

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

In [1]:

df = pd.read_csv("/Users/mrunmay/desktop/netflix.csv")

In [2]:

df

Out[3]:
```

	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 Shows, TV Comedies	While living alone in a spooky 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 Chanan...	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 x 12 columns

```
df.shape

(8807, 12)

df.isnull().sum()
```

In [4]:

Out[4]:

In [5]:

Out[5]:

```
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 [6]:

```
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 [7]:

```
df.describe()

      release_year
count  8807.000000
mean   2014.180198
std      8.819312
min    1925.000000
25%    2013.000000
50%    2017.000000
75%    2019.000000
max    2021.000000
```

In [8]:

```
df.nunique()

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
```

Out[8]:

In [9]:

```
df["type"].value_counts()
```

```
cast = df["cast"].apply(lambda x: str(x).split(", ")).tolist()
castdf = pd.DataFrame(cast,index=df["title"])
castnewdf=castdf.stack()
castnewdf=castnewdf.reset_index()
castnewdf
```

Out[10]:

	title	level_1	0
0	Dick Johnson Is Dead	0	nan
1	Blood & Water	0	Ama Qamata
2	Blood & Water	1	Khosi Ngema
3	Blood & Water	2	Gail Mabalane
4	Blood & Water	3	Thabang Molaba
...
64946	Zubaan	3	Manish Chaudhary
64947	Zubaan	4	Meghna Malik
64948	Zubaan	5	Malkeet Rauni
64949	Zubaan	6	Anita Shabdish
64950	Zubaan	7	Chittaranjan Tripathy

64951 rows × 3 columns

In [11]:

```
castnewdf.drop(columns="level_1",inplace = True)
```

In [12]:

```
castnewdf
```

Out[12]:

	title	0
0	Dick Johnson Is Dead	nan
1	Blood & Water	Ama Qamata
2	Blood & Water	Khosi Ngema
3	Blood & Water	Gail Mabalane
4	Blood & Water	Thabang Molaba
...
64946	Zubaan	Manish Chaudhary
64947	Zubaan	Meghna Malik
64948	Zubaan	Malkeet Rauni
64949	Zubaan	Anita Shabdish
64950	Zubaan	Chittaranjan Tripathy

64951 rows × 2 columns

In [13]:

```
castnewdf.columns=["title","cast"]
```

In [14]:

```
castnewdf.head()
```

Out[14]:

	title	cast
0	Dick Johnson Is Dead	nan
1	Blood & Water	Ama Qamata
2	Blood & Water	Khosi Ngema
3	Blood & Water	Gail Mabalane
4	Blood & Water	Thabang Molaba

In [15]:

castnewdf.shape

Out[15]:

(64951, 2)

In [16]:

castnewdf.isna().sum()

Out[16]:

title 0
cast 0
dtype: int64

In [17]:

df_new = df.merge(castnewdf,on="title",how="left")

In [18]:

df_new

Out[18]:

	show_id	type	title	director	cast_x	country	date_added	release_year	rating	duration	listed_in	description	cast_y
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...	nan
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...	Ama Qamata
2	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...	Khosi Ngema
3	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...	Gail Mabalane
4	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...	Thabang Molaba
...
64946	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	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...	Manish Chaudhary
64947	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	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...	Meghna Malik
64948	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	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...	Malkeet Rauni
64949	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	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...	Anita Shabdish
64950	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	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...	Chittaranjan Tripathy

In [19]:

```
df_new = df.drop(columns=["cast"]).merge(castnewdf,on="title",how="left")
```

In [20]:

df_new

												Out[20]:
	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in	description	cast
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...	nan
1	s2	TV Show	Blood & Water	NaN	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...	Ama Qamata
2	s2	TV Show	Blood & Water	NaN	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...	Khosi Ngema
3	s2	TV Show	Blood & Water	NaN	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...	Gail Mabalane
4	s2	TV Show	Blood & Water	NaN	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...	Thabang Molaba
...
64946	s8807	Movie	Zubaan	Mozez Singh	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...	Manish Chaudhary
64947	s8807	Movie	Zubaan	Mozez Singh	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...	Meghna Malik
64948	s8807	Movie	Zubaan	Mozez Singh	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...	Malkeet Rauni
64949	s8807	Movie	Zubaan	Mozez Singh	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...	Anita Shabdish
64950	s8807	Movie	Zubaan	Mozez Singh	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...	Chittaranjan Tripathy

64951 rows × 12 columns

In [21]:

```
df_new.cast.value_counts().iloc[:5]
```

Out[21]:

```
nan      825
Anupam Kher    43
Shah Rukh Khan   35
Julie Teiwani    33
Naseeruddin Shah  32
Name: cast, dtype: int64
```

In []:

In []:

In [22]:

```
listeddate = df_new["listed_in"].apply(lambda x: str(x).split(", ")).tolist()
listeddate_new = pd.DataFrame(listeddate,index=df_new["title"])
listeddate_new=listeddate_new.stack()
listeddate_new=listeddate_new.reset_index()
listeddate_new
```

Out[22]:

	title	level_1	0
0	Dick Johnson Is Dead	0	Documentaries
1	Blood & Water	0	International TV Shows
2	Blood & Water	1	TV Dramas
3	Blood & Water	2	TV Mysteries
4	Blood & Water	0	International TV Shows
...
149507	Zubaan	1	International Movies
149508	Zubaan	2	Music & Musicals
149509	Zubaan	0	Dramas
149510	Zubaan	1	International Movies
149511	Zubaan	2	Music & Musicals

149512 rows × 3 columns

In [23]:

listeddate_new.drop(columns="level_1",inplace=True)

In [24]:

listeddate_new

Out[24]:

	title	0
0	Dick Johnson Is Dead	Documentaries
1	Blood & Water	International TV Shows
2	Blood & Water	TV Dramas
3	Blood & Water	TV Mysteries
4	Blood & Water	International TV Shows
...
149507	Zubaan	International Movies
149508	Zubaan	Music & Musicals
149509	Zubaan	Dramas
149510	Zubaan	International Movies
149511	Zubaan	Music & Musicals

149512 rows × 2 columns

In [25]:

listeddate_new.columns=["title","listed_in"]

In [26]:

listeddate_new

Out[26]:

	title	listed_in
0	Dick Johnson Is Dead	Documentaries
1	Blood & Water	International TV Shows
2	Blood & Water	TV Dramas
3	Blood & Water	TV Mysteries
4	Blood & Water	International TV Shows
...
149507	Zubaan	International Movies
149508	Zubaan	Music & Musicals
149509	Zubaan	Dramas
149510	Zubaan	International Movies
149511	Zubaan	Music & Musicals

149512 rows × 2 columns

In [27]:

```
df_final=df_new.drop(columns=["listed_in"]).merge(listeddate_new,on="title",how="left")
```

In [28]:

```
df_final.head()
```

Out[28]:

	show_id	type	title	director	country	date_added	release_year	rating	duration	description	cast	listed_in
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	September 25, 2021	2020	PG-13	90 min	As her father nears the end of his life, filmm...	nan	Documentaries
1	s2	TV Show	Blood & Water	NaN	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	After crossing paths at a party, a Cape Town t...	Ama Qamata	International TV Shows
2	s2	TV Show	Blood & Water	NaN	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	After crossing paths at a party, a Cape Town t...	Ama Qamata	TV Dramas
3	s2	TV Show	Blood & Water	NaN	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	After crossing paths at a party, a Cape Town t...	Ama Qamata	TV Mysteries
4	s2	TV Show	Blood & Water	NaN	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	After crossing paths at a party, a Cape Town t...	Ama Qamata	International TV Shows

In [29]:

```
df_final.shape
```

Out[29]:

(1559790, 12)

In [60]:

```
df_final.isnull().sum()
```

Out[60]:

