

# my-business-casestudy-netflix-1

March 28, 2024

```
[3]: # uploading the python libraries for analysis
```

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

```
[4]: # read the csv file in colab
```

```
df = pd.read_csv('netflix.csv')
df.head()
```

```
[4]: show_id    type    title    director \
0      s1      Movie    Dick Johnson Is Dead    Kirsten Johnson
1      s2  TV Show      Blood & Water          NaN
2      s3  TV Show      Ganglands    Julien Leclercq
3      s4  TV Show    Jailbirds New Orleans          NaN
4      s5  TV Show      Kota Factory          NaN

                                cast    country \
0                                NaN    United States
1    Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...    South Africa
2    Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...    NaN
3                                NaN    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 \
0                                Documentaries
1    International TV Shows, TV Dramas, TV Mysteries
2    Crime TV Shows, International TV Shows, TV Act...
3                                Docuseries, Reality TV
4    International TV Shows, Romantic TV Shows, TV ...
```

```

description
0 As her father nears the end of his life, filmm...
1 After crossing paths at a party, a Cape Town t...
2 To protect his family from a powerful drug lor...
3 Feuds, flirtations and toilet talk go down amo...
4 In a city of coaching centers known to train I...

```

```

[5]: # finding count of rows
len(df)

```

```

[5]: 8807

```

```

[6]: # chacking the data types of every columns value
df.dtypes

```

```

[6]: show_id      object
type           object
title          object
director       object
cast           object
country        object
date_added     object
release_year   int64
rating         object
duration       object
listed_in      object
description    object
dtype: object

```

```

[7]: # checking the numbers of unique values of every columns in the dataset
for i in df.columns:
    print(i,':',df[i].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

```

```
[8]: # checking the numbers of null values of every columns in our dataset
df.isnull().sum()
```

```
[8]: 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
```

```
[9]: # checking the occurance of each of the ratings
     # in this scenario, I can choose to remove the last 3 vales to make the series
     ↪homogeneous
df['rating'].value_counts()
```

```
[9]: TV-MA      3207
     TV-14     2160
     TV-PG     863
     R         799
     PG-13     490
     TV-Y7     334
     TV-Y      307
     PG        287
     TV-G      220
     NR        80
     G         41
     TV-Y7-FV   6
     NC-17      3
     UR         3
     74 min     1
     84 min     1
     66 min     1
     Name: rating, dtype: int64
```

## 0.1 Unnesting director column

```
[10]: df['director'].apply(lambda x: str(x).split(', '))
```

```
[10]: 0      [Kirsten Johnson]
      1      [nan]
      2      [Julien Leclercq]
      3      [nan]
      4      [nan]

      ...
      8802     [David Fincher]
      8803     [nan]
      8804     [Ruben Fleischer]
      8805     [Peter Hewitt]
      8806     [Mozez Singh]
      Name: director, Length: 8807, dtype: object
```

```
[11]: ko1 = df['director'].apply(lambda x: str(x).split(', ')).tolist()
      ko1
```

```
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      ['Julien Leclercq'],
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      ['Robert Cullen', 'José Luis Ucha'],
      ['Haile Gerima'],
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      ['Theodore Melfi'],
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      ['Dennis Dugan'],
      ['Scott Stewart'],
      ['Robert Luketic'],
      ['Ashwiny Iyer Tiwari', 'Abhishek Chaubey', 'Saket Chaudhary'],
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['Joe Penna'],  
...]

```
[12]: df_n1 = pd.DataFrame(ko1, index = df['title'])
df_n1
```

```
[12]:
```

	0	1	2	3	4	5	6	\
title								
Dick Johnson Is Dead	Kirsten Johnson	None	None	None	None	None	None	
Blood & Water	nan	None	None	None	None	None	None	
Ganglands	Julien Leclercq	None	None	None	None	None	None	
Jailbirds New Orleans	nan	None	None	None	None	None	None	
Kota Factory	nan	None	None	None	None	None	None	
...	...	...	...	...	...	...	...	
Zodiac	David Fincher	None	None	None	None	None	None	
Zombie Dumb	nan	None	None	None	None	None	None	
Zombieland	Ruben Fleischer	None	None	None	None	None	None	
Zoom	Peter Hewitt	None	None	None	None	None	None	
Zubaan	Mozes Singh	None	None	None	None	None	None	

	7	8	9	10	11	12
title						
Dick Johnson Is Dead	None	None	None	None	None	None
Blood & Water	None	None	None	None	None	None
Ganglands	None	None	None	None	None	None
Jailbirds New Orleans	None	None	None	None	None	None
Kota Factory	None	None	None	None	None	None
...	...	...	...	...	...	...
Zodiac	None	None	None	None	None	None
Zombie Dumb	None	None	None	None	None	None
Zombieland	None	None	None	None	None	None
Zoom	None	None	None	None	None	None
Zubaan	None	None	None	None	None	None

[8807 rows x 13 columns]

```
[13]: ## unnesting the directors column, creating separate lines for each director
      ↪ for a movie
df_n1 = df_n1.stack()
df_n1
```

```
[13]: title
Dick Johnson Is Dead    0    Kirsten Johnson
Blood & Water           0              nan
Ganglands              0    Julien Leclercq
Jailbirds New Orleans  0              nan
Kota Factory           0              nan

...
Zodiac                 0    David Fincher
Zombie Dumb           0              nan
```

```
Zombieland          0    Ruben Fleischer
Zoom                0      Peter Hewitt
Zubaan              0      Mozez Singh
Length: 9612, dtype: object
```

```
[15]: df_n1= pd.DataFrame(df_n1.reset_index())
df_n1
```

```
[15]:
```

	index	title	level_1		0
0	0	Dick Johnson Is Dead	0	Kirsten Johnson	
1	1	Blood & Water	0		nan
2	2	Ganglands	0	Julien Leclercq	
3	3	Jailbirds New Orleans	0		nan
4	4	Kota Factory	0		nan
...	...	...	...	...	...
9607	9607	Zodiac	0	David Fincher	
9608	9608	Zombie Dumb	0		nan
9609	9609	Zombieland	0	Ruben Fleischer	
9610	9610	Zoom	0	Peter Hewitt	
9611	9611	Zubaan	0	Mozez Singh	

[9612 rows x 4 columns]

```
[16]: df_n1.rename(columns={0:'directors'}, inplace = True)
df_n1
```

```
[16]:
```

	index	title	level_1	directors
0	0	Dick Johnson Is Dead	0	Kirsten Johnson
1	1	Blood & Water	0	nan
2	2	Ganglands	0	Julien Leclercq
3	3	Jailbirds New Orleans	0	nan
4	4	Kota Factory	0	nan
...	...	...	...	...
9607	9607	Zodiac	0	David Fincher
9608	9608	Zombie Dumb	0	nan
9609	9609	Zombieland	0	Ruben Fleischer
9610	9610	Zoom	0	Peter Hewitt
9611	9611	Zubaan	0	Mozez Singh

[9612 rows x 4 columns]

```
[17]: df_n1.drop(['level_1'], axis = 1, inplace = True)
df_n1
```

```
[17]:
```

	index	title	directors
0	0	Dick Johnson Is Dead	Kirsten Johnson
1	1	Blood & Water	nan

2	2	Ganglands	Julien Leclercq
3	3	Jailbirds New Orleans	nan
4	4	Kota Factory	nan
...	...	...	...
9607	9607	Zodiac	David Fincher
9608	9608	Zombie Dumb	nan
9609	9609	Zombieland	Ruben Fleischer
9610	9610	Zoom	Peter Hewitt
9611	9611	Zubaan	Mozez Singh

[9612 rows x 3 columns]

## 0.2 unnesting cast column

```
[18]: ## unnesting the cast column, creating separate lines for each cast member for
      ↳ a movie
      ko2=df['cast'].apply(lambda x: str(x).split(',')).tolist()
      ko2
```

```
[18]: [['nan'],
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      'Gail Mabalane',
      'Thabang Molaba',
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      'Natasha Thahane',
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      'Xolile Tshabalala',
      'Getmore Sithole',
      'Cindy Mahlangu',
      'Ryle De Morny',
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      'Sello Maake Ka-Ncube',
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 'Abhicha Thanachanun',  
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 'Kittipong Khamsat',  
 'Arisara Wongchalee',  
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 'Julie Tejwani',  
 'Rupa Bhimani',



title			
Dick Johnson Is Dead	None	None	None
Blood & Water	Thabang Molaba	Dillon Windvogel	Natasha Thahane
Ganglands	Nabiha Akkari	Sofia Lesaffre	Salim Kechiouche
Jailbirds New Orleans	None	None	None
Kota Factory	Alam Khan	Ahsaas Channa	Revathi Pillai

6 7 \

title		
Dick Johnson Is Dead	None	None
Blood & Water	Arno Greeff	Xolile Tshabalala
Ganglands	Noureddine Farihi	Geert Van Rampelberg
Jailbirds New Orleans	None	None
Kota Factory	Urvi Singh	Arun Kumar

8 9 ... 40 41 42 \

title						
Dick Johnson Is Dead	None	None	...	None	None	None
Blood & Water	Getmore Sithole	Cindy Mahlangu	...	None	None	None
Ganglands	Bakary Diombera	None	...	None	None	None
Jailbirds New Orleans	None	None	...	None	None	None
Kota Factory	None	None	...	None	None	None

43 44 45 46 47 48 49

title							
Dick Johnson Is Dead	None	None	None	None	None	None	None
Blood & Water	None	None	None	None	None	None	None
Ganglands	None	None	None	None	None	None	None
Jailbirds New Orleans	None	None	None	None	None	None	None
Kota Factory	None	None	None	None	None	None	None

[5 rows x 50 columns]

```
[20]: df_n2 = df_n2.stack()
df_n2
```

```
[20]: title
Dick Johnson Is Dead 0 nan
Blood & Water 0 Ama Qamata
1 Khosi Ngema
2 Gail Mabalane
3 Thabang Molaba
...
Zubaan 3 Manish Chaudhary
4 Meghna Malik
5 Malkeet Rauni
6 Anita Shabdish
```

7 Chittaranjan Tripathy  
Length: 64951, dtype: object

```
[21]: df_n2= pd.DataFrame(df_n2.reset_index())
df_n2
```

```
[21]:
```

	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 x 3 columns]

```
[22]: df_n2.rename(columns={0:'actors'}, inplace= True)
df_n2
```

```
[22]:
```

	title	level_1	actors
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 x 3 columns]

```
[23]: df_n2.drop(['level_1'], axis = 1, inplace = True)
df_n2
```

```
[23]:
```

	title	actors
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 x 2 columns]

### 0.3 unnesting the listed\_in

```
[24]: df.head()
```

```
[24]:  show_id    type          title    director \
0      s1    Movie  Dick Johnson Is Dead  Kirsten Johnson
1      s2  TV Show      Blood & Water          NaN
2      s3  TV Show      Ganglands  Julien Leclercq
3      s4  TV Show  Jailbirds New Orleans          NaN
4      s5  TV Show      Kota Factory          NaN

                                cast    country \
0                                NaN  United States
1  Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...  South Africa
2  Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...    NaN
3                                NaN    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 \
0                                Documentaries
1  International TV Shows, TV Dramas, TV Mysteries
2  Crime TV Shows, International TV Shows, TV Act...
3                                Docuseries, Reality TV
4  International TV Shows, Romantic TV Shows, TV ...

                                description
0  As her father nears the end of his life, filmm...
1  After crossing paths at a party, a Cape Town t...
2  To protect his family from a powerful drug lor...
3  Feuds, flirtations and toilet talk go down amo...
```

4 In a city of coaching centers known to train I...

```
[25]: #unnesting the listed_in column, i.e- creating separate lines for each genre in a movie
```

```
ko3 = df['listed_in'].apply(lambda x: str(x).split(',')).tolist()
ko3
```

```
[25]: [['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'],
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      ['Dramas', 'International Movies'],
      ['Children & Family Movies', 'Comedies'],
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      ['TV Comedies', 'TV Dramas'],
      ['Documentaries', 'International Movies'],
      ['Crime TV Shows', 'Spanish-Language TV Shows', 'TV Dramas'],
      ['Thrillers'],
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       'Spanish-Language TV Shows',
       'TV Action & Adventure'],
      ['Crime TV Shows', 'Docuseries', 'International TV Shows'],
      ['International TV Shows', 'TV Action & Adventure', 'TV Dramas'],
      ['Comedies', 'International Movies'],
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      ['Docuseries', 'International TV Shows', 'Reality TV'],
      ['Comedies', 'International Movies', 'Music & Musicals'],
      ['Comedies'],
      ['Horror Movies', 'Sci-Fi & Fantasy'],
      ['Thrillers'],
      ['Dramas', 'Independent Movies', 'International Movies'],
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      ['British TV Shows', 'International TV Shows', 'TV Comedies'],
      ['International TV Shows', 'TV Dramas', 'TV Thrillers'],
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      ['Dramas', 'International Movies', 'Thrillers'],
      ['Action & Adventure', 'Dramas', 'International Movies'],
      ["Kids' TV", 'TV Comedies'],
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...]
```

```

[26]: # convert to dataframe
df_n3 = pd.DataFrame(ko3 , index=df['title'])
df_n3
```

```

[26]:
```

	0	1	\
title			
Dick Johnson Is Dead	Documentaries		None
Blood & Water	International TV Shows		TV Dramas
Ganglands	Crime TV Shows	International TV Shows	
Jailbirds New Orleans	Docuseries		Reality TV
Kota Factory	International TV Shows	Romantic TV Shows	
...	...		...
Zodiac	Cult Movies		Dramas
Zombie Dumb	Kids' TV	Korean TV Shows	
Zombieland	Comedies	Horror Movies	
Zoom	Children & Family Movies	Comedies	
Zubaan	Dramas	International Movies	

```

title
Dick Johnson Is Dead      None
Blood & Water             TV Mysteries
Ganglands                TV Action & Adventure
Jailbirds New Orleans     None
Kota Factory              TV Comedies
...
Zodiac                   Thrillers
Zombie Dumb              TV Comedies
Zombieland               None
Zoom                     None
Zubaan                   Music & Musicals

```

[8807 rows x 3 columns]

```
[27]: df_n3 = df_n3.stack()
df_n3
```

```
[27]: title
Dick Johnson Is Dead  0      Documentaries
Blood & Water        0      International TV Shows
                   1      TV Dramas
                   2      TV Mysteries
Ganglands            0      Crime TV Shows
...
Zoom                 0      Children & Family Movies
                   1      Comedies
Zubaan               0      Dramas
                   1      International Movies
                   2      Music & Musicals
Length: 19323, dtype: object
```

```
[28]: df_n3= pd.DataFrame(df_n3.reset_index())
df_n3
```

```
[28]:
   title  level_1
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      Ganglands       0      Crime TV Shows
...
19318  Zoom           0      Children & Family Movies
19319  Zoom           1      Comedies
19320  Zubaan         0      Dramas
19321  Zubaan         1      International Movies
19322  Zubaan         2      Music & Musicals

```

[19323 rows x 3 columns]

```
[29]: df_n3.rename(columns={0: 'genre'}, inplace = True)
df_n3
```

```
[29]:
```

	title	level_1	genre
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	Ganglands	0	Crime TV Shows
...	...	...	...
19318	Zoom	0	Children & Family Movies
19319	Zoom	1	Comedies
19320	Zubaan	0	Dramas
19321	Zubaan	1	International Movies
19322	Zubaan	2	Music & Musicals

[19323 rows x 3 columns]

```
[30]: df_n3.drop(['level_1'], axis= 1, inplace = True)
df_n3
```

```
[30]:
```

	title	genre
0	Dick Johnson Is Dead	Documentaries
1	Blood & Water	International TV Shows
2	Blood & Water	TV Dramas
3	Blood & Water	TV Mysteries
4	Ganglands	Crime TV Shows
...	...	...
19318	Zoom	Children & Family Movies
19319	Zoom	Comedies
19320	Zubaan	Dramas
19321	Zubaan	International Movies
19322	Zubaan	Music & Musicals

[19323 rows x 2 columns]

## 0.4 unnesting country column

```
[31]: df.head()
```

```
[31]:
```

	show_id	type	title	director \
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson
1	s2	TV Show	Blood & Water	NaN
2	s3	TV Show	Ganglands	Julien Leclercq

```

3      s4  TV Show  Jailbirds New Orleans          NaN
4      s5  TV Show          Kota Factory          NaN

                                cast          country \
0                                NaN  United States
1  Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...  South Africa
2  Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...      NaN
3                                NaN          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 \
0                                Documentaries
1  International TV Shows, TV Dramas, TV Mysteries
2  Crime TV Shows, International TV Shows, TV Act...
3                                Docuseries, Reality TV
4  International TV Shows, Romantic TV Shows, TV ...

                                description
0  As her father nears the end of his life, filmm...
1  After crossing paths at a party, a Cape Town t...
2  To protect his family from a powerful drug lor...
3  Feuds, flirtations and toilet talk go down amo...
4  In a city of coaching centers known to train I...

