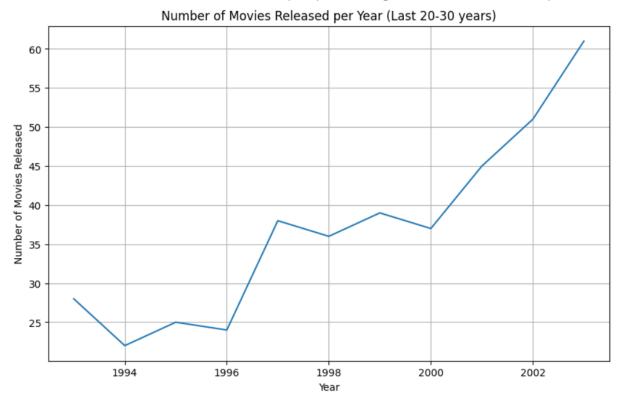
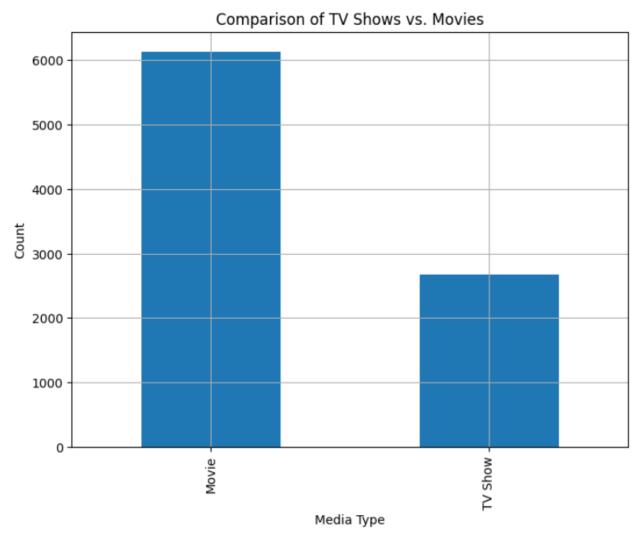
Defining Problem Statement and Analysing basic metrics

Problem Statement: to Analyze the data and generate insights which helps deciding what type of shows/movies to produce and how to grow business in various countries

How has the number of movies released per year changed over the last 20-30 years?

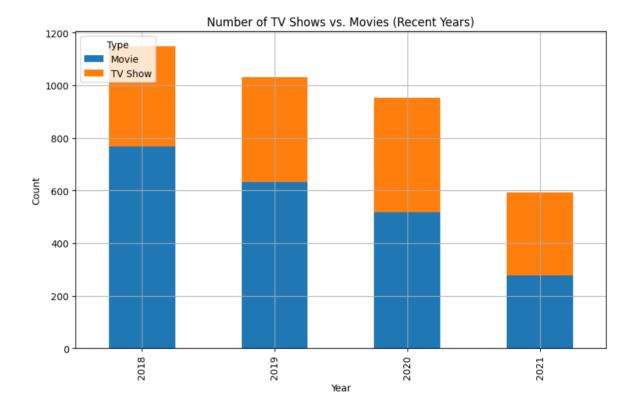


Comparison of tv shows vs. movies.



Does Netflix has more focus on TV Shows than movies in recent years

Recent year it have equal focus on tv shows and movies which shows that tv shows focus is increasing yearly



Understanding what content is available in different countries

listed_in	country	
Dramas, Independent Movies, International Movies	, France, Algeria	0
International TV Shows, TV Dramas	, South Korea	1
$\label{thm:crime_to_shows} \mbox{Crime TV Shows, Spanis}$	Argentina	2
Dramas, International Movies, Thrillers	$\label{eq:argentina} \mbox{Argentina, Brazil, France, Poland, Germany, De}$	3
Dramas, Independent Movies, International Movi	Argentina, Chile	4
Documentaries, International Movies	Venezuela	743
Documentaries, International Movies	Venezuela, Colombia	744
Dramas, International Movies, Romantic Movies,	Vietnam	745
Documentaries, International Movies	West Germany	746
Comedies, International Movies, Romantic Movies	Zimbabwe	747

748 rows × 2 columns

2. Observations on the shape of data, data types of all the attributes, conversion of categorical attributes to 'category' (If required), missing value detection, statistical summary

```
Shape of Data: (8807, 12) data types of all the attributes:
```

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
the state of the s	

dtype: object

conversion of categorical attributes to 'category'

```
df['country'] = df['country'].astype('category')
df['country']
0
           United States
1
             South Africa
2
                          NaN
 3
                         NaN
 4
 8802
          United States
8803
                         NaN
           United States
8804
8805
           United States
8806
                      India
Name: country, Length: 8807, dtype: category
Categories (748, object): [', France, Algeria', ', South Korea', 'Argentina', 'Argentina, Brazil, France, Poland, Germany,
D..., 'Venezuela, Colombia', 'Vietnam', 'West Germany', 'Zimbabwe']
```

missing value detection:

df.isnull().sum()		
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		

statistical summary:

df.describe()

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

3. Non-Graphical Analysis: Value counts and unique attributes

```
df['director'].value_counts()
director
Rajiv Chilaka
                                   19
Raúl Campos, Jan Suter
                                   18
Marcus Raboy
                                   16
Suhas Kadav
                                   16
Jay Karas
                                   14
Raymie Muzquiz, Stu Livingston
                                    1
Joe Menendez
                                    1
Eric Bross
                                    1
Will Eisenberg
                                    1
Mozez Singh
Name: count, Length: 4528, dtype: int64
```

```
df['type'].value_counts()|

type
Movie 6131
TV Show 2676
Name: count, dtype: int64
```

4. Visual Analysis - Univariate, Bivariate after pre-processing of the data

