Adventure, Horror Movies, International Movies',
'Comedies, International Movies, Sci-Fi & Fantasy',
'Action & Adventure, International Movies, Music & Musicals',
'Dramas, International Movies, Music & Musicals',
'Horror Movies, International Movies', 'Reality TV, Teen TV Shows',
'Crime TV Shows, TV Dramas, TV Mysteries',
'International TV Shows, Reality TV',
'International TV Shows, TV Comedies, TV Dramas',
'Dramas, Independent Movies, Romantic Movies', 'Horror Movies',
'Documentaries, LGBTQ Movies, Sports Movies',
'Horror Movies, International Movies, Thrillers',
'Action & Adventure, Anime Features',
'TV Dramas, TV Mysteries, TV Sci-Fi & Fantasy',
'International TV Shows, Spanish-Language TV Shows, TV Comedies',

'Children & Family Movies, Comedies, Music & Musicals',
'Comedies, Independent Movies',
'Anime Series, International TV Shows, Romantic TV Shows',
'Classic Movies, Dramas, Independent Movies',
'International TV Shows, Romantic TV Shows, Spanish-Language TV Shows',
'International TV Shows, TV Dramas, Teen TV Shows',
'Stand-Up Comedy',
'Action & Adventure, Anime Features, Children & Family Movies',
'International TV Shows, Romantic TV Shows, TV Dramas',
'International Movies, Music & Musicals',
'TV Action & Adventure, TV Dramas, TV Mysteries',
'Horror Movies, Independent Movies, International Movies',
'Comedies, Cult Movies, International Movies',
'Classic Movies, Dramas, International Movies', 'Movies',
'Crime TV Shows, Docuseries',
'Children & Family Movies, Comedies, Sci-Fi & Fantasy',
'Anime Series, International TV Shows, TV Thrillers',
'Action & Adventure, Horror Movies, Sci-Fi & Fantasy',
'Classic Movies, Comedies, Cult Movies',
'TV Dramas, Teen TV Shows',
'Action & Adventure, Sci-Fi & Fantasy, Thrillers',
'Children & Family Movies, Comedies, Dramas',
'Dramas, Sports Movies',
'Action & Adventure, Dramas, Sci-Fi & Fantasy',
'Action & Adventure, Comedies, Cult Movies',
'Dramas, Independent Movies, Thrillers',
'TV Dramas, TV Sci-Fi & Fantasy',
'Action & Adventure, International Movies, Thrillers',
'British TV Shows, International TV Shows, Reality TV',
'TV Action & Adventure, TV Dramas, Teen TV Shows', 'Anime Series',
'Crime TV Shows, TV Action & Adventure, TV Sci-Fi & Fantasy',
'Crime TV Shows, International TV Shows, TV Comedies',
'Stand-Up Comedy & Talk Shows, TV Comedies',
'Classic & Cult TV, TV Action & Adventure, TV Dramas',
'Children & Family Movies, Sports Movies',
'TV Action & Adventure, TV Sci-Fi & Fantasy',
'Anime Series, Stand-Up Comedy & Talk Shows', 'TV Dramas',
'Anime Features, Children & Family Movies, International Movies',
'Classic & Cult TV, Crime TV Shows, International TV Shows',
'Crime TV Shows, International TV Shows, Romantic TV Shows',
'Horror Movies, LGBTQ Movies',
'Action & Adventure, Dramas, Romantic Movies',
'Documentaries, International Movies, Music & Musicals',
'TV Comedies, TV Dramas, Teen TV Shows',
'Children & Family Movies, Comedies, Sports Movies',

'Children & Family Movies, Dramas, International Movies',
'Comedies, Documentaries, International Movies',
'Romantic TV Shows, TV Dramas',
'Anime Series, TV Horror, TV Thrillers',
'International Movies, Romantic Movies',
'TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy',
"Kids' TV, Korean TV Shows, TV Comedies",
'British TV Shows, Crime TV Shows, International TV Shows',
'Crime TV Shows, TV Horror, TV Mysteries',
'Docuseries, International TV Shows, Science & Nature TV',
'British TV Shows, International TV Shows, TV Dramas',
"Kids' TV, TV Action & Adventure, TV Sci-Fi & Fantasy",
'International Movies, Romantic Movies, Thrillers',
'Action & Adventure, Cult Movies, International Movies',
'Action & Adventure, Comedies, Sci-Fi & Fantasy',
"International TV Shows, Kids' TV, TV Mysteries",
'Action & Adventure, Thrillers',
'Dramas, Faith & Spirituality, International Movies',
'Action & Adventure, Classic Movies, Comedies',
'Action & Adventure, Comedies, Sports Movies',
'Action & Adventure, Children & Family Movies, Classic Movies',
'Action & Adventure, Children & Family Movies, Dramas',
'Horror Movies, Thrillers', 'Action & Adventure, Romantic Movies',
'Dramas, Romantic Movies, Sci-Fi & Fantasy',
'Dramas, Music & Musicals, Romantic Movies',
'Anime Series, Crime TV Shows, International TV Shows',
'Reality TV, Romantic TV Shows',
'International Movies, Music & Musicals, Romantic Movies',
'Reality TV, TV Action & Adventure, TV Mysteries',
'Crime TV Shows, TV Dramas',
'International TV Shows, Reality TV, Spanish-Language TV Shows',
'Crime TV Shows, TV Dramas, TV Thrillers',
'British TV Shows, Docuseries',
'International TV Shows, Korean TV Shows, TV Comedies',
'Action & Adventure, Anime Features, Classic Movies',
'TV Action & Adventure, TV Dramas, TV Horror',
'Crime TV Shows, International TV Shows, TV Thrillers',
'Anime Series, Crime TV Shows, TV Horror',
'Anime Features, Documentaries', 'Comedies, Horror Movies',
'International TV Shows, Spanish-Language TV Shows, Stand-Up Comedy & Talk Shows',
'Children & Family Movies, Documentaries, International Movies',
'Romantic TV Shows, TV Comedies, TV Dramas',
'Dramas, Faith & Spirituality, Romantic Movies',
'Dramas, Independent Movies, LGBTQ Movies',
'Comedies, Independent Movies, LGBTQ Movies',

'Action & Adventure, Cult Movies, Sci-Fi & Fantasy',
'Cult Movies, Horror Movies',
'Action & Adventure, Dramas, Sports Movies',
'Anime Series, Romantic TV Shows, Teen TV Shows',
'Dramas, International Movies, LGBTQ Movies',
'Dramas, Romantic Movies, Thrillers',
'Children & Family Movies, Dramas, Faith & Spirituality',
'Dramas, International Movies, Sports Movies',
'Action & Adventure, Horror Movies',
'Documentaries, International Movies, LGBTQ Movies',
'Dramas, Independent Movies, Sci-Fi & Fantasy',
'Comedies, Independent Movies, International Movies',
'Reality TV, TV Horror, TV Thrillers',
'TV Action & Adventure, TV Horror, TV Sci-Fi & Fantasy',
'International TV Shows, TV Horror, TV Sci-Fi & Fantasy',
'Independent Movies, International Movies, Thrillers',
'Independent Movies, Thrillers', 'Documentaries, Dramas',
'Action & Adventure, Sports Movies',
'Dramas, International Movies, Sci-Fi & Fantasy',
'Comedies, Independent Movies, Romantic Movies',
'Horror Movies, Romantic Movies, Sci-Fi & Fantasy',
'International TV Shows, Stand-Up Comedy & Talk Shows',
'Action & Adventure, Anime Features, Horror Movies',
'Cult Movies, Dramas, Music & Musicals', 'TV Dramas, TV Thrillers',
'Crime TV Shows, International TV Shows, Korean TV Shows',
'TV Horror, TV Mysteries, TV Thrillers',
'Comedies, Horror Movies, International Movies',
'Crime TV Shows, Docuseries, TV Mysteries',
'Comedies, International Movies, Sports Movies',
'Classic Movies, Music & Musicals',
'Reality TV, TV Comedies, TV Horror',
'Children & Family Movies, Faith & Spirituality, Music & Musicals',
'International TV Shows, Korean TV Shows, Stand-Up Comedy & Talk Shows',
'Dramas, Music & Musicals',
'Docuseries, Science & Nature TV, TV Action & Adventure',
"British TV Shows, Kids' TV, TV Dramas",
'International TV Shows, Korean TV Shows, Romantic TV Shows',
'Horror Movies, Independent Movies',
"Anime Series, Kids' TV, TV Action & Adventure",
'Comedies, Dramas, Music & Musicals', 'TV Horror, Teen TV Shows',
'Comedies, LGBTQ Movies, Thrillers',
'Docuseries, Reality TV, Science & Nature TV',
'Crime TV Shows, Spanish-Language TV Shows, TV Action & Adventure',
'Romantic TV Shows, Teen TV Shows', 'TV Comedies, Teen TV Shows',
'Romantic TV Shows, TV Dramas, Teen TV Shows',

'Children & Family Movies, Sci-Fi & Fantasy',
'Romantic TV Shows, TV Action & Adventure, TV Dramas',
'Comedies, International Movies, LGBTQ Movies',
'Dramas, Sci-Fi & Fantasy', "Kids' TV, TV Thrillers",
'TV Action & Adventure, TV Comedies, TV Sci-Fi & Fantasy',
'British TV Shows, Romantic TV Shows, TV Dramas',
'Anime Series, International TV Shows, Spanish-Language TV Shows',
'Docuseries, TV Comedies',
'Comedies, Romantic Movies, Sports Movies',
'TV Action & Adventure, TV Comedies, TV Dramas',
'Children & Family Movies, Dramas, Sports Movies',
'Action & Adventure, Dramas, Independent Movies',
'Spanish-Language TV Shows, TV Dramas', 'Dramas, LGBTQ Movies',
'TV Horror, TV Mysteries, TV Sci-Fi & Fantasy',
'Action & Adventure, Dramas, Faith & Spirituality',
'International TV Shows, TV Mysteries, TV Thrillers',
'British TV Shows, Classic & Cult TV, International TV Shows',
'Action & Adventure, Comedies, Independent Movies',
'Music & Musicals', "British TV Shows, Kids' TV, TV Comedies",
'Docuseries, Spanish-Language TV Shows',
'Dramas, Independent Movies, Sports Movies',
'TV Dramas, TV Mysteries, TV Thrillers',
'Comedies, LGBTQ Movies, Music & Musicals',
'International TV Shows, TV Action & Adventure, TV Mysteries',
"Kids' TV, TV Comedies, Teen TV Shows",
'International TV Shows, TV Dramas, TV Horror',
'Comedies, International Movies, Thrillers',
'Classic & Cult TV, TV Action & Adventure, TV Sci-Fi & Fantasy',
'International TV Shows, TV Horror, TV Mysteries',
'Children & Family Movies, Documentaries',
'Music & Musicals, Romantic Movies', 'Romantic Movies',
'Children & Family Movies, Classic Movies, Comedies',
'TV Action & Adventure, TV Dramas',
'Dramas, LGBTQ Movies, Romantic Movies',
'Children & Family Movies, Comedies, Romantic Movies',
'Comedies, Sports Movies', 'International Movies',
'International TV Shows, Romantic TV Shows, TV Mysteries',
'Stand-Up Comedy & Talk Shows',
'Action & Adventure, International Movies, Romantic Movies',
'Reality TV, TV Comedies',
'Cult Movies, Dramas, International Movies', "Kids' TV, TV Dramas",
'Crime TV Shows, International TV Shows, TV Mysteries',
'Action & Adventure, Sci-Fi & Fantasy, Sports Movies',
'TV Dramas, TV Sci-Fi & Fantasy, TV Thrillers',
'Romantic TV Shows, TV Dramas, TV Sci-Fi & Fantasy',

'Docuseries, TV Sci-Fi & Fantasy',
'Anime Features, International Movies',
"British TV Shows, Classic & Cult TV, Kids' TV",
'British TV Shows, Reality TV, Romantic TV Shows',
'Documentaries, Faith & Spirituality, International Movies',
"Kids' TV, Reality TV, TV Dramas", 'LGBTQ Movies, Thrillers',
'TV Action & Adventure, TV Mysteries, TV Sci-Fi & Fantasy',
'Reality TV, Science & Nature TV',
"Kids' TV, TV Action & Adventure, TV Comedies",
'International TV Shows, Romantic TV Shows, TV Action & Adventure',
'Children & Family Movies, Dramas, Independent Movies',
'Comedies, Music & Musicals, Romantic Movies',
'International TV Shows, Korean TV Shows, Reality TV',
'Classic & Cult TV, TV Dramas, TV Sci-Fi & Fantasy',
'Anime Features, Children & Family Movies',
'Action & Adventure, International Movies, Sci-Fi & Fantasy',
'Crime TV Shows, TV Action & Adventure, TV Dramas',
'Classic & Cult TV, TV Action & Adventure, TV Horror',
'International TV Shows, Korean TV Shows, TV Dramas',
'International TV Shows, TV Action & Adventure, TV Horror',
'Action & Adventure, Comedies, Romantic Movies',
'International TV Shows, Korean TV Shows, TV Action & Adventure',
"Classic & Cult TV, Kids' TV, TV Action & Adventure",
'Anime Series, International TV Shows, TV Horror',
"International TV Shows, Korean TV Shows, TV Horror",
'Children & Family Movies, Comedies, International Movies',
'International Movies, Sci-Fi & Fantasy',
'International Movies, Sci-Fi & Fantasy, Thrillers',
'Children & Family Movies, Dramas, Romantic Movies',
'Anime Series, Romantic TV Shows',
'Comedies, Dramas, LGBTQ Movies',
'British TV Shows, International TV Shows, TV Action & Adventure',
'Docuseries, Science & Nature TV, TV Comedies',
'International TV Shows, Stand-Up Comedy & Talk Shows, TV Comedies',
'Children & Family Movies, Dramas, Music & Musicals',
'Action & Adventure, Independent Movies, International Movies',
'Action & Adventure, Children & Family Movies, Sci-Fi & Fantasy',
'Horror Movies, Independent Movies, Sci-Fi & Fantasy',
'TV Dramas, TV Sci-Fi & Fantasy, Teen TV Shows',
'Anime Features, International Movies, Sci-Fi & Fantasy',
'Dramas, Independent Movies, Music & Musicals',
"Kids' TV, TV Comedies, TV Dramas",
'Children & Family Movies, Documentaries, Sports Movies',
'Independent Movies, Sci-Fi & Fantasy, Thrillers',
'Anime Features, Music & Musicals, Sci-Fi & Fantasy',

'TV Comedies, TV Dramas, TV Sci-Fi & Fantasy',
'Crime TV Shows, TV Action & Adventure',
'Comedies, Faith & Spirituality, Romantic Movies',
"Kids' TV, TV Action & Adventure",
'Action & Adventure, Independent Movies',
'International TV Shows, Reality TV, TV Comedies',
'Docuseries, Reality TV, Teen TV Shows',
'Crime TV Shows, International TV Shows, Reality TV',
'Anime Series, Teen TV Shows',
'Crime TV Shows, Romantic TV Shows, TV Dramas',
'Anime Features, Romantic Movies',
'Horror Movies, Sci-Fi & Fantasy, Thrillers',
'International TV Shows, TV Comedies, TV Sci-Fi & Fantasy',
'International TV Shows, Romantic TV Shows',
'Anime Features, Music & Musicals',
'Anime Features, International Movies, Romantic Movies',
'International TV Shows, Romantic TV Shows, Teen TV Shows',
'Docuseries, Stand-Up Comedy & Talk Shows',
'Horror Movies, Independent Movies, Thrillers',
'TV Action & Adventure, TV Comedies, TV Horror',
'Documentaries, Stand-Up Comedy',
"Kids' TV, Spanish-Language TV Shows",
"British TV Shows, Kids' TV, TV Thrillers",
"Kids' TV, TV Action & Adventure, TV Dramas",
'Anime Series, Crime TV Shows',
'Dramas, Sci-Fi & Fantasy, Thrillers',
'TV Comedies, TV Dramas, TV Horror',
'Children & Family Movies, Comedies, LGBTQ Movies',
'International TV Shows, TV Action & Adventure, TV Sci-Fi & Fantasy',
'Docuseries, TV Dramas',
'Horror Movies, International Movies, Romantic Movies',
'Crime TV Shows, Docuseries, Science & Nature TV',
'International Movies, Music & Musicals, Thrillers',
"Kids' TV, Spanish-Language TV Shows, Teen TV Shows",
'Comedies, Horror Movies, Independent Movies',
'Action & Adventure, International Movies, Sports Movies',
'Action & Adventure, Independent Movies, Sci-Fi & Fantasy',
'Horror Movies, LGBTQ Movies, Music & Musicals',
'Comedies, Music & Musicals, Sports Movies',
'TV Horror, TV Mysteries, Teen TV Shows',
'Romantic TV Shows, TV Comedies',
"Kids' TV, Reality TV, Science & Nature TV",
'International Movies, Romantic Movies, Sci-Fi & Fantasy',
'TV Comedies, TV Horror, TV Thrillers', 'TV Action & Adventure',
'International TV Shows, Spanish-Language TV Shows, TV Horror',

'Crime TV Shows, TV Action & Adventure, TV Thrillers',
'Music & Musicals, Stand-Up Comedy',
'British TV Shows, TV Comedies',
'TV Comedies, TV Sci-Fi & Fantasy, Teen TV Shows',
'TV Comedies, TV Sci-Fi & Fantasy',
'Romantic TV Shows, Spanish-Language TV Shows, TV Comedies',
'Crime TV Shows, International TV Shows, TV Sci-Fi & Fantasy',
'British TV Shows, International TV Shows, Romantic TV Shows',
"Crime TV Shows, Kids' TV",
'Horror Movies, International Movies, Sci-Fi & Fantasy',
'TV Comedies, TV Mysteries',
'Cult Movies, Horror Movies, Independent Movies',
'British TV Shows, Docuseries, TV Comedies',
'Comedies, Documentaries',
'Reality TV, Science & Nature TV, TV Action & Adventure',
'TV Comedies, TV Dramas, TV Mysteries',
'Crime TV Shows, TV Comedies, Teen TV Shows',
"Docuseries, Kids' TV, Science & Nature TV",
'Reality TV, Spanish-Language TV Shows',
'Action & Adventure, Anime Features, Sci-Fi & Fantasy',
"Crime TV Shows, Kids' TV, TV Comedies",
'Dramas, Faith & Spirituality, Independent Movies',
'Documentaries, Faith & Spirituality',
'British TV Shows, International TV Shows, Stand-Up Comedy & Talk Shows',
'Comedies, Dramas, Faith & Spirituality',
'Classic & Cult TV, TV Comedies',
'Dramas, Romantic Movies, Sports Movies',
'Stand-Up Comedy & Talk Shows, TV Mysteries, TV Sci-Fi & Fantasy',
'TV Sci-Fi & Fantasy, TV Thrillers',
'Comedies, Independent Movies, Music & Musicals',
'Comedies, Cult Movies, Independent Movies',
'Documentaries, Dramas, International Movies',
'British TV Shows, TV Horror, TV Thrillers',
'British TV Shows, Docuseries, Science & Nature TV',
'Children & Family Movies, Comedies, Cult Movies', 'Sports Movies',
'Sci-Fi & Fantasy', 'Comedies, LGBTQ Movies',
'Comedies, Independent Movies, Thrillers',
'Classic Movies, Cult Movies, Dramas',
'Action & Adventure, Children & Family Movies, Independent Movies',
'Action & Adventure, Documentaries, International Movies',
'Children & Family Movies, Independent Movies',
'Comedies, Cult Movies, Dramas',
'International TV Shows, TV Horror, TV Thrillers',
'Classic Movies, Thrillers',
'Crime TV Shows, TV Dramas, TV Horror',

'British TV Shows, Docuseries, Reality TV',
'Documentaries, LGBTQ Movies, Music & Musicals',
'Classic Movies, Dramas, Romantic Movies',
'Crime TV Shows, Romantic TV Shows, Spanish-Language TV Shows',
'Classic Movies, Cult Movies, Horror Movies',
'Anime Series, Crime TV Shows, TV Thrillers',
'Children & Family Movies, Classic Movies',
'Classic Movies, Comedies, International Movies',
'Comedies, Sci-Fi & Fantasy',
'Action & Adventure, Cult Movies, Dramas',
'Documentaries, Faith & Spirituality, Music & Musicals',
'British TV Shows, Classic & Cult TV, TV Comedies',
'International Movies, Sports Movies', 'International TV Shows',
"Classic & Cult TV, Kids' TV, Spanish-Language TV Shows",
'Romantic TV Shows, Spanish-Language TV Shows, TV Dramas',
'Children & Family Movies, Comedies, Faith & Spirituality',
'British TV Shows, Crime TV Shows, TV Dramas',
'Classic Movies, Dramas, Music & Musicals',
'Cult Movies, Horror Movies, Thrillers',
'Action & Adventure, Classic Movies, Sci-Fi & Fantasy',
'TV Action & Adventure, TV Comedies',
'Classic Movies, Comedies, Music & Musicals', 'Independent Movies',
'Documentaries, Horror Movies',
'Classic & Cult TV, TV Horror, TV Mysteries',
'Comedies, Faith & Spirituality, International Movies',
'Dramas, Horror Movies, Sci-Fi & Fantasy',
'British TV Shows, TV Dramas, TV Sci-Fi & Fantasy',
'Comedies, Cult Movies, Horror Movies',
'Comedies, Cult Movies, Sports Movies',
'Classic Movies, Documentaries',
'Action & Adventure, Faith & Spirituality, Sci-Fi & Fantasy',
'Action & Adventure, Children & Family Movies',
'International TV Shows, Reality TV, TV Action & Adventure',
'Docuseries, Science & Nature TV, TV Dramas', 'Anime Features',
'Action & Adventure, Horror Movies, Independent Movies',
'Action & Adventure, Classic Movies, International Movies',
'Cult Movies, Independent Movies, Thrillers',
'Crime TV Shows, TV Comedies',
'Classic Movies, Cult Movies, Documentaries',
"Classic & Cult TV, Kids' TV, TV Comedies",
'Classic Movies, Dramas, LGBTQ Movies',
'Classic Movies, Dramas, Sports Movies',
'Action & Adventure, Cult Movies',
'Action & Adventure, Comedies, Music & Musicals',
'Classic Movies, Horror Movies, Thrillers',

```
.... 'Classic Movies, Comedies, Independent Movies',
.... 'Children & Family Movies, Classic Movies, Dramas',
.... 'Dramas, Faith & Spirituality, Sports Movies',
.... 'Classic Movies, Comedies, Romantic Movies',
.... 'Dramas, Horror Movies, Music & Musicals',
.... 'Classic Movies, Independent Movies, Thrillers',
.... 'Children & Family Movies, Faith & Spirituality',
.... 'Classic Movies, Comedies, Sports Movies',
.... 'Comedies, Dramas, Sports Movies',
.... 'Action & Adventure, Romantic Movies, Sci-Fi & Fantasy',
.... 'Classic & Cult TV, TV Sci-Fi & Fantasy',
.... 'Comedies, Cult Movies, LGBTQ Movies',
.... 'Comedies, Horror Movies, Sci-Fi & Fantasy',
.... 'Action & Adventure, Comedies, Horror Movies',
.... 'Classic & Cult TV, Crime TV Shows, TV Dramas',
.... 'Action & Adventure, Documentaries, Sports Movies',
.... 'International Movies, LGBTQ Movies, Romantic Movies',
.... 'Cult Movies, Dramas, Thrillers'], dtype=object)
```

```
In [74]: df['description'].unique()
```

```
Out[74]: array(['As her father nears the end of his life, filmmaker Kirsten Johnson stages his death in inventive and comical ways to help them both face the inevitable.',
.... 'After crossing paths at a party, a Cape Town teen sets out to prove whether a private-school swimming star is her sister who was abducted at birth.',
.... 'To protect his family from a powerful drug lord, skilled thief Mehdi and his expert team of robbers are pulled in to a violent and deadly turf war.',
.... '...',
.... 'Looking to survive in a world taken over by zombies, a dorky college student teams with an urban roughneck and a pair of grifter sisters.',
.... 'Dragged from civilian life, a former superhero must train a new crop of youthful saviors when the military preps for an attack by a familiar villain.',
.... "A scrappy but poor boy worms his way into a tycoon's dysfunctional family, while facing his fear of music and the truth about his past."],
.... dtype=object)
```

4.Data Analysis and Data Visualization.

```
In [40]: df.head(3)
```

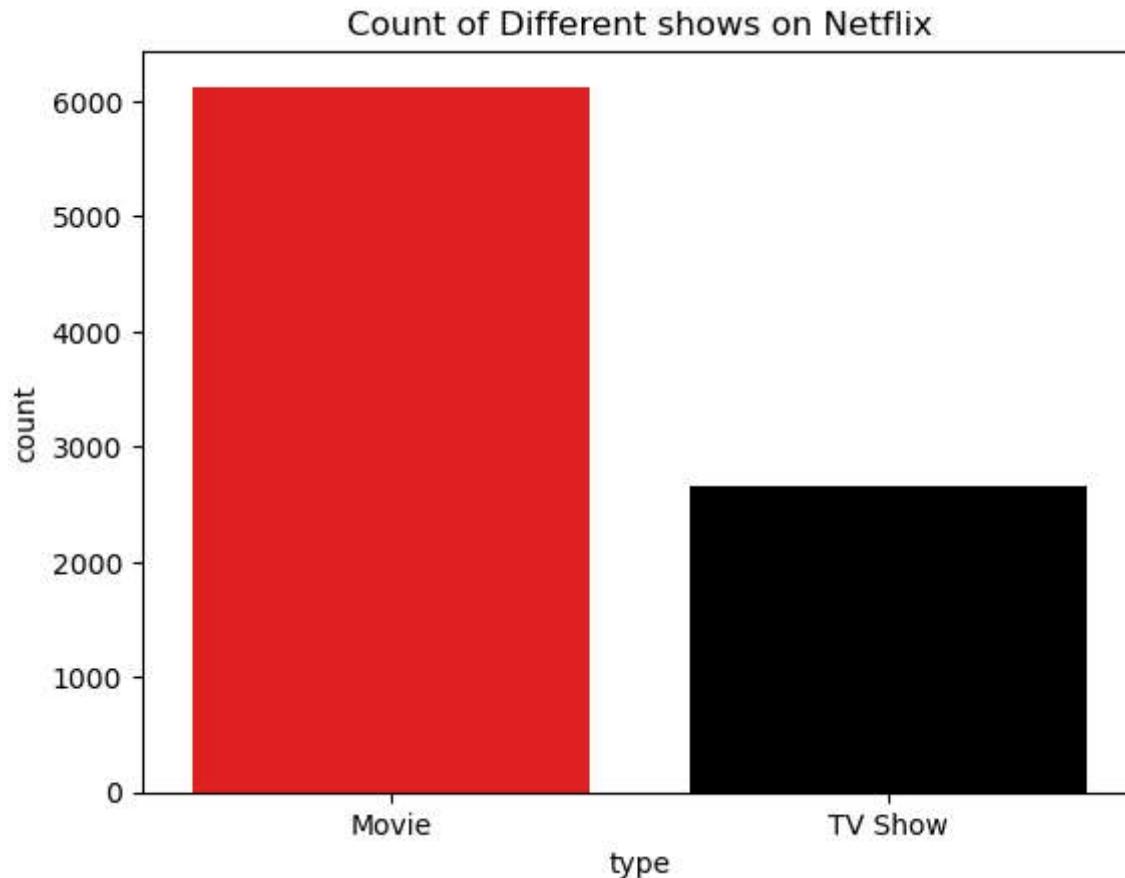
Out[40]:

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	desc
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	Unknown_Value	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	father the
1	s2	TV Show	Blood & Water	Unknown_Value	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	c pa Cap
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	Unknown_Value	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To his p dr

i) Plot the count of different types of shows available on netflix

In [59]:

```
color=['Red','Black'] #netflix color pattern
sns.countplot(x='type',data=df,palette=color)
plt.title('Count of Different shows on Netflix')
plt.show()
```



observations from the graph:

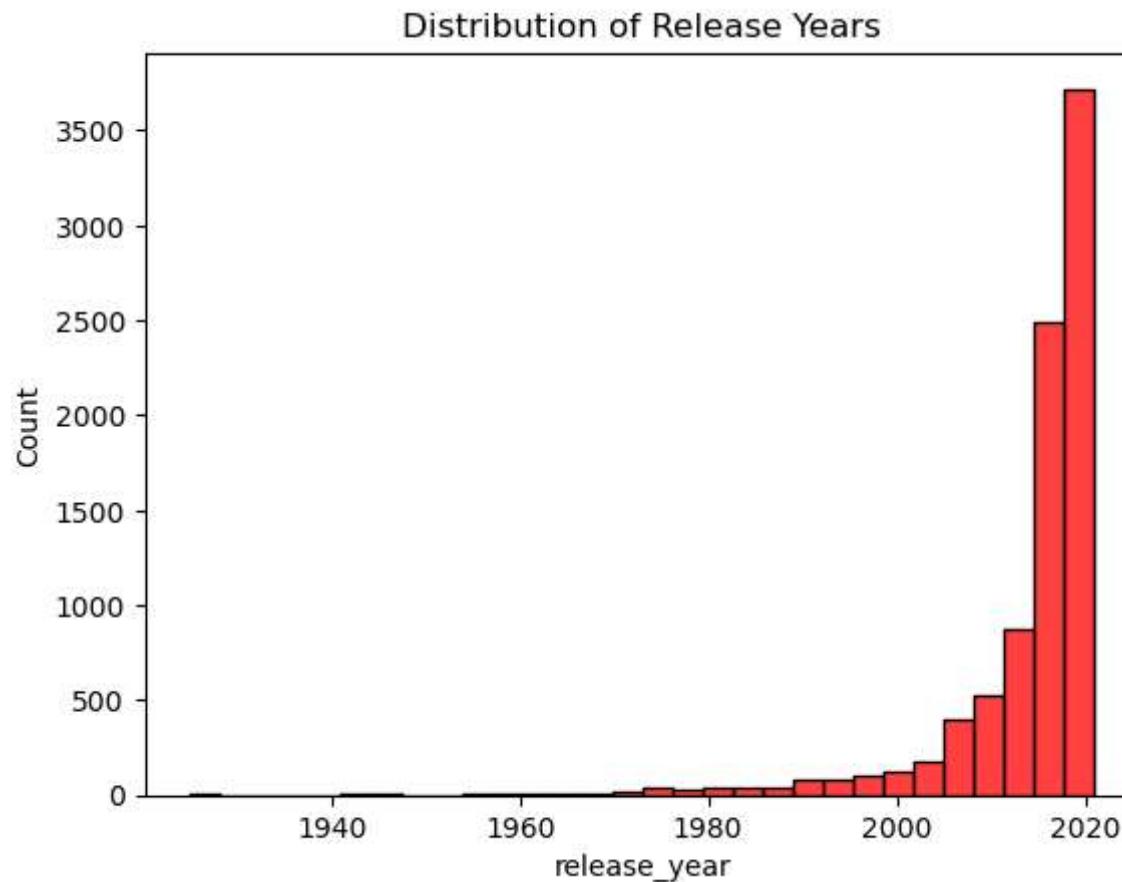
1. Netflix contains more movies than TV shows.
2. It indicates that Movies has more audience than TV Shows.

```
In [115]: df['type'].value_counts()
```

```
Out[115]: Movie      6126
          TV Show    2664
          Name: type, dtype: int64
```

ii) Plot the Distribution of Release years

```
In [86]: sns.histplot(df['release_year'], bins=30, color='r')
plt.title("Distribution of Release Years")
plt.show()
```



observations from the graph:

1. Most no:of releases are during the period 2000-2020
2. Highest no: of releases are in the year 2018

```
In [114]: df['release_year'].value_counts()
```

```
Out[114]:
```

2018	1146
2017	1030
2019	1030
2020	953
2016	901
...	...
1959	1
1925	1
1961	1
1947	1
1966	1

Name: release_year, Length: 74, dtype: int64

iii) Top 10 countries with highest content

```
In [108]: df.country.value_counts().head(10)
```

```
Out[108]:
```

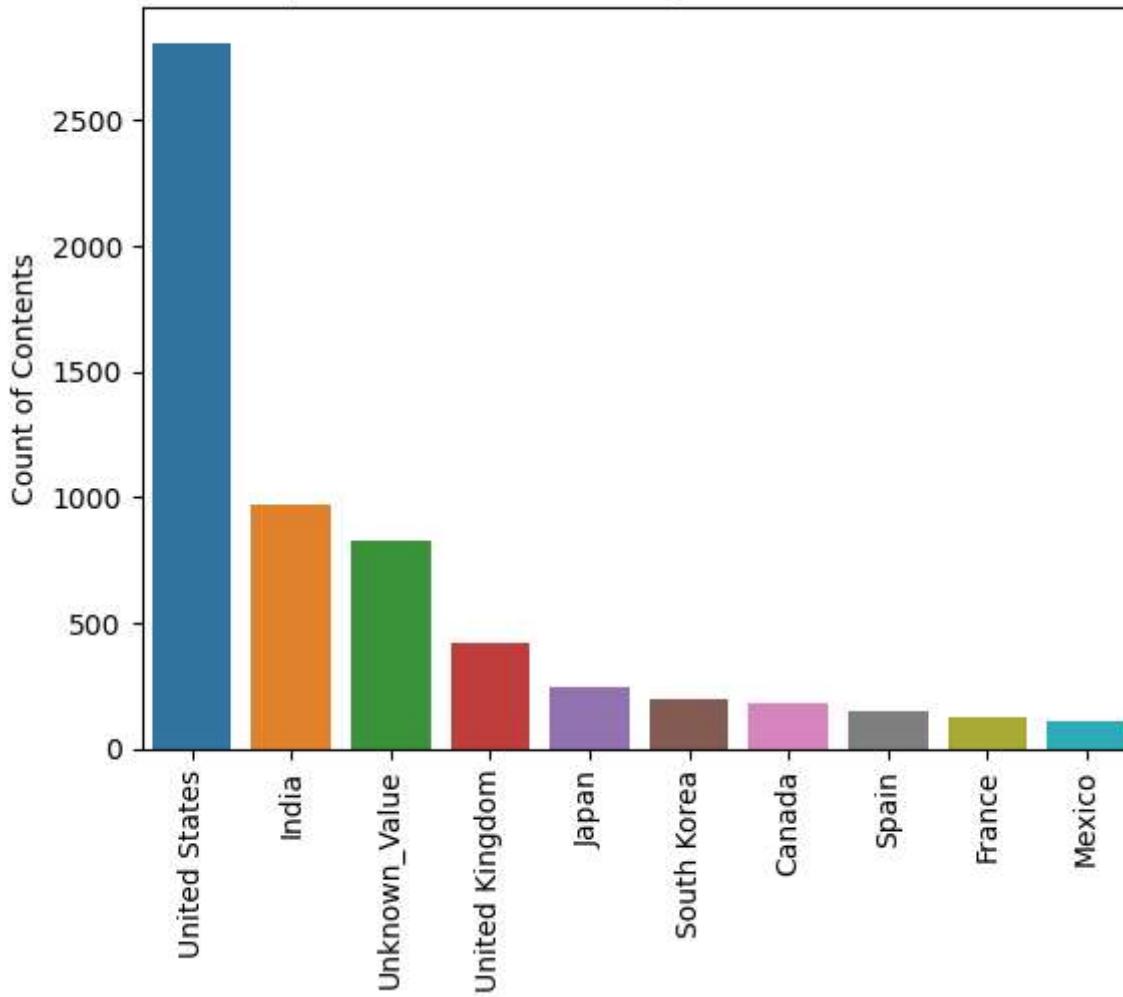
United States	2809
India	972
Unknown_Value	829
United Kingdom	418
Japan	243
South Korea	199
Canada	181
Spain	145
France	124
Mexico	110

Name: country, dtype: int64

```
In [109]: data=df.country.value_counts().head(10)
```

```
In [120]: sns.barplot(x=data.index,y=data.values)
plt.xticks(rotation=90)
plt.ylabel("Count of Contents")
plt.title("Top 10 Countries with Highest no: of Contents")
plt.show()
```

Top 10 Countries with Highest no: of Contents



observations from the graph:

1. Netflix has a greater no: of contents from United States.
2. India stands out in the second position.

iV) list out TV shows from India?

```
In [129]: df[(df['type']=='TV Show')&(df['country']=='India')]['title']
```

```
Out[129]:
```

4	Kota Factory
39	Chhota Bheem
50	Dharmakshetra
66	Raja Rasoi Aur Anya Kahaniyan
69	Stories by Rabindranath Tagore
	...
8173	Thackeray
8235	The Calling
8321	The Golden Years with Javed Akhtar
8349	The House That Made Me
8775	Yeh Meri Family
	Name: title, Length: 79, dtype: object

V) list out Movies from India?

```
In [130]: df[(df['type']=='Movie')&(df['country']=='India')]['title']
```

```
Out[130]:
```

24	Jeans
105	Angamaly Diaries
114	Anjaam
116	Dhanak
118	Gurgaon
	...
8772	Yamla Pagla Deewana 2
8773	Yanda Kartavya Aahe
8798	Zed Plus
8799	Zenda
8806	Zubaan
	Name: title, Length: 893, dtype: object

Vi) Top 10 Directors with the highest no: of contents

```
In [131]: df['director'].value_counts().head(10)
```

```
Out[131]: Unknown_Value      2621
Rajiv Chilaka          19
Raúl Campos, Jan Suter    18
Suhas Kadav            16
Marcus Raboy            16
Jay Karas              14
Cathy Garcia-Molina     13
Martin Scorsese         12
Jay Chapman             12
Youssef Chahine         12
Name: director, dtype: int64
```

Vii) List all the movies of Mohan Lal(actor)?

```
In [148]: df[df['cast'].str.contains('Mohanlal')]
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	descript
4439	s4440	Movie	Grandmaster	B. Unnikrishnan	Mithra Kurian, Anoop Menon, Mohanlal, Narein, ...	India	November 1, 2018	2012	TV-14	133 min	International Movies, Thrillers	Anticipating next move serial killer
6522	s6523	Movie	Company	Ram Gopal Varma	Ajay Devgn, Vivek Oberoi, Mohanlal, Manisha Ko...	India	March 1, 2018	2002	TV-MA	137 min	Action & Adventure, Dramas, International Movies	Followir misunderstand a gangster and
8171	s8172	Movie	Tezz	Priyadarshan	Anil Kapoor, Ajay Devgn, Boman Irani, Kangna R...	United Kingdom, India	December 1, 2017	2012	TV-MA	121 min	Action & Adventure, International Movies, Musi...	This high-oct thriller tells story of

Viii) How many Movies got the 'TV-14' rating in India?

```
In [149]: df[(df['rating']=='TV-14') & (df['country']=='India')]
```

Out[149]:	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description	dur
	24	s25	Movie	Jeans	S. Shankar	Prashanth, Aishwarya Rai Bachchan, Sri Lakshmi...	India	September 21, 2021	1998	TV-14	166 min	Comedies, International Movies, Romantic Movies	When the father of the man she loves insists t...
	105	s106	Movie	Angamaly Diaries	Lijo Jose Pellissery	Antony Varghese, Reshma Rajan, Binny Rinky Ben...	India	September 5, 2021	2017	TV-14	128 min	Action & Adventure, Comedies, Dramas	After growing up amidst the gang wars of his h...
	114	s115	Movie	Anjaam	Rahul Rawail	Madhuri Dixit, Shah Rukh Khan, Tinnu Anand, Jo...	India	September 2, 2021	1994	TV-14	143 min	Dramas, International Movies, Thrillers	A wealthy industrialist's dangerous obsession ...
	118	s119	Movie	Gurgaon	Shanker Raman	Akshay Oberoi, Pankaj Tripathi, Ragini Khanna,...	India	September 2, 2021	2017	TV-14	106 min	Dramas, International Movies, Thrillers	When the daughter of a wealthy family returns ...
	126	s127	Movie	Shikara	Vidhu Vinod Chopra	Aadil Khan, Sadia Khateeb, Zain Khan Durrani, ...	India	September 2, 2021	2020	TV-14	115 min	Dramas, International Movies, Romantic Movies	A couple must strive to remain resilient after...

	8770	s8771	Movie	Yaadein	Subhash Ghai	Jackie Shroff, Hrithik Roshan, Kareena Kapoor,...	India	March 1, 2018	2001	TV-14	171 min	Dramas, International Movies, Romantic Movies	Two young lovers set out to overcome the obsta...
	8771	s8772	Movie	Yaara O Dildaara	Ksshitij Chaudhary	Harbhajan Mann, Tulip Joshi, Kabir Bedi, Gulza...	India	November 1, 2017	2011	TV-14	132 min	Dramas, International Movies, Music & Musicals	The patriarch of a wealthy family with one ind...
	8772	s8773	Movie	Yamla Pagla	Sangeeth Sivan	Dharmendra, Sunny Deol, Bobby Deol,	India	May 1, 2017	2013	TV-14	147 min	Action & Adventure, Comedies,	Up to his old tricks, con

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description	dur
			Deewana 2		Neha Sharma...						International Movies	man Dharam poses as ...	
8799	s8800	Movie	Zenda	Avadhoot Gupte	Santosh Juvekar, Siddharth Chandekar, Sachit P...	India	February 15, 2018		2009	TV-14	120 min	Dramas, International Movies	A change in the leadership of a political part...
8806	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chan...	India	March 2, 2019		2015	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

550 rows x 14 columns

ix) Which individual country has the highest no: of TV Shows?

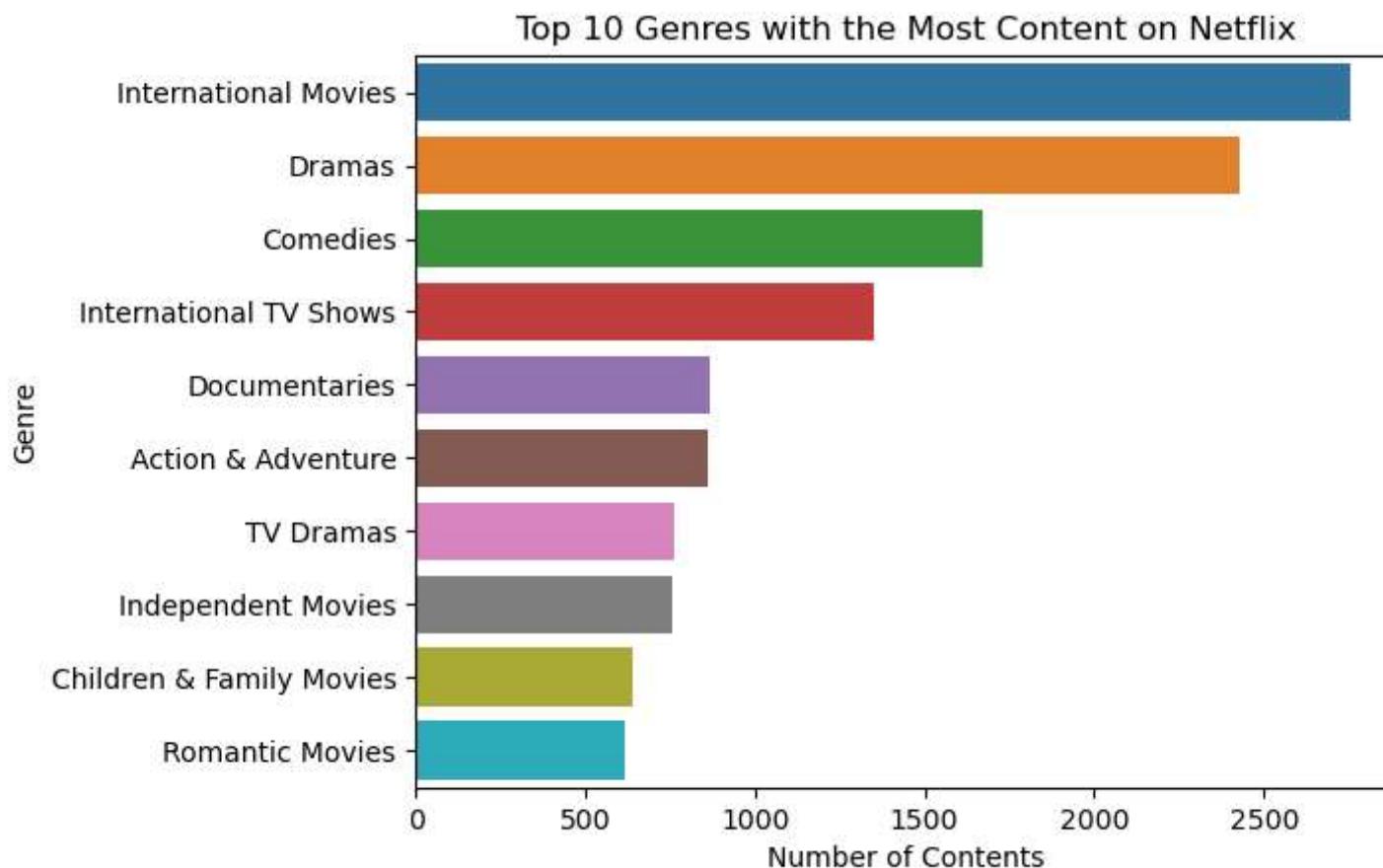
```
In [156]: df[df['type']=='TV Show']['country'].value_counts().head(1)
```

```
Out[156]: United States    754
Name: country, dtype: int64
```

x) Top 10 Genres with the Most Content on Netflix

```
# Extracting unique genres from the 'listed_in' column
all_genres = ', '.join(df['listed_in']).split(', ')
unique_genres = list(set(all_genres))
# Counting occurrences of each genre
genre_counts = {genre: all_genres.count(genre) for genre in unique_genres}
# Get the top 10 genres with the most content
top_genres = dict(sorted(genre_counts.items(), key=lambda x: x[1], reverse=True)[:10])

# Create a horizontal bar plot
sns.barplot(x=list(top_genres.values()), y=list(top_genres.keys()))
plt.xlabel('Number of Contents')
plt.ylabel('Genre')
plt.title('Top 10 Genres with the Most Content on Netflix')
plt.show()
```



In []: