

## #NETFLIX BUSINESS CASE

The objective of this project is to analyze the given Netflix dataset and generate insights that could help Netflix in deciding which type of shows/movies to produce and how they can grow the business in different countries.

### #Importing Libraries

```
import numpy as np #importing libraries
import pandas as pd
import matplotlib.pyplot as plt
from wordcloud import WordCloud
import seaborn as sns
```

### #Loading the Data Set

```
!gdown 1K_uNafhCB5fIeanKh8qmEnSSDeK01eFI #Download dataset
```

Downloading...

From: [https://drive.google.com/uc?id=1K\\_uNafhCB5fIeanKh8qmEnSSDeK01eFI](https://drive.google.com/uc?id=1K_uNafhCB5fIeanKh8qmEnSSDeK01eFI)

To: /content/netflix.csv

0% 0.00/3.40M [00:00<?, ?B/s] 100% 3.40M/3.40M [00:00<00:00, 118MB/s]

```
df = pd.read_csv("netflix.csv") # load dataset
df.head() #display first 5 rows
```

	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...

```

## #Primarily Observations

```
df.shape #shape of data
```

```
(8807, 12)
```

```
df.info() #data types of all the attributes
```

```

<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

```

```
df.describe() #statistical summary
```

```

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
```

```
df.describe(include = 'object') #statistical summary of categorical variables
```

```
count      show_id      type      title      director \
unique      8807      2      8807      4528
top         s1      Movie      Dick Johnson Is Dead      Rajiv Chilaka
freq         1      6131      1      19
```

```
count      cast      country      date_added      rating
8804      7982      7976      8797      8803
unique      7692      748      1767      17
220
top      David Attenborough      United States      January 1, 2020      TV-MA      1
Season
freq      19      2818      109      3207
1793
```

```
count      listed_in \
unique      514
top      Dramas, International Movies
freq      362
```

```
count      description
unique      8775
top      Paranormal activity at a lush, abandoned prope...
freq      4
```

```
df.isnull().sum() #missing value detection
```

```
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
```

```
df.nunique() #unique count of each variable
```

```
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
```

## #Data Cleaning

###(i) Calculating the Missing Data

```
for i in df.columns:
    null_values = round(100* df[i].isnull().sum()/ len(df),2)
    if null_values > 0:
        print("{} missing percentage : {}".format(i, null_values))
```

```
director missing percentage : 29.91%
cast missing percentage : 9.37%
country missing percentage : 9.44%
date_added missing percentage : 0.11%
rating missing percentage : 0.05%
duration missing percentage : 0.03%
```

###(ii) Dealing with the Missing Data

```
df.country.replace(np.nan,"Unknown Country",inplace = True) #replacing
null values of country with Unknown Country
df.cast.replace(np.nan,"Unknown Actor",inplace = True) #replacing null
values of cast with Unknown Actor
df.director.replace(np.nan,"Unknown Director",inplace = True)
#replacing null values of director with Unknown Director

df.dropna(inplace = True) #dropping rows having null values
df.drop_duplicates(inplace = True) #dropping duplicates rows
```

###(iii) Unnesting cast, director, company & listed\_in coulmun's data.

```
df_cast = df["cast"].str.split(", |,| ,", expand = True).stack()
#splitting and expending cast column and making new dataframe for cast
```

```

df_cast = df_cast.reset_index(drop = True, level = 1).to_frame("cast")
df_cast["show_id"] = df["show_id"]

df_director = df["director"].str.split(", |,| ,", expand =
True).stack() #splitting and expanding director column and making new
dataframe for director
df_director = df_director.reset_index(drop =True, level =
1).to_frame("director")
df_director["show_id"] = df["show_id"]

df_country = df["country"].str.split(", |,| ,", expand = True).stack()
#splitting and expanding country column and making new dataframe for
country
df_country = df_country.reset_index(drop =True, level =
1).to_frame("country")
df_country["show_id"] = df["show_id"]

df_genre = df["listed_in"].str.split(", |,| ,", expand = True).stack()
#splitting and expanding listed_in and making new dataframe for
listed_in
df_genre = df_genre.reset_index(drop =True, level =
1).to_frame("genre")
df_genre["show_id"] = df["show_id"]

```

#### ###(iv) Data Transformation

```

df.date_added = pd.to_datetime(df.date_added) # changing datatype of
date_added column
df['month_added'] = df['date_added'].dt.month
df['month_name_added'] = df['date_added'].dt.month_name()
df['year_added'] = df['date_added'].dt.year
df['week_added'] = df['date_added'].dt.isocalendar().week

```

#### #Analysis

**#Count of each categorical variable using non- graphical analysis.**

```

df_count = df.nunique().reset_index()
df_count.columns = ["variable", "total_count"]
df_count.T

```

	0	1	2	3	4	5	6
\							
variable	show_id	type	title	director	cast	country	date_added
total_count	8790	2	8790	4527	7679	749	1713
	7	8	9	10	11	\	
variable	release_year	rating	duration	listed_in	description		

total_count	74	14	220	513	8758
variable	month_added	month_name_added	year_added	week_added	
total_count	12	13	14	15	
	12	12	14	53	

```
print("This dataset is from ",
df.date_added.dt.date.min().strftime("%d-%m-%Y"), "to
",df.date_added.dt.date.max().strftime("%d-%m-%Y"))
```

This dataset is from 01-01-2008 to 25-09-2021

**Insight** - As per the dataset, there are total 8790 unique show\_ids(includes Movie & TV Shows).

The count of director is 4992. So we can conclude that one director directed more than one Movie or TV Show.

Total cast members are 36393.

This is consolidated dataset of 124 countries.

Release year is the year when particular Movie & TV Show get released.

Rating is the ratings of the content.

Duration is the duration of specific Movie or TV Show.

Listed\_in is the genre list of Movies & TV Shows.

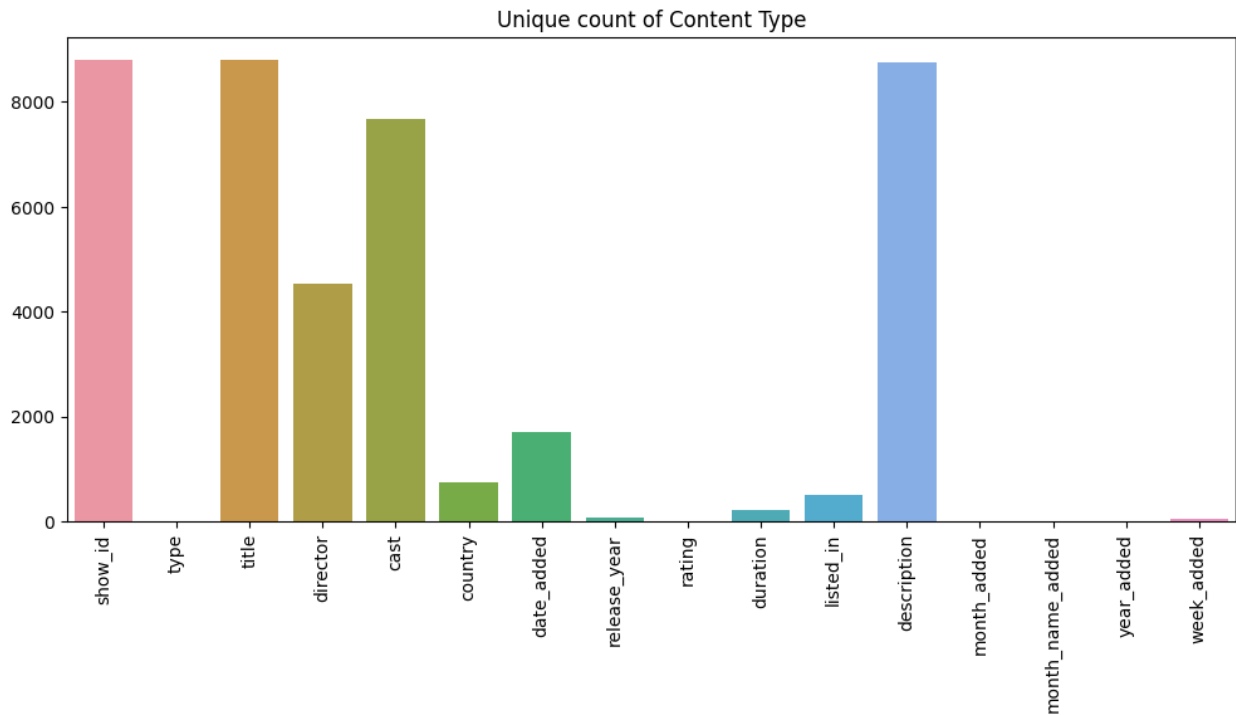
Description is the details of Movie & TV Show.

Few more columns are generated for further analysis in depth.

**This is the dataset from 2008-01-01 and 2021-09-25.**

**#Count of each categorical variable using graphical analysis.**

```
plt.figure(figsize = (12,5)) #change figure size
sns.barplot(x = df.nunique().index, y = df.nunique()) #plot x and y
values
plt.xticks(rotation = 90) #rotate x ticks on 90 degree
plt.title("Unique count of Content Type")
plt.show() #show bar plot
```



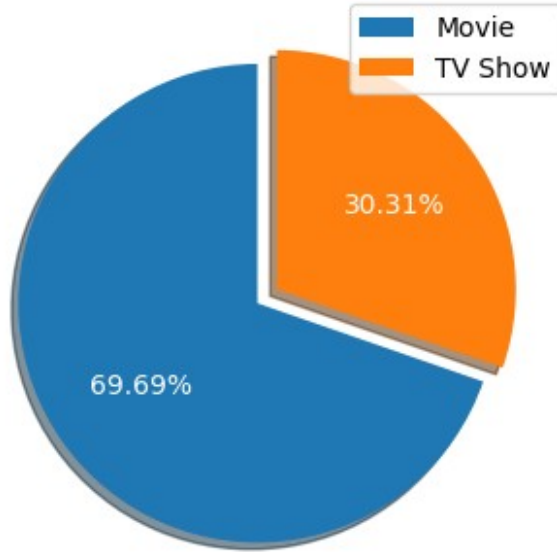
**Insight** - This barplot shows count of all the variables of the dataset.

### #Comparison of TV Show vs Movie.

```
plt.figure(figsize = (4,4))
x = df.groupby("type")["type"].count()
y = len(df)
r = (x/y*100).round(2)
perc_data = pd.DataFrame(r)
plt.pie(x = perc_data["type"], labels = perc_data.index, autopct =
"%1.2f%%", startangle = 90, shadow = True, explode=(0.1,0),
textprops={'color': 'white'})

plt.title('Distribution of Content Types') #Pie chart for distribution
of Movies & TV Shows
plt.legend(loc='upper right')
plt.show()
```

Distribution of Content Types



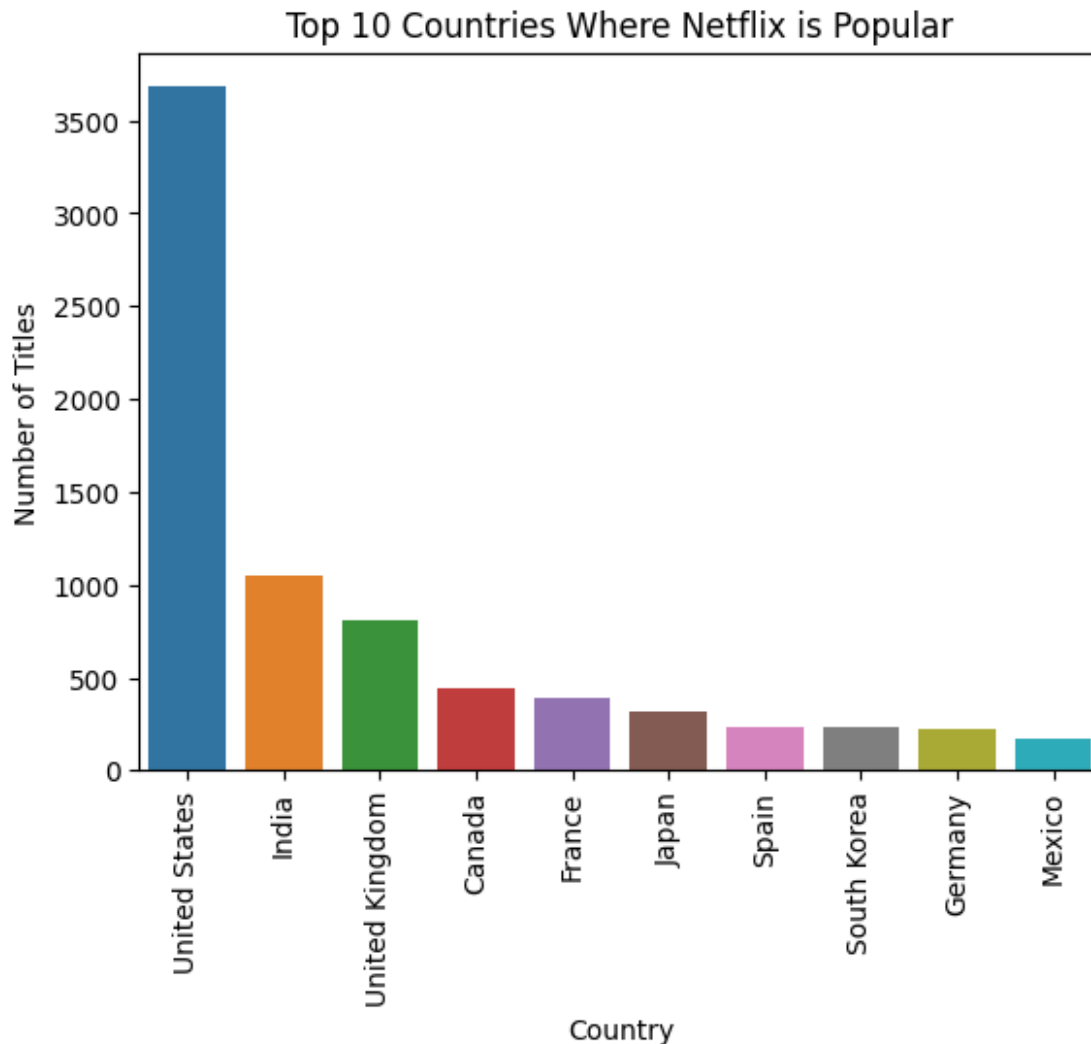
**Insight** - From the above analysis, we can clearly see that movie counts for countries are far greater than TV show.

Seems, Netflix should focus of TV Shows as well to uplift the market of this type.

#### #Top 10 Countries Where Netflix is Popular

```
df_country = df_country.loc[df_country["country"]!="Unknown Country"]
top_10_country = df_country["country"].value_counts().head(10)
sns.barplot(x = top_10_country.index, y = top_10_country.values)
plt.xlabel('Country')
plt.ylabel('Number of Titles')
plt.title('Top 10 Countries Where Netflix is Popular')
plt.xticks(rotation = 90)
plt.show()
```



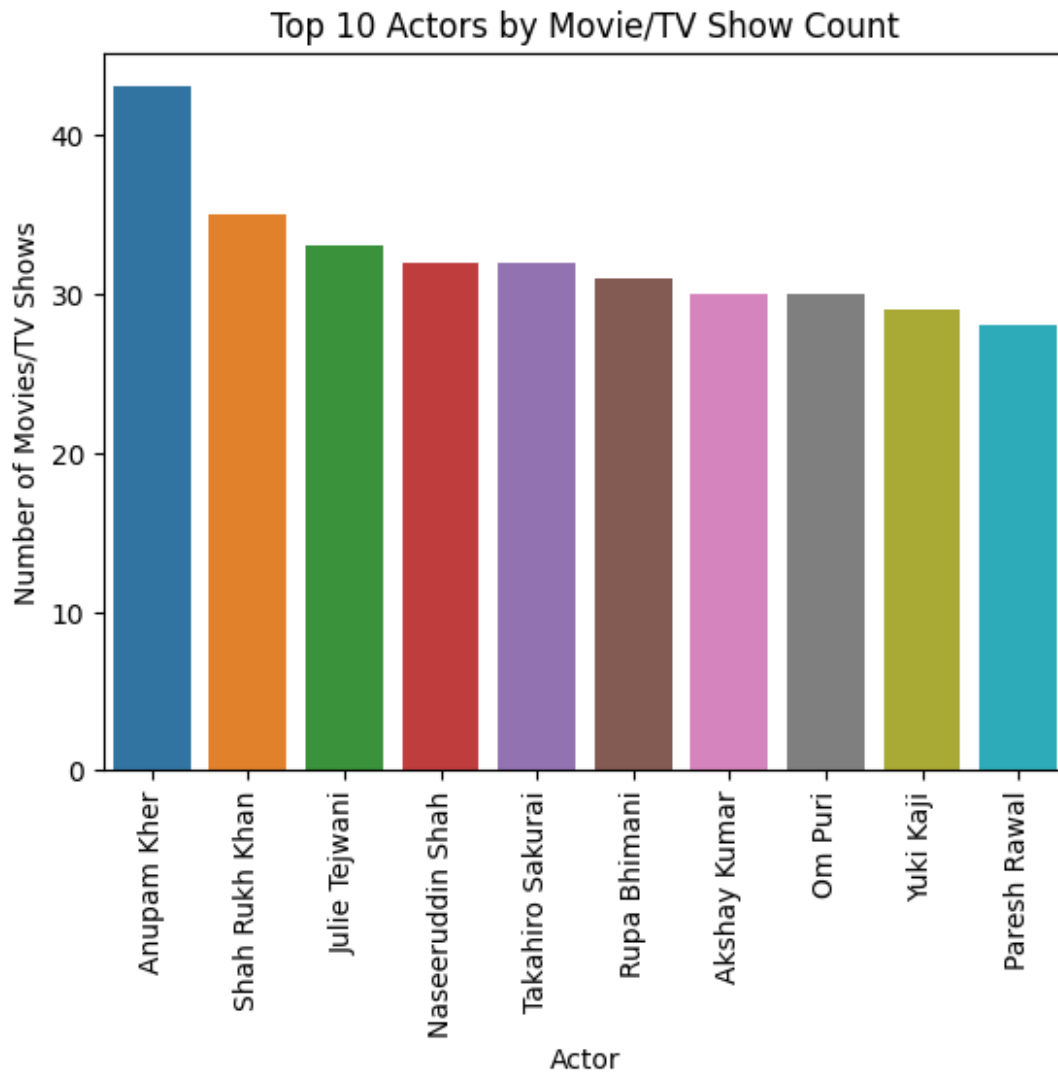


**Insight** - Above graph clearly depicts that US is the top most country where people are fond of Netflix, followed by India & then UK.

Netflix should work on the country where popularity is weak.

**#Top 10 Actor by Movie/TV Show count.**

```
df_cast = df_cast.loc[df_cast["cast"]!="Unknown Actor"]
top_10_actor = df_cast["cast"].value_counts().head(10)
sns.barplot(x = top_10_actor.index, y = top_10_actor.values)
plt.xlabel('Actor')
plt.ylabel('Number of Movies/TV Shows')
plt.title('Top 10 Actors by Movie/TV Show Count')
plt.xticks(rotation = 90)
plt.show()
```

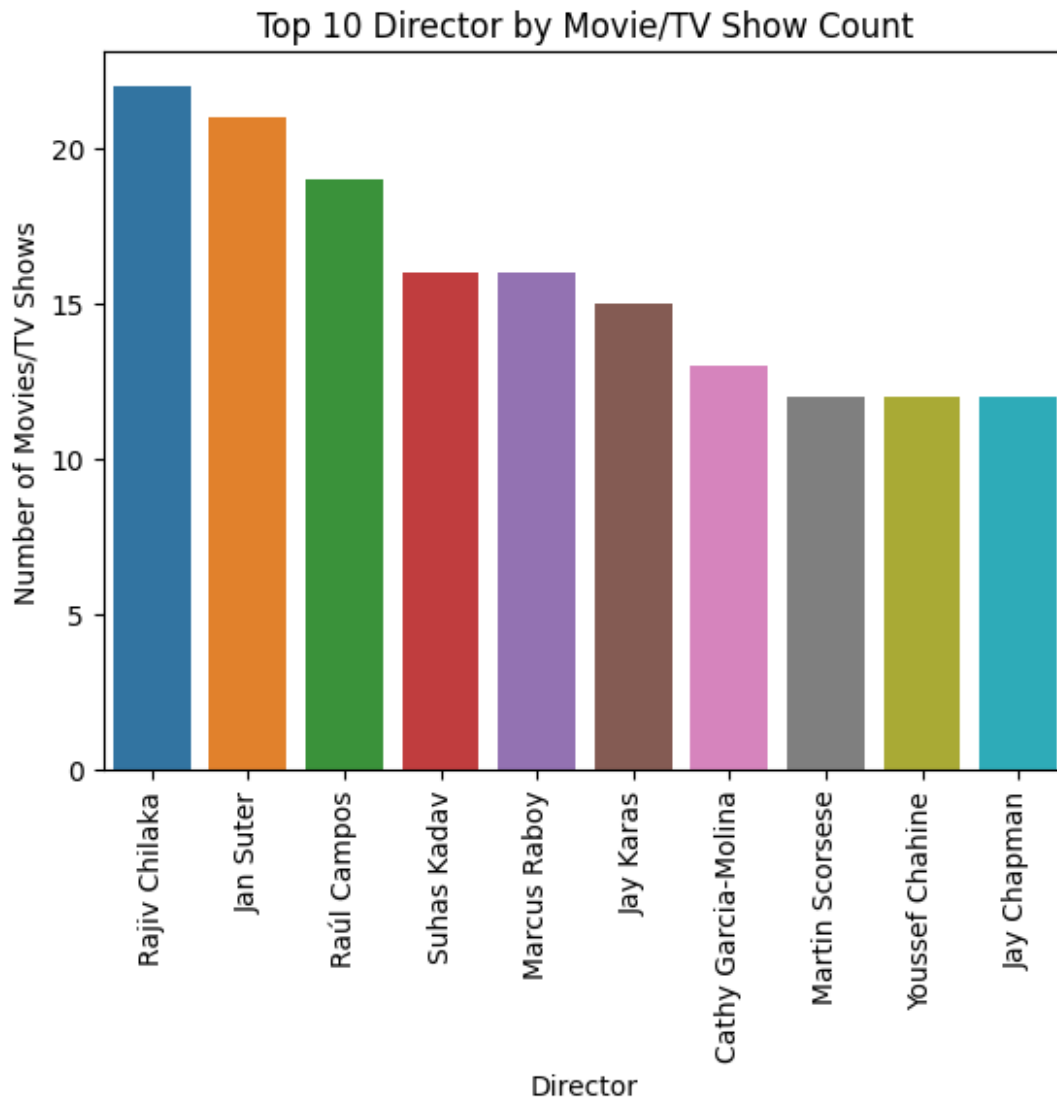


**Insight** - Clearly visible that Anupam kher is the best choice for most of the people, followed by SRK & then Julie Teiwani.

Netflix can focus on adding more content of the preferred actors by the majority of the people.

#### #Top 10 Directors by Movie/TV Show Count

```
df_director = df_director.loc[df_director["director"]!="Unknown
Director"]
top_10_director = df_director["director"].value_counts().head(10)
sns.barplot(x = top_10_director.index, y = top_10_director.values)
plt.xlabel('Director')
plt.ylabel('Number of Movies/TV Shows')
plt.title('Top 10 Director by Movie/TV Show Count')
plt.xticks(rotation = 90)
plt.show()
```

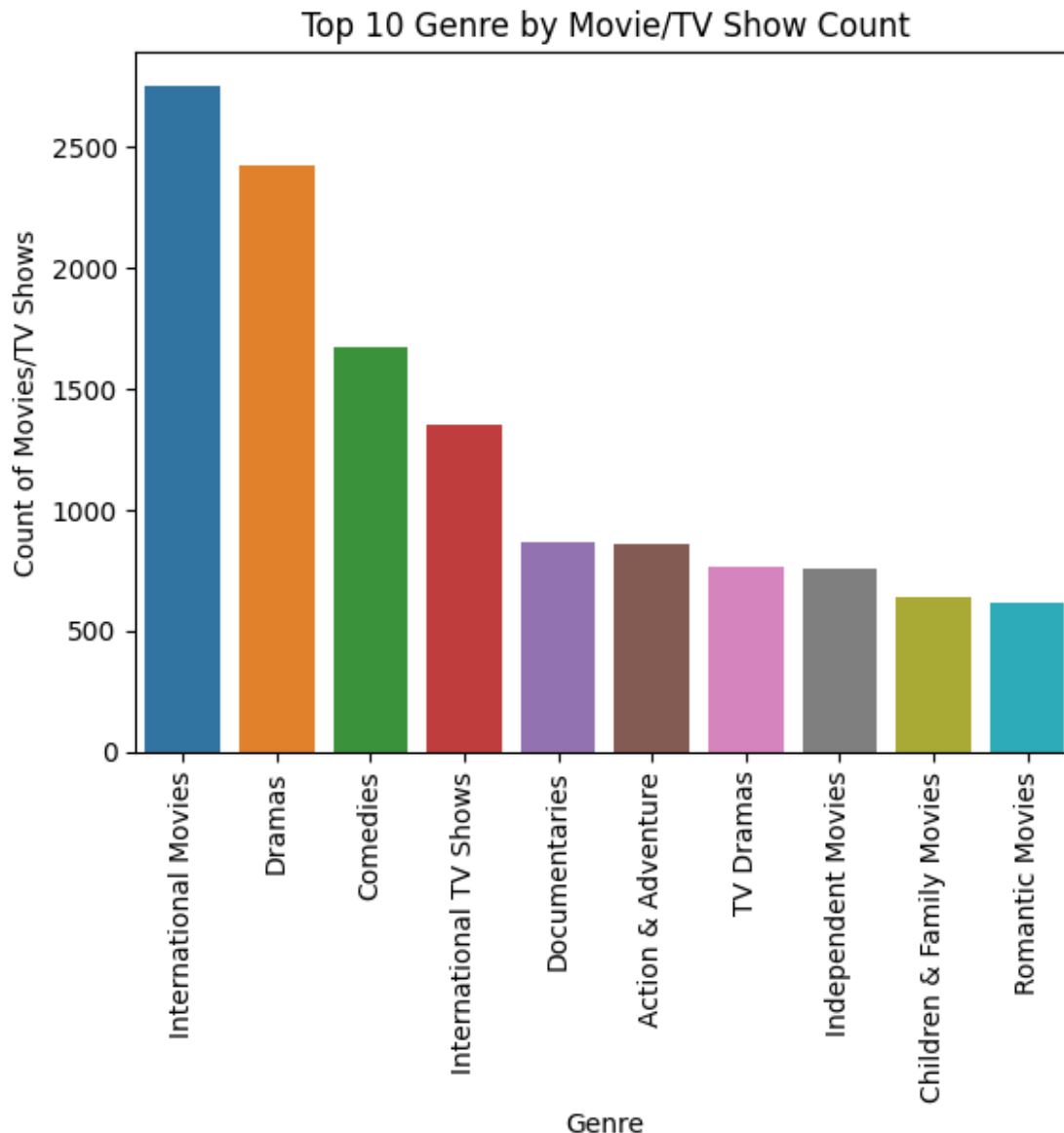


**Insight** - Rajiv Chilaka is the best Director amongst all the directors followed by Jan Suter & then Raul Campos.

Netflix can add more content directed by the popular directors.

#### #Top 10 Genre by Movie/ TV Show Count

```
df_genre = df_genre.loc[df_genre["genre"]!="Unknown Director"]
top_10_genre = df_genre["genre"].value_counts().head(10)
sns.barplot(x = top_10_genre.index, y = top_10_genre.values)
plt.xlabel('Genre')
plt.ylabel('Count of Movies/TV Shows')
plt.title('Top 10 Genre by Movie/TV Show Count')
plt.xticks(rotation = 90)
plt.show()
```



**Insight** - Genre which is topping the list is International Movies, followed by Dramas, & then Comedies.

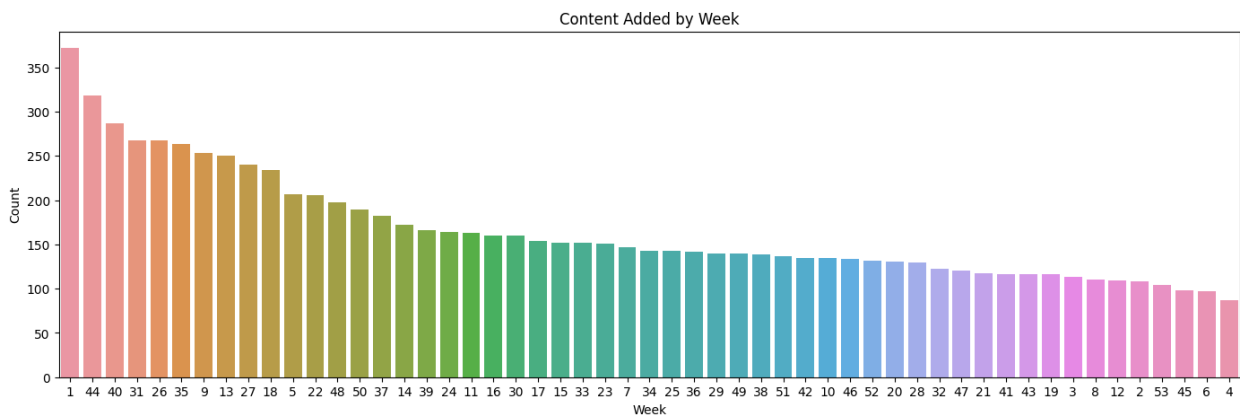
Netflix should keep on adding more content of these Genres.

**#Best week to add Content.**

```
plt.figure(figsize = (17,5))
result = df.groupby(["week_added"])
['title'].count().reset_index().sort_values('title', ascending =
False)
weekly_df = df["week_added"].value_counts()
sns.barplot(x = weekly_df.index , y = weekly_df.values, order =
result["week_added"])
```

```
plt.xlabel('Week')
plt.ylabel('Count')
plt.title('Content Added by Week')
plt.show()

# result = df.groupby(["Id"])
# ['Speed'].aggregate(np.median).reset_index().sort_values('Speed')
# sns.barplot(x='Id', y="Speed", data=df, order=result['Id'])
# plt.show()
```



**Insight** - From the above analysis we can conclude that the best week to add the movie is 1st which further followed by 44th, 40th & 9th week of the year.

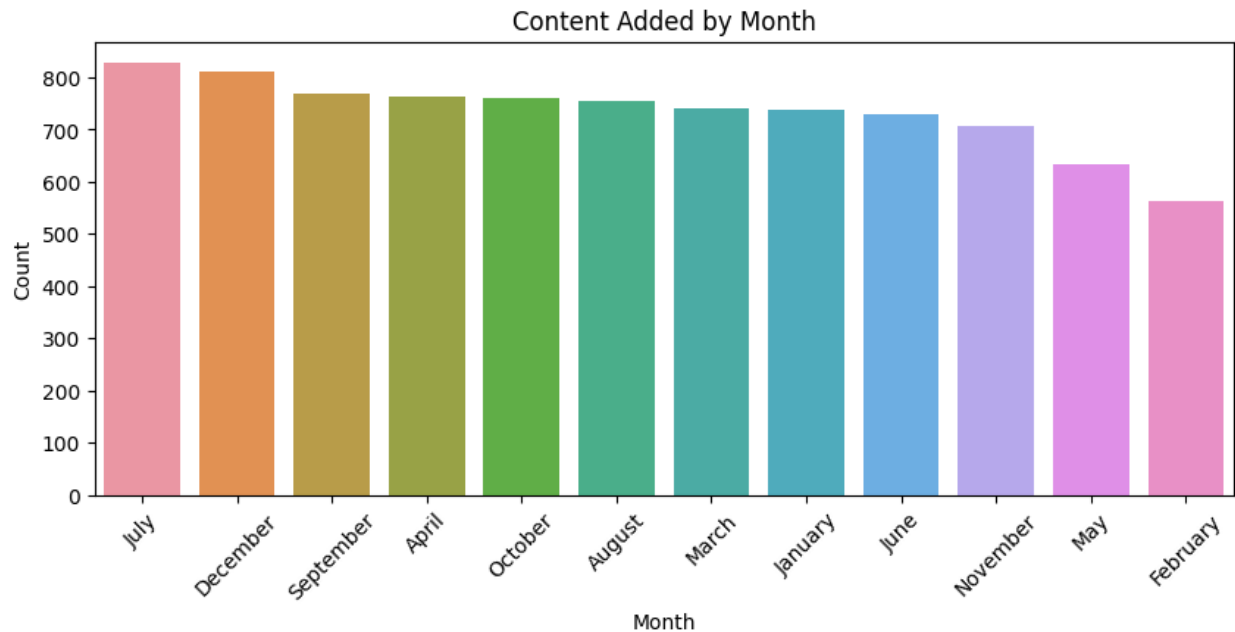
This analysis shows that people tend to watch more content in the beginning of the year, followed by the last quarter of the year. The reason can be the winter break for students and year ending leaves for the employees.

So, Netflix should add more content at the preferable time of the subscribers.

#### #Best month to add Content.

```
plt.figure(figsize = (10,4))
month_df = df["month_name_added"].value_counts().reset_index()
sns.barplot(x = "index", y = "month_name_added", data = month_df)

plt.xlabel('Month')
plt.ylabel('Count')
plt.title('Content Added by Month')
plt.xticks(rotation = 45)
plt.show()
```



**Insight** - Above analysis shows that July is the best month to add a movie, which can further followed by December & September.

### ##Popularity of Genre.

```
text = ",".join(genre for genre in df_genre.genre) #creating list of all the values of listed_in column

word = text.split(",")
dic = {}
for item in word:
    if item in dic:
        dic[item] += 1
    else:
        dic[item] = 1

wordcloud = WordCloud(width = 400, height = 300)
wordcloud.generate_from_frequencies(dic)
plt.figure()
plt.imshow(wordcloud, interpolation="bilinear")
plt.axis("off")
plt.show()
```



**Insight** - From the above generated Word Cloud, we can clearly see that the first category which is topping the list is 'International Movies'. But the list is not ending here and with very small difference International Movies are followed by Dramas, International TV Shows, Comedies and so on.

It is advisable that Netflix should work on the genre which is not getting popularity. Also, Netflix can shift the focus from less popular genre to the popular genre and can make labour, time, money and resources more productive.

**##Years after the release Movie should be added to Netflix.**

```
df["added_release_diff"] = df.year_added - df.release_year #difference between added_year and release year
```

```
df.added_release_diff.mode().reset_index() #mode of year difference between release date and added date
```

index	added_release_diff
0	0

**Insight** - From the past data analysis, we can conclude that content should be added to the Netflix in the same year when the content gets released.

The early the content will be available for the subscribers , people will be more eager to watch the Movies & TV Shoes.

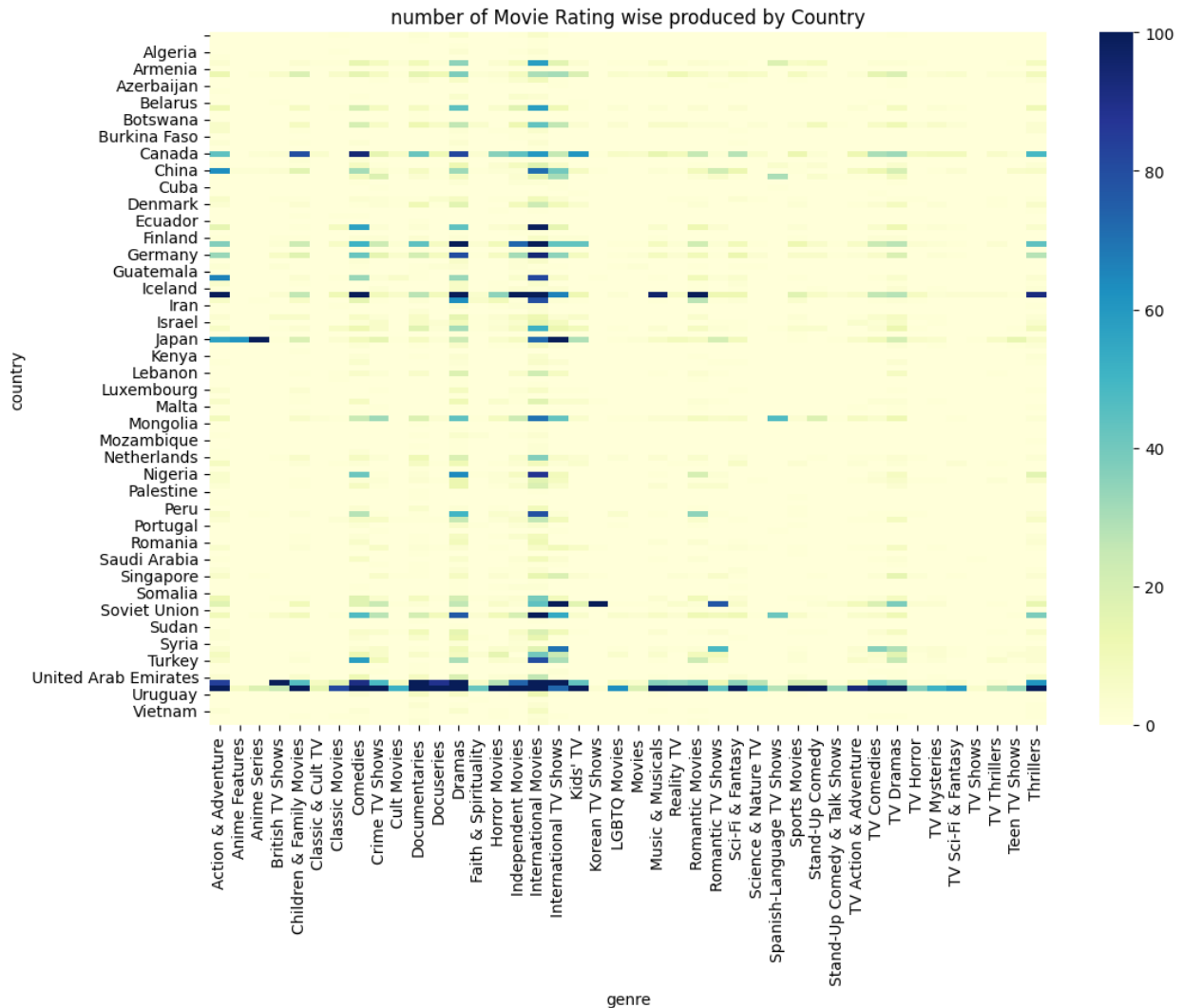
**#Type of content available in different countries.**

```
country_content = pd.merge(df_country, df_genre)
country_content = country_content[["country","genre"]]
country_content["serial_number"] = country_content.index
country_content.reset_index(drop=True, inplace=True)

country_content
=country_content.pivot_table(index="country",columns=["genre"],
aggfunc ="size",fill_value = 0)
country_content[country_content != 0].dropna()

country_content_reset = country_content.reset_index()
plt.figure(figsize=(12, 8))
sns.heatmap(country_content_reset.set_index('country'), fmt='d',
cmap='YlGnBu', vmin=100, vmax=0)
plt.title('number of Movie Rating wise produced by Country')
plt.xlabel('genre')
plt.ylabel('country')
plt.show()
```



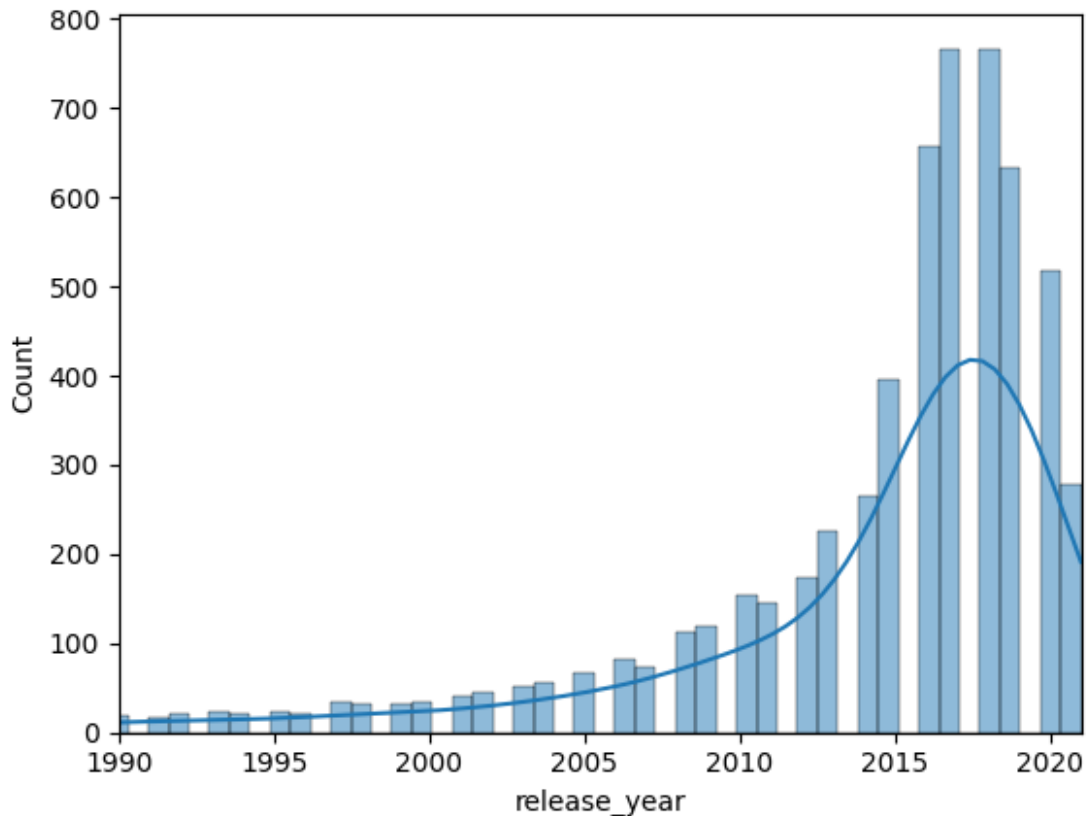


**Insight** - Above heatmap of Country & Genre shows that more or less count of particular genre in the countries.

From the above analysis it is advisable that Netflix should stop listing those genre which are not getting any views as per the country.

**#Number of movies released per year changed over the last 20-30 years.**

```
movie_df_trend = df.loc[df.type=="Movie"]
sns.histplot(movie_df_trend.release_year, kde = True)
plt.xlim([1990, 2021])
plt.show()
```



**Insight** - Above histplot and kdeplot shows the graph of movie release goes up rapidly over the last 20-30 years. but the count came down in the 2020 due to the pandemic of Corona & Lockdown.

**#Content added over the years.**

```
movie_df = df[df.type=="Movie"]
tvshow_df = df[df.type=="TV Show"]

movie_count = movie_df["year_added"].value_counts().sort_index()
tvshow_count = tvshow_df["year_added"].value_counts().sort_index()

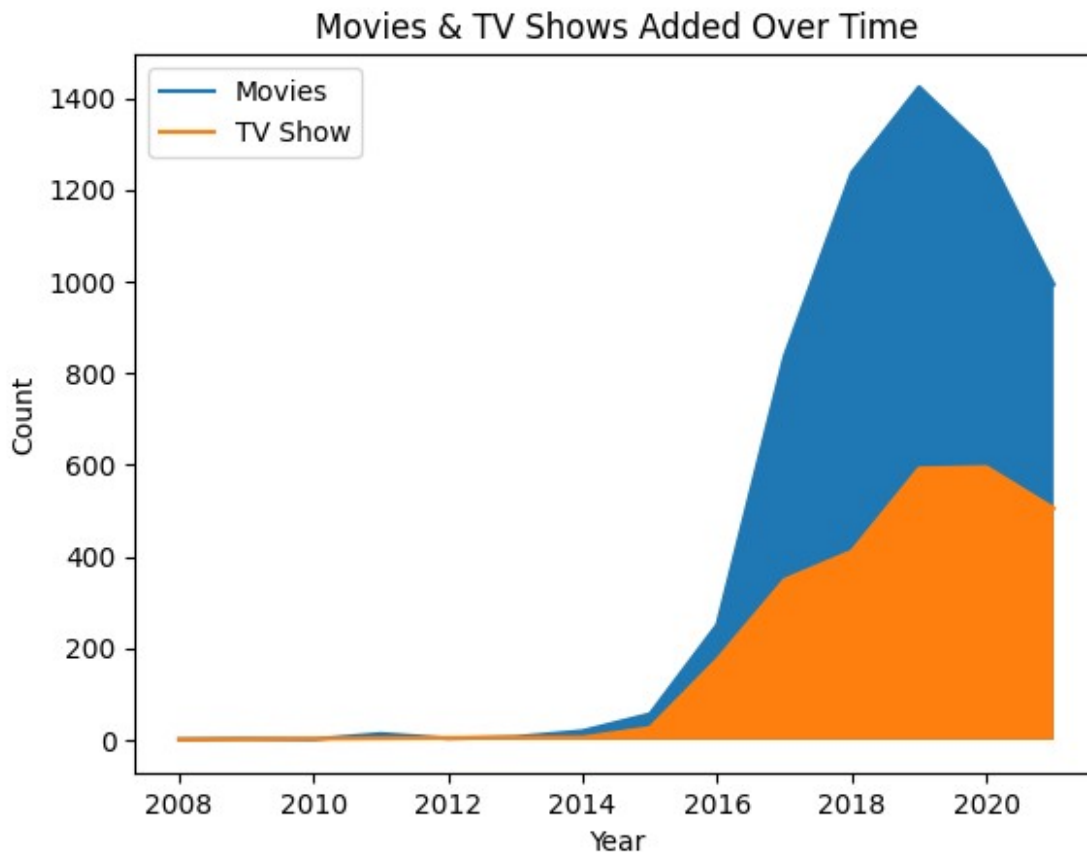
plt.plot(movie_count.index,movie_count.values, label = "Movies")
plt.plot(tvshow_count.index,tvshow_count.values, label = "TV Show")

plt.legend(loc = "upper left")

plt.fill_between(movie_count.index,movie_count.values, label =
"Movies")
plt.fill_between(tvshow_count.index,tvshow_count.values, label =
"Movies")

plt.xlabel('Year')
plt.ylabel('Count')
```

```
plt.title('Movies & TV Shows Added Over Time')
plt.show()
```



**Insight** - Above plot shows that the count of TV Shows are very less in comparison of Movies.

Definitely Netflix have to work on TV Shows part to increase revenue from this area of the business.

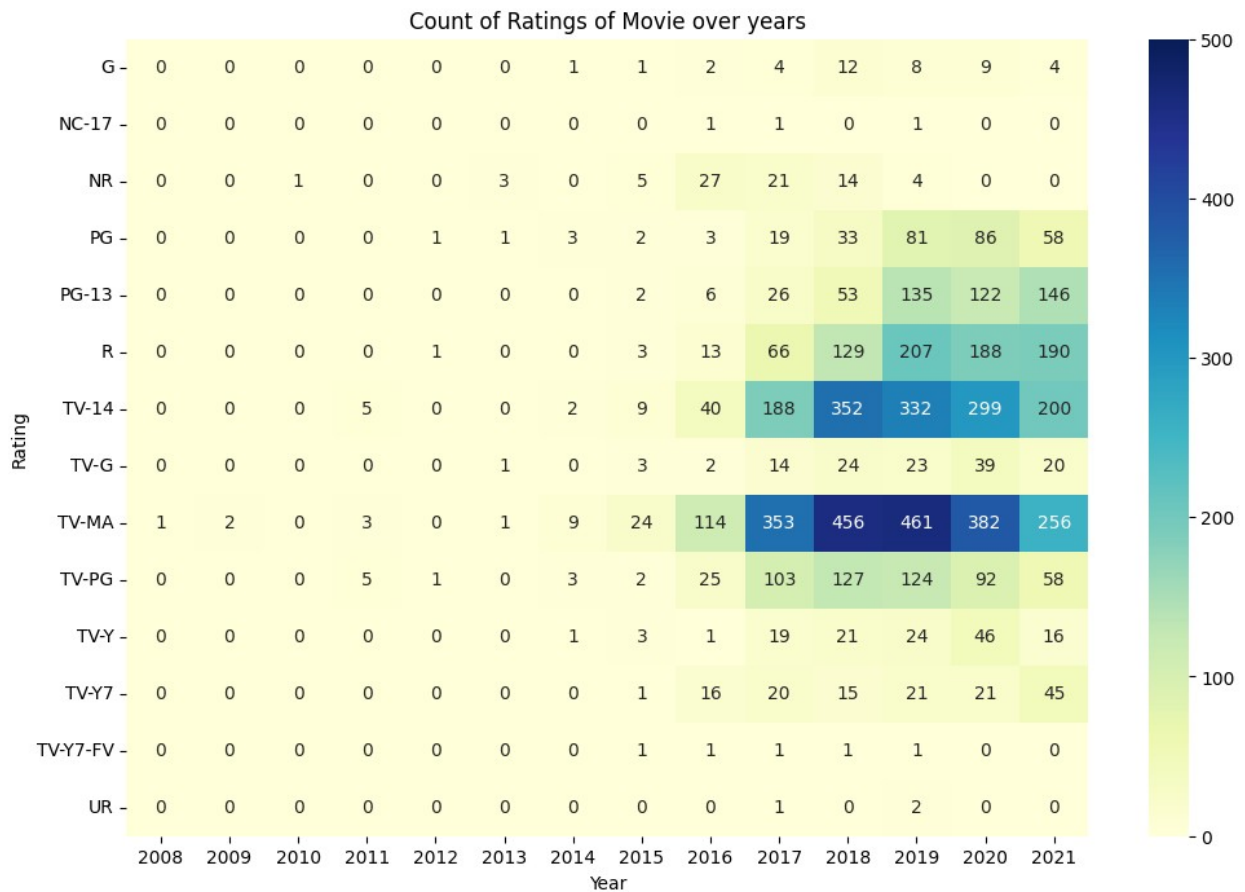
**#Rating count of TV Show over years.**

```
df_rating_year = df[["rating", "type", "year_added"]]

df_rating_year = df_rating_year[df_rating_year["type"] == "Movie"]
df_rating_year = df_rating_year.pivot_table(index='rating',
columns='year_added', aggfunc='size', fill_value=0)
df_rating_year[df_rating_year != 0].dropna()

df_rating_year_reset = df_rating_year.reset_index()
plt.figure(figsize=(12, 8))
sns.heatmap(df_rating_year_reset.set_index('rating'),
fmt='d',annot=True, cmap='YlGnBu', vmin=500, vmax=0)
plt.title('Count of Ratings of Movie over years')
plt.xlabel('Year')
```

```
plt.ylabel('Rating')
plt.show()
```



**Insight** - Above heatmap clearly shows the count of Movies rating across all the years.

Netflix should work on the rating which are not at all choice of the subscribers.

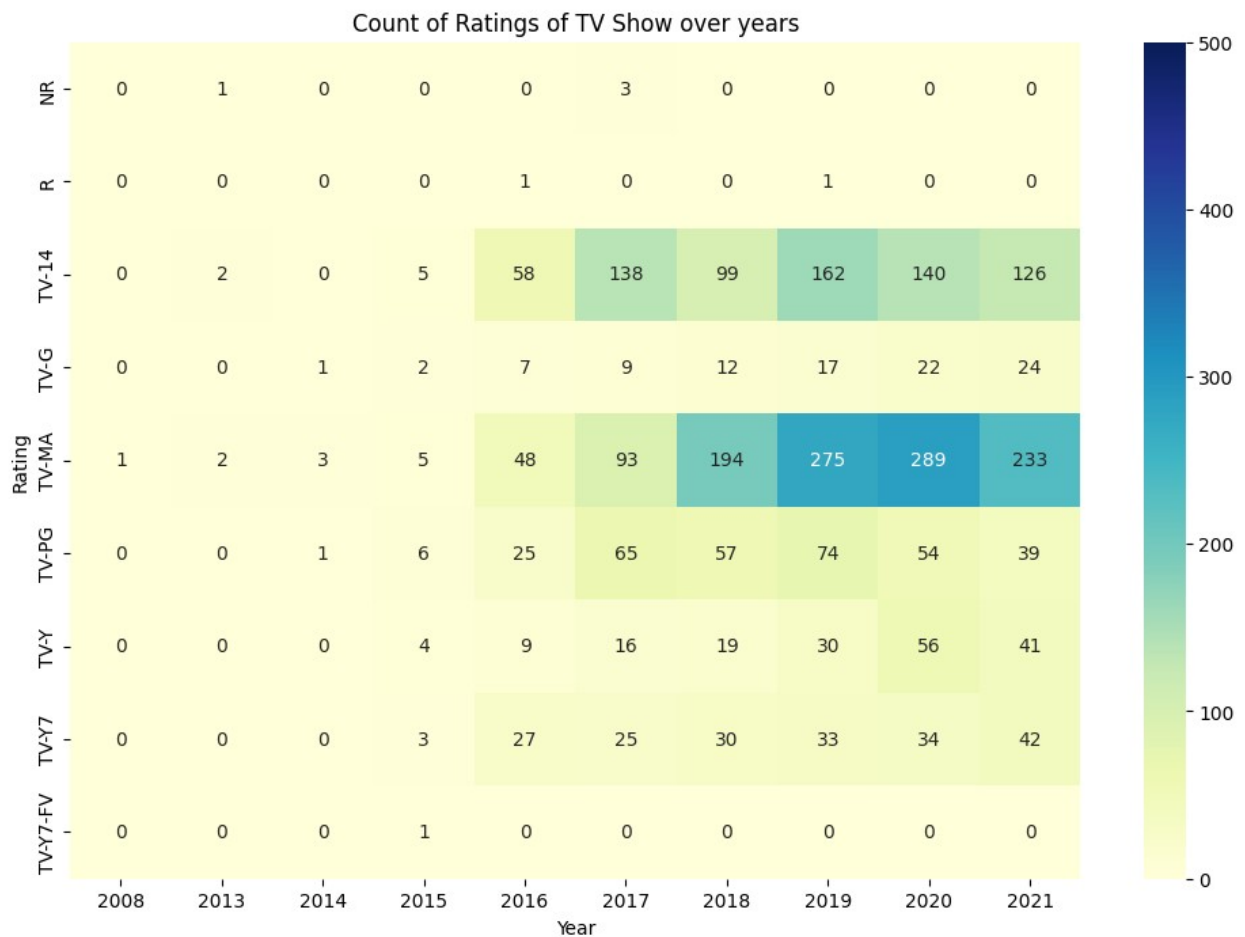
**#Rating count of TV Show over years.**

```
df_rating_year = df[["rating", "type", "year_added"]]

df_rating_year = df_rating_year[df_rating_year["type"] == "TV Show"]
df_rating_year = df_rating_year.pivot_table(index='rating',
columns='year_added', aggfunc='size', fill_value=0)
df_rating_year[df_rating_year != 0].dropna()

df_rating_year_reset = df_rating_year.reset_index()
plt.figure(figsize=(12, 8))
sns.heatmap(df_rating_year_reset.set_index('rating'),
fmt='d', annot=True, cmap='YlGnBu', vmin=500, vmax=0)
plt.title('Count of Ratings of TV Show over years')
```

```
plt.xlabel('Year')
plt.ylabel('Rating')
plt.show()
```



**Insight** - Above heatmap clearly shows the count of TV Shows rating across all the years.

Netflix should work on the rating which are not at all choice of the subscribers.

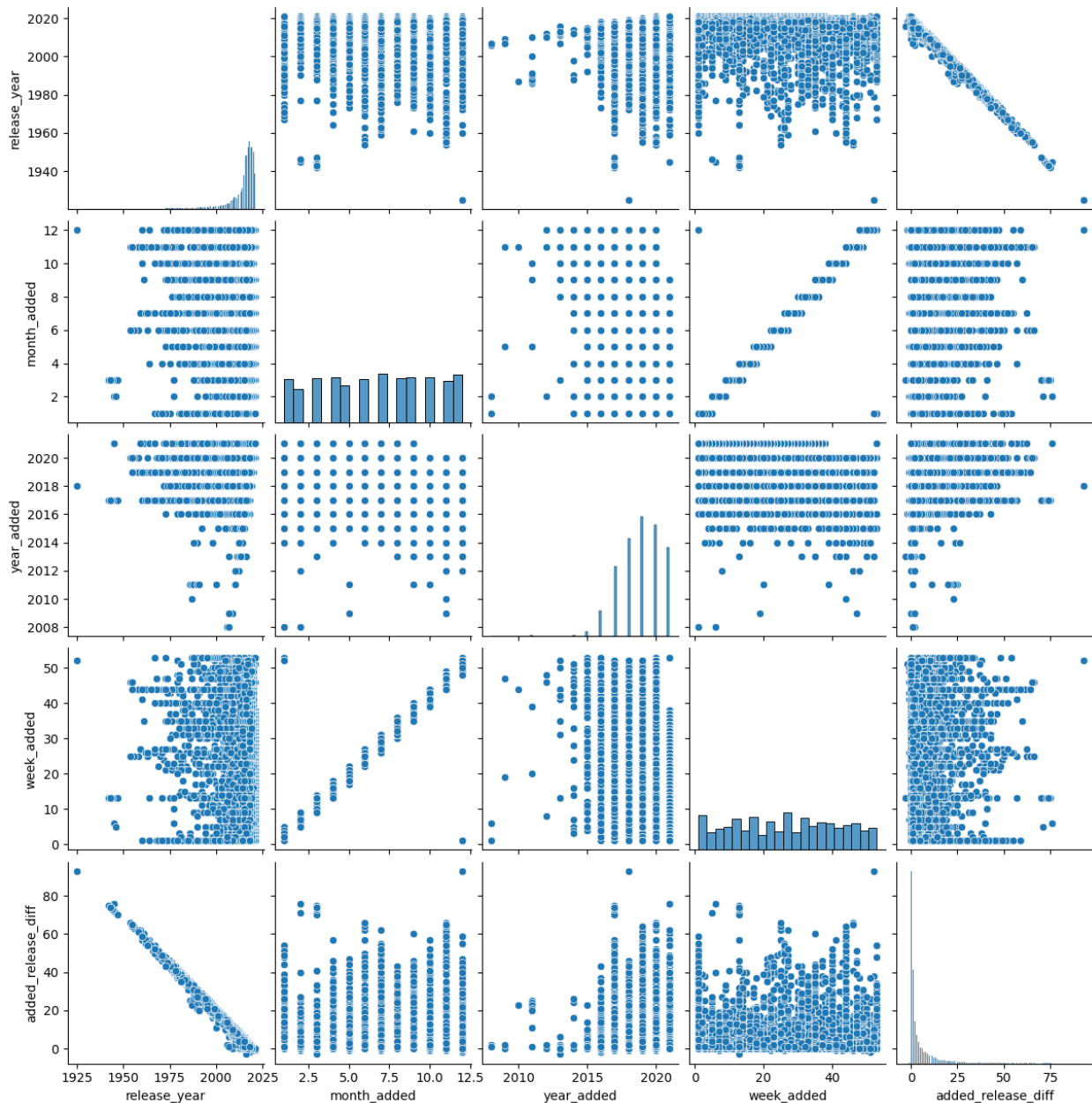
### #Pairwise Relationship

```
sns.pairplot(df)
plt.show()
```

```
/usr/local/lib/python3.10/dist-packages/seaborn/distributions.py:499:
FutureWarning: In a future version, the Index constructor will not
infer numeric dtypes when passed object-dtype sequences (matching
Series behavior)
```

```
pd.Index(edges, name="edges"),
/usr/local/lib/python3.10/dist-packages/seaborn/distributions.py:500:
FutureWarning: In a future version, the Index constructor will not
infer numeric dtypes when passed object-dtype sequences (matching
```

```
Series behavior)
pd.Index(widths, name="widths"),
```



**Insight** - Above pairplot visualize relationships among variables of the dataset. With this, each plot shows the relationship between a pair of variables.

This shows distributions of a single variable and relationships between two variables.

```
duration_df_movie = df.loc[df.type=="Movie"]
duration_df_movie["duration_new"] =
duration_df_movie["duration"].str.split(" ").str[0].astype("int")
sns.violinplot(x = duration_df_movie.type, y =
```

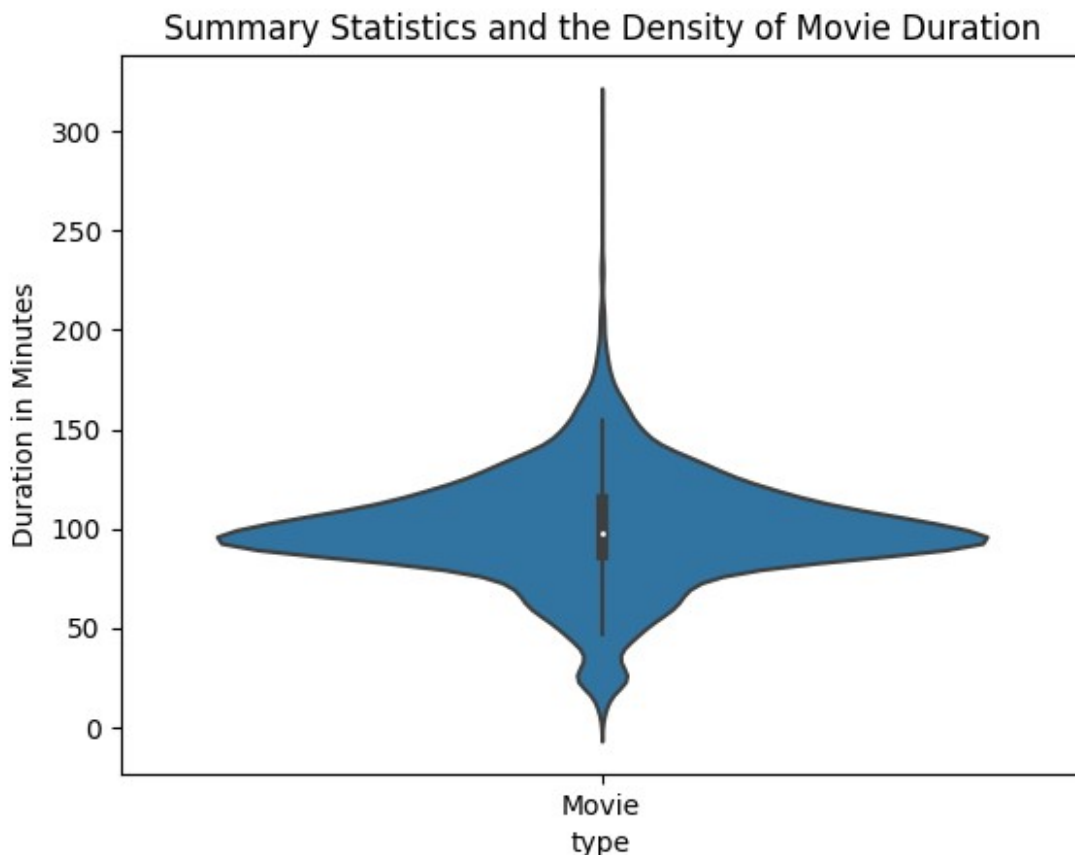
```
duration_df_movie.duration_new)
plt.ylabel("Duration in Minutes")
plt.title("Summary Statistics and the Density of Movie Duration")
plt.show()
```

<ipython-input-112-dae64e198ccf>:2: SettingWithCopyWarning:  
A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
duration_df_movie["duration_new"] =
duration_df_movie["duration"].str.split(" ").str[0].astype("int")
```



**Insight** - Above violinplot shows that the duration of most of the Movies is between 75 to 150 minutes. So Netflix can continue with this approach for further streamings.

```
duration_df_tvshow = df.loc[df.type=="TV Show"]
duration_df_tvshow["duration_new"] =
duration_df_tvshow["duration"].str.split(" ").str[0].astype("int")
sns.violinplot(x = duration_df_tvshow.type, y =
duration_df_tvshow.duration_new)
```

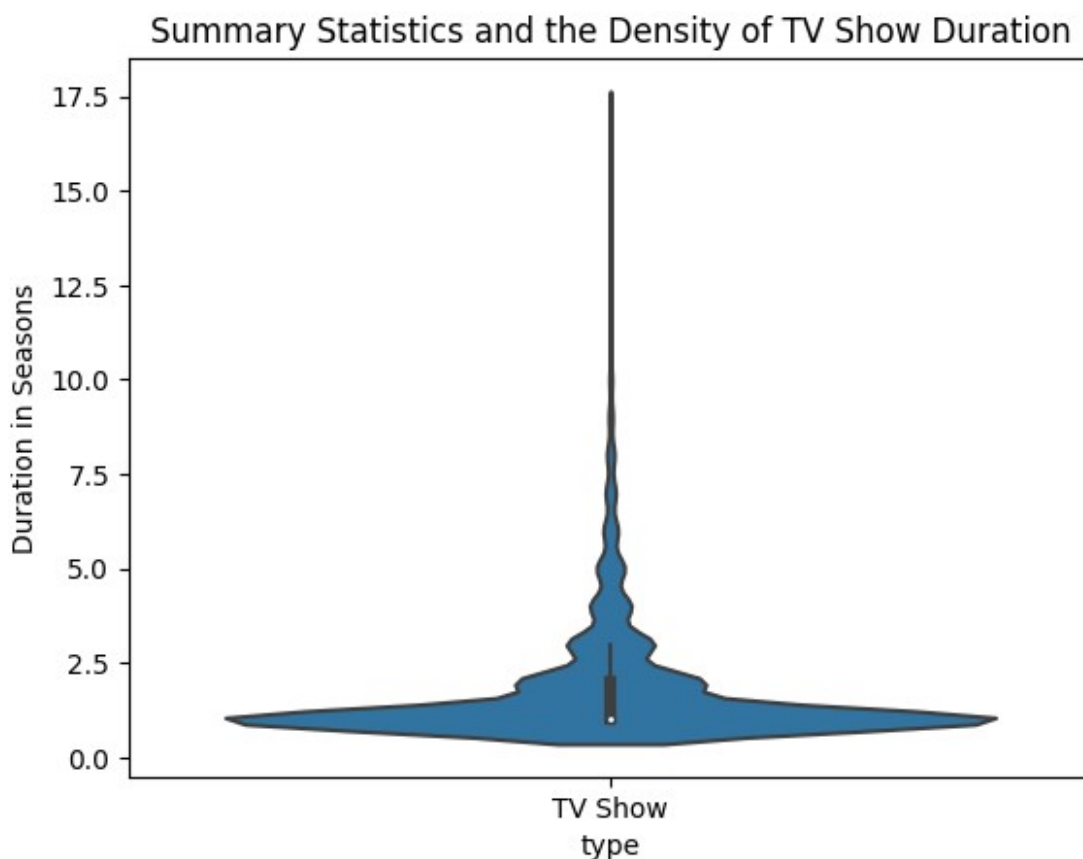
```
plt.ylabel("Duration in Seasons")
plt.title("Summary Statistics and the Density of TV Show Duration")
plt.show()
```

```
<ipython-input-113-572ffe459f6e>:2: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation:

[https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```
duration_df_tvshow["duration_new"] =
duration_df_tvshow["duration"].str.split(" ").str[0].astype("int")
```



**Insight** - Above violinplot shows that the duration of most of the TV Shows is between 1 to 3 Seasons. So Netflix can continue with this approach for further streamings.

## #CONCLUSIONS

**Quantity:** This analysis revealed that Netflix had added more movies than TV shows, aligning with the expectation that movies dominate their content library.

**Content Addition:** July emerged as the month when Netflix adds the most content, closely followed by December, indicating a strategic approach to content release.



**Genre Correlation:** Strong positive associations were observed between various genres, such as TV dramas and international TV shows, romantic and international TV shows, and independent movies and dramas. These correlations provide insights into viewer preferences and content interconnections.

**Rating Distribution:** The distribution of ratings over the years offers insights into the evolving content landscape and audience reception.

**Continued Relevance:** As the streaming industry evolves, understanding patterns and trends becomes increasingly essential for navigating the dynamic landscape of Netflix and its vast library.

## #Recommendations

We have 6126 Movies compared to 2664 TV Shows which is like 2.3x of TV Shows, But in recent years, the trend has changed. In the last 5 years, the Movies proportion has reduced from ~75% to ~47% while TV Show's share has increased from ~25% to ~53%. This reflects that over the period a smaller number of Movies are getting released while more and more TV Shows are getting aired.

Netflix is currently serving mostly Mature audiences or Children with parental guidance (around 80% of content on Netflix). It has scope to cater to other audiences as well such as family men, Senior citizens, kids of various ages, etc.

It is observed that shorter-duration content is on the rise in the last 10 years. (duration 75 to 150 minutes and seasons 1 to 3) . This can be considered while production of new content on Netflix.

Netflix has the majority of content which is released after the year 2000. It is observed that content older than the year 2000 is very scarce on Netflix. Senior Citizens could be the target audience for such content, which is almost missing currently.

Very limited genres are focussed in most of the countries except the US. It seems the currently available genres suit best for the US and a few countries but maximum countries need some more genres which are highly popular in the region. eg. Indian Mythological content is highly popular in India. We can create more country-specific genres and It might also be liked across the world just like Japanese Anime.

Japan has only 3 ratings of content largely served - TV-MA, TV-14, and TV-PG. Japan has a high population of age above 60, and this can be served by increasing the content suitable for this age group.

Country-specific insights - The content needs to be targetting the demographic of any country. Netflix can produce a higher number of content in a particular rating as per the demographic of the country. Eg. A country like India, which is highly populous, has maximum content available only in three ratings TV-MA, TV-14, and TV-PG. It is unlikely to serve the below 14 age and above 35 year age group with only these ratings being available.

Maximum content of Netflix which is around 75%, is coming from the top 10 countries. The United States is the highest contributor, followed by India and the United Kingdom. The rest of the world only contributes 25% of the content. More countries with suitable genres and ratings can be focussed on in the future to grow the business.