```

## 0.5 unnesting country column

```
[32]: ko4 = df['country'].apply(lambda x: str(x).split(', ')).tolist()
ko4
```

```
[32]: [['United States'],
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...]

```

```
[33]: df_n4 = pd.DataFrame(ko4, index = df['title'])
df_n4
```

```
[33]:
```

	0	1	2	3	4	5	6	\
title								
Dick Johnson Is Dead	United States	None	None	None	None	None	None	
Blood & Water	South Africa	None	None	None	None	None	None	
Ganglands	nan	None	None	None	None	None	None	
Jailbirds New Orleans	nan	None	None	None	None	None	None	
Kota Factory	India	None	None	None	None	None	None	
...	...	...	...	...	...	...	...	
Zodiac	United States	None	None	None	None	None	None	
Zombie Dumb	nan	None	None	None	None	None	None	
Zombieland	United States	None	None	None	None	None	None	
Zoom	United States	None	None	None	None	None	None	
Zubaan	India	None	None	None	None	None	None	

	7	8	9	10	11
title					
Dick Johnson Is Dead	None	None	None	None	None
Blood & Water	None	None	None	None	None
Ganglands	None	None	None	None	None
Jailbirds New Orleans	None	None	None	None	None
Kota Factory	None	None	None	None	None
...	...	...	...	...	...
Zodiac	None	None	None	None	None
Zombie Dumb	None	None	None	None	None
Zombieland	None	None	None	None	None
Zoom	None	None	None	None	None
Zubaan	None	None	None	None	None

[8807 rows x 12 columns]

```
[34]: df_n4 = df_n4.stack()
df_n4
```

```
[34]: title
Dick Johnson Is Dead    0    United States
```

Blood & Water	0	South Africa
Ganglands	0	nan
Jailbirds New Orleans	0	nan
Kota Factory	0	India
...		
Zodiac	0	United States
Zombie Dumb	0	nan
Zombieland	0	United States
Zoom	0	United States
Zubaan	0	India

Length: 10845, dtype: object

```
[35]: df_n4 = pd.DataFrame(df_n4.reset_index())
df_n4
```

```
[35]:
```

	title	level_1	0
0	Dick Johnson Is Dead	0	United States
1	Blood & Water	0	South Africa
2	Ganglands	0	nan
3	Jailbirds New Orleans	0	nan
4	Kota Factory	0	India
...	...	...	...
10840	Zodiac	0	United States
10841	Zombie Dumb	0	nan
10842	Zombieland	0	United States
10843	Zoom	0	United States
10844	Zubaan	0	India

[10845 rows x 3 columns]

```
[36]: df_n4.rename(columns= {0:'country'}, inplace = True)
```

```
[37]: df_n4
```

```
[37]:
```

	title	level_1	country
0	Dick Johnson Is Dead	0	United States
1	Blood & Water	0	South Africa
2	Ganglands	0	nan
3	Jailbirds New Orleans	0	nan
4	Kota Factory	0	India
...	...	...	...
10840	Zodiac	0	United States
10841	Zombie Dumb	0	nan
10842	Zombieland	0	United States
10843	Zoom	0	United States
10844	Zubaan	0	India

[10845 rows x 3 columns]

```
[38]: df_n4.drop(['level_1'], axis = 1, inplace = True)
```

```
[39]: df_n4
```

```
[39]:
```

	title	country
0	Dick Johnson Is Dead	United States
1	Blood & Water	South Africa
2	Ganglands	nan
3	Jailbirds New Orleans	nan
4	Kota Factory	India
...	...	...
10840	Zodiac	United States
10841	Zombie Dumb	nan
10842	Zombieland	United States
10843	Zoom	United States
10844	Zubaan	India

[10845 rows x 2 columns]

## 0.6 Merging all un-nested columns

```
[40]: # merging the unnested actor data with the unnested director data
n1_df = df_n2.merge(df_n1, left_on = 'title', right_on = 'title')
n1_df
```

```
[40]:
```

	title	actors	index	directors
0	Dick Johnson Is Dead	nan	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	nan
2	Blood & Water	Khosi Ngema	1	nan
3	Blood & Water	Gail Mabalane	1	nan
4	Blood & Water	Thabang Molaba	1	nan
...	...	...	...	...
70807	Zubaan	Manish Chaudhary	9611	Mozez Singh
70808	Zubaan	Meghna Malik	9611	Mozez Singh
70809	Zubaan	Malkeet Rauni	9611	Mozez Singh
70810	Zubaan	Anita Shabdish	9611	Mozez Singh
70811	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh

[70812 rows x 4 columns]

```
[41]: # merging above merge datta with the unnested genre data
n2_df = n1_df.merge(df_n3, on = 'title')
n2_df
```

```
[41]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	nan	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	nan
2	Blood & Water	Ama Qamata	1	nan
3	Blood & Water	Ama Qamata	1	nan
4	Blood & Water	Khosi Ngema	1	nan
...	...	...	...	...
161211	Zubaan	Anita Shabdish	9611	Mozez Singh
161212	Zubaan	Anita Shabdish	9611	Mozez Singh
161213	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
161214	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
161215	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh

```

genre
0      Documentaries
1  International TV Shows
2      TV Dramas
3      TV Mysteries
4  International TV Shows
...
161211  International Movies
161212      Music & Musicals
161213      Dramas
161214  International Movies
161215      Music & Musicals

```

[161216 rows x 5 columns]

```
[42]: # merging above data with unnested country data
new_df = n2_df.merge(df_n4, on = 'title')
new_df
```

```
[42]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	nan	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	nan
2	Blood & Water	Ama Qamata	1	nan
3	Blood & Water	Ama Qamata	1	nan
4	Blood & Water	Khosi Ngema	1	nan
...	...	...	...	...
201986	Zubaan	Anita Shabdish	9611	Mozez Singh
201987	Zubaan	Anita Shabdish	9611	Mozez Singh
201988	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201989	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201990	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh

	genre	country
0	Documentaries	United States



1	International TV Shows	South Africa
2	TV Dramas	South Africa
3	TV Mysteries	South Africa
4	International TV Shows	South Africa
...	...	...
201986	International Movies	India
201987	Music & Musicals	India
201988	Dramas	India
201989	International Movies	India
201990	Music & Musicals	India

[201991 rows x 6 columns]

## 0.7 replacing nan values

```
[43]: # replacing nan values of actors with 'unknown actor'
new_df['actors'].replace(['nan'], ['unknown actor'], inplace = True)
new_df
```

```
[43]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	nan
2	Blood & Water	Ama Qamata	1	nan
3	Blood & Water	Ama Qamata	1	nan
4	Blood & Water	Khosi Ngema	1	nan
...	...	...	...	...
201986	Zubaan	Anita Shabdish	9611	Mozez Singh
201987	Zubaan	Anita Shabdish	9611	Mozez Singh
201988	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201989	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201990	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh

	genre	country
0	Documentaries	United States
1	International TV Shows	South Africa
2	TV Dramas	South Africa
3	TV Mysteries	South Africa
4	International TV Shows	South Africa
...	...	...
201986	International Movies	India
201987	Music & Musicals	India
201988	Dramas	India
201989	International Movies	India
201990	Music & Musicals	India

[201991 rows x 6 columns]

```
[44]: # replacing nan values of directors with 'unknown actor'
new_df['directors'].replace(['nan'], ['unknown directors'], inplace = True)
new_df
```

```
[44]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	unknown directors
2	Blood & Water	Ama Qamata	1	unknown directors
3	Blood & Water	Ama Qamata	1	unknown directors
4	Blood & Water	Khosi Ngema	1	unknown directors
...	...	...	...	...
201986	Zubaan	Anita Shabdish	9611	Mozez Singh
201987	Zubaan	Anita Shabdish	9611	Mozez Singh
201988	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201989	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh
201990	Zubaan	Chittaranjan Tripathy	9611	Mozez Singh

	genre	country
0	Documentaries	United States
1	International TV Shows	South Africa
2	TV Dramas	South Africa
3	TV Mysteries	South Africa
4	International TV Shows	South Africa
...	...	...
201986	International Movies	India
201987	Music & Musicals	India
201988	Dramas	India
201989	International Movies	India
201990	Music & Musicals	India

[201991 rows x 6 columns]

```
[45]: new_df['country'].replace(['nan'], [np.nan], inplace = True)
```

```
[46]: new_df.head()
```

```
[46]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	unknown directors
2	Blood & Water	Ama Qamata	1	unknown directors
3	Blood & Water	Ama Qamata	1	unknown directors
4	Blood & Water	Khosi Ngema	1	unknown directors

	genre	country
0	Documentaries	United States
1	International TV Shows	South Africa
2	TV Dramas	South Africa

```

3           TV Mysteries      South Africa
4 International TV Shows      South Africa

```

```
[47]: df.head()
```

```

[47]:  show_id      type      title      director \
0      s1      Movie  Dick Johnson Is Dead  Kirsten Johnson
1      s2  TV Show      Blood & Water      NaN
2      s3  TV Show      Ganglands  Julien Leclercq
3      s4  TV Show  Jailbirds New Orleans      NaN
4      s5  TV Show      Kota Factory      NaN

      cast      country \
0      NaN  United States
1  Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...  South Africa
2  Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...      NaN
3      NaN      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 \
0      Documentaries
1  International TV Shows, TV Dramas, TV Mysteries
2  Crime TV Shows, International TV Shows, TV Act...
3      Docuseries, Reality TV
4  International TV Shows, Romantic TV Shows, TV ...

      description
0  As her father nears the end of his life, filmm...
1  After crossing paths at a party, a Cape Town t...
2  To protect his family from a powerful drug lor...
3  Feuds, flirtations and toilet talk go down amo...
4  In a city of coaching centers known to train I...

```

## 0.8 merging the new data with the original data

```

[48]: final_df = new_df.
      ↪merge(df[['show_id','type','title','date_added','release_year','rating'],
      ↪'duration']], on = 'title', how = 'left')
final_df

```

```
[48]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	unknown directors
2	Blood & Water	Ama Qamata	1	unknown directors
3	Blood & Water	Ama Qamata	1	unknown directors
4	Blood & Water	Khosi Ngema	1	unknown directors
...	...	...	...	...
201986	Zubaan	Anita Shabdish	9611	Mozes Singh
201987	Zubaan	Anita Shabdish	9611	Mozes Singh
201988	Zubaan	Chittaranjan Tripathy	9611	Mozes Singh
201989	Zubaan	Chittaranjan Tripathy	9611	Mozes Singh
201990	Zubaan	Chittaranjan Tripathy	9611	Mozes Singh

	genre	country	show_id	type \
0	Documentaries	United States	s1	Movie
1	International TV Shows	South Africa	s2	TV Show
2	TV Dramas	South Africa	s2	TV Show
3	TV Mysteries	South Africa	s2	TV Show
4	International TV Shows	South Africa	s2	TV Show
...	...	...	...	...
201986	International Movies	India	s8807	Movie
201987	Music & Musicals	India	s8807	Movie
201988	Dramas	India	s8807	Movie
201989	International Movies	India	s8807	Movie
201990	Music & Musicals	India	s8807	Movie

	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	2 Seasons
3	September 24, 2021	2021	TV-MA	2 Seasons
4	September 24, 2021	2021	TV-MA	2 Seasons
...	...	...	...	...
201986	March 2, 2019	2015	TV-14	111 min
201987	March 2, 2019	2015	TV-14	111 min
201988	March 2, 2019	2015	TV-14	111 min
201989	March 2, 2019	2015	TV-14	111 min
201990	March 2, 2019	2015	TV-14	111 min

[201991 rows x 12 columns]

```
[49]: # now checking the null of the final data
final_df.isnull().sum()
```

```
[49]: title      0
actors    0
index     0
```

```

directors      0
genre          0
country       11897
show_id        0
type           0
date_added     158
release_year    0
rating         67
duration        3
dtype: int64

```

In duration column, we can't expect ratings to be in min. So the duration column nulls are replaced by corresponding values in ratings column

```
[50]: final_df.loc[final_df['duration'].isnull(), 'duration']
```

```

[50]: 126537    NaN
      131603    NaN
      131737    NaN
      Name: duration, dtype: object

```

```
[51]: final_df.loc[final_df['duration'].isnull(), 'duration'].
      ↪fillna(final_df['rating'])
```

```

[51]: 126537    74 min
      131603    84 min
      131737    66 min
      Name: duration, dtype: object

```

```
[52]: final_df.loc[final_df['duration'].isnull(), 'duration'] = final_df.
      ↪loc[final_df['duration'].isnull(), 'duration'].fillna(final_df['rating'])
```

```
[53]: #Ratings can't be in min, so it has been made NR
      final_df.loc[final_df['rating'].str.contains('min', na=False), 'rating'] = 'NR'
```

```
[54]: final_df['rating'].fillna('NR', inplace = True)
```

```
[55]: final_df['rating'].isnull().sum()
```

```
[55]: 0
```

```
[56]: # checking if there are any nan value in the whole final data set
      final_df.isnull().sum()
```

```

[56]: title          0
      actors         0
      index          0

```

```

directors      0
genre          0
country       11897
show_id        0
type           0
date_added     158
release_year   0
rating         0
duration       0
dtype: int64

```

```

[57]: #checking nulls in date_added column
final_df[final_df['date_added'].isnull()].head()

```

```

[57]:
           title      actors  index \
136893  A Young Doctor's Notebook and Other Stories  Daniel Radcliffe  6559
136894  A Young Doctor's Notebook and Other Stories  Daniel Radcliffe  6559
136895  A Young Doctor's Notebook and Other Stories  Daniel Radcliffe  6559
136896  A Young Doctor's Notebook and Other Stories      Jon Hamm  6559
136897  A Young Doctor's Notebook and Other Stories      Jon Hamm  6559

           directors      genre      country show_id      type \
136893  unknown directors  British TV Shows  United Kingdom  s6067  TV Show
136894  unknown directors      TV Comedies  United Kingdom  s6067  TV Show
136895  unknown directors      TV Dramas   United Kingdom  s6067  TV Show
136896  unknown directors  British TV Shows  United Kingdom  s6067  TV Show
136897  unknown directors      TV Comedies  United Kingdom  s6067  TV Show

           date_added  release_year  rating  duration
136893           NaN           2013  TV-MA  2 Seasons
136894           NaN           2013  TV-MA  2 Seasons
136895           NaN           2013  TV-MA  2 Seasons
136896           NaN           2013  TV-MA  2 Seasons
136897           NaN           2013  TV-MA  2 Seasons

```

```

[58]: # this code fills in missing values in the 'date_added' column based on the
      ↪mode(most frequent value) value of 'date_added' for each unique
      ↪'release_year'

for i in final_df[final_df['date_added'].isnull()]['release_year'].unique():
    a = final_df[final_df['release_year']==i]['date_added'].mode().values[0]

    final_df.loc[final_df['release_year']==i,'date_added']=final_df.
    ↪loc[final_df['release_year']==i,'date_added'].fillna(a)

```

```

[59]: '''

```

```

for each unique 'directors' value where 'country' is null, filling missing_
↳ values in 'country'
based on the mode value of 'country' for each unique 'directors'
'''
for i in final_df[final_df['country'].isnull()]['directors'].unique():
    if i in final_df[~final_df['country'].isnull()]['directors'].unique():
        imp=final_df[final_df['directors']==i]['country'].mode().values[0]
        final_df.loc[final_df['directors']==i,'country']=final_df.
        ↳loc[final_df['directors']==i,'country'].fillna(imp)

```

```

[60]: # checking if there are any nan value in the whole final data set
final_df.isnull().sum()

```

```

[60]: title                0
actors                   0
index                   0
directors                0
genre                   0
country                 4276
show_id                 0
type                   0
date_added              0
release_year            0
rating                  0
duration                0
dtype: int64

```

```

[61]: '''
for each unique 'Actors' value where 'country' is null,
filling missing values in 'country' based on the mode(most frequent value)_
↳ value of 'country' for each unique 'Actors'
'''
for i in final_df[final_df['country'].isnull()]['actors'].unique():
    if i in final_df[~final_df['country'].isnull()]['actors'].unique():
        imp=final_df[final_df['actors']==i]['country'].mode().values[0]
        final_df.loc[final_df['actors']==i,'country']=final_df.
        ↳loc[final_df['actors']==i,'country'].fillna(imp)

```

```

[62]: #If there are still nulls, I just replace it by Unknown Country
final_df['country'].fillna('unknown country',inplace=True)

```

```

[63]: final_df.isnull().sum()

```

```

[63]: title                0
actors                   0
index                   0
directors                0

```

```

genre          0
country        0
show_id        0
type           0
date_added     0
release_year   0
rating         0
duration       0
dtype: int64

```

```
[64]: final_df.head()
```

```

[64]:          title      actors  index      directors \
0  Dick Johnson Is Dead  unknown actor      0  Kirsten Johnson
1      Blood & Water      Ama Qamata      1  unknown directors
2      Blood & Water      Ama Qamata      1  unknown directors
3      Blood & Water      Ama Qamata      1  unknown directors
4      Blood & Water  Khosi Ngema      1  unknown directors

          genre      country show_id      type      date_added \
0  Documentaries  United States      s1  Movie  September 25, 2021
1  International TV Shows  South Africa      s2  TV Show  September 24, 2021
2      TV Dramas  South Africa      s2  TV Show  September 24, 2021
3  TV Mysteries  South Africa      s2  TV Show  September 24, 2021
4  International TV Shows  South Africa      s2  TV Show  September 24, 2021

  release_year rating  duration
0          2020  PG-13    90 min
1          2021  TV-MA  2 Seasons
2          2021  TV-MA  2 Seasons
3          2021  TV-MA  2 Seasons
4          2021  TV-MA  2 Seasons

```

```
[65]: final_df['duration'].value_counts()
```

```

[65]: 1 Season      35035
      2 Seasons    9559
      3 Seasons    5084
      94 min      4343
      106 min     4040
      ...
      3 min        4
      5 min        3
      11 min       2
      8 min        2
      9 min        2
      Name: duration, Length: 220, dtype: int64

```



```
[66]: #removing mins from data  
final_df['duration'].str.replace(' min','')
```

```
[66]: 0          90  
      1      2 Seasons  
      2      2 Seasons  
      3      2 Seasons  
      4      2 Seasons  
      ...  
201986      111  
201987      111  
201988      111  
201989      111  
201990      111  
Name: duration, Length: 201991, dtype: object
```

```
[67]: final_df['duration'] = final_df['duration'].str.replace(' min','')
```

```
[68]: final_df['duration'].unique()
```

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

```
[69]: final_df['copy_duration'] = final_df['duration'].copy()
```

```
[70]: ## copping the final data set
final_df2 = final_df.copy()
```

```
[71]: final_df2.head()
```

```
[71]:
```

		title	actors	index	directors	\
0	Dick Johnson	Is Dead	unknown actor	0	Kirsten Johnson	
1		Blood & Water	Ama Qamata	1	unknown directors	
2		Blood & Water	Ama Qamata	1	unknown directors	
3		Blood & Water	Ama Qamata	1	unknown directors	
4		Blood & Water	Khosi Ngema	1	unknown directors	

		genre	country	show_id	type	date_added	\
0		Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows		South Africa	s2	TV Show	September 24, 2021	
2		TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3		TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows		South Africa	s2	TV Show	September 24, 2021	

	release_year	rating	duration	copy_duration
0	2020	PG-13	90	90
1	2021	TV-MA	2 Seasons	2 Seasons
2	2021	TV-MA	2 Seasons	2 Seasons
3	2021	TV-MA	2 Seasons	2 Seasons
4	2021	TV-MA	2 Seasons	2 Seasons

```
[72]: final_df2.loc[final_df2['copy_duration'].str.
        ↪contains('Season'),'copy_duration']=0
```

```
[73]: final_df2['copy_duration']=final_df2['copy_duration'].astype('int')
```

```
[74]: final_df2.head()
```

```
[74]:
```

		title	actors	index	directors	\
0	Dick Johnson	Is Dead	unknown actor	0	Kirsten Johnson	
1		Blood & Water	Ama Qamata	1	unknown directors	
2		Blood & Water	Ama Qamata	1	unknown directors	
3		Blood & Water	Ama Qamata	1	unknown directors	
4		Blood & Water	Khosi Ngema	1	unknown directors	

		genre	country	show_id	type	date_added	\
0		Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows		South Africa	s2	TV Show	September 24, 2021	
2		TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3		TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows		South Africa	s2	TV Show	September 24, 2021	

	release_year	rating	duration	copy_duration
0	2020	PG-13	90	90
1	2021	TV-MA	2 Seasons	0
2	2021	TV-MA	2 Seasons	0
3	2021	TV-MA	2 Seasons	0
4	2021	TV-MA	2 Seasons	0

```
[75]: final_df2['copy_duration'].describe()
```

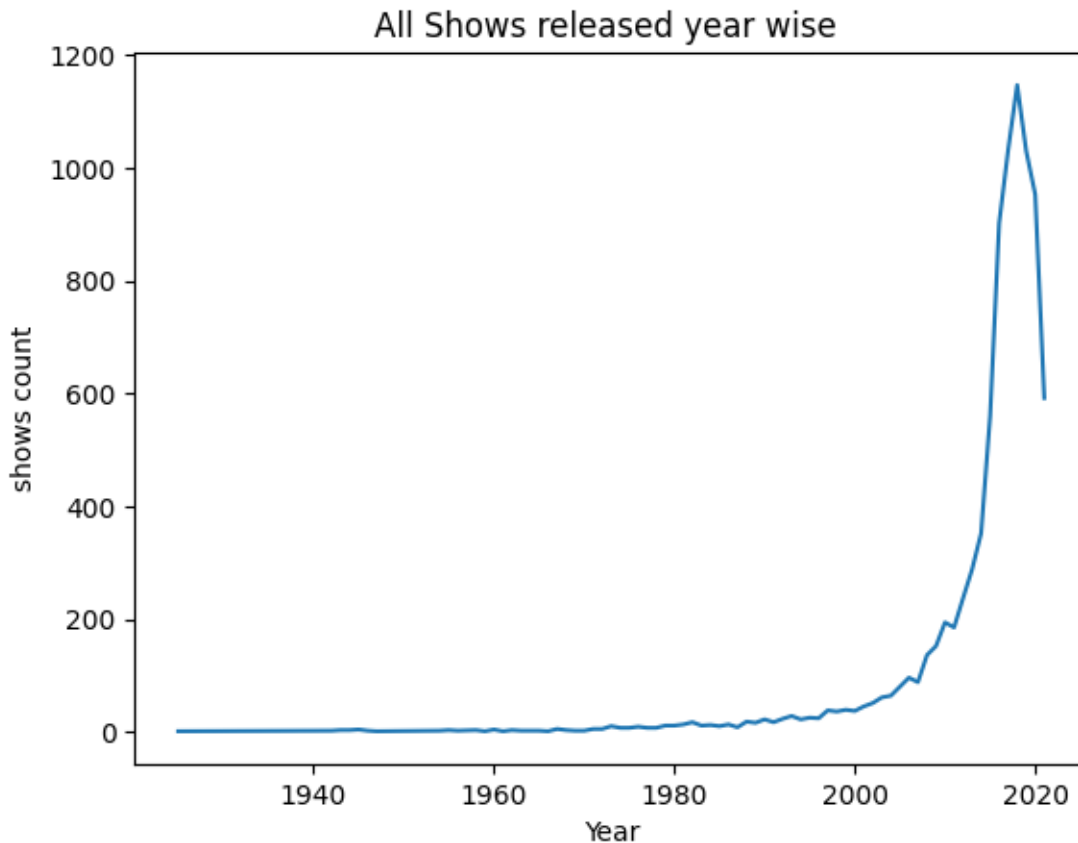
```
[75]: count      201991.000000
      mean         77.152789
      std         52.269154
      min          0.000000
      25%          0.000000
      50%          95.000000
      75%         112.000000
      max         312.000000
      Name: copy_duration, dtype: float64
```

```
[76]: #number of distinct titles on the basis of year
      df_year=final_df2.groupby(['release_year']).agg({"title":"nunique"}).
      ↪reset_index()
      df_year
```

```
[76]:      release_year  title
0          1925         1
1          1942         2
2          1943         3
3          1944         3
4          1945         4
..          ...      ...
69         2017       1032
70         2018       1147
71         2019       1030
72         2020        953
73         2021        592
```

[74 rows x 2 columns]

```
[174]: sns.lineplot(data=df_year, x='release_year', y='title')
      plt.title('All Shows released year wise ')
      plt.ylabel("shows count")
      plt.xlabel("Year")
      plt.show()
```

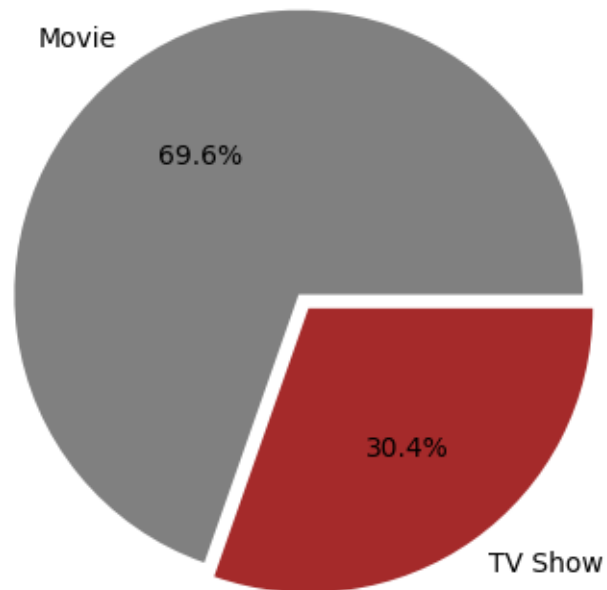


above graph represents that between 2015 to 2020 maximum number of shows were released This shows that games started being highly popular in the last decades, maybe could point to increased usage of internet worldwide! and started decreasing in 2020, covid might be the reason

```
[78]: #number of distinct titles on the basis of type
count2 = final_df2.groupby(['type']).agg({"title": "nunique"}).reset_index()
count2
```

```
[78]:      type  title
0    Movie   6131
1  TV Show   2676
```

```
[80]: plt.pie(count2['title'], explode = (0.03,0.03), labels = count2['type'], colors_
      ↪= ['gray','brown'], autopct = '%.1f%%')
plt.show()
```



we have almost 70:30 ratio of Movies and TV shows

```
[81]: final_df2.head()
```

```
[81]:
```

		title	actors	index	directors	\
0	Dick Johnson	Is Dead	unknown actor	0	Kirsten Johnson	
1		Blood & Water	Ama Qamata	1	unknown directors	
2		Blood & Water	Ama Qamata	1	unknown directors	
3		Blood & Water	Ama Qamata	1	unknown directors	
4		Blood & Water	Khosi Ngema	1	unknown directors	

		genre	country	show_id	type	date_added	\
0		Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows		South Africa	s2	TV Show	September 24, 2021	
2		TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3		TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows		South Africa	s2	TV Show	September 24, 2021	

	release_year	rating	duration	copy_duration
0	2020	PG-13	90	90
1	2021	TV-MA	2 Seasons	0
2	2021	TV-MA	2 Seasons	0
3	2021	TV-MA	2 Seasons	0
4	2021	TV-MA	2 Seasons	0

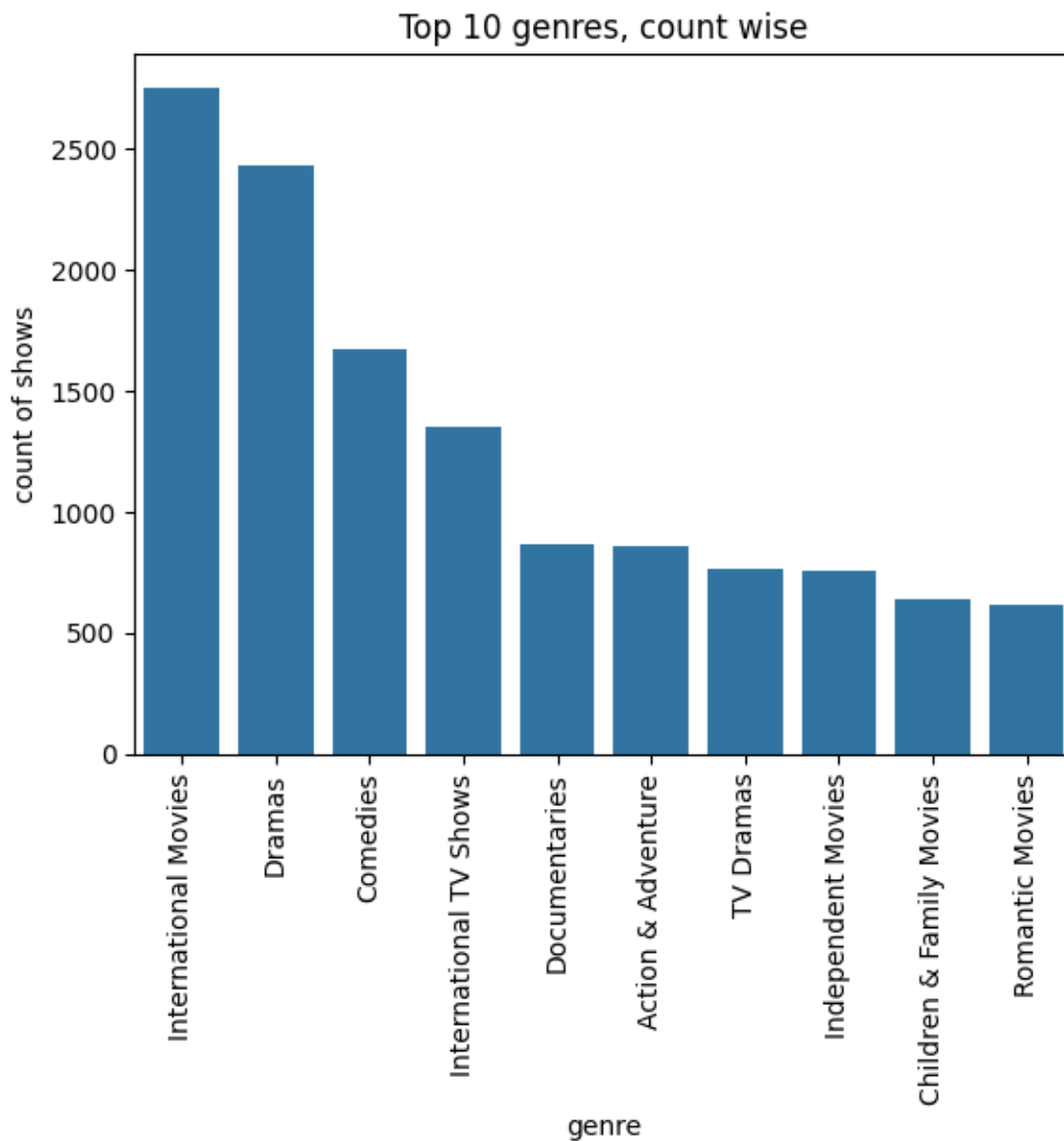
```
[86]: #number of unique movies on the basis of genre
genre_data = final_df2.groupby(['genre']).agg({"title": "nunique"}).
    ↪ sort_values(by = 'title', ascending = False)[:10].reset_index()
genre_data
```

```
[86]:
```

	genre	title
0	International Movies	2752
1	Dramas	2427
2	Comedies	1674
3	International TV Shows	1351
4	Documentaries	869
5	Action & Adventure	859
6	TV Dramas	763
7	Independent Movies	756
8	Children & Family Movies	641
9	Romantic Movies	616

these are the top 10 genres that have the maximum movies and tv shows.

```
[95]: sns.barplot(data=genre_data, x = 'genre', y = 'title')
plt.xticks(rotation= 90)
plt.ylabel('count of shows')
plt.title('Top 10 genres, count wise')
plt.show()
```



```
[96]: final_df2.head()
```

```
[96]:
```

	title	actors	index	directors	\
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson	
1	Blood & Water	Ama Qamata	1	unknown directors	
2	Blood & Water	Ama Qamata	1	unknown directors	
3	Blood & Water	Ama Qamata	1	unknown directors	
4	Blood & Water	Khosi Ngema	1	unknown directors	

	genre	country	show_id	type	date_added	\
0	Documentaries	United States	s1	Movie	September 25, 2021	

1	International TV Shows	South Africa	s2	TV Show	September 24, 2021
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021

	release_year	rating	duration	copy_duration
0	2020	PG-13	90	90
1	2021	TV-MA	2 Seasons	0
2	2021	TV-MA	2 Seasons	0
3	2021	TV-MA	2 Seasons	0
4	2021	TV-MA	2 Seasons	0

```
[98]: bins_1 = [-1,1,50,80,100,120,150,200,315]
labels_1 =
↳ ['<1', '1-50', '50-80', '80-100', '100-120', '120-150', '150-200', '200-315']
final_df2['copy_duration'] = pd.
↳ cut(final_df2['copy_duration'],bins=bins_1,labels=labels_1)
final_df2.head()
```

```
[98]:
```

	title	actors	index	directors \
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson
1	Blood & Water	Ama Qamata	1	unknown directors
2	Blood & Water	Ama Qamata	1	unknown directors
3	Blood & Water	Ama Qamata	1	unknown directors
4	Blood & Water	Khosi Ngema	1	unknown directors

	genre	country	show_id	type	date_added \
0	Documentaries	United States	s1	Movie	September 25, 2021
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021

	release_year	rating	duration	copy_duration
0	2020	PG-13	90	80-100
1	2021	TV-MA	2 Seasons	<1
2	2021	TV-MA	2 Seasons	<1
3	2021	TV-MA	2 Seasons	<1
4	2021	TV-MA	2 Seasons	<1

```
[99]: final_df2.loc[~final_df2['duration'].str.
↳ contains('Season'),'duration']=final_df2.loc[~final_df2['duration'].str.
↳ contains('Season'),'copy_duration']
```

```
[100]: final_df2.drop(['copy_duration'],axis=1,inplace=True)
final_df2.head()
```



```
[100]:
```

	title	actors	index	directors	\
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson	
1	Blood & Water	Ama Qamata	1	unknown directors	
2	Blood & Water	Ama Qamata	1	unknown directors	
3	Blood & Water	Ama Qamata	1	unknown directors	
4	Blood & Water	Khosi Ngema	1	unknown directors	

	genre	country	show_id	type	date_added	\
0	Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021	
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021	

	release_year	rating	duration
0	2020	PG-13	80-100
1	2021	TV-MA	2 Seasons
2	2021	TV-MA	2 Seasons
3	2021	TV-MA	2 Seasons
4	2021	TV-MA	2 Seasons

```
[105]: final_df2['duration'].value_counts()
```

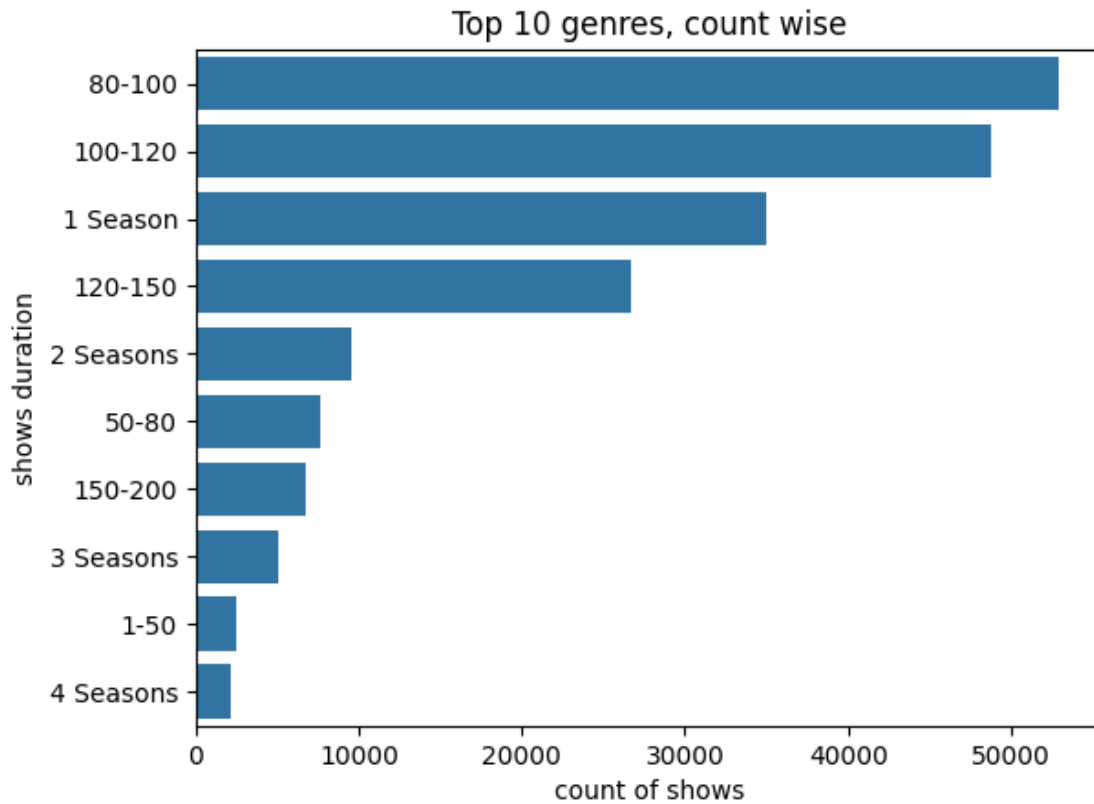
```
[105]:
```

80-100	52937
100-120	48724
1 Season	35035
120-150	26691
2 Seasons	9559
50-80	7700
150-200	6737
3 Seasons	5084
1-50	2530
4 Seasons	2134
5 Seasons	1698
7 Seasons	843
6 Seasons	633
200-315	524
8 Seasons	286
9 Seasons	257
10 Seasons	220
13 Seasons	132
12 Seasons	111
15 Seasons	96
17 Seasons	30
11 Seasons	30

Name: duration, dtype: int64

netfix has maximum movies, duration 80 to 120 mins

```
[107]: a = final_df2['duration'].value_counts().reset_index()[:10]
sns.barpplot(data=a, x = 'duration', y = 'index')
plt.ylabel('shows duration')
plt.xlabel('count of shows')
plt.show()
```



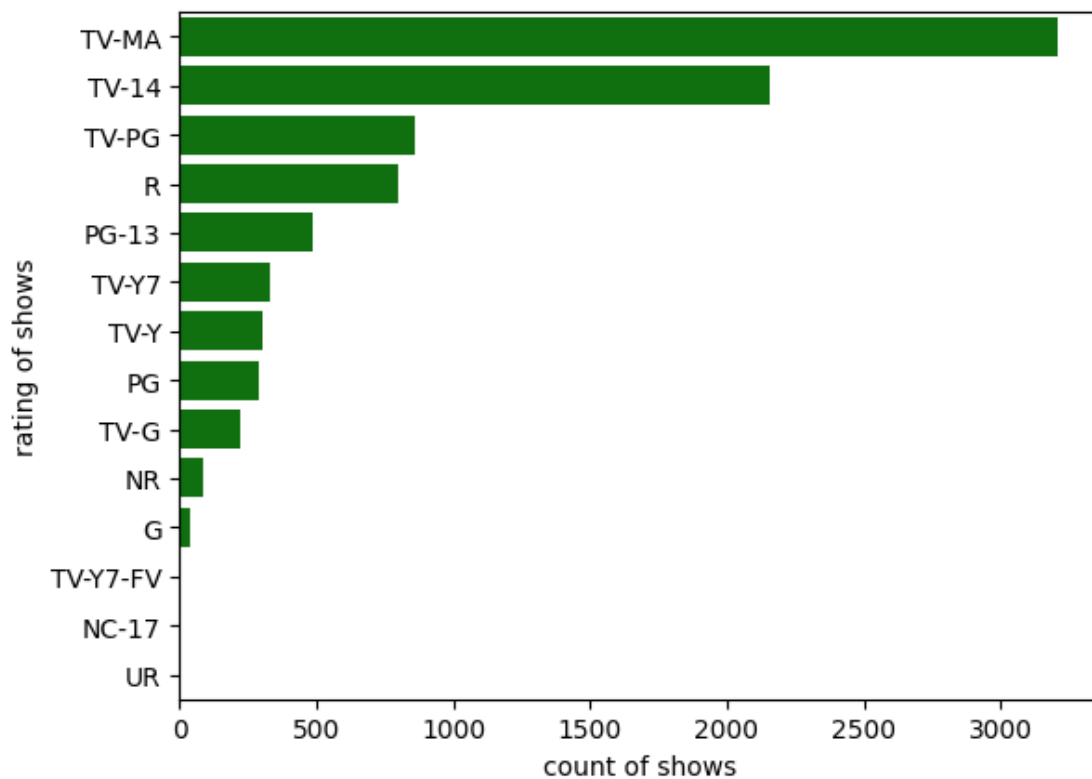
```
[111]: #number of unique shows on the basis of rating
b = final_df2.groupby(['rating']).agg({"title": "nunique"}).sort_values(by = 'title', ascending= False).reset_index()
b
```

```
[111]:
```

	rating	title
0	TV-MA	3207
1	TV-14	2160
2	TV-PG	863
3	R	799
4	PG-13	490
5	TV-Y7	334
6	TV-Y	307

7	PG	287
8	TV-G	220
9	NR	87
10	G	41
11	TV-Y7-FV	6
12	NC-17	3
13	UR	3

```
[113]: sns.barplot(data=b, x = 'title', y = 'rating', color='green')
plt.ylabel('rating of shows')
plt.xlabel('count of shows')
plt.show()
```



above chart shows that maximum contents of netflix are for mature adult, under 14, R rated

```
[115]: final_df2.head(2)
```

```
[115]:
```

	title	actors	index	directors	\
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson	
1	Blood & Water	Ama Qamata	1	unknown directors	

	genre	country	show_id	type	date_added	\
--	-------	---------	---------	------	------------	---

0	Documentaries	United States	s1	Movie	September 25, 2021
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021

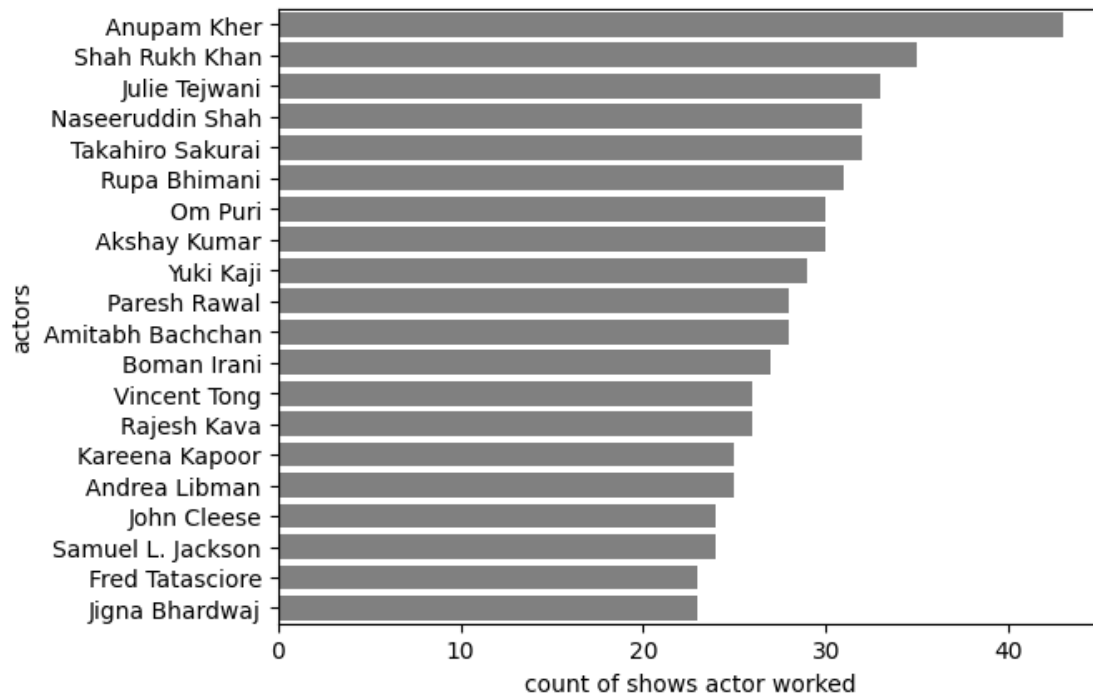
	release_year	rating	duration
0	2020	PG-13	80-100
1	2021	TV-MA	2 Seasons

```
[121]: #number of distinct titles on the basis of Actors
c = final_df2.groupby(['actors']).agg({"title": "nunique"}).sort_values(by = 'title', ascending = False).reset_index()[1:21]
c
```

```
[121]:
```

	actors	title
1	Anupam Kher	43
2	Shah Rukh Khan	35
3	Julie Tejwani	33
4	Naseeruddin Shah	32
5	Takahiro Sakurai	32
6	Rupa Bhimani	31
7	Om Puri	30
8	Akshay Kumar	30
9	Yuki Kaji	29
10	Paresh Rawal	28
11	Amitabh Bachchan	28
12	Boman Irani	27
13	Vincent Tong	26
14	Rajesh Kava	26
15	Kareena Kapoor	25
16	Andrea Libman	25
17	John Cleese	24
18	Samuel L. Jackson	24
19	Fred Tatasciore	23
20	Jigna Bhardwaj	23

```
[122]: sns.barplot(data=c, x = 'title', y = 'actors', color='gray')
plt.xlabel('count of shows actor worked')
plt.show()
```



above chart shows that the Anupom kher, Shah Rukh Khan have worked on maximum numbers of shows in netflix

```
[126]: #number of unique shows on the basis of directors
d = final_df2.groupby(['directors']).agg({"title": "nunique"}).sort_values(by = 'title', ascending= False).reset_index()[1:21]
d
```

```
[126]:
```

	directors	title
1	Rajiv Chilaka	22
2	Jan Suter	21
3	Raúl Campos	19
4	Suhas Kadav	16
5	Marcus Raboy	16
6	Jay Karas	15
7	Cathy Garcia-Molina	13
8	Martin Scorsese	12
9	Youssef Chahine	12
10	Jay Chapman	12
11	Steven Spielberg	11
12	Don Michael Paul	10
13	Yılmaz Erdoğan	9
14	David Dhawan	9
15	Anurag Kashyap	9

```

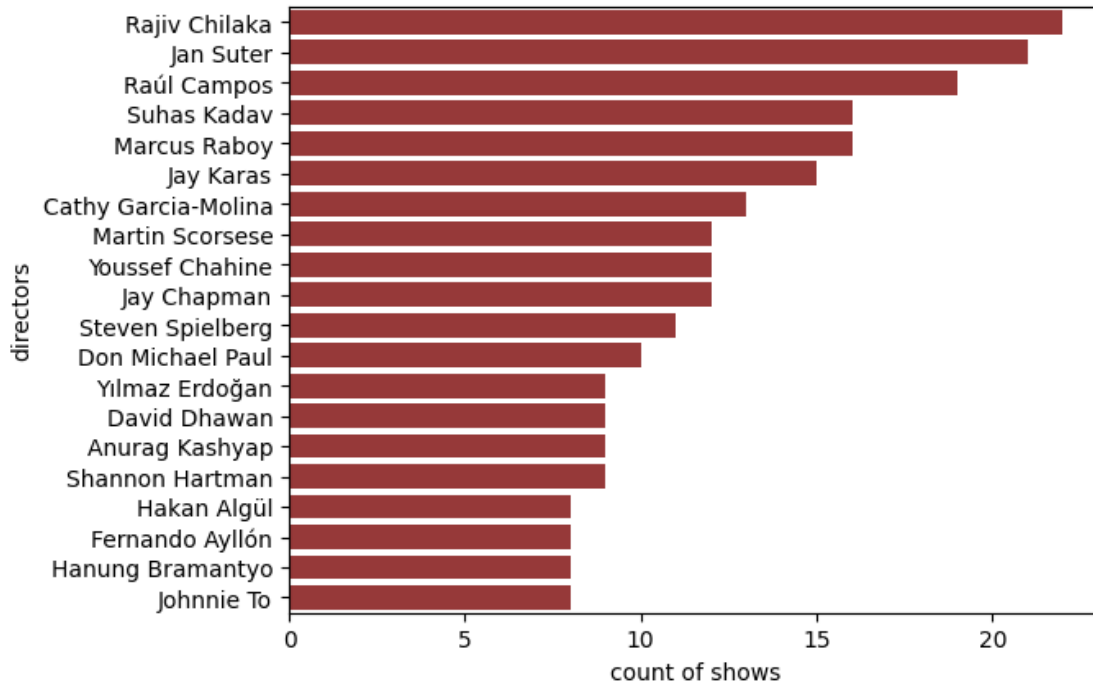
16      Shannon Hartman      9
17      Hakan Algül         8
18      Fernando Ayllón     8
19      Hanung Bramantyo     8
20      Johnnie To           8

```

```

[128]: sns.barplot(data=d, x = 'title', y = 'directors', color='brown')
plt.xlabel('count of shows')
plt.show()

```



Rajiv Chilaka, jan Suter, Raul Campos have the highest number of shows on netflix that they have directed

```

[129]: final_df2.head()

```

```

[129]:
      title      actors  index  directors \
0  Dick Johnson Is Dead  unknown actor    0   Kirsten Johnson
1    Blood & Water      Ama Qamata    1  unknown directors
2    Blood & Water      Ama Qamata    1  unknown directors
3    Blood & Water      Ama Qamata    1  unknown directors
4    Blood & Water    Khosi Ngema     1  unknown directors

      genre      country  show_id  type      date_added \
0  Documentaries  United States    s1  Movie  September 25, 2021
1  International TV Shows  South Africa    s2  TV Show  September 24, 2021

```

2	TV Dramas	South Africa	s2	TV Show	September 24, 2021
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021

	release_year	rating	duration
0	2020	PG-13	80-100
1	2021	TV-MA	2 Seasons
2	2021	TV-MA	2 Seasons
3	2021	TV-MA	2 Seasons
4	2021	TV-MA	2 Seasons

```
[132]: from datetime import datetime
from dateutil.parser import parse
arr=[]
for i in final_df2['date_added'].values:
    dt1=parse(i)
    arr.append(dt1.strftime('%Y-%m-%d'))
final_df2['Modified_date'] =arr
final_df2['Modified_date']=pd.to_datetime(final_df2['Modified_date'])
final_df2['month_added']=final_df2['Modified_date'].dt.month
final_df2['week_Added']=final_df2['Modified_date'].dt.week
final_df2['year']=final_df2['Modified_date'].dt.year
final_df2.head()
```

<ipython-input-132-8a65afda21b0>:10: FutureWarning: Series.dt.weekofyear and Series.dt.week have been deprecated. Please use Series.dt.isocalendar().week instead.

```
final_df2['week_Added']=final_df2['Modified_date'].dt.week
```

```
[132]:
```

	title	actors	index	directors	\
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson	
1	Blood & Water	Ama Qamata	1	unknown directors	
2	Blood & Water	Ama Qamata	1	unknown directors	
3	Blood & Water	Ama Qamata	1	unknown directors	
4	Blood & Water	Khosi Ngema	1	unknown directors	

	genre	country	show_id	type	date_added	\
0	Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021	
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021	

	release_year	rating	duration	Modified_Added_date	month_added	\
0	2020	PG-13	80-100	2021-09-25	9	
1	2021	TV-MA	2 Seasons	2021-09-24	9	
2	2021	TV-MA	2 Seasons	2021-09-24	9	

3	2021	TV-MA	2 Seasons	2021-09-24	9
4	2021	TV-MA	2 Seasons	2021-09-24	9

	week_Added	year	Modified_date
0	38	2021	2021-09-25
1	38	2021	2021-09-24
2	38	2021	2021-09-24
3	38	2021	2021-09-24
4	38	2021	2021-09-24

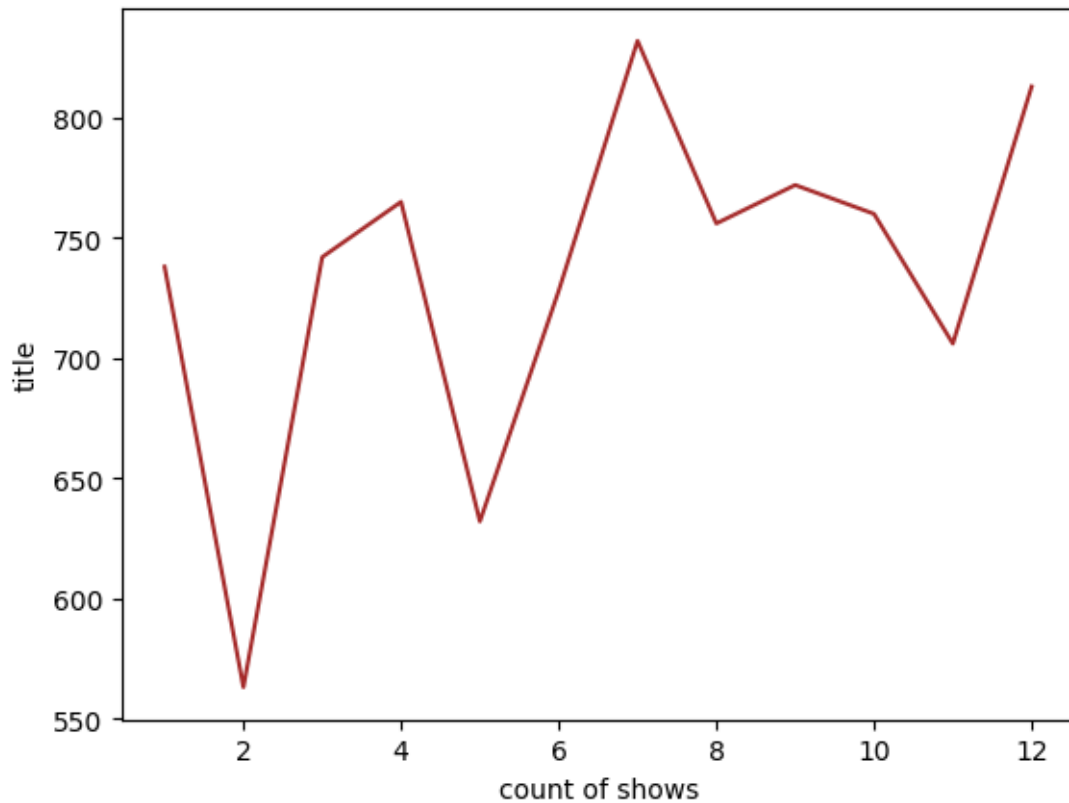
```
[139]: #number of unique shows on the basis of week
e = final_df2.groupby(['month_added']).agg({"title": "nunique"}).reset_index()
e
```

```
[139]:
```

	month_added	title
0	1	738
1	2	563
2	3	742
3	4	765
4	5	632
5	6	728
6	7	832
7	8	756
8	9	772
9	10	760
10	11	706
11	12	813

```
[141]: sns.lineplot(data=e, x = 'month_added', y = 'title', color='brown')
plt.xlabel('count of shows')
plt.show()
```





above chart shows that the most shows are added in july month , and 1st and last months of the year, contents are being added to the netflix

```
[155]: tv_df = final_df2.loc[final_df2['type']=='TV Show']
tv_df.head()
```

```
[155]:
```

	title	actors	index	directors	\
1	Blood & Water	Ama Qamata	1	unknown	directors
2	Blood & Water	Ama Qamata	1	unknown	directors
3	Blood & Water	Ama Qamata	1	unknown	directors
4	Blood & Water	Khosi Ngema	1	unknown	directors
5	Blood & Water	Khosi Ngema	1	unknown	directors

	genre	country	show_id	type	date_added	\
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021	
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021	
5	TV Dramas	South Africa	s2	TV Show	September 24, 2021	

release_year	rating	duration	Modified_Added_date	month_added	\
--------------	--------	----------	---------------------	-------------	---

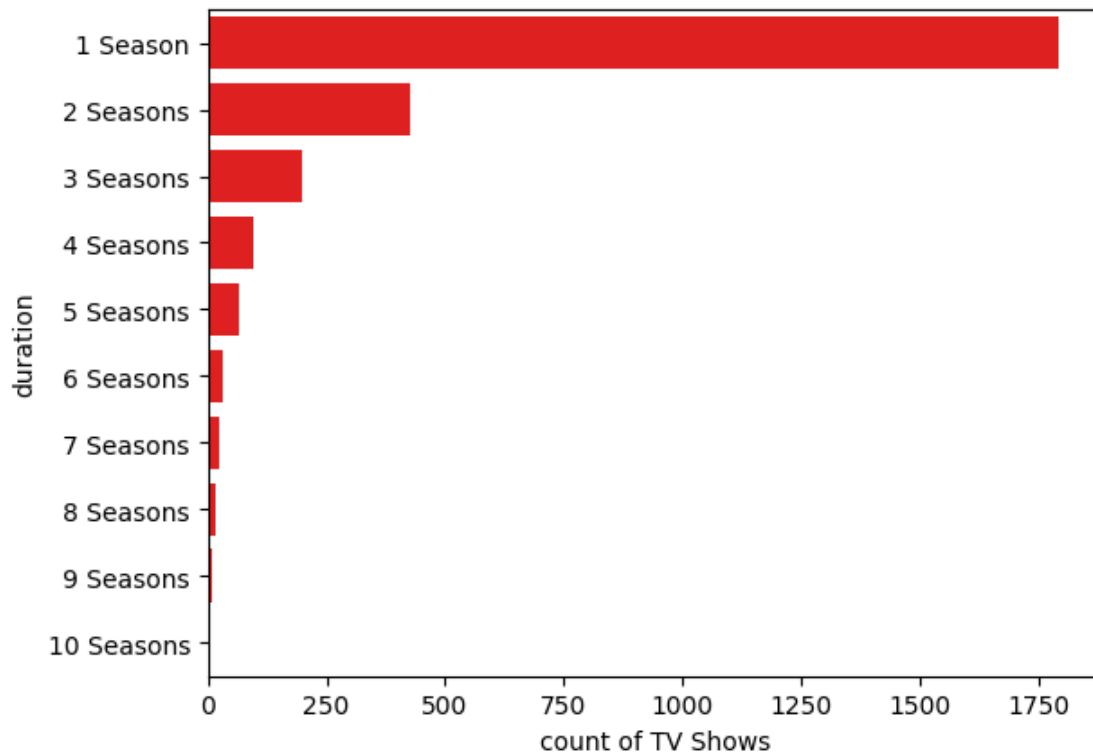
1	2021	TV-MA	2 Seasons	2021-09-24	9
2	2021	TV-MA	2 Seasons	2021-09-24	9
3	2021	TV-MA	2 Seasons	2021-09-24	9
4	2021	TV-MA	2 Seasons	2021-09-24	9
5	2021	TV-MA	2 Seasons	2021-09-24	9

	week_Added	year	Modified_date
1	38	2021	2021-09-24
2	38	2021	2021-09-24
3	38	2021	2021-09-24
4	38	2021	2021-09-24
5	38	2021	2021-09-24

```
[156]: f =tv_df.groupby(['duration']).agg({"title":"nunique"}).reset_index().
↳sort_values(by=['title'],ascending=False)[:10]
f
```

```
[156]:      duration  title
0      1 Season   1793
7      2 Seasons   425
8      3 Seasons   199
9      4 Seasons    95
10     5 Seasons    65
11     6 Seasons    33
12     7 Seasons    23
13     8 Seasons    17
14     9 Seasons     9
1     10 Seasons     7
```

```
[157]: sns.barplot(data=f, x = 'title', y = 'duration', color='red')
plt.xlabel('count of TV Shows')
plt.show()
```



it shows that as the number of seasons become 2 of TV shows , count of shows decreases significantly

```
[159]: movie_df = final_df2.loc[final_df2['type']=='Movie']
movie_df.head()
```

```
[159]:
```

	title	actors	index	\
0	Dick Johnson Is Dead	unknown actor	0	
159	My Little Pony: A New Generation	Vanessa Hudgens	6	
160	My Little Pony: A New Generation	Vanessa Hudgens	7	
161	My Little Pony: A New Generation	Kimiko Glenn	6	
162	My Little Pony: A New Generation	Kimiko Glenn	7	

	directors	genre	country	show_id	type	\
0	Kirsten Johnson	Documentaries	United States	s1	Movie	
159	Robert Cullen	Children & Family Movies	United States	s7	Movie	
160	José Luis Ucha	Children & Family Movies	United States	s7	Movie	
161	Robert Cullen	Children & Family Movies	United States	s7	Movie	
162	José Luis Ucha	Children & Family Movies	United States	s7	Movie	

	date_added	release_year	rating	duration	Modified_Added_date	\
0	September 25, 2021	2020	PG-13	80-100	2021-09-25	
159	September 24, 2021	2021	PG	80-100	2021-09-24	
160	September 24, 2021	2021	PG	80-100	2021-09-24	

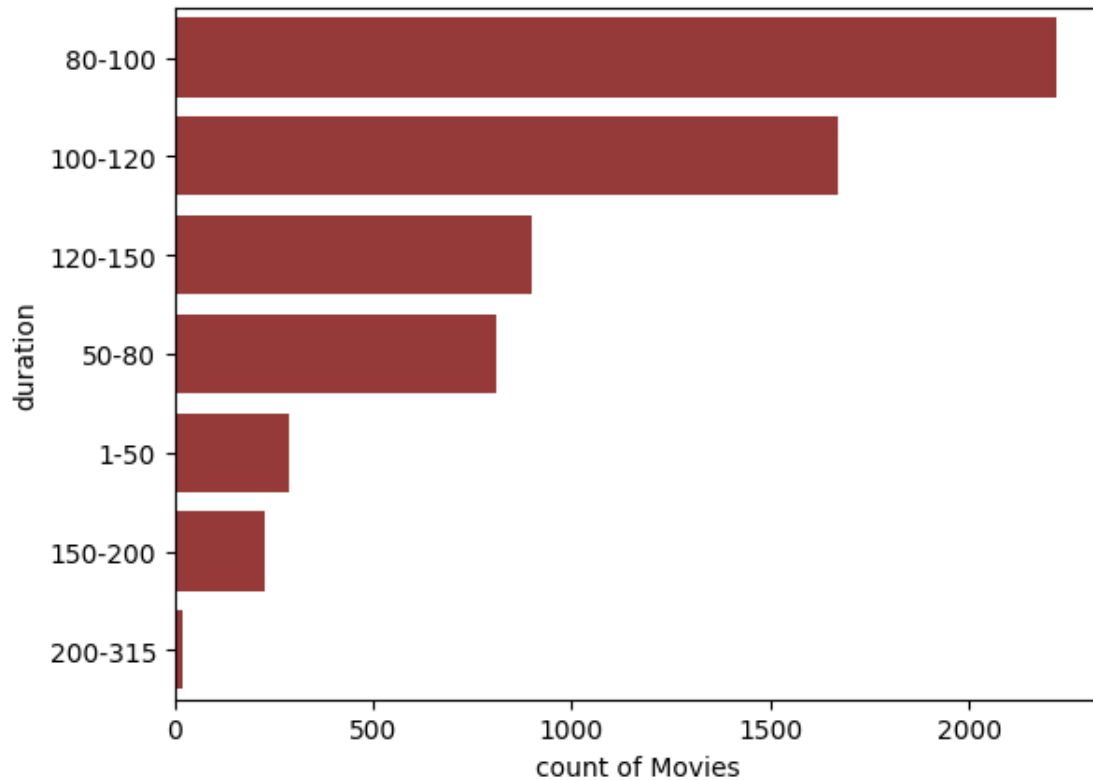
161	September 24, 2021	2021	PG	80-100	2021-09-24
162	September 24, 2021	2021	PG	80-100	2021-09-24

	month_added	week_Added	year	Modified_date
0	9	38	2021	2021-09-25
159	9	38	2021	2021-09-24
160	9	38	2021	2021-09-24
161	9	38	2021	2021-09-24
162	9	38	2021	2021-09-24

```
[167]: g = movie_df.groupby(['duration']).agg({'title': 'nunique'}).
        ↪sort_values(by='title', ascending=False).reset_index()
g
```

```
[167]:   duration  title
0    80-100   2222
1   100-120   1672
2   120-150    897
3    50-80    808
4     1-50    287
5   150-200    226
6   200-315     19
```

```
[168]: sns.barplot(data=g, x = 'title', y = 'duration', color='brown')
plt.xlabel('count of Movies')
plt.show()
```



movies 80-100,100-120 and 120-150 is the ranges of minutes for which most movies lie. so movies duration with 80-150 are the most preferable

```
[173]: final_df2.head()
```

```
[173]:
```

	title	actors	index	directors	\
0	Dick Johnson Is Dead	unknown actor	0	Kirsten Johnson	
1	Blood & Water	Ama Qamata	1	unknown directors	
2	Blood & Water	Ama Qamata	1	unknown directors	
3	Blood & Water	Ama Qamata	1	unknown directors	
4	Blood & Water	Khosi Ngema	1	unknown directors	

	genre	country	show_id	type	date_added	\
0	Documentaries	United States	s1	Movie	September 25, 2021	
1	International TV Shows	South Africa	s2	TV Show	September 24, 2021	
2	TV Dramas	South Africa	s2	TV Show	September 24, 2021	
3	TV Mysteries	South Africa	s2	TV Show	September 24, 2021	
4	International TV Shows	South Africa	s2	TV Show	September 24, 2021	

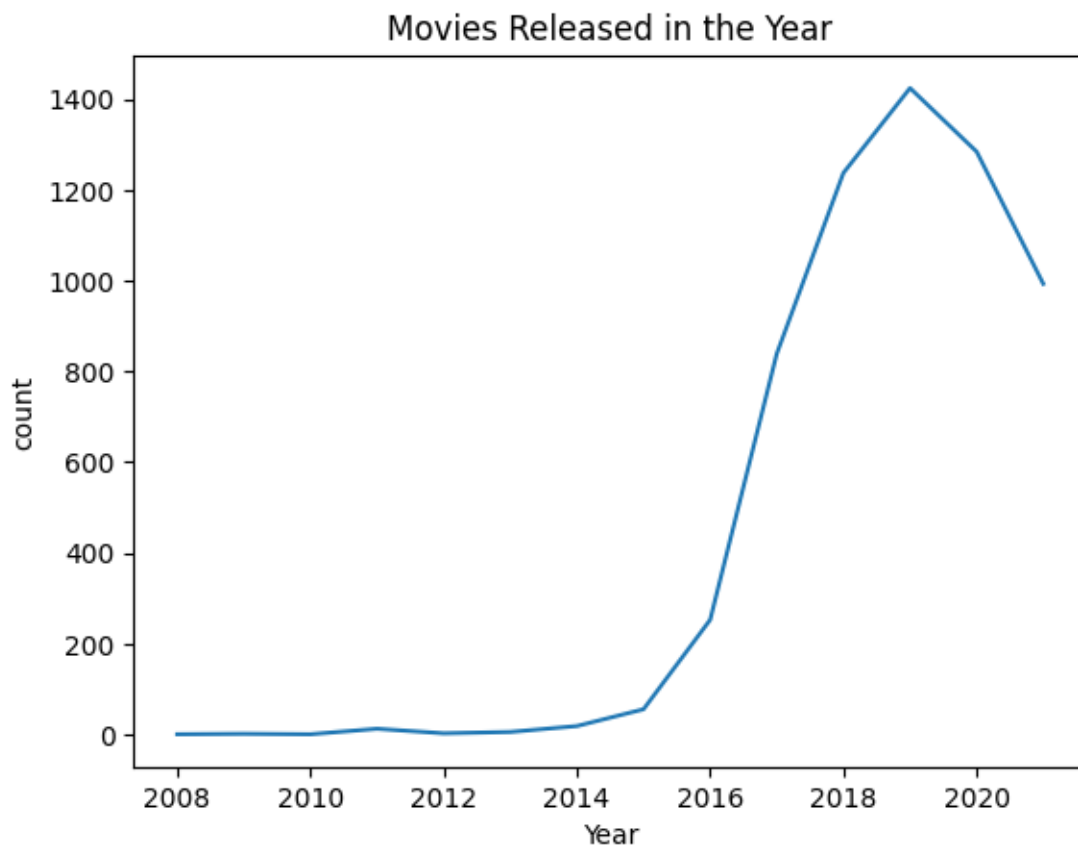
  

	release_year	rating	duration	Modified_Added_date	month_added	\
0	2020	PG-13	80-100	2021-09-25	9	
1	2021	TV-MA	2 Seasons	2021-09-24	9	

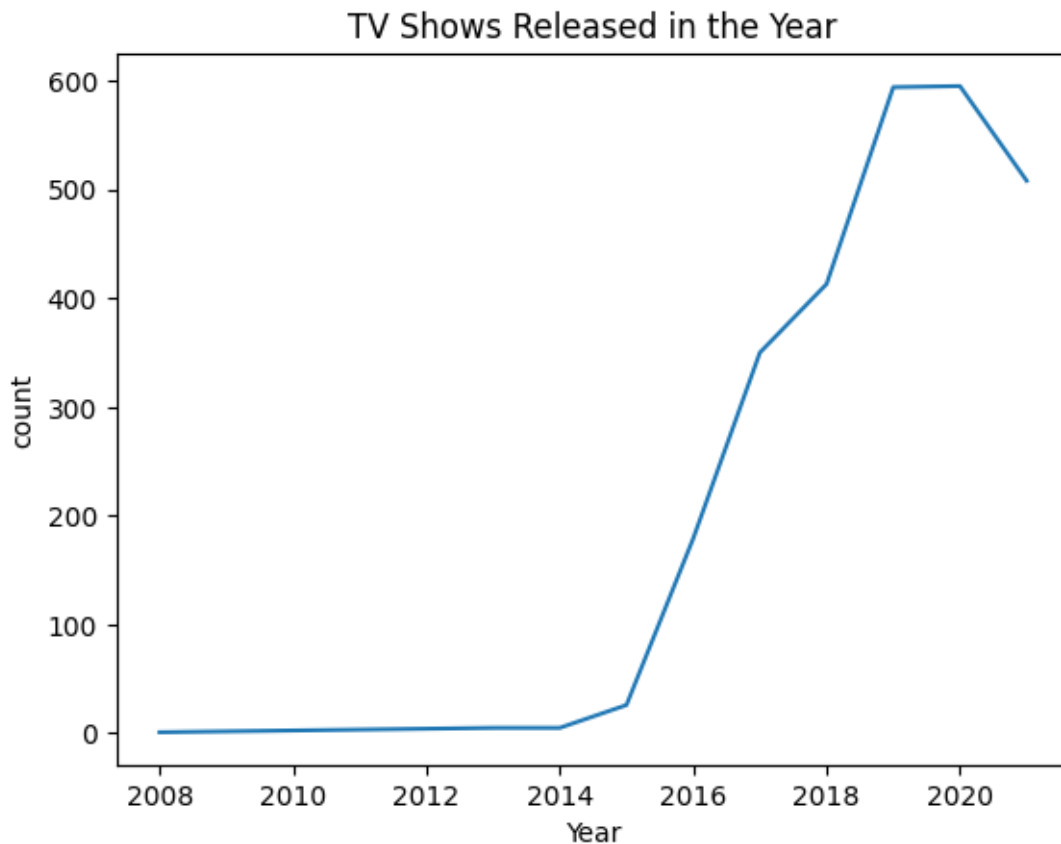
2	2021	TV-MA	2 Seasons	2021-09-24	9
3	2021	TV-MA	2 Seasons	2021-09-24	9
4	2021	TV-MA	2 Seasons	2021-09-24	9

	week_Added	year	Modified_date
0	38	2021	2021-09-25
1	38	2021	2021-09-24
2	38	2021	2021-09-24
3	38	2021	2021-09-24
4	38	2021	2021-09-24

```
[192]: i =movie_df.groupby(['year']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data= i , x='year', y='title')
plt.title("Movies Released in the Year")
plt.ylabel('count')
plt.xlabel("Year")
plt.show()
```

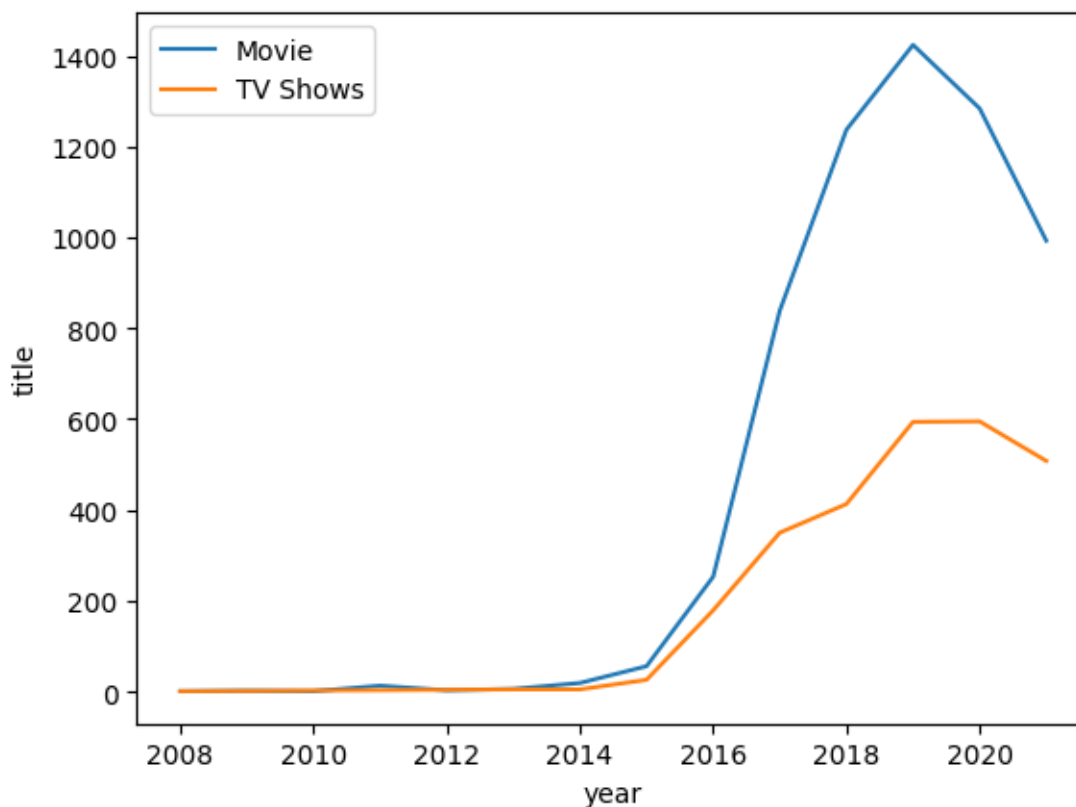


```
[191]: k =tv_df.groupby(['year']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data= k , x='year', y='title')
plt.title("TV Shows Released in the Year")
plt.ylabel("count")
plt.xlabel("Year")
plt.show()
```



```
[190]: sns.lineplot(x='year', y='title', data=i, label='Movie')
sns.lineplot(x='year', y='title', data=k, label='TV Shows')
```

```
[190]: <Axes: xlabel='year', ylabel='title'>
```



it shows that from 2016, movies and TV shows added significantly but no of TV shows almost half of the no. of movies

```
[177]: movie_df
```

```
[177]:
```

	title	actors	index	\
0	Dick Johnson Is Dead	unknown actor	0	
159	My Little Pony: A New Generation	Vanessa Hudgens	6	
160	My Little Pony: A New Generation	Vanessa Hudgens	7	
161	My Little Pony: A New Generation	Kimiko Glenn	6	
162	My Little Pony: A New Generation	Kimiko Glenn	7	
...	...	...	...	
201986	Zubaan	Anita Shabdish	9611	
201987	Zubaan	Anita Shabdish	9611	
201988	Zubaan	Chittaranjan Tripathy	9611	
201989	Zubaan	Chittaranjan Tripathy	9611	
201990	Zubaan	Chittaranjan Tripathy	9611	

	directors	genre	country	show_id	\
0	Kirsten Johnson	Documentaries	United States	s1	
159	Robert Cullen	Children & Family Movies	United States	s7	



160	José Luis Ucha	Children & Family Movies	United States	s7
161	Robert Cullen	Children & Family Movies	United States	s7
162	José Luis Ucha	Children & Family Movies	United States	s7
...	...	...	...	...
201986	Mozez Singh	International Movies	India	s8807
201987	Mozez Singh	Music & Musicals	India	s8807
201988	Mozez Singh	Dramas	India	s8807
201989	Mozez Singh	International Movies	India	s8807
201990	Mozez Singh	Music & Musicals	India	s8807

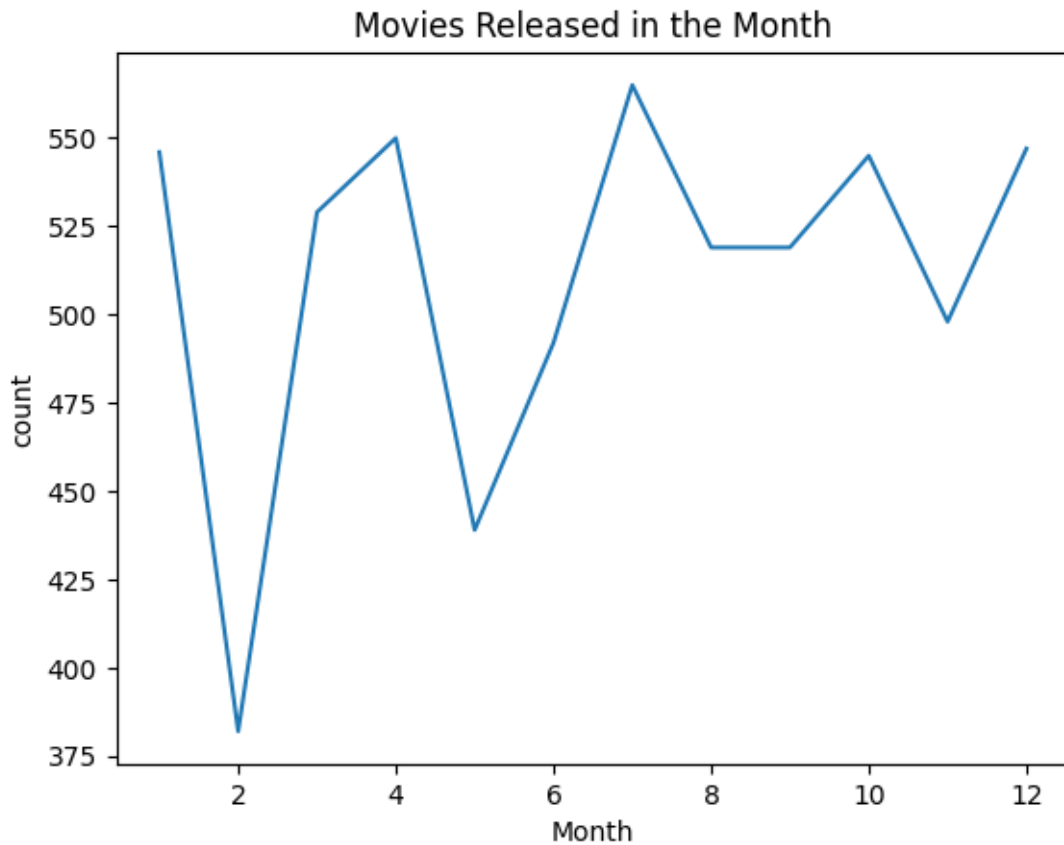
	type	date_added	release_year	rating	duration	\
0	Movie	September 25, 2021	2020	PG-13	80-100	
159	Movie	September 24, 2021	2021	PG	80-100	
160	Movie	September 24, 2021	2021	PG	80-100	
161	Movie	September 24, 2021	2021	PG	80-100	
162	Movie	September 24, 2021	2021	PG	80-100	

...	...	...	...	...	...	...
201986	Movie	March 2, 2019	2015	TV-14	100-120	
201987	Movie	March 2, 2019	2015	TV-14	100-120	
201988	Movie	March 2, 2019	2015	TV-14	100-120	
201989	Movie	March 2, 2019	2015	TV-14	100-120	
201990	Movie	March 2, 2019	2015	TV-14	100-120	

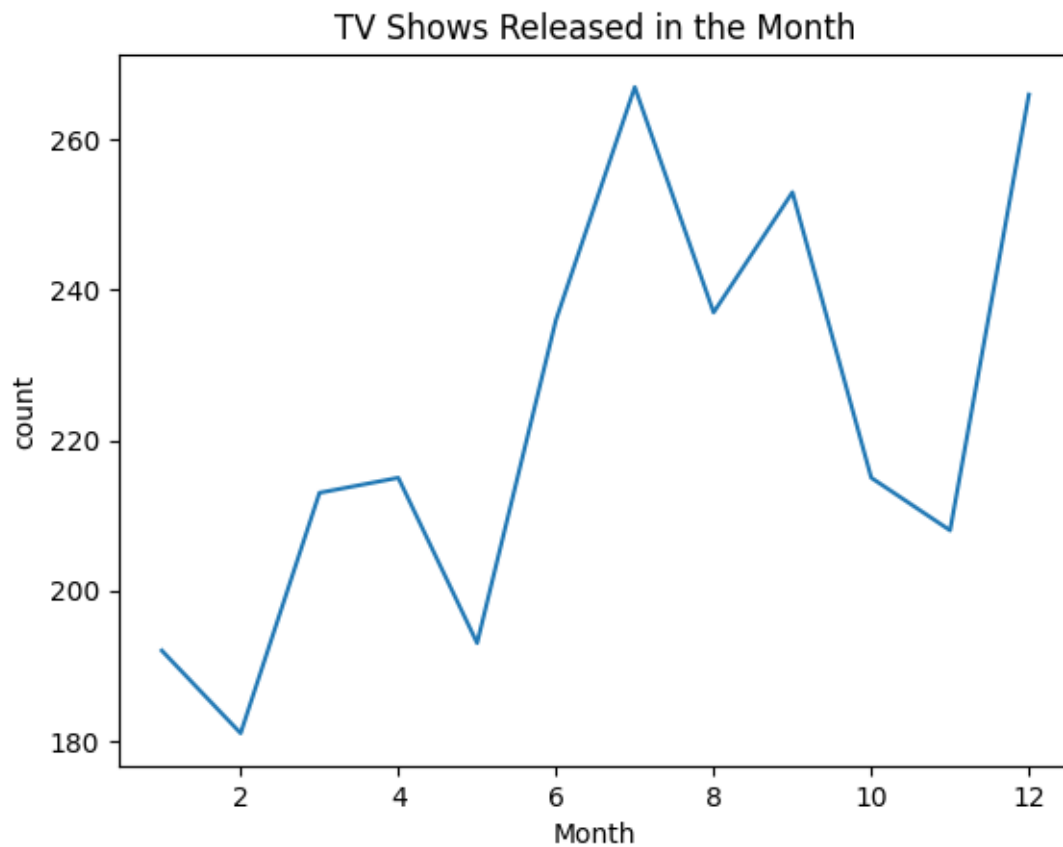
	Modified_Added_date	month_added	week_Added	year	Modified_date
0	2021-09-25	9	38	2021	2021-09-25
159	2021-09-24	9	38	2021	2021-09-24
160	2021-09-24	9	38	2021	2021-09-24
161	2021-09-24	9	38	2021	2021-09-24
162	2021-09-24	9	38	2021	2021-09-24
...	...	...	...	...	...
201986	2019-03-02	3	9	2019	2019-03-02
201987	2019-03-02	3	9	2019	2019-03-02
201988	2019-03-02	3	9	2019	2019-03-02
201989	2019-03-02	3	9	2019	2019-03-02
201990	2019-03-02	3	9	2019	2019-03-02

[145843 rows x 17 columns]

```
[193]: m =movie_df.groupby(['month_added']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data=m, x='month_added', y='title')
plt.title("Movies Released in the Month")
plt.ylabel('count')
plt.xlabel("Month")
plt.show()
```

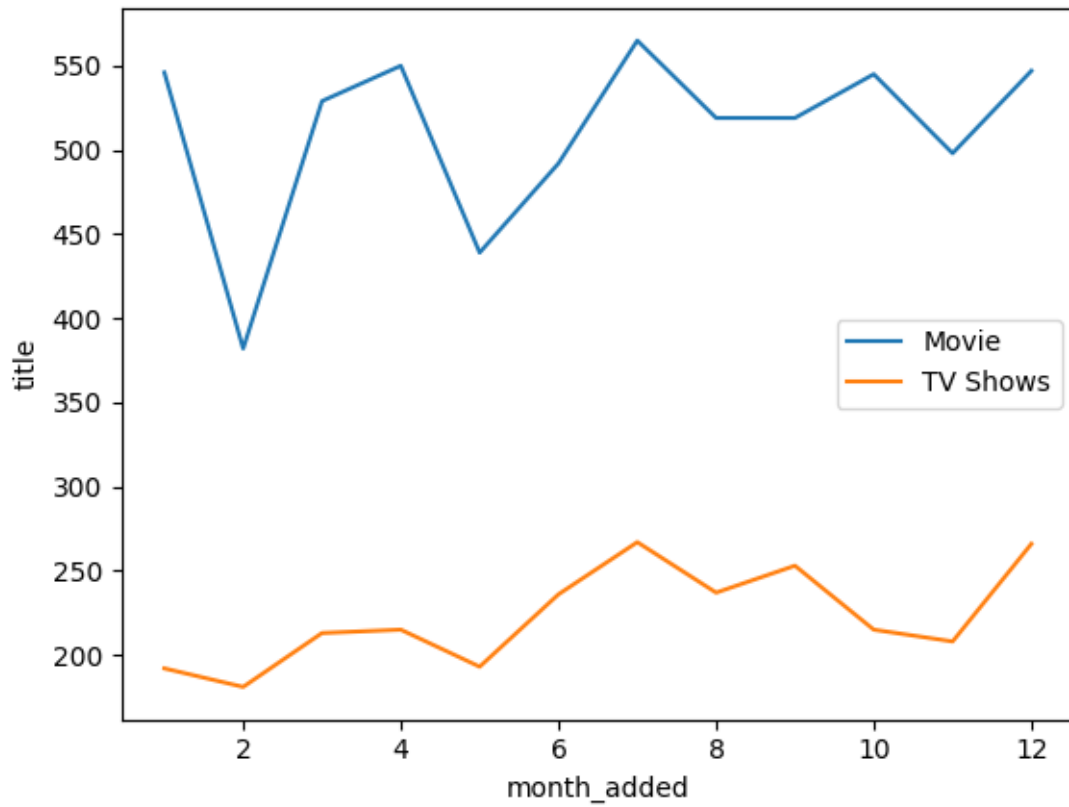


```
[194]: p =tv_df.groupby(['month_added']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data=p, x='month_added', y='title')
plt.title("TV Shows Released in the Month")
plt.ylabel('count')
plt.xlabel("Month")
plt.show()
```

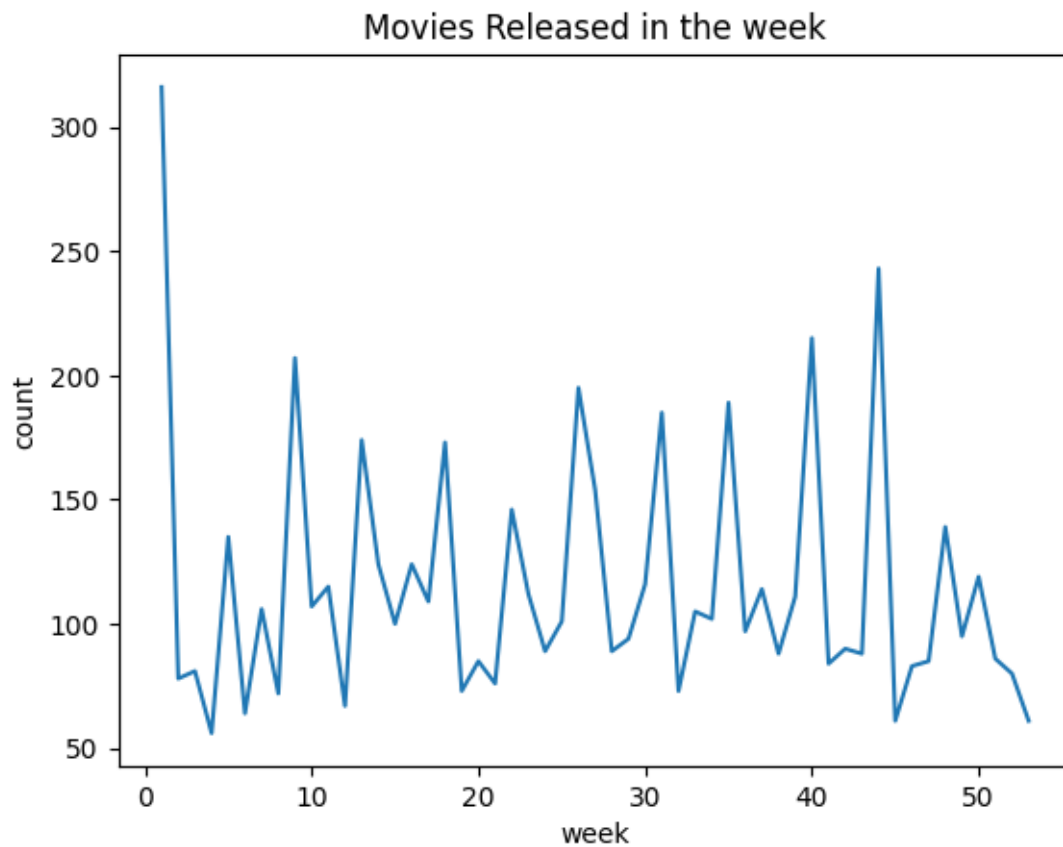


```
[182]: sns.lineplot(x='month_added', y='title', data=m, label='Movie')  
sns.lineplot(x='month_added', y='title', data=p, label='TV Shows')
```

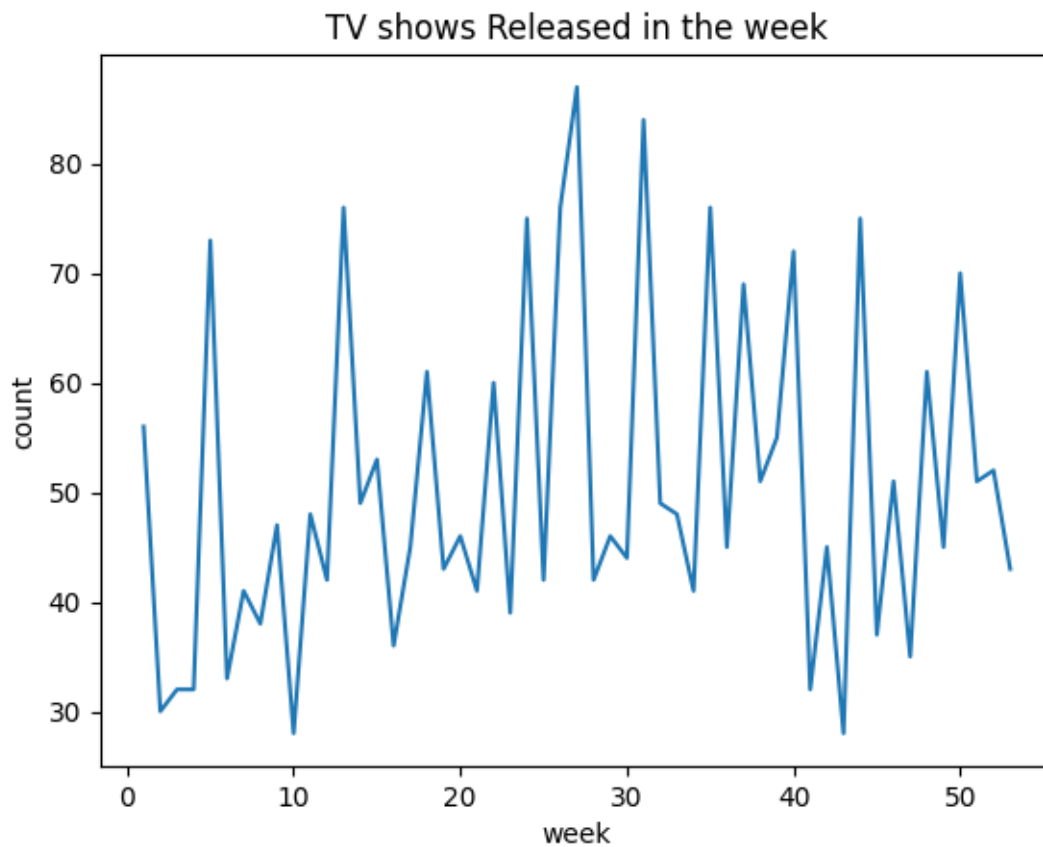
```
[182]: <Axes: xlabel='month_added', ylabel='title'>
```



```
[195]: r =movie_df.groupby(['week_Added']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data=r, x='week_Added', y='title')
plt.title("Movies Released in the week")
plt.ylabel('count')
plt.xlabel("week")
plt.show()
```

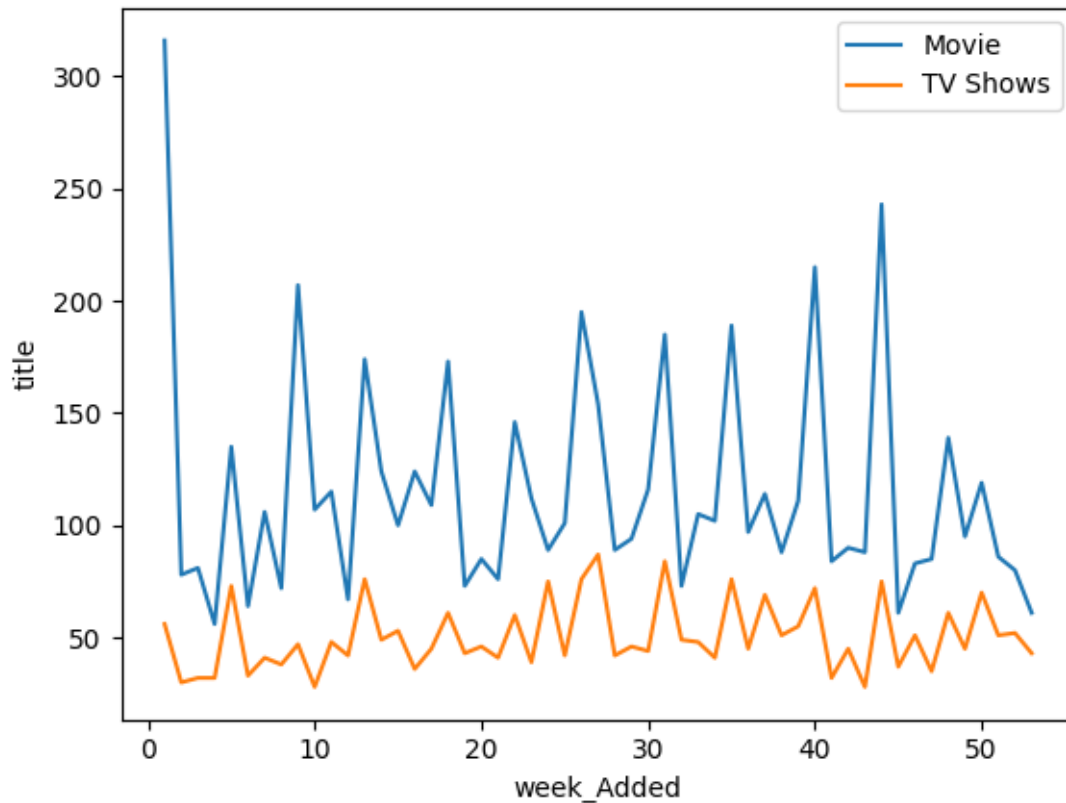


```
[196]: s =tv_df.groupby(['week_Added']).agg({"title":"nunique"}).reset_index()
sns.lineplot(data=s, x='week_Added', y='title')
plt.title("TV shows Released in the week")
plt.ylabel('count')
plt.xlabel("week")
plt.show()
```



```
[197]: sns.lineplot(x='week_Added', y='title', data=r, label='Movie')  
sns.lineplot(x='week_Added', y='title', data=s, label='TV Shows')
```

```
[197]: <Axes: xlabel='week_Added', ylabel='title'>
```



movies added during mid year is very high than the no of tv shows being added

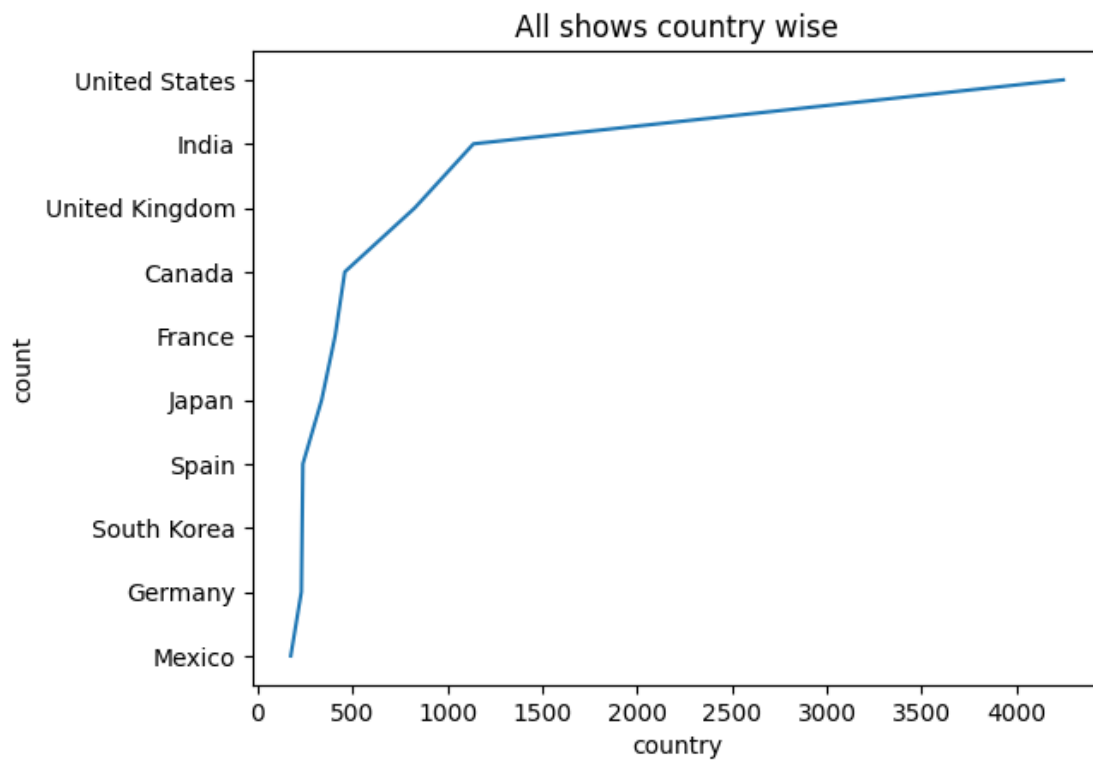
```
[205]: ab = final_df2.groupby(['country']).agg({'title': 'nunique'}).
        sort_values(by='title', ascending = False).reset_index()[:10]
ab
```

```
[205]:
```

	country	title
0	United States	4248
1	India	1138
2	United Kingdom	829
3	Canada	460
4	France	409
5	Japan	338
6	Spain	239
7	South Korea	235
8	Germany	231
9	Mexico	175

```
[210]: sns.lineplot(data= ab , x='title',y='country')
plt.title("All shows country wise")
plt.ylabel('count')
```

```
plt.xlabel("country")
plt.show()
```



it shows that the United States, India and UK are the 3 major content consumer

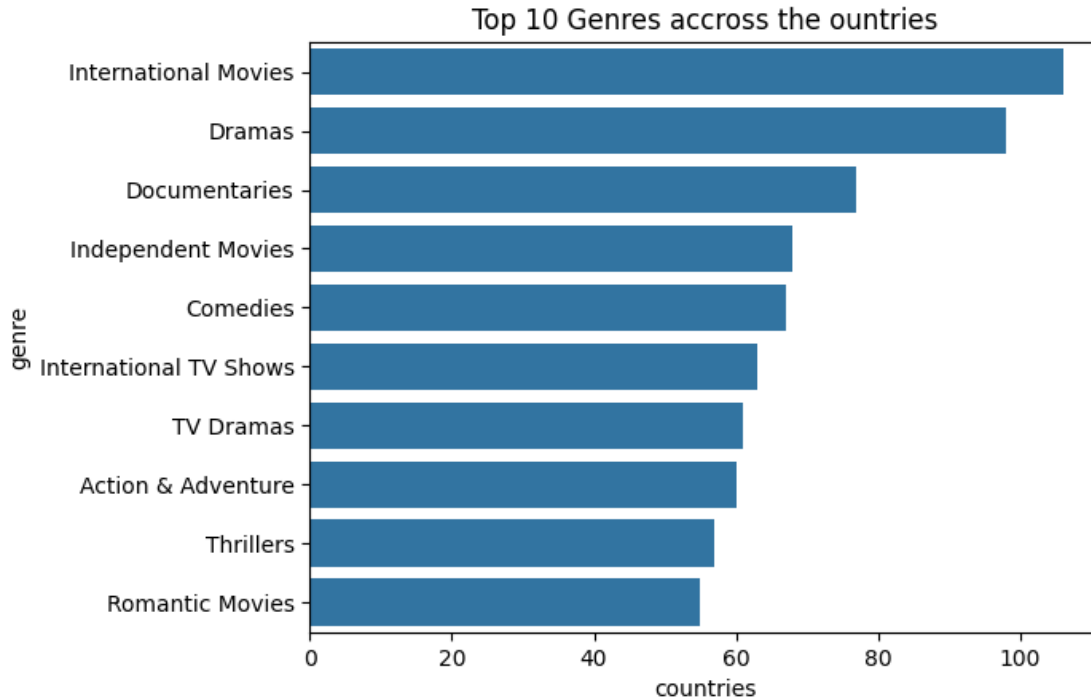
```
[219]: mm = final_df2.groupby(['genre']).agg({'country':'nunique'}).
        sort_values(by='country', ascending = False).reset_index()[:10]
mm
```

```
[219]:
```

	genre	country
0	International Movies	106
1	Dramas	98
2	Documentaries	77
3	Independent Movies	68
4	Comedies	67
5	International TV Shows	63
6	TV Dramas	61
7	Action & Adventure	60
8	Thrillers	57
9	Romantic Movies	55



```
[223]: sns.barplot(data = mm, x = 'country', y = 'genre')
plt.xlabel('countries')
plt.title('Top 10 Genres accross the ountries')
plt.show()
```



Recommendations 1)Add TV Shows and Movies in last week of the year/first month of the next year.

2) The most popular Genres are in both TV Shows and Movies are Drama, Comedy and International TV Shows/Movies, so content like that is recommended.

3) 80-150 mins is the recommended length for movies recommended.

4) TV shows with 1 seasons recommended

5)The target audience is recommended to be 14+ and above ratings while for UK, its recommended to be completely Mature/R content .

[ ]: