In [ ]:

```
Netflix, Inc. is an American subscription streaming service and production company.
Launched on August 29, 1997, it offers a film and television series library through distribution deals as well as
its own productions, known as Netflix Originals.
```

NETFLIX DATASET

In [ ]:

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

In [10]:

```
Netflix_Dataset= pd.read_csv("https://raw.githubusercontent.com/gayathriravi2111997/Assessment/main/Netflix_Dataset.csv")
Netflix_Dataset
```

Out[10]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...
...	...	...	...	...	...	...	...	...	...	...	...
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min	Documentaries, International Movies, Music & M...	In this documentary, South African rapper Nast...
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV	Dessert wizard Adriano Zumbo looks for the nex...
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	March 1, 2020	TV-MA	90 min	Documentaries, Music & Musicals	This documentary delves into the mystique behi...

In [32]:

```
Netflix_Dataset.head()
```

Out[32]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...

In [35]:

```
Netflix_Dataset.tail()
```

Out[35]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min	Documentaries, International Movies, Music & M...	In this documentary, South African rapper Nast...
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV	Dessert wizard Adriano Zumbo looks for the nex...
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	March 1, 2020	TV-MA	90 min	Documentaries, Music & Musicals	This documentary delves into the

Removing and Replacing Null values in dataset:

In [36]:

```
Netflix_Dataset.shape
```

Out[36]:

```
(7789, 11)
```

In [37]:

```
Netflix_Dataset.columns
```

Out[37]:

```
Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country',
       'Release_Date', 'Rating', 'Duration', 'Type', 'Description'],
      dtype='object')
```

In [38]:

```
Netflix_Dataset.duplicated().sum()
```

Out[38]:

```
2
```

In [39]:

```
Netflix_Dataset.isnull().sum()
```

Out[39]:

```
Show_Id            0
Category           0
Title              0
Director        2388
Cast             718
Country          507
Release_Date      10
Rating             7
Duration           0
Type               0
Description        0
dtype: int64
```

In [40]:

```
Netflix_Dataset.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 7789 entries, 0 to 7788
Data columns (total 11 columns):
 #   Column        Non-Null Count  Dtype 
---  ------        --------------  ----- 
 0   Show_Id       7789 non-null   object
 1   Category      7789 non-null   object
 2   Title         7789 non-null   object
 3   Director      5401 non-null   object
 4   Cast          7071 non-null   object
 5   Country       7282 non-null   object
 6   Release_Date  7779 non-null   object
 7   Rating        7782 non-null   object
 8   Duration      7789 non-null   object
 9   Type          7789 non-null   object
 10  Description   7789 non-null   object
dtypes: object(11)
memory usage: 669.5+ KB
```

In [41]:

```
Netflix_Dataset.describe()
```

Out[41]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
count	7789	7789	7789	5401	7071	7282	7779	7782	7789	7789	7789
unique	7787	2	7787	4050	6831	681	1565	14	216	492	7769
top	s6621	Movie	The Lost Okoroshi	Raúl Campos, Jan Suter	David Attenborough	United States	January 1, 2020	TV-MA	1 Season	Documentaries	Multiple women report their husbands as missin...
freq	2	5379	2	18	18	2556	118	2865	1608	334	3

In [42]:

```
Netflix_Dataset.nunique()
```

Out[42]:

```
Show_Id         7787
Category           2
Title           7787
Director        4050
Cast            6831
Country          681
Release_Date    1565
Rating            14
Duration         216
Type             492
Description     7769
dtype: int64
```

In [20]:

```
netflix_data.dropna()
```

Out[20]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...

5	s6	TV Show	46	Serdar Akar	Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan...	Turkey	July 1, 2017	TV-MA	1 Season	International TV Shows, TV Dramas, TV Mysteries	A genetics professor experiments with a treatm...
...	...	...	...	...	...	...	...	...	...	...	...
7780	s7779	Movie	Zombieland	Ruben Fleischer	Jesse Eisenberg, Woody Harrelson, Emma Stone, ...	United States	November 1, 2019	R	88 min	Comedies, Horror Movies	Looking to survive in a world taken over by zo...
7782	s7781	Movie	Zoo	Shlok Sharma	Shashank Arora, Shweta Tripathi, Rahul Kumar, ...	India	July 1, 2018	TV-MA	94 min	Dramas, Independent Movies, International Movies	A drug dealer starts having doubts about his t...
7783	s7782	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	PG	88 min	Children & Family Movies, Comedies	Dragged from civilian life, a former superhero...
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...

In [43]:
```
Netflix_Dataset[netflix_data.duplicated()]
Netflix_Dataset
```

Out[43]:

	Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
0	s1	TV Show	3%	NaN	João Miguel, Bianca Comparato, Michel Gomes, R...	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi &...	In a future where the elite inhabit an island ...
1	s2	Movie	07:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, ...	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico Cit...
2	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence ...	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow...
3	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly...	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi...	In a postapocalyptic world, rag-doll robots hi...
4	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar...	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-coun...
...	...	...	...	...	...	...	...	...	...	...	...
7784	s7783	Movie	Zozo	Josef Fares	Imad Creidi, Antoinette Turk, Elias Gergi, Car...	Sweden, Czech Republic, United Kingdom, Denmar...	October 19, 2020	TV-MA	99 min	Dramas, International Movies	When Lebanon's Civil War deprives Zozo of his ...
7785	s7784	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	TV-14	111 min	Dramas, International Movies, Music & Musicals	A scrappy but poor boy worms his way into a ty...
7786	s7785	Movie	Zulu Man in Japan	NaN	Nasty C	NaN	September 25, 2020	TV-MA	44 min	Documentaries, International Movies, Music & M...	In this documentary, South African rapper Nast...
7787	s7786	TV Show	Zumbo's Just Desserts	NaN	Adriano Zumbo, Rachel Khoo	Australia	October 31, 2020	TV-PG	1 Season	International TV Shows, Reality TV	Dessert wizard Adriano Zumbo looks for the nex...
7788	s7787	Movie	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	Sam Dunn	NaN	United Kingdom, Canada, United States	March 1, 2020	TV-MA	90 min	Documentaries, Music & Musicals	This documentary delves into the mystique behi...

In [22]:
```
df = pd.read_csv("https://raw.githubusercontent.com/gayathriravi2111997/Assessment/main/Netflix_Dataset.csv")
print(df.corr())
```

```
Empty DataFrame
Columns: []
Index: []
```

In [44]:
```
Netflix_Dataset.Category.unique()
```

Out[44]:
```
array(['TV Show', 'Movie'], dtype=object)
```

In [45]:
```
Netflix_Dataset.Director.unique()
```

Out[45]:
```
array([nan, 'Jorge Michel Grau', 'Gilbert Chan', ..., 'Josef Fares',
       'Mozez Singh', 'Sam Dunn'], dtype=object)
```

In [25]:
```
netflix_data.Type.unique()
```

Out[25]:
```
array(['International TV Shows, TV Dramas, TV Sci-Fi & Fantasy',
       'Dramas, International Movies',
       'Horror Movies, International Movies',
       'Action & Adventure, Independent Movies, Sci-Fi & Fantasy',
       'Dramas', 'International TV Shows, TV Dramas, TV Mysteries',
       'Horror Movies, International Movies, Thrillers',
       'Dramas, Thrillers',
       'Crime TV Shows, International TV Shows, TV Dramas',
       'Crime TV Shows, Docuseries, International TV Shows',
       'Documentaries, International Movies, Sports Movies',
       'Independent Movies, Sci-Fi & Fantasy, Thrillers',
       'Dramas, International Movies, Thrillers',
       'International TV Shows, TV Dramas',
       'Comedies, Dramas, Independent Movies', 'Sports Movies',
       'Dramas, Independent Movies, International Movies',
       'Action & Adventure, Dramas, International Movies',
       'Anime Series, International TV Shows', 'Documentaries',
       'Reality TV', 'Documentaries, International Movies', 'TV Comedies',
       'Dramas, International Movies, Romantic Movies', 'Comedies',
       'Comedies, Romantic Movies', 'Documentaries, Sports Movies',
       'Comedies, Dramas, International Movies',
       'International TV Shows, Romantic TV Shows, TV Comedies',
       'Comedies, International Movies',
       'Action & Adventure, Sci-Fi & Fantasy', 'Dramas, Romantic Movies',
       'Dramas, Romantic Movies, Sports Movies',
       'Comedies, International Movies, Romantic Movies',
```

```
'Action & Adventure',
'International TV Shows, Romantic TV Shows, TV Dramas',
'Docuseries, Science & Nature TV',
'Dramas, International Movies, Sports Movies', 'Movies',
'British TV Shows, International TV Shows, Reality TV',
'Dramas, Independent Movies, Sports Movies',
'International TV Shows, Korean TV Shows, Romantic TV Shows',
'Horror Movies, Independent Movies, Thrillers',
'Crime TV Shows, TV Dramas, TV Mysteries',
'Crime TV Shows, Docuseries', 'Horror Movies, Thrillers',
'Action & Adventure, International Movies',
'Horror Movies, Independent Movies',
'Documentaries, Music & Musicals',
'International Movies, Music & Musicals', 'Sci-Fi & Fantasy',
'Dramas, Independent Movies', 'British TV Shows, Reality TV',
'Action & Adventure, Comedies, International Movies',
'Comedies, Dramas', 'Dramas, LGBTQ Movies',
'Documentaries, Faith & Spirituality',
'Action & Adventure, Comedies',
"Kids' TV, TV Action & Adventure, TV Sci-Fi & Fantasy",
'International Movies, Thrillers', "Kids' TV",
'International TV Shows, Romantic TV Shows, Spanish-Language TV Shows',
'Children & Family Movies, Comedies', 'Comedies, LGBTQ Movies',
'Comedies, Dramas, Romantic Movies', 'Action & Adventure, Dramas',
'Dramas, Independent Movies, Romantic Movies',
'Comedies, Independent Movies, Thrillers', 'TV Shows',
'Docuseries', 'Comedies, International Movies, Music & Musicals',
'Docuseries, International TV Shows, Science & Nature TV',
'British TV Shows, Docuseries, Science & Nature TV',
'Children & Family Movies, Dramas, Sports Movies',
'Children & Family Movies', 'Dramas, Sci-Fi & Fantasy',
'International TV Shows, TV Comedies, TV Dramas',
'Action & Adventure, Classic Movies, Dramas',
'Children & Family Movies, Dramas',
'Action & Adventure, International Movies, Romantic Movies',
'Children & Family Movies, Dramas, Romantic Movies',
'Children & Family Movies, Comedies, Music & Musicals',
'Classic Movies, Cult Movies, Dramas',
'Action & Adventure, International Movies, Sci-Fi & Fantasy',
'Comedies, Independent Movies', 'Comedies, Horror Movies',
'Children & Family Movies, Comedies, Romantic Movies',
'International TV Shows, TV Dramas, TV Horror', 'Thrillers',
'Stand-Up Comedy & Talk Shows, TV Comedies',
'International TV Shows, Romantic TV Shows, Teen TV Shows',
'Crime TV Shows, International TV Shows, Korean TV Shows',
'Comedies, International Movies, Sports Movies',
'Dramas, LGBTQ Movies, Romantic Movies', 'Comedies, Cult Movies',
'Dramas, Independent Movies, LGBTQ Movies',
'International TV Shows, Reality TV', 'Stand-Up Comedy',
'Documentaries, LGBTQ Movies',
"Kids' TV, TV Action & Adventure, TV Comedies",
'Anime Features, International Movies',
'Music & Musicals, Romantic Movies', 'Comedies, Music & Musicals',
'International TV Shows, TV Comedies',
'International Movies, Romantic Movies',
'Anime Features, Children & Family Movies, International Movies',
'British TV Shows, TV Comedies, TV Dramas', 'TV Dramas',
'Horror Movies',
'Action & Adventure, Children & Family Movies, Independent Movies',
'Dramas, International Movies, Music & Musicals',
'Comedies, International Movies, Sci-Fi & Fantasy',
'International TV Shows, Korean TV Shows, Stand-Up Comedy & Talk Shows',
'Docuseries, Science & Nature TV, TV Comedies',
'Dramas, Sports Movies',
'Dramas, Music & Musicals, Romantic Movies',
'Children & Family Movies, Comedies, International Movies',
'Action & Adventure, Documentaries, International Movies',
'Comedies, International Movies, Thrillers',
'Action & Adventure, Dramas, Romantic Movies',
'Horror Movies, Independent Movies, International Movies',
'Dramas, Independent Movies, Sci-Fi & Fantasy',
'International Movies, Sci-Fi & Fantasy',
'Docuseries, Reality TV, Science & Nature TV',
'British TV Shows, Docuseries, International TV Shows',
'Docuseries, International TV Shows',
'British TV Shows, International TV Shows, TV Comedies',
'Action & Adventure, Horror Movies',
'British TV Shows, Reality TV, Romantic TV Shows',
'Crime TV Shows, International TV Shows, TV Action & Adventure',
'International TV Shows, Reality TV, Romantic TV Shows',
'International Movies, Music & Musicals, Romantic Movies',
'TV Comedies, TV Dramas',
'Anime Series, Crime TV Shows, International TV Shows',
"Kids' TV, TV Comedies, TV Dramas",
'Action & Adventure, Comedies, Dramas',
'Documentaries, International Movies, Music & Musicals',
"Kids' TV, TV Comedies",
'Classic Movies, Dramas, International Movies',
'Comedies, Independent Movies, International Movies',
'Classic Movies, Comedies, Dramas',
'International TV Shows, TV Action & Adventure, TV Mysteries',
'Comedies, International Movies, LGBTQ Movies',
'Children & Family Movies, Comedies, Sci-Fi & Fantasy',
'TV Dramas, Teen TV Shows',
'Children & Family Movies, Independent Movies',
'International TV Shows, Spanish-Language TV Shows, TV Comedies',
'Crime TV Shows, TV Action & Adventure, TV Dramas',
'Action & Adventure, Anime Features, International Movies',
'Action & Adventure, Classic Movies, Comedies',
'Crime TV Shows, TV Dramas',
```

```
'TV Horror, TV Mysteries, TV Thrillers', 'TV Dramas, TV Thrillers',
'Comedies, Cult Movies, Dramas',
'Crime TV Shows, TV Comedies, Teen TV Shows',
'Dramas, Faith & Spirituality', 'Comedies, Dramas, LGBTQ Movies',
'Action & Adventure, Comedies, Cult Movies',
'International TV Shows, TV Action & Adventure, TV Comedies',
'Dramas, Independent Movies, Music & Musicals',
'International TV Shows, TV Horror, TV Thrillers',
'International TV Shows, TV Horror, TV Mysteries',
'International TV Shows, TV Dramas, Teen TV Shows',
'Anime Series, International TV Shows, Teen TV Shows',
'Dramas, Sci-Fi & Fantasy, Thrillers',
'TV Action & Adventure, TV Dramas, TV Mysteries',
'Crime TV Shows, International TV Shows, TV Comedies',
'Action & Adventure, Comedies, Sci-Fi & Fantasy',
"Anime Series, Kids' TV",
'Crime TV Shows, International TV Shows, Spanish-Language TV Shows',
'Horror Movies, Sci-Fi & Fantasy, Thrillers',
'International TV Shows, Korean TV Shows, TV Dramas',
'Stand-Up Comedy & Talk Shows',
'International Movies, Sci-Fi & Fantasy, Thrillers',
'Crime TV Shows, TV Action & Adventure',
'International TV Shows, Korean TV Shows, TV Action & Adventure',
'TV Action & Adventure, TV Comedies, TV Horror',
'International TV Shows, Romantic TV Shows',
"Crime TV Shows, Kids' TV, TV Comedies",
'TV Comedies, TV Dramas, Teen TV Shows',
'Docuseries, International TV Shows, Reality TV',
"Classic & Cult TV, Kids' TV, TV Action & Adventure",
'Horror Movies, Sci-Fi & Fantasy',
'Romantic TV Shows, TV Dramas, TV Sci-Fi & Fantasy',
'Dramas, International Movies, Sci-Fi & Fantasy',
'Children & Family Movies, Sports Movies',
'Dramas, Independent Movies, Thrillers',
'Independent Movies, International Movies, Thrillers',
'British TV Shows, TV Comedies',
'International TV Shows, Spanish-Language TV Shows, TV Dramas',
'Action & Adventure, Comedies, Independent Movies',
'International TV Shows, TV Action & Adventure, TV Dramas',
'Children & Family Movies, Music & Musicals', 'Music & Musicals',
'Action & Adventure, International Movies, Music & Musicals',
'Comedies, Sports Movies', 'Classic Movies, Thrillers',
'Docuseries, Reality TV', 'Crime TV Shows, TV Dramas, TV Horror',
'Crime TV Shows, TV Comedies, TV Dramas',
'British TV Shows, Docuseries, Reality TV',
'Reality TV, Science & Nature TV, TV Action & Adventure',
'Children & Family Movies, Documentaries, International Movies',
'Crime TV Shows, Romantic TV Shows, TV Dramas',
'British TV Shows, Docuseries',
'Documentaries, LGBTQ Movies, Music & Musicals',
'Romantic TV Shows, TV Dramas', 'Independent Movies, Thrillers',
'International TV Shows, TV Action & Adventure, TV Horror',
'Children & Family Movies, Documentaries, Sports Movies',
'Stand-Up Comedy & Talk Shows, TV Mysteries, TV Sci-Fi & Fantasy',
'International TV Shows, Reality TV, TV Comedies',
'Dramas, International Movies, LGBTQ Movies',
'Action & Adventure, Dramas, Independent Movies',
'British TV Shows, International TV Shows, TV Dramas',
'TV Action & Adventure, TV Dramas, TV Sci-Fi & Fantasy',
'TV Action & Adventure, TV Dramas, TV Horror',
'Action & Adventure, Anime Features, Sci-Fi & Fantasy',
'Anime Series', 'TV Dramas, TV Mysteries, TV Thrillers',
'Music & Musicals, Stand-Up Comedy',
'Docuseries, International TV Shows, Spanish-Language TV Shows',
'Crime TV Shows, International TV Shows, Reality TV',
"British TV Shows, Kids' TV",
'Docuseries, Spanish-Language TV Shows',
'Crime TV Shows, TV Dramas, TV Thrillers',
'Documentaries, International Movies, LGBTQ Movies',
'British TV Shows, Crime TV Shows, International TV Shows',
'Action & Adventure, Independent Movies',
'Classic Movies, Dramas, Romantic Movies',
'Crime TV Shows, Romantic TV Shows, Spanish-Language TV Shows',
'Children & Family Movies, Comedies, Dramas',
'Cult Movies, Horror Movies', "Kids' TV, TV Thrillers",
'Classic Movies, Cult Movies, Horror Movies',
'Anime Series, Crime TV Shows, TV Thrillers',
'Anime Series, TV Horror, TV Thrillers', 'Classic Movies, Dramas',
'British TV Shows, Crime TV Shows, Docuseries',
'Action & Adventure, International Movies, Thrillers',
'Anime Series, Teen TV Shows',
'Children & Family Movies, Dramas, International Movies',
'Dramas, Faith & Spirituality, International Movies',
'TV Horror, TV Mysteries, Teen TV Shows',
'Children & Family Movies, Classic Movies',
'TV Dramas, TV Sci-Fi & Fantasy', 'Reality TV, Teen TV Shows',
'Docuseries, Reality TV, Teen TV Shows',
'Classic & Cult TV, TV Comedies',
'International TV Shows, Korean TV Shows, Reality TV',
'International TV Shows, Stand-Up Comedy & Talk Shows, TV Comedies',
'British TV Shows, International TV Shows, Romantic TV Shows',
'International TV Shows, TV Dramas, TV Thrillers',
'Anime Features', 'TV Horror, TV Mysteries, TV Sci-Fi & Fantasy',
'Children & Family Movies, Classic Movies, Comedies',
'Comedies, Faith & Spirituality, Romantic Movies',
'Classic Movies, Comedies, International Movies',
'Action & Adventure, Horror Movies, Sci-Fi & Fantasy',
'Action & Adventure, Classic Movies',
'TV Dramas, TV Sci-Fi & Fantasy, TV Thrillers',
'Comedies, Sci-Fi & Fantasy',
'Action & Adventure, Cult Movies, Dramas',
'TV Action & Adventure, TV Dramas', "Kids' TV, Korean TV Shows",
'Action & Adventure, Independent Movies, International Movies',
'Dramas, Faith & Spirituality, Independent Movies',
'Docuseries, TV Comedies',
'Documentaries, Faith & Spirituality, Music & Musicals',
'Romantic TV Shows, TV Comedies',
"Kids' TV, Spanish-Language TV Shows",
"British TV Shows, Kids' TV, TV Thrillers",
'Action & Adventure, Romantic Movies',
'British TV Shows, Classic & Cult TV, TV Comedies',
'Action & Adventure, Horror Movies, International Movies',
'Children & Family Movies, Documentaries',
"British TV Shows, Kids' TV, TV Comedies",
'Horror Movies, Independent Movies, Sci-Fi & Fantasy',
'TV Sci-Fi & Fantasy, TV Thrillers',
```

```
'Romantic TV Shows, TV Comedies, TV Dramas',
'Reality TV, Romantic TV Shows',
'Classic Movies, Dramas, Independent Movies',
'Romantic TV Shows, TV Dramas, Teen TV Shows',
'TV Action & Adventure, TV Sci-Fi & Fantasy',
'British TV Shows, TV Horror, TV Thrillers',
'International Movies, Sports Movies', 'International Movies',
'Anime Series, International TV Shows, TV Horror',
'International TV Shows',
'Dramas, Music & Musicals, Sports Movies',
'International TV Shows, Spanish-Language TV Shows, TV Action & Adventure',
'Cult Movies, Dramas, International Movies',
'TV Action & Adventure, TV Comedies, TV Sci-Fi & Fantasy',
'Reality TV, Science & Nature TV',
'Action & Adventure, Anime Features, Children & Family Movies',
"Kids' TV, TV Action & Adventure",
'Children & Family Movies, Sci-Fi & Fantasy',
"Crime TV Shows, Kids' TV",
'International Movies, Music & Musicals, Thrillers',
'Crime TV Shows, Spanish-Language TV Shows, TV Action & Adventure',
"Classic & Cult TV, Kids' TV, Spanish-Language TV Shows",
'Romantic TV Shows, Spanish-Language TV Shows, TV Dramas',
'Action & Adventure, Cult Movies, International Movies',
'Crime TV Shows, Spanish-Language TV Shows, TV Dramas',
'Action & Adventure, Children & Family Movies, Dramas',
'Dramas, Romantic Movies, Sci-Fi & Fantasy',
'Action & Adventure, Dramas, Sci-Fi & Fantasy',
'International TV Shows, TV Mysteries, TV Thrillers',
'Anime Series, International TV Shows, TV Thrillers',
'Horror Movies, International Movies, Sci-Fi & Fantasy',
'Comedies, Cult Movies, International Movies',
'Comedies, Music & Musicals, Romantic Movies',
'Children & Family Movies, Comedies, Faith & Spirituality',
'Crime TV Shows, Docuseries, TV Mysteries',
'Crime TV Shows, Docuseries, Science & Nature TV',
'British TV Shows, Crime TV Shows, TV Dramas',
'Classic Movies, Comedies, Cult Movies',
'International Movies, Romantic Movies, Thrillers',
'Classic Movies, Dramas, Music & Musicals',
'Cult Movies, Horror Movies, Thrillers',
'Anime Features, Romantic Movies',
'Comedies, Dramas, Music & Musicals',
'Anime Features, International Movies, Romantic Movies',
'Documentaries, Faith & Spirituality, International Movies',
'Action & Adventure, Classic Movies, Sci-Fi & Fantasy',
'International TV Shows, Stand-Up Comedy & Talk Shows',
"British TV Shows, Kids' TV, TV Dramas",
'Classic & Cult TV, TV Action & Adventure, TV Horror',
'Children & Family Movies, Dramas, Faith & Spirituality',
'TV Action & Adventure, TV Comedies',
'Action & Adventure, Anime Features, Horror Movies',
'Crime TV Shows, International TV Shows, Romantic TV Shows',
'Classic Movies, Comedies, Music & Musicals',
'Comedies, Horror Movies, International Movies',
"Kids' TV, Spanish-Language TV Shows, Teen TV Shows",
'Independent Movies',
'Crime TV Shows, International TV Shows, TV Mysteries',
'Action & Adventure, Thrillers',
"Kids' TV, TV Dramas, Teen TV Shows",
'Anime Series, Crime TV Shows', "Kids' TV, TV Dramas",
'Crime TV Shows, TV Action & Adventure, TV Comedies',
'TV Comedies, Teen TV Shows',
'Reality TV, TV Horror, TV Thrillers',
'Documentaries, Horror Movies',
'Classic & Cult TV, TV Horror, TV Mysteries',
'Action & Adventure, Cult Movies, Sci-Fi & Fantasy',
'Anime Series, International TV Shows, Romantic TV Shows',
'Action & Adventure, Comedies, Romantic Movies',
'Comedies, Dramas, Faith & Spirituality',
'Comedies, Faith & Spirituality, International Movies',
'Romantic Movies', 'Dramas, Horror Movies, Sci-Fi & Fantasy',
'International TV Shows, Korean TV Shows, TV Comedies',
'Comedies, Independent Movies, LGBTQ Movies',
'TV Comedies, TV Dramas, TV Sci-Fi & Fantasy',
'Dramas, Music & Musicals',
'Dramas, Faith & Spirituality, Romantic Movies',
'International TV Shows, TV Action & Adventure, TV Sci-Fi & Fantasy',
'Reality TV, TV Comedies',
"Docuseries, Kids' TV, Science & Nature TV",
'Action & Adventure, Sci-Fi & Fantasy, Thrillers',
'Action & Adventure, Children & Family Movies, Sci-Fi & Fantasy',
'Action & Adventure, Children & Family Movies, Classic Movies',
'Horror Movies, International Movies, Romantic Movies',
'TV Action & Adventure', 'TV Comedies, TV Dramas, TV Horror',
'British TV Shows, International TV Shows, Stand-Up Comedy & Talk Shows',
'Dramas, Music & Musicals, Sci-Fi & Fantasy',
'Spanish-Language TV Shows, TV Dramas',
'Documentaries, Stand-Up Comedy',
'Classic & Cult TV, TV Action & Adventure, TV Dramas',
'British TV Shows, TV Dramas, TV Sci-Fi & Fantasy',
'Anime Features, Music & Musicals',
'International TV Shows, TV Comedies, TV Sci-Fi & Fantasy',
'Comedies, Independent Movies, Romantic Movies',
'Comedies, Cult Movies, Horror Movies',
'Comedies, Cult Movies, Sports Movies',
'Classic Movies, Documentaries', 'Sci-Fi & Fantasy, Thrillers',
'Classic & Cult TV, Crime TV Shows, International TV Shows',
"Kids' TV, Korean TV Shows, TV Comedies",
'British TV Shows, Romantic TV Shows, TV Dramas',
'Action & Adventure, Faith & Spirituality, Sci-Fi & Fantasy',
'TV Dramas, TV Sci-Fi & Fantasy, Teen TV Shows',
'Action & Adventure, Children & Family Movies',
'Comedies, Horror Movies, Independent Movies',
'Action & Adventure, Classic Movies, Cult Movies',
```

```
       'TV Dramas, TV Horror, TV Mysteries',
       'International Movies, Romantic Movies, Sci-Fi & Fantasy',
       'Anime Series, Romantic TV Shows, Teen TV Shows',
       'TV Action & Adventure, TV Horror, TV Sci-Fi & Fantasy',
       'Anime Features, Music & Musicals, Sci-Fi & Fantasy',
       'Action & Adventure, Anime Features, Classic Movies',
       'International TV Shows, Reality TV, Spanish-Language TV Shows',
       'Anime Series, Romantic TV Shows',
       'International TV Shows, Reality TV, TV Action & Adventure',
       'TV Comedies, TV Dramas, TV Mysteries',
       'Docuseries, Science & Nature TV, TV Dramas',
       'Crime TV Shows, TV Action & Adventure, TV Thrillers',
       'Anime Features, Children & Family Movies',
       'Docuseries, TV Dramas',
       'British TV Shows, International TV Shows, TV Action & Adventure',
       'Comedies, Cult Movies, Independent Movies',
       'Action & Adventure, Horror Movies, Independent Movies',
       'British TV Shows, Docuseries, TV Comedies',
       'Comedies, Documentaries',
       'British TV Shows, Classic & Cult TV, International TV Shows',
       'TV Comedies, TV Sci-Fi & Fantasy',
       'TV Comedies, TV Sci-Fi & Fantasy, Teen TV Shows',
       'Documentaries, Dramas, International Movies',
       'Action & Adventure, Classic Movies, International Movies',
       'Cult Movies, Independent Movies, Thrillers',
       'Comedies, Independent Movies, Music & Musicals',
       'TV Action & Adventure, TV Dramas, Teen TV Shows',
       'Romantic TV Shows, TV Action & Adventure, TV Dramas',
       'Crime TV Shows, TV Comedies',
       'Classic Movies, Cult Movies, Documentaries',
       'Children & Family Movies, Comedies, Cult Movies',
       "Classic & Cult TV, Kids' TV, TV Comedies",
       'Classic Movies, Dramas, LGBTQ Movies',
       'Comedies, Romantic Movies, Sports Movies',
       "Anime Series, Kids' TV, TV Action & Adventure",
       'Action & Adventure, Children & Family Movies, Comedies',
       'Reality TV, TV Comedies, TV Horror',
       'Classic Movies, Dramas, Sports Movies',
       "Kids' TV, TV Action & Adventure, TV Dramas",
       'Action & Adventure, Sci-Fi & Fantasy, Sports Movies',
       'Dramas, Romantic Movies, Thrillers',
       'Action & Adventure, Cult Movies',
       'Children & Family Movies, Dramas, Independent Movies',
       'Children & Family Movies, Comedies, LGBTQ Movies',
       'Action & Adventure, Comedies, Music & Musicals',
       'Classic Movies, Horror Movies, Thrillers',
       'Classic & Cult TV, TV Dramas, TV Sci-Fi & Fantasy',
       'Children & Family Movies, Comedies, Sports Movies',
       'Docuseries, Stand-Up Comedy & Talk Shows',
       'Action & Adventure, Dramas, Faith & Spirituality',
       'TV Comedies, TV Horror, TV Thrillers',
       'Classic Movies, Comedies, Independent Movies',
       'Crime TV Shows, TV Horror, TV Mysteries',
       'Children & Family Movies, Classic Movies, Dramas',
       'Romantic TV Shows, Spanish-Language TV Shows, TV Comedies',
       'Dramas, Faith & Spirituality, Sports Movies',
       'Classic & Cult TV, TV Action & Adventure, TV Sci-Fi & Fantasy',
       'International TV Shows, Korean TV Shows, TV Horror',
       'Classic Movies, Comedies, Romantic Movies',
       'Dramas, Horror Movies, Music & Musicals',
       'Cult Movies, Horror Movies, Independent Movies',
       'Classic Movies, Dramas, Thrillers',
       'TV Dramas, TV Mysteries, TV Sci-Fi & Fantasy',
       'Classic Movies, Independent Movies, Thrillers',
       'TV Comedies, TV Mysteries',
       'International TV Shows, Romantic TV Shows, TV Mysteries',
       "Kids' TV, TV Comedies, Teen TV Shows",
       'Crime TV Shows, TV Action & Adventure, TV Sci-Fi & Fantasy',
       "Kids' TV, TV Comedies, TV Sci-Fi & Fantasy",
       'Anime Series, International TV Shows, Spanish-Language TV Shows',
       'Cult Movies, Dramas, Thrillers',
       'International TV Shows, Spanish-Language TV Shows, TV Horror',
       'Children & Family Movies, Faith & Spirituality',
       'Comedies, Music & Musicals, Sports Movies',
       'Classic Movies, Comedies, Sports Movies',
       'Comedies, Dramas, Sports Movies',
       'Action & Adventure, Dramas, Sports Movies',
       "Kids' TV, Reality TV, TV Dramas",
       'Horror Movies, LGBTQ Movies, Music & Musicals',
       'Comedies, LGBTQ Movies, Music & Musicals',
       'International TV Shows, Romantic TV Shows, TV Action & Adventure',
       'Cult Movies, Documentaries, LGBTQ Movies',
       'Action & Adventure, Romantic Movies, Sci-Fi & Fantasy',
       'Classic & Cult TV, TV Sci-Fi & Fantasy',
       'TV Action & Adventure, TV Mysteries, TV Sci-Fi & Fantasy',
       'Children & Family Movies, Dramas, Music & Musicals',
       'Docuseries, TV Sci-Fi & Fantasy',
       "British TV Shows, Classic & Cult TV, Kids' TV",
       'Action & Adventure, International Movies, Sports Movies',
       'Docuseries, Science & Nature TV, TV Action & Adventure',
       'Comedies, Cult Movies, LGBTQ Movies',
       'Crime TV Shows, International TV Shows, TV Sci-Fi & Fantasy',
       'Comedies, Horror Movies, Sci-Fi & Fantasy',
       'Action & Adventure, Comedies, Horror Movies',
       'Classic & Cult TV, Crime TV Shows, TV Dramas',
       'TV Horror, Teen TV Shows',
       'Reality TV, Spanish-Language TV Shows',
       'Action & Adventure, Documentaries, Sports Movies',
       'Anime Features, International Movies, Sci-Fi & Fantasy',
       'LGBTQ Movies, Thrillers', 'Action & Adventure, Sports Movies',
       'International Movies, LGBTQ Movies, Romantic Movies',
       "Kids' TV, Reality TV, Science & Nature TV",
       'International TV Shows, Spanish-Language TV Shows, Stand-Up Comedy & Talk Shows'],
      dtype=object)
```

```
In [26]: netflix_data.Type.value_counts()
```

```
Out[26]: Documentaries                                                                      334
         Stand-Up Comedy                                                                    321
         Dramas, International Movies                                                       320
         Comedies, Dramas, International Movies                                             243
         Dramas, Independent Movies, International Movies                                   215
```

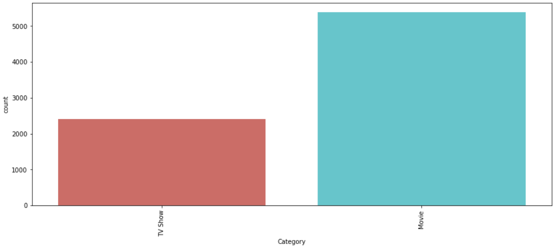
```
                                                                          ...
Crime TV Shows, Romantic TV Shows, Spanish-Language TV Shows                 1
Crime TV Shows, International TV Shows, Reality TV                           1
International Movies, Romantic Movies, Sci-Fi & Fantasy                      1
Stand-Up Comedy & Talk Shows, TV Mysteries, TV Sci-Fi & Fantasy              1
International TV Shows, Spanish-Language TV Shows, Stand-Up Comedy & Talk Shows      1
Name: Type, Length: 492, dtype: int64
```

DATA VISUALLTION

In [29]:

```python
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
plt.figure(figsize=(15,6))
sns.countplot('Category',data=netflix_data,palette='hls')
plt.xticks(rotation=90)
plt.show()
```

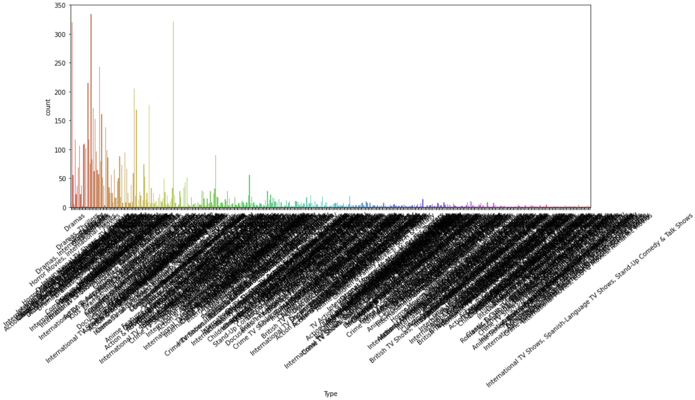
```
C:\Users\SRIRAM\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```



In [30]:

```python
plt.figure(figsize=(15,6))
sns.countplot('Type',data=netflix_data,palette='hls')
plt.xticks(rotation=40)
plt.show()
```

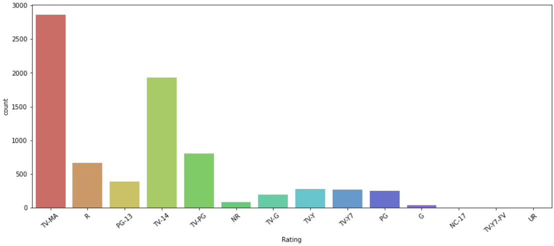
```
C:\Users\SRIRAM\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```



In [31]:

```python
plt.figure(figsize=(15,6))
sns.countplot('Rating',data=netflix_data,palette='hls')
plt.xticks(rotation=40)
plt.show()
```

```
C:\Users\SRIRAM\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
  warnings.warn(
```



In [ ]: