import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

data=pd.read_csv('netflix1.csv')

data								
	show_id	type	title	director	country	date_added	release_year	rat
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	Ρ
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	T\
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	T
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	Т
8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	1/17/2017	2016	Τ
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	Т

data.head()

	show_id	type	title	director	country	date_added	release_year	rating
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA
2	? s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA
Next s	teps: Gen	erate co	de with data	New int	eractive s	neet		

data.	tail()								
	show_id	type	title	director	country	date_added	release_year	rating	C
8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	1/17/2017	2016	TV-PG	
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	TV-Y7	
8787	s8801	TV Show	Zindagi Gulzar Hai	Not Given	Pakistan	12/15/2016	2012	TV-PG	
2722	c878 <u>4</u>	TV	Yoko	Not	Pakistan	6/23/2018	2016	T\/_Y	,

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8790 entries, 0 to 8789
Data columns (total 10 columns):
 #
    Column
                   Non-Null Count Dtype
 0
     show_id
                                   object
                   8790 non-null
 1
    type
                   8790 non-null
                                   object
 2
    title
                   8790 non-null
                                   object
 3
                                   object
    director
                   8790 non-null
    country
                   8790 non-null
                                   object
 5
    date_added
                   8790 non-null
                                   object
 6
                                   int64
     release_year
                   8790 non-null
 7
                   8790 non-null
                                   object
     rating
```

8 duration 8790 non-null object
9 listed_in 8790 non-null object
dtypes: int64(1), object(9)
memory usage: 686.8+ KB

data.describe() release_year 8790.000000 count mean 2014.183163 std 8.825466 1925.000000 min 25% 2013.000000 50% 2017.000000 75% 2019.000000 2021.000000 max

data.isnull().sum()/len(data)*100

```
0
               0.0
   show_id
     type
               0.0
     title
               0.0
   director
               0.0
   country
               0.0
 date_added
               0.0
 release_year 0.0
    rating
               0.0
   duration
               0.0
   listed_in
               0.0
dtype: float64
```

```
data.duplicated().sum()
np.int64(0)
```

data

	show_id	type	title	director	country	date_added	release_year	rati
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	TV-
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	TV-
8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	1/17/2017	2016	TV-
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	ΤV
Next steps	:: Genera	te code	with data	New interac	ctive sheet			

data["show_id"]=data["show_id"].str.replace("s","")
data.head()

	9	show_id	type	title	director	country	date_added	release_year	rating
	0	1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13
	1	3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA
;	2	6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA
Next s	step	s: Gen	erate co	de with data	New int	eractive sl	neet		

data.groupby("country")["country"].count().sort_values(ascending=False)

	unery /[
	country
country	
United States	3240
India	1057
United Kingdom	638
Pakistan	421
Not Given	287

Slovenia	1
Puerto Rico	1
Somalia	1
West Germany	1
Zimbabwe	1
86 rows × 1 columns	5
dtype: int64	

data.groupby("country")["country"].count().sort_values(ascending=False).head()

	country
country	
United States	3240
India	1057
United Kingdom	638
Pakistan	421
Not Given	287
dtype: int64	

data["type"].value_counts()

count

type

Movie 6126

TV Show 2664

data.loc[data["release_year"]==2020]

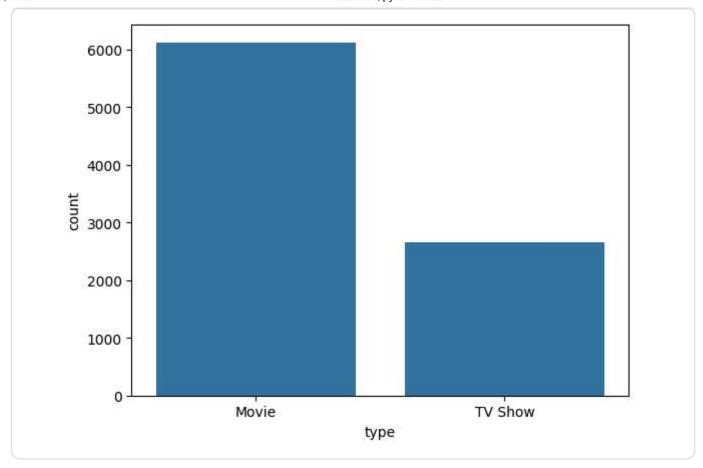
dtype: int64

	show_id	type	title	director	country	date_added	release_year	rati
0	1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-
25	17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in	Pedro de Echave García, Pablo Azorín Williams	Not Given	9/22/2021	2020	TV-N
36	35	TV Show	Tayo and Little Wizards	Not Given	Pakistan	9/17/2021	2020	TV-`
47	190	TV Show	Bread Barbershop	Not Given	Pakistan	8/28/2021	2020	T∨
58	48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	South Africa	9/16/2021	2020	TV-N
7484	3288	TV Show	Maradona in Mexico	Not Given	Argentina	11/13/2019	2020	TV-N
7517	3370	TV Show	BoJack Horseman	Not Given	United States	10/25/2019	2020	TV-N
7537	3434	TV Show	The Hook Up Plan	Not Given	France	10/11/2019	2020	TV-N

data.iloc[100:110]

	show_id	type	title	director	country	date_added	release_year	rat
100	370	TV Show	Myth & Mogul: John DeLorean	Not Given	Pakistan	7/30/2021	2021	Τ\
101	377	TV Show	Transformers: War for Cybertron: Kingdom	Not Given	Pakistan	7/29/2021	2021	ΤV
102	380	TV Show	Tattoo Redo	Not Given	Pakistan	7/28/2021	2021	TV-
103	382	TV Show	The Snitch Cartel: Origins	Not Given	Pakistan	7/28/2021	2021	TV-
104	398	TV Show	Feels Like Ishq	Not Given	Pakistan	7/23/2021	2021	TV-
105	483	TV Show	How to Become a Tyrant	Not Given	Pakistan	7/9/2021	2021	TV-
106	82	Movie	Kate	Cedric Nicolas-	United	9/10/2021	2021	

sns.countplot(x="type",data=data)
plt.show()





	count
country	
United States	3240
India	1057
United Kingdom	638
Pakistan	421
Not Given	287
•••	
Luxembourg	1
Senegal	1
Belarus	1
Puerto Rico	1
Cyprus	1
86 rows × 1 column	ıs
dtype: int64	

```
top_10=data["country"].value_counts().nlargest(10)
top_10
```

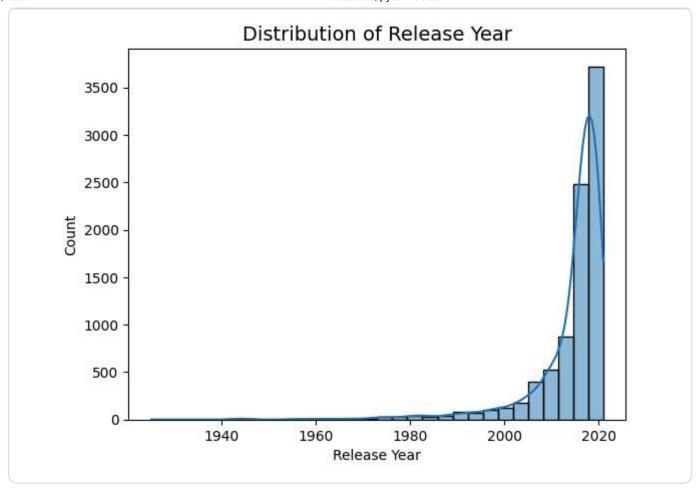
	count
country	
United States	3240
India	1057
United Kingdom	638
Pakistan	421
Not Given	287
Canada	271
Japan	259
South Korea	214
France	213
Spain	182
dtype: int64	

```
sns.barplot(x=top_10.index, y=top_10.values, palette="viridis")
plt.xlabel("country")
plt.ylabel("count")
plt.title("Top 10 country with most content on netflix")
plt.xticks(rotation=45)
plt.show()
```

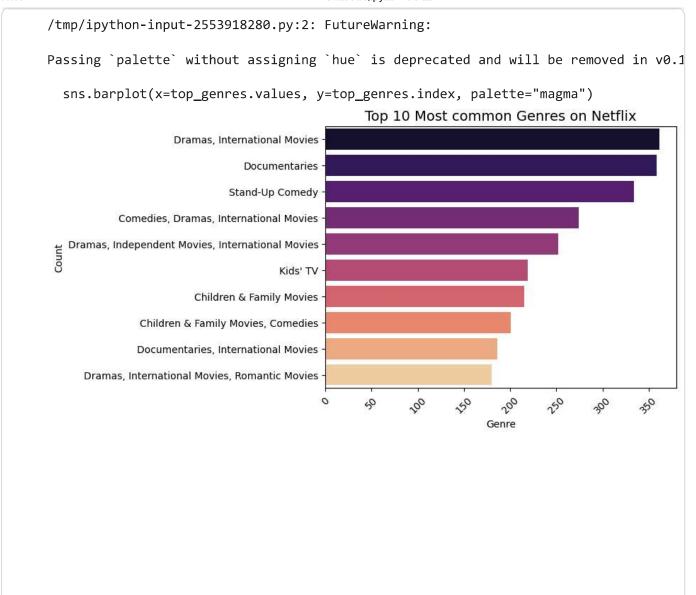
Untitled4.ipynb - Colab /tmp/ipython-input-449106027.py:1: FutureWarning: Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1 sns.barplot(x=top_10.index, y=top_10.values, palette="viridis") Top 10 country with most content on netflix 3000 2500 2000 1500 1000 500 United Kingdom Pakistan Wot Given laban South Korea Hance Spain

sns.histplot(data["release_year"],bins=30, kde=True).color="royalblue"
plt.title("Distribution of Release Year", fontsize=14)
plt.xlabel("Release Year")
plt.ylabel("Count")
plt.show()

country



```
top_genres=data["listed_in"].value_counts().head(10)
sns.barplot(x=top_genres.values, y=top_genres.index, palette="magma")
plt.title("Top 10 Most common Genres on Netflix", fontsize=14)
plt.xlabel("Genre")
plt.ylabel("Count")
# plt.title("Top 10 Genres on Netflix")
plt.xticks(rotation=45)
plt.show()
```



```
rating_counts=data["rating"].value_counts()

sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
plt.title("Distribution of content Ratings on Netflix", fontsize=14)
plt.xlabel("Rating")
plt.ylabel("Count")
plt.xticks(rotation=45)
```

```
/tmp/ipython-input-885864341.py:3: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1
 sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13],
 [Text(0, 0, 'TV-MA'),
 Text(1, 0, 'TV-14'),
 Text(2, 0, 'TV-PG'),
 Text(3, 0, 'R'),
 Text(4, 0, 'PG-13'),
 Text(5, 0, 'TV-Y7'),
 Text(6, 0, 'TV-Y'),
 Text(7, 0, 'PG'),
 Text(8, 0, 'TV-G'),
 Text(9, 0, 'NR'),
 Text(10, 0, 'G'),
 Text(11, 0, 'TV-Y7-FV'),
 Text(12, 0, 'NC-17'),
 Text(13, 0, 'UR')])
               Distribution of content Ratings on Netflix
   3000
   2500
   2000
   1500
   1000
    500
         MAN LATO 6 80 13 LAY LAY 60 LAG 88
                                      Rating
```

```
movies_df=data[data["type"] == "Movie"].copy()
movies_df["duration"]=movies_df["duration"].str.replace(" min","").astype(float)
```

```
plt.figure(figsize=(14,6))
sns.histplot(movies_df["duration"], bins=30, kde=True, color="royalblue")
plt.title("Destribution of Movie Durations on Netflix", fontsize=14)
plt.xlabel("Duration (minutes)")
plt.ylabel("Count")
plt.show()
```