```
show_id      0
type         0
title        0
director    536723
country     110077
date_added   1604
release_year  0
rating      1119
duration      3
description   0
cast         0
listed_in    0
dtype: int64
```

In [32]:

```
df_final.dropna(inplace=True)
```

In [33]:

```
df_final.isnull().sum()
```


Out[33]:

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

In [36]:

```
df_final.shape
```

Out[36]:

```
(962719, 12)
```

In [38]:

```
df_final.drop_duplicates(inplace=True)
```

In [31]:

```
df_final.nunique()
```

Out[31]:

```
show_id      8807
type         2
title        8807
director     4528
country      748
date_added   1767
release_year  74
rating       17
duration     220
description   8775
cast        36440
listed_in    42
dtype: int64
```

In [39]:

```
df_final.drop_duplicates()
```

Out[39]:

	show_id	type	title	director	country	date_added	release_year	rating	duration	description	cast	listed_in
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	September 25, 2021	2020	PG-13	90 min	As her father nears the end of his life, filmm...	nan	Documentaries
2389	s8	Movie	Sankofa	Haile Gerima	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas
2390	s8	Movie	Sankofa	Haile Gerima	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Independent Movies
2391	s8	Movie	Sankofa	Haile Gerima	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	International Movies
2413	s8	Movie	Sankofa	Haile Gerima	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Oyafunmike Ogunlano	Dramas
...
1559743	s8807	Movie	Zubaan	Mozez Singh	India	March 2, 2019	2015	TV-14	111 min	A scrappy but poor boy worms his way into a ty...	Anita Shabdish	International Movies
1559744	s8807	Movie	Zubaan	Mozez Singh	India	March 2, 2019	2015	TV-14	111 min	A scrappy but poor boy worms his way into a ty...	Anita Shabdish	Music & Musicals
1559766	s8807	Movie	Zubaan	Mozez Singh	India	March 2, 2019	2015	TV-14	111 min	A scrappy but poor boy worms his way into a ty...	Chittaranjan Tripathy	Dramas
1559767	s8807	Movie	Zubaan	Mozez Singh	India	March 2, 2019	2015	TV-14	111 min	A scrappy but poor boy worms his way into a ty...	Chittaranjan Tripathy	International Movies
1559768	s8807	Movie	Zubaan	Mozez Singh	India	March 2, 2019	2015	TV-14	111 min	A scrappy but poor boy worms his way into a ty...	Chittaranjan Tripathy	Music & Musicals

98660 rows × 12 columns

In [40]:

df_final.shape

Out[40]:

(98660, 12)

In []:

In []:

In []:

In [41]:

df_final["country"].value_counts()

Out[41]:

United States 28713
India 18844
United Kingdom 2385
Japan 2309
Nigeria 2124

...
United States, Uruguay 1
United States, Venezuela 1
Germany, United States, Sweden 1
United States, Denmark 1
United States, Brazil, Japan, Spain, India 1
Name: country, Length: 658, dtype: int64

In [42]:

country = df_final["country"].apply(lambda x: str(x).split(" ").tolist())

```
country = df_final[country].apply(lambda x: str(x).split(",")[0].strip())
country_new = pd.DataFrame(country,index=df_final["title"])
country_new=country_new.stack()
country_new=country_new.reset_index()
country_new
```

Out[42]:

	title	level_1	0
0	Dick Johnson Is Dead	0	United States
1	Sankofa	0	United States
2	Sankofa	1	Ghana
3	Sankofa	2	Burkina Faso
4	Sankofa	3	United Kingdom
...
129442	Zubaan	0	India
129443	Zubaan	0	India
129444	Zubaan	0	India
129445	Zubaan	0	India
129446	Zubaan	0	India

129447 rows x 3 columns

In [43]:

```
country_new.drop(columns="level_1",inplace=True)
```

In [44]:

```
country_new.head()
```

Out[44]:

	title	0
0	Dick Johnson Is Dead	United States
1	Sankofa	United States
2	Sankofa	Ghana
3	Sankofa	Burkina Faso
4	Sankofa	United Kingdom

In [45]:

```
country_new.columns=["title","country"]
```

In [46]:

```
country_new
```

Out[46]:

	title	country
0	Dick Johnson Is Dead	United States
1	Sankofa	United States
2	Sankofa	Ghana
3	Sankofa	Burkina Faso
4	Sankofa	United Kingdom
...
129442	Zubaan	India
129443	Zubaan	India
129444	Zubaan	India
129445	Zubaan	India
129446	Zubaan	India

129447 rows x 2 columns

In [47]:

country_new.shape

Out[47]:

(129447, 2)

In []:

In []:

In []:

In []:

In [48]:

final_data=df_final.drop(columns=["country"]).merge(country_new,on="title",how="left")

In [50]:

final_data.head()

Out[50]:

	show_id	type	title	director	date_added	release_year	rating	duration	description	cast	listed_in	country
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	September 25, 2021	2020	PG-13	90 min	As her father nears the end of his life, filmm...	nan	Documentaries	United States
1	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	United States
2	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	Ghana
3	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	Burkina Faso
4	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	United Kingdom

In [51]:

final_data.shape

Out[51]:

(3161293, 12)

In [52]:

final_data.isnull().sum()

Out[52]:

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

In [53]:

final_data.head()

Out[53]:

	show_id	type	title	director	date_added	release_year	rating	duration	description	cast	listed_in	country
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	September 25, 2021	2020	PG-13	90 min	As her father nears the end of his life, filmm...	nan	Documentaries	United States
1	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	United States
2	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	Ghana
3	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	Burkina Faso
4	s8	Movie	Sankofa	Haile Gerima	September 24, 2021	1993	TV-MA	125 min	On a photo shoot in Ghana, an American model s...	Kofi Ghanaba	Dramas	United Kingdom

In [54]:

final_data["type"].value_counts()

Out[54]:

Movie 3015506
TV Show 145787
Name: type, dtype: int64

In [56]:

final_data.nunique()

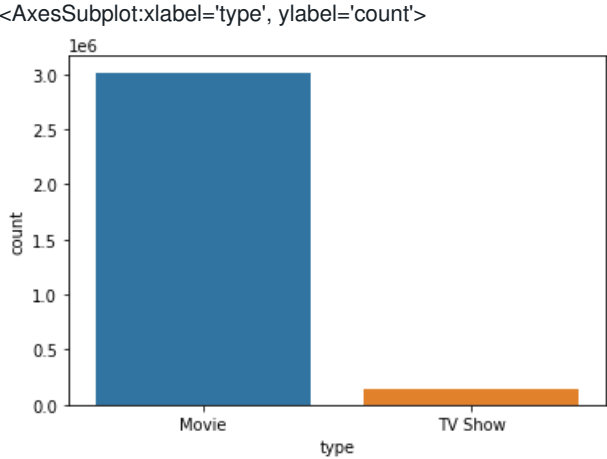
Out[56]:

show_id 5747
type 2
title 5747
director 4285
date_added 1516
release_year 73
rating 14
duration 204
description 5736
cast 25459
listed_in 42
country 122
dtype: int64

In [57]:

sns.countplot(x="type",data=final_data)

Out[57]:

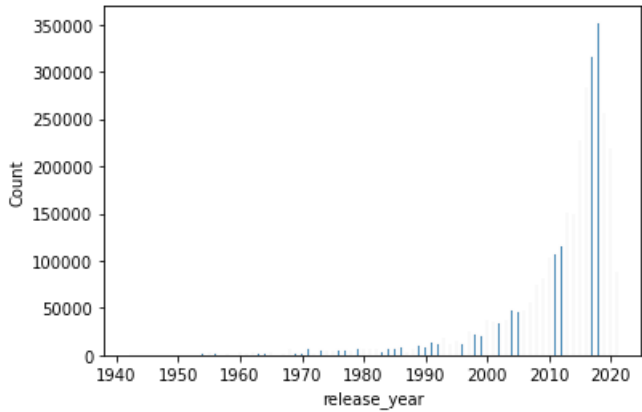


In [58]:

sns.histplot(data=final_data["release_year"])

Out[58]:

<AxesSubplot:xlabel='release_year', ylabel='Count'>

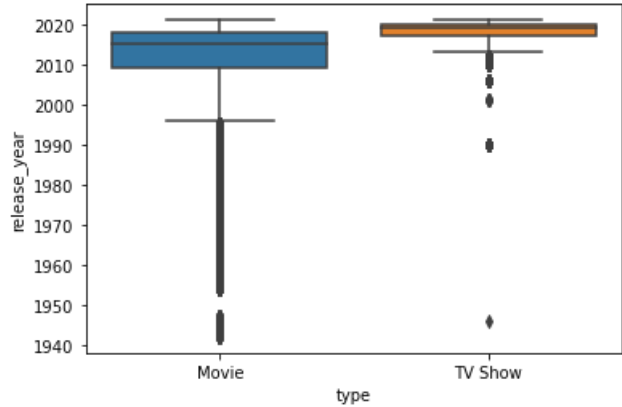


In [59]:

sns.boxplot(x="type",y="release_year",data=final_data)

Out[59]:

<AxesSubplot:xlabel='type', ylabel='release_year'>

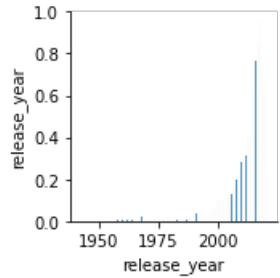


In [68]:

sns.pairplot(data=final_data)

Out[68]:

<seaborn.axisgrid.PairGrid at 0x7fc8a87a88e0>

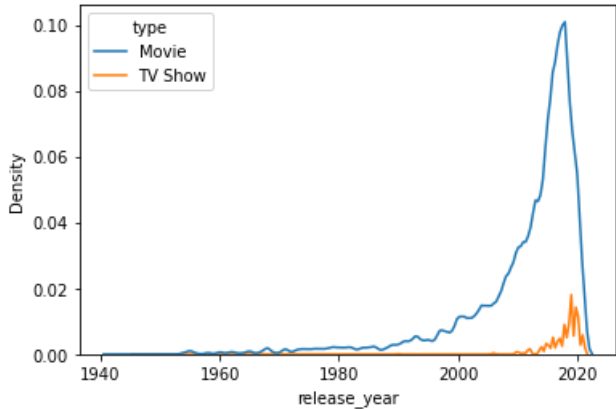


In [63]:

sns.kdeplot(x="release_year",hue="type",data=final_data)

Out[63]:

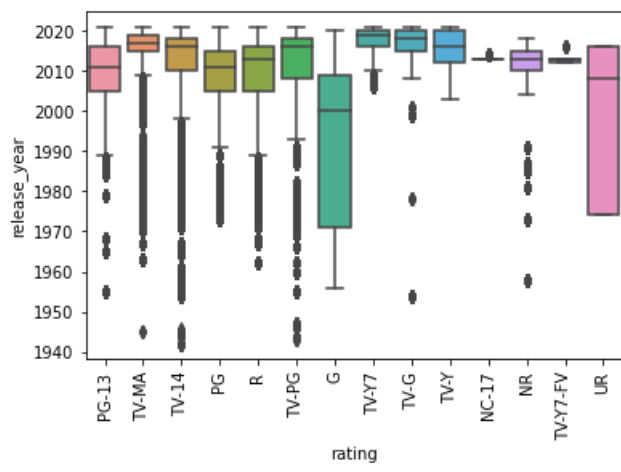
<AxesSubplot:xlabel='release_year', ylabel='Density'>



In [70]:

sns.boxplot(x="rating", y="release_year", data=final_data)
plt.xticks(rotation=90)

plt.show()



In []: