

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

#Loading the dataframe into a variable
df = pd.read_csv('/content/drive/MyDrive/SCALER/BUSINESS
CASES/Netflix_Dataset.csv')
```

PROBLEM STATEMENT

Analyze the data 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. We are going to discuss on few of the metrics like Content Volume, Content Growth & Content Performance.

INITIAL OBSERVATION ON THE DATASET

#This tells the number of rows & columns present in the dataframe. Totally there are 8807 rows & 12 columns.

```
df.shape
```

```
(8807, 12)
```

This gives the summary of a DataFrame's structure with the type of the data each column has.

We can see there are a total of 8807 entries for movies & tv shows combined in the dataframe. There are missing values for few columns which we need to deal with.

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 8807 entries, 0 to 8806
```

```
Data columns (total 12 columns):
```

#	Column	Non-Null Count	Dtype
0	show_id	8807 non-null	object
1	type	8807 non-null	object
2	title	8807 non-null	object
3	director	6173 non-null	object
4	cast	7982 non-null	object
5	country	7976 non-null	object
6	date_added	8797 non-null	object
7	release_year	8807 non-null	int64
8	rating	8803 non-null	object
9	duration	8804 non-null	object
10	listed_in	8807 non-null	object

```
11 description      8807 non-null    object
dtypes: int64(1), object(11)
memory usage: 825.8+ KB
```

DATA CLEANING

```
#checking if there are any duplicate titles by converting them into lower case
df['title'] = df['title'].str.lower()
df = df.drop_duplicates(subset=['type', 'title'])

#There are few columns with missing values:
# director, cast & country - we are going to fill the missing values as 'Not Available' as this seems to be the better option instead of filling random values.
#date_added - 10 rows have missing values. We are going fill it with the corresponding release year value

df['director'].fillna('Not-Available', inplace = True)
df['cast'].fillna('Not-Available', inplace = True)
df['country'].fillna('Not-Available', inplace = True)
df['date_added'].fillna(df['release_year'], inplace = True)
df['date_added'] = df['date_added'].astype('str')

'''duration - row number(5541,5794 & 5813) has mssing values. Upon checking the data we can see that the rating column has the duration value present.
So we are going to assign those values to duration column. Then for rating column for these 3 assigning value as 'Not Available'. '''

df['duration'].fillna(df['rating'], inplace = True)

df['rating'].iloc[[5541,5794,5813]] = np.nan
df['rating'].fillna('Not-Available', inplace = True)

<ipython-input-533-1bfc33ffba18>:6: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation:
https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
    df['rating'].iloc[[5541,5794,5813]] = np.nan

#Converting date_added column to datetime format
df['date_added'] = pd.to_datetime(df['date_added'])

#Separating the duration of movies & tv shows
def separate_duration(df):
    if df['type'].lower() == 'movie':
```

```

df['length_in_minutes'] = int(df['duration'].split(' ')[0])
if df['type'].lower() == 'tv show':
    df['season'] = int(df['duration'].split(' ')[0])
return df

```

```

df = df.apply(separate_duration,axis=1)
df.drop('duration',axis=1,inplace=True)

```

```

#Getting the year from date_added column for analysis.
#Ordering the columns in the dataframe.
df['added_year'] = df['date_added'].dt.year
df['added_month'] = df['date_added'].dt.month_name()
df = df[['show_id','type','title','director','cast',
        'country','release_year','rating','length_in_minutes',
        'season','listed_in','description','date_added',
        'added_year','added_month']]

```

Exploratory Data Analysis

Descriptive Analysis

```

#How many movies & TV- shows are present on Netflix
df['type'].value_counts()

```

```

Movie      6129
TV Show    2675
Name: type, dtype: int64

```

```

#Year-wise movie & tv-shows addition to netflix
df.groupby(['type','added_year']).added_year.count()

```

type	added_year	
Movie	2008	1
	2009	2
	2010	1
	2011	13
	2012	3
	2013	6
	2014	19
	2015	56
	2016	253
	2017	839
	2018	1235
	2019	1424
TV Show	2020	1284
	2021	993
	2003	2

2008	2
2010	1
2012	1
2013	6
2014	5
2015	28
2016	177
2017	349
2018	413
2019	591
2020	595
2021	505

Name: added_year, dtype: int64

#rating wise distribution of movies & tv shows

df.groupby(['type', 'rating']).rating.count()

type	rating	
Movie	G	41
	NC-17	3
	NR	74
	Not-Available	5
	PG	287
	PG-13	490
	R	797
	TV-14	1427
	TV-G	126
TV Show	TV-MA	2061
	TV-PG	540
	TV-Y	131
	TV-Y7	139
	TV-Y7-FV	5
	UR	3
	NR	5
	Not-Available	2
	R	2
	TV-14	733
	TV-G	94
	TV-MA	1144
	TV-PG	323
	TV-Y	176
	TV-Y7	195
	TV-Y7-FV	1

Name: rating, dtype: int64

#creating dataframes for movies & tv shows

movie = df[df['type']=='Movie'].drop('season',axis=1)

tv = df[df['type']=='TV Show'].drop('length_in_minutes',axis=1)

```
#Finding average duration of movies over the years
```

```
tv['rating'].value_counts()
```

```
TV-MA      1144
TV-14      733
TV-PG      323
TV-Y7      195
TV-Y       176
TV-G       94
NR          5
R           2
Not-Available  2
TV-Y7-FV    1
Name: rating, dtype: int64
```

VISUAL ANALYSIS

```
fig, axes = plt.subplots(2,2,figsize=(20,10))
```

```
#1) Univariate Analysis - How many movies & TV- shows are present on Netflix
```

```
sns.countplot(x='type',data=df,ax=axes[0,0])
axes[0,0].set_xlabel('Type')
axes[0,0].set_ylabel('Count of Titles')
axes[0,0].set_title('1) Movies & TV Shows Count Distribution')
```

```
#2 Bivariate Analysis - Year-wise movie & tv-shows addition to netflix
```

```
sns.countplot(x='added_year',data=df,hue='type',ax=axes[0,1])
axes[0,1].set_xlabel('Year')
axes[0,1].set_ylabel('Count of Titles')
axes[0,1].set_title('2) Year Wise Movies & TV Shows Addition To Netflix')
```

```
#3) Bivariate Analysis - Rating wise distribution of movies & tv shows
```

```
sns.countplot(x='rating',hue='type',ax=axes[1,0],data=df)
axes[1,0].set_xlabel('Rating')
axes[1,0].set_ylabel('Count of Titles')
axes[1,0].set_title('3) Rating Wise Movies & TV Shows')
axes[1,0].tick_params(labelrotation=90,axis='x')
```

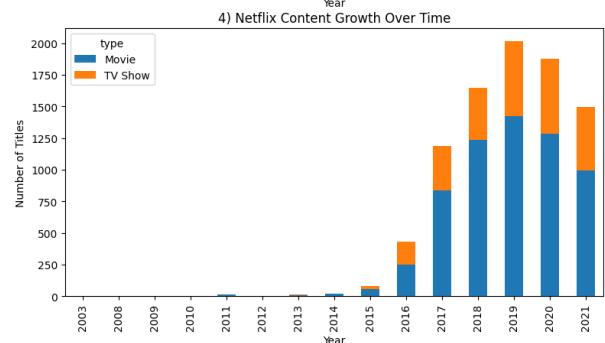
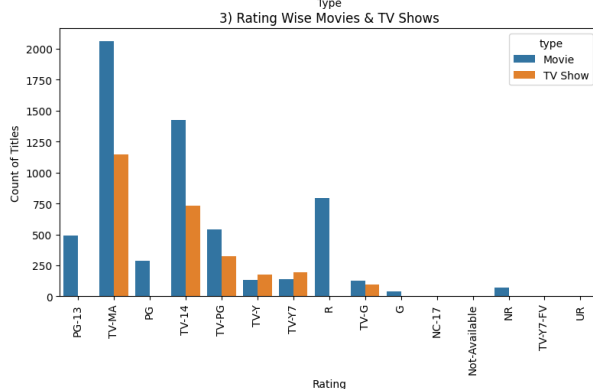
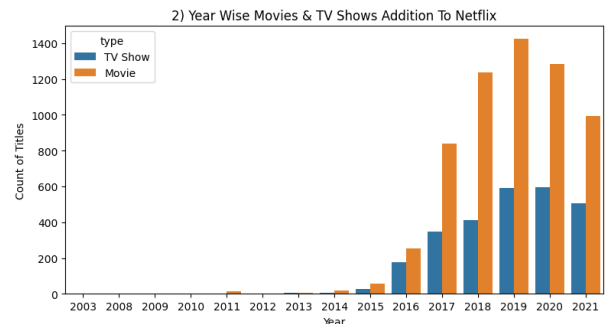
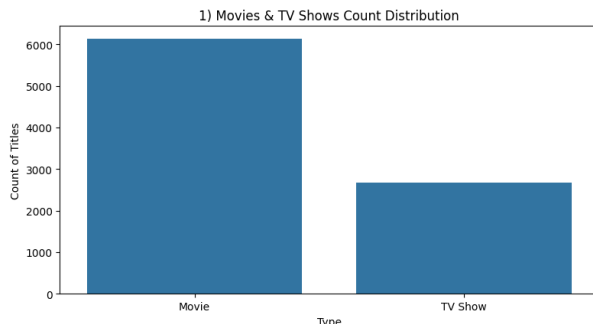
```
#4) Univariate Analysis - Finding average duration of movies over the years
```

```
content_growth = df.groupby(['added_year','type'])
['type'].count().unstack().fillna(0)
content_growth.plot(kind='bar',stacked=True,ax=axes[1,1])
axes[1,1].set_xlabel('Year')
axes[1,1].set_ylabel('Number of Titles')
axes[1,1].set_title('4) Netflix Content Growth Over Time')
```

```
plt.show()
```

#Insights for these graphs:

- #1) We can see the movie count is more than the tv shows count.*
- #2) We can see from around the year 2016, there is an increase in the number of movies & tv shows but we can see a slight drop in 2021.*
- #3) More number of movies & tv shows come under 'TV-MA' rating.*
- #4) From 2016, there is a significant growth in the netflix's content. In 2021 there is a drop in the content for some external reasons.*



```
plt.figure(figsize=(20,8))
```

```
fig, axes = plt.subplots(2,2,figsize=(20,16))
```

#5) Univariate Analysis - Finding average duration of movies over the years

```
sns.lineplot(x=movie.groupby('release_year').length_in_minutes.mean().index,y=movie.groupby('release_year').length_in_minutes.mean(),ax=axes[0,0])
```

```
axes[0,0].set_xlabel('Release Year')
```

```
axes[0,0].set_ylabel('Average Duration')
```

```
axes[0,0].set_title('5) Average duration of movies over the years')
```

#6) Univariate Analysis - TV Show Seasons Distribution on Netflix

```
sns.countplot(x='season',data=tv,ax=axes[0,1])
```

```
axes[0,1].set_xlabel('Number Of Seasons')
```

```
axes[0,1].set_ylabel('Sumner of Shows')
```

```
axes[0,1].set_title('6) Count of Titles for each number of Season')
```

```

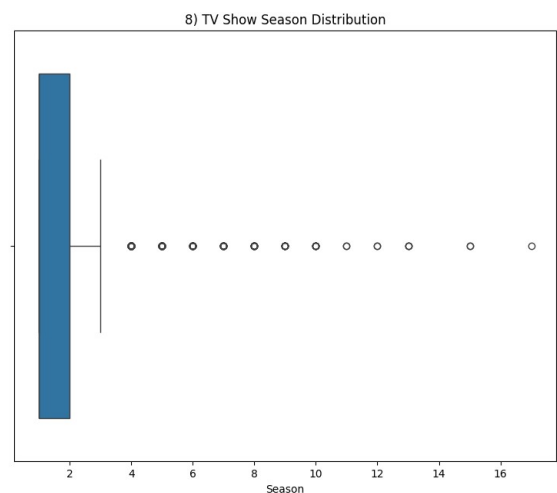
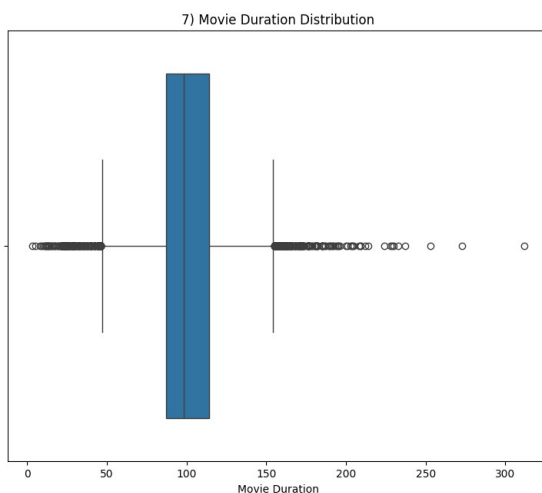
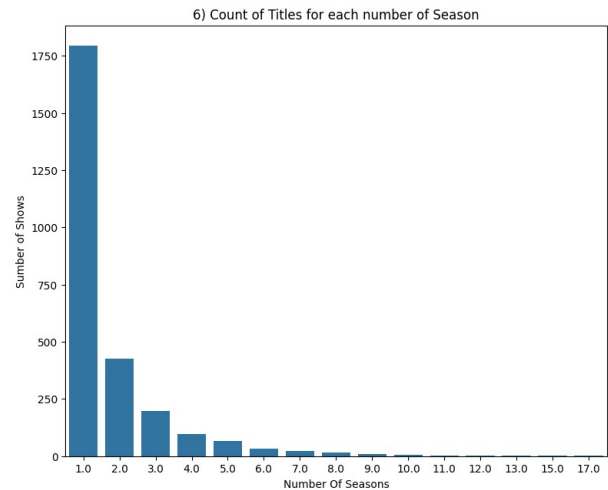
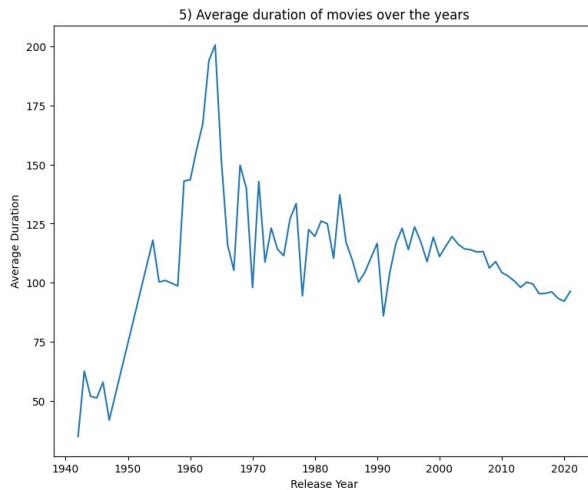
#7) Univariate Analysis -
sns.boxplot(x='length_in_minutes',data=movie,ax=axes[1,0])
axes[1,0].set_xlabel('Movie Duration')
axes[1,0].set_title('7) Movie Duration Distribution')

#8) Univariate Analysis - Finding average duration of movies over the
years
sns.boxplot(x='season',data=tv,ax=axes[1,1])
axes[1,1].set_xlabel('Season')
axes[1,1].set_title('8) TV Show Season Distribution')

plt.show()
#Insights for the below graphs:
#5) There is a flucation in the average duration of the movies during
the initial years where in 1940's it was around 60 minutes & in 1960 -
1970, it was more than 150 minutes.
# In the recent years the average duration for movies is between 100
to 120 minutes.
#6) We can see a trend where more number of tv shows are produced with
only 1 season.
#7) This shows that for movies the min duration ~ 40 minutes & max
duration ~ 150 minutes. Other duration outside the boxplot are
outliers where the movies with those durations are rarely made.
#8) This shows that for tv shows the max number of seasons usually
made are 3 seasons. Very few tv shows are made with more than 3
seasons.

<Figure size 2000x800 with 0 Axes>

```



FURTHER ANALYSIS

#unnesting columns - director, cast, country & listed_in

```
def unnest(df,col):
    a = df[col].str.split(',').to_list()
    b =
pd.DataFrame(a,index=df.index).stack().reset_index().drop('level_1',ax
is=1).set_index('level_0').rename({0:col},axis=1)
    df = df.merge(b,left_index=True,right_index=True,how='inner')
    df[col+'_x'] = df[col+'_y']
    df = df.drop(col+'_y',axis=1).rename({col+'_x':col},axis=1)
    df = df.drop_duplicates(keep='first')
    return df

df = unnest(df,'cast')
df = unnest(df,'director')
df = unnest(df,'country')
df = unnest(df,'listed_in')
```


DESCRIPTIVE ANALYSIS

#Finding out how many unique directors, cast & country and genre is in the dataset

```
director =  
df.drop_duplicates(subset=['title','director']).director.unique().size  
cast = df.drop_duplicates(subset=['title','cast']).cast.unique().size  
country =  
df.drop_duplicates(subset=['title','country']).country.unique().size  
genre =  
df.drop_duplicates(subset=['title','listed_in']).listed_in.unique().size  
  
print('Count\nDirector: {}\nCast: {}\nCountry: {}\nGenre:  
{}`.format(director,cast,country,genre))
```

```
Count  
Director: 4994  
Cast: 36438  
Country: 128  
Genre: 42
```

#Number of titles based on Genre for Movies & TV Shows

```
df.drop_duplicates(subset=['title','listed_in']).groupby(['type','listed_in']).title.count()
```

type	listed_in	
Movie	Action & Adventure	859
	Anime Features	71
	Children & Family Movies	641
	Classic Movies	116
	Comedies	1672
	Cult Movies	70
	Documentaries	869
	Dramas	2426
	Faith & Spirituality	65
	Horror Movies	357
	Independent Movies	756
	International Movies	2750
	LGBTQ Movies	102
	Movies	57
	Music & Musicals	375
	Romantic Movies	616
	Sci-Fi & Fantasy	243
	Sports Movies	219
	Stand-Up Comedy	343
	Thrillers	577
TV Show	Anime Series	176
	British TV Shows	253

Classic & Cult TV	28
Crime TV Shows	470
Docuseries	395
International TV Shows	1350
Kids' TV	451
Korean TV Shows	151
Reality TV	255
Romantic TV Shows	370
Science & Nature TV	92
Spanish-Language TV Shows	173
Stand-Up Comedy & Talk Shows	56
TV Action & Adventure	168
TV Comedies	581
TV Dramas	762
TV Horror	75
TV Mysteries	98
TV Sci-Fi & Fantasy	84
TV Shows	16
TV Thrillers	57
Teen TV Shows	69

Name: title, dtype: int64

assigning dataframes to new variables after unnesting

```
movie_new = df[df['type']=='Movie'].drop('season',axis=1)
```

```
tv_new = df[df['type']=='TV Show'].drop('length_in_minutes',axis=1)
```

#Number of movies done by the actors

```
movie_new.drop_duplicates(subset=['title','cast']).cast.value_counts()  
.drop('Not-Available')
```

Anupam Kher	42
Shah Rukh Khan	35
Naseeruddin Shah	32
Om Puri	30
Akshay Kumar	30

..

Sri Muktha	1
Ravi Babu	1
Daniel Newman	1
Michael Trotter	1
Chittaranjan Tripathy	1

Name: cast, Length: 25950, dtype: int64

#Number of movies directed by the directors

```
movie_new.drop_duplicates(subset=['title','director']).director.value_  
counts().drop('Not-Available')
```

Rajiv Chilaka	22
Jan Suter	21
Raúl Campos	19

Suhas Kadav	16
Marcus Raboy	15

..	..
Vrinda Samarth	1
Nicholaus Goossen	1
Stig Bergqvist	1
Paul Demeyer	1
Mozez Singh	1

Name: director, Length: 4777, dtype: int64

#Number of movies available in each country

```
movie_new.drop_duplicates(subset=['title','country']).country.value_counts().drop('Not-Available')
```

United States	2751
India	962
United Kingdom	532
Canada	319
France	303

...	...
Ecuador	1
Armenia	1
Mongolia	1
Mozambique	1
Montenegro	1

Name: country, Length: 122, dtype: int64

Number of tv shows done by the actors

```
tv_new.drop_duplicates(subset=['title','cast']).cast.value_counts().drop('Not-Available')
```

Takahiro Sakurai	25
Yuki Kaji	19
Junichi Suwabe	17
Ai Kayano	17
Daisuke Ono	17

..	..
Morla Gorrondona	1
Dana Davis	1
Genesis Rodriguez	1
Merit Leighton	1
Hina Khawaja Bayat	1

Name: cast, Length: 14862, dtype: int64

#Number of tv shows directed by the directors

```
tv_new.drop_duplicates(subset=['title','director']).director.value_counts().drop('Not-Available')
```

Alastair Fothergill	3
Ken Burns	3
Iginio Straffi	2

```

Gautham Vasudev Menon      2
Hsu Fu-chun                 2
..
Jesse Vile                  1
Ellena Wood                 1
Picky Talarico              1
Pedro Waddington            1
Michael Cumming             1
Name: director, Length: 299, dtype: int64

#Number of tv shows available in each country
tv_new.drop_duplicates(subset=['title', 'country']).country.value_counts().drop('Not-Available')

United States               937
United Kingdom              272
Japan                       199
South Korea                 170
Canada                      126
...
Malta                       1
United Arab Emirates        1
Belarus                     1
Uruguay                     1
Switzerland                  1
Name: country, Length: 66, dtype: int64

```

VISUAL ANALYSIS

```

fig, axes = plt.subplots(1,2,figsize=(20,8))

#9) Univariate Analysis - Average duration of movies in each Genre
mv =
movie_new.drop_duplicates(subset=['title', 'listed_in']).groupby('listed_in').length_in_minutes.mean()
sns.barplot(x=mv.index,y=mv,ax=axes[0])
axes[0].set_xlabel('Genre')
axes[0].set_ylabel('Average Movie Duration')
axes[0].set_title('9) Average duration of movies in each Genre')
axes[0].tick_params(labelrotation=90,axis='x')

#10) Univariate Analysis - Average Number of TV Show Seasons in each Genre
t =
tv_new.drop_duplicates(subset=['title', 'listed_in']).groupby('listed_in').season.mean()
sns.barplot(x=t.index,y=round(t),ax=axes[1])
axes[1].set_xlabel('Genre')
axes[1].set_ylabel('Average TV Show Seasons')
axes[1].set_title('10) Average Number of TV Show Seasons in each

```

```
Genre')
axes[1].tick_params(labelrotation=90,axis='x')

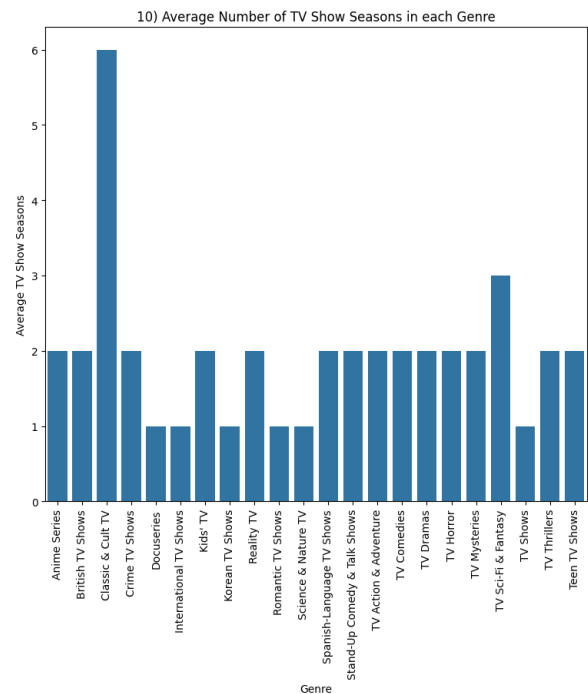
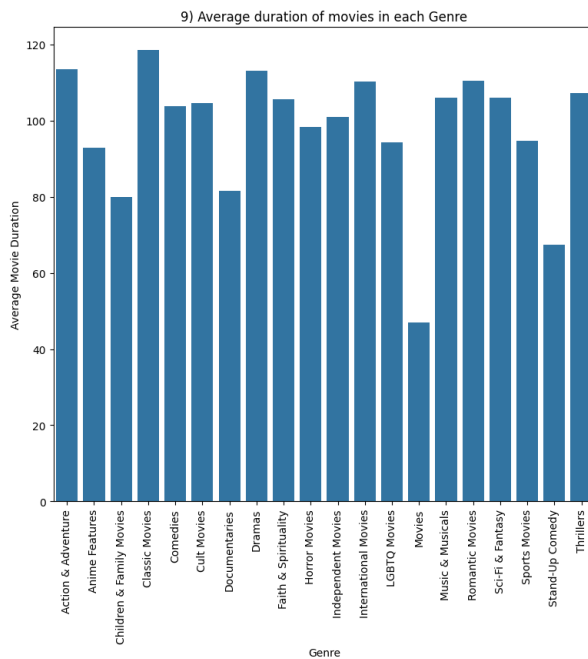
plt.show()
```

#Insights for the below graphs:

#9) This shows the average duration of movies under each genres.

Movies in most of the Genres are between 80 to 120 minutes.

#10) This shows the average TV Show Seasons under each genres. TV Shows in most of the Genres are made of either 1 or 2 seasons.



```
fig, axes = plt.subplots(1,2,figsize=(20,8))
```

#11) Univariate Analysis - Top 10 Countries where more Movies are Produced

```
top10_cm_df = movie_new.drop_duplicates(subset=['title','country'])
top10_country = top10_cm_df['country'].value_counts().drop('Not-
Available').iloc[0:10].index
top10_country_movie_produced =
top10_cm_df[top10_cm_df['country'].isin(top10_country)]
```

```
sns.countplot(x='country',data=top10_country_movie_produced,order=top1
0_country_movie_produced['country'].value_counts(ascending=False).inde
x,ax=axes[0])
axes[0].set_xlabel('Country')
axes[0].set_ylabel('Count of Movies')
```

```
axes[0].set_title('11) Top 10 Countries where more Movies are Produced')
axes[0].tick_params(labelrotation=90,axis='x')
```

#12) Univariate Analysis - Top 10 Countries where more TV Shows are Produced

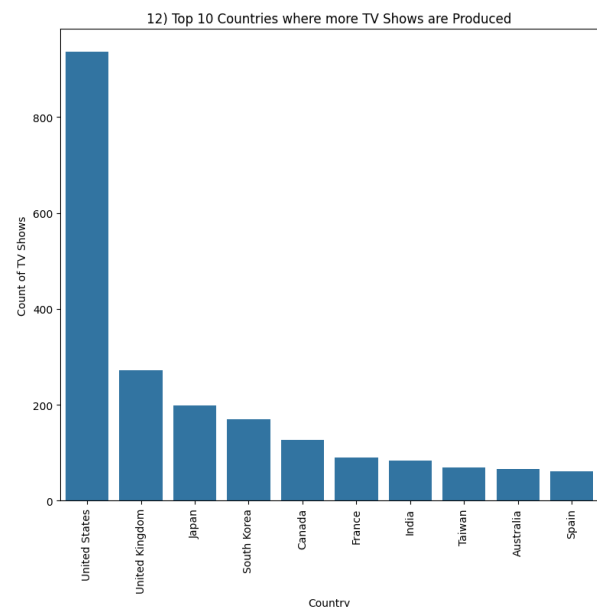
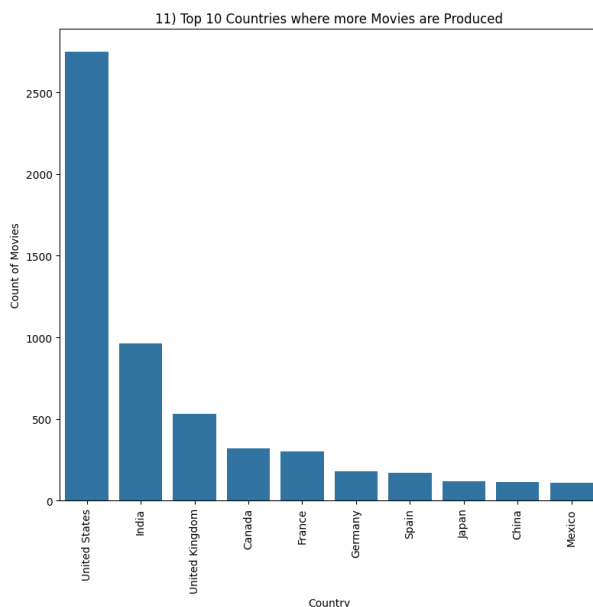
```
top10_ctv_df = tv_new.drop_duplicates(subset=['title','country'])
top10_country = top10_ctv_df['country'].value_counts().drop('Not-Available').iloc[0:10].index
top10_country_tv_produced =
top10_ctv_df[top10_ctv_df['country'].isin(top10_country)]
```

```
sns.countplot(x='country',data=top10_country_tv_produced,order=top10_country_tv_produced['country'].value_counts(ascending=False).index,ax=axes[1])
axes[1].set_xlabel('Country')
axes[1].set_ylabel('Count of TV Shows')
axes[1].set_title('12) Top 10 Countries where more TV Shows are Produced')
axes[1].tick_params(labelrotation=90,axis='x')
```

#Insights for the below graphs:

#11) More movies are produced in United States followed by India.

#12) More Tv Shows are produced in United States followed by United Kingdom.



Co-Relation, PairPlot and HeatMaps

#Co-Relation: Measures the relationship between 2 numerical columns in the dataframe.

We don't see much of the co-relation in this dataframe as there are lesser numerical columns.

However, for movies dataframe we can see a slight negative co-relation between release_year and length_in_minutes meaning as the year passes the duration of the movie drops.

```
movie.corr()
```

```
<ipython-input-559-eb03073480ac>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.
```

```
movie.corr()
```

```
{  
  "summary": "  
    {  
      \"name\": \"movie\",  
      \"rows\": 3,  
      \"fields\": [  
        {  
          \"column\": \"release_year\",  
          \"properties\": {  
            \"dtype\": \"number\",  
            \"std\": 0.6376325633629469,  
            \"min\": -0.20651967502726185,  
            \"max\": 1.0,  
            \"num_unique_values\": 3,  
            \"samples\": [  
              1.0,  
              -0.20651967502726185,  
              0.03902720086561585  
            ],  
            \"semantic_type\": \"\",  
            \"description\": \"\",  
            \"length_in_minutes\": \"\",  
            \"properties\": {  
              \"dtype\": \"number\",  
              \"std\": 0.6233237020661075,  
              \"min\": -0.20651967502726185,  
              \"max\": 1.0,  
              \"num_unique_values\": 3,  
              \"samples\": [  
                -0.20651967502726185,  
                1.0,  
                0.1250233650643551  
              ],  
              \"semantic_type\": \"\",  
              \"description\": \"\",  
            }  
          },  
          {  
            \"column\": \"added_year\",  
            \"properties\": {  
              \"dtype\": \"number\",  
              \"std\": 0.5317342965266856,  
              \"min\": 0.03902720086561585,  
              \"max\": 1.0,  
              \"num_unique_values\": 3,  
              \"samples\": [  
                0.03902720086561585,  
                0.1250233650643551,  
                1.0  
              ],  
              \"semantic_type\": \"\",  
              \"description\": \"\",  
            }  
          }  
        ]  
      }  
    }  
  },  
  \"type\": \"dataframe\"  
}
```

```
tv.corr()
```

```
<ipython-input-560-e537718500ae>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_only to silence this warning.
```

```
tv.corr()
```

```
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  \"type\": \"dataframe\"  
}
```

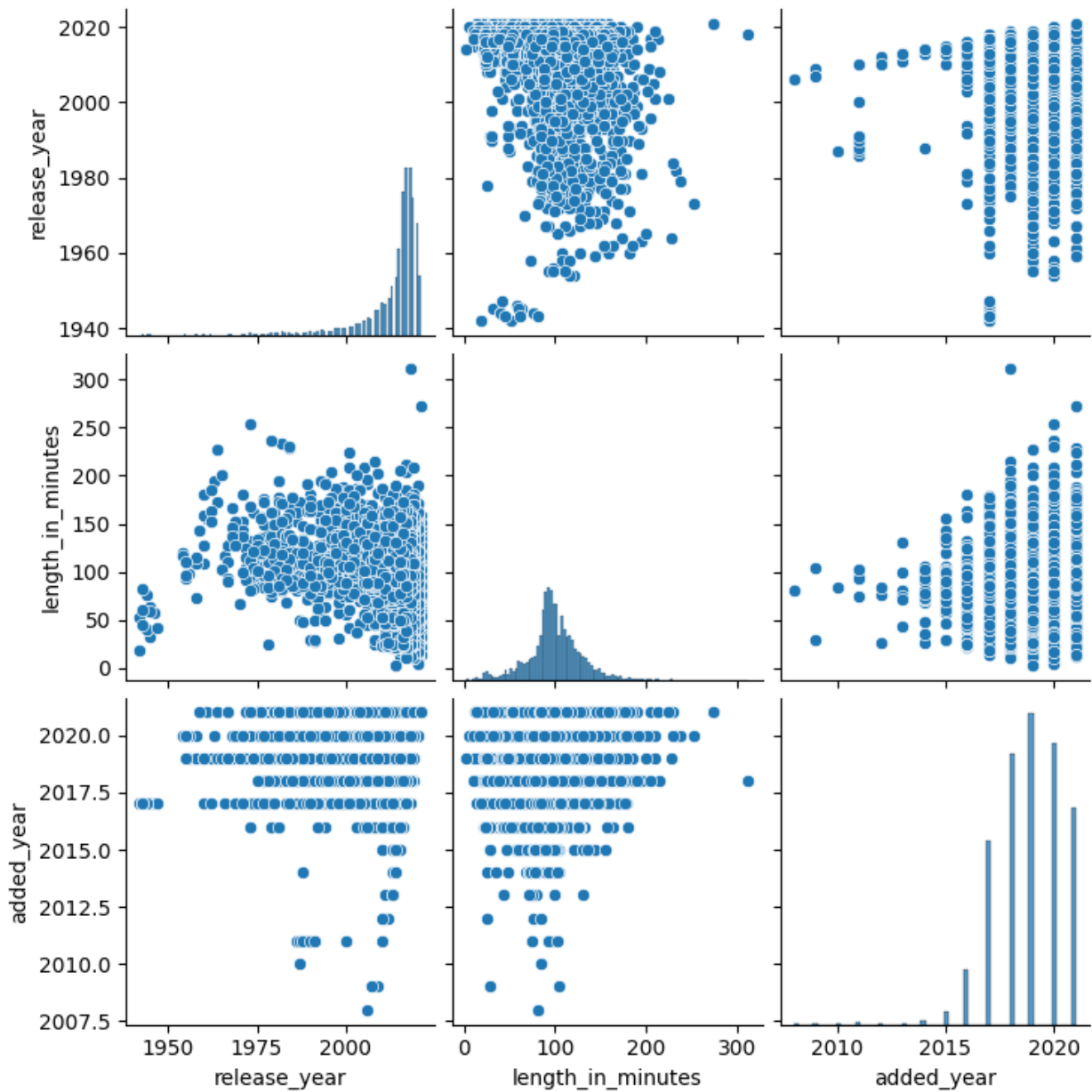
```

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```

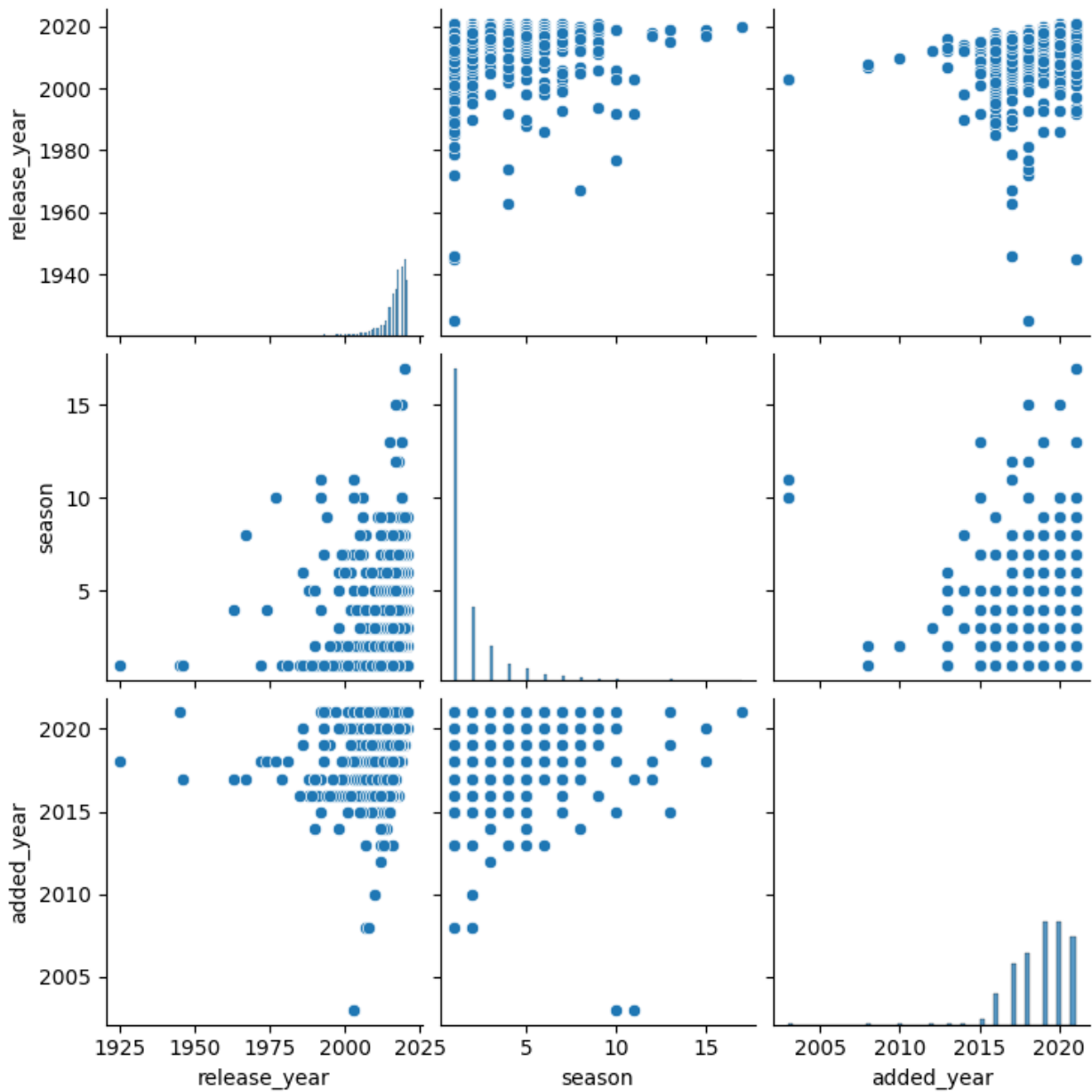
```
sns.pairplot(movie)
```

```
<seaborn.axisgrid.PairGrid at 0x786e320e0940>
```

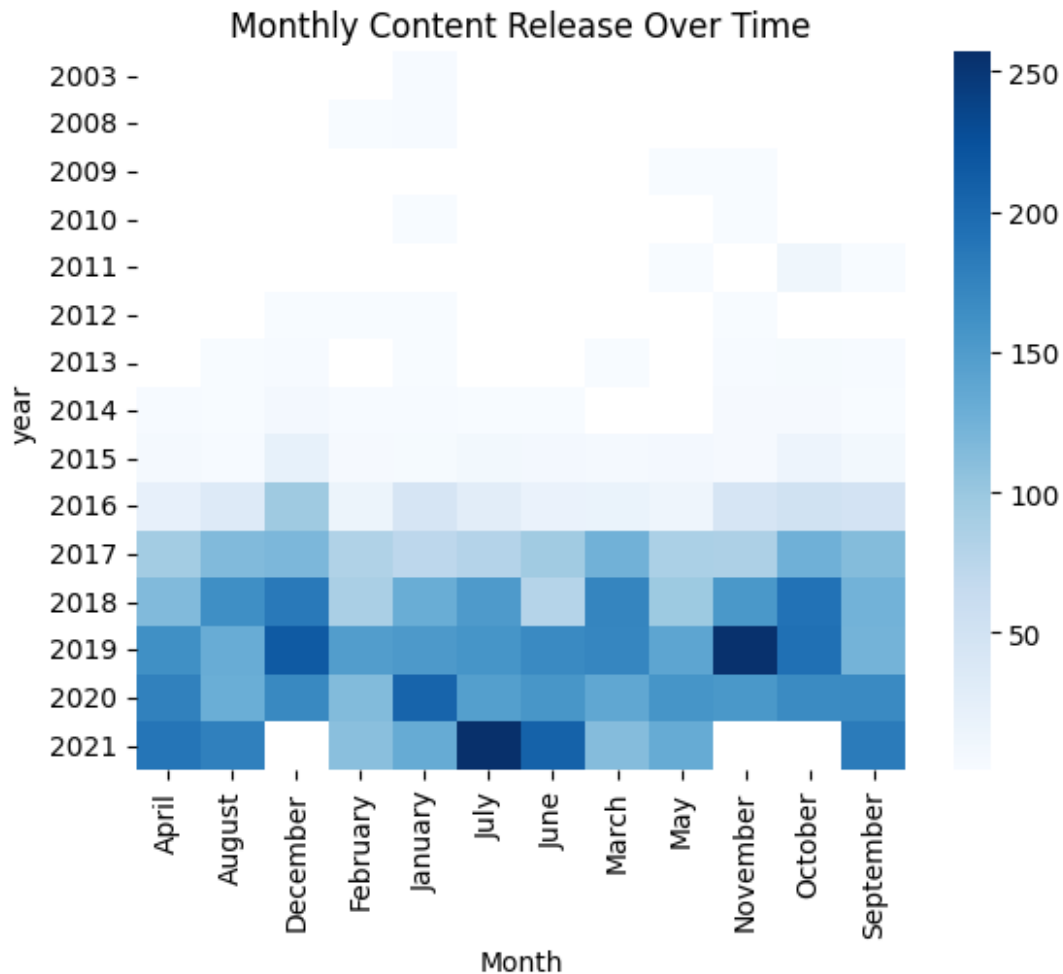



```
sns.pairplot(tv)
```

```
<seaborn.axisgrid.PairGrid at 0x786e329d6380>
```



```
#HeatMap
#This shows the volume of content released on Netflix over Month and
year
hm = df.drop_duplicates(subset=['type', 'title', 'added_year'])
hm =
hm.pivot_table(index='added_year', columns='added_month', values='title'
,aggfunc='count')
sns.heatmap(hm, cmap='Blues', cbar=True)
plt.xlabel('Month')
plt.ylabel('year')
plt.title('Monthly Content Release Over Time')
plt.show()
```



OVERALL INSIGHTS AND RECOMMENDATIONS

INSIGHTS:

At the moment in the dataset, we can see that there are more movies than tv shows. From the year 2016, there is an increase in the number of movies & tv shows but we can see a slight drop in 2021 for some reasons. More number of movies & tv shows come under 'TV-MA' rating. Movies released in the recent years have an average duration between 100 to 120 minutes and most of the tv shows produced have only 1 season. More movies are produced in United States followed by India and more Tv Shows are produced in United States followed by United Kingdom. More movies are released in the Genres - International Movies, Dramas & Comedies. More tv shows are released in the Genres - International TV Shows, TV Dramas & TV Comedies.

RECOMMENDATIONS:

Netflix should acquire and also produce more tv shows as well to attract more user base which helps Netflix in generating more revenue. As there are more tv shows with 1 season, netflix should make more limited series with 1 season and some shows with 2 seasons. Netflix should release more movies which are around 2 hours in duration. Netflix should focus on releasing movies and tv shows of different genres. Netflix should also start acquiring more movies and tv shows from different countries to increase its user base and enrich its content.