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	r
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	ſ
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	T
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	Т
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	Т
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	Т
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	-
8787	s8801	TV Show	Zindagi Gulzar Hai	Not Given	Pakistan	12/15/2016	2012	T
8788	s8784	TV Show	Yoko	Not Given	Pakistan	6/23/2018	2016	
8789	s8786	TV Show	YOM	Not Given	Pakistan	6/7/2018	2016	-
8790 ro\	ws × 10 co	lumns						

```
Next steps:
             Generate code with data
                                        New interactive sheet
    data.rating.unique()
    array(['PG-13', 'TV-MA', 'TV-PG', 'TV-14', 'TV-Y7', 'TV-Y', 'PG', 'TV-G',
            'R', 'G', 'NC-17', 'NR', 'TV-Y7-FV', 'UR'], dtype=object)
    data.duplicated().sum()
   np.int64(0)
    data['show_id']=data['show_id'].str.replace('s','')
    data.head()
        show_id
                              title director country date_added release_year ration
                  type
                               Dick
                                        Kirsten
                                                  United
     0
                                                            9/25/2021
                                                                               2020
                                                                                      PG-
                 Movie
                          Johnson Is
                                       Johnson
                                                  States
                               Dead
                    TV
                                         Julien
     1
                                                                                      TV-N
              3
                          Ganglands
                                                  France
                                                            9/24/2021
                                                                               2021
                  Show
                                       Leclercq
                            Midnight
                                          Mike
                                                  United
                    TV
    2
                                                                                      TV-N
              6
                                                            9/24/2021
                                                                               2021
                  Show
                               Mass
                                      Flanagan
                                                  States
                         Confessions
                                         Bruno
     3
             14
                 Movie
                               of an
                                                   Brazil
                                                            9/22/2021
                                                                               2021
                                                                                      TV-P
                                        Garotti
                         Invisible Girl
                                         Haile
                                                  United
     4
                Movie
                            Sankofa
                                                            9/24/2021
                                                                               1993
                                                                                     TV-N
                                        Gerima
                                                  States
                                        New interactive sheet
Next steps:
             Generate code with data
    data.groupby('country')['country'].count().sort_values(ascending=False)
                      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	
dtype: int64	

data['type'].value_counts()

count

type

Movie 6126

TV Show 2664

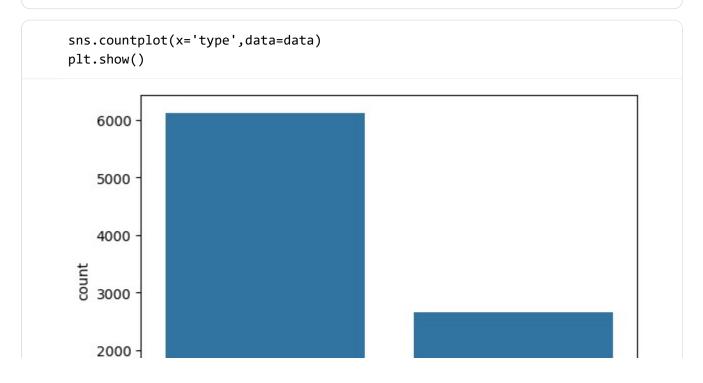
dtype: int64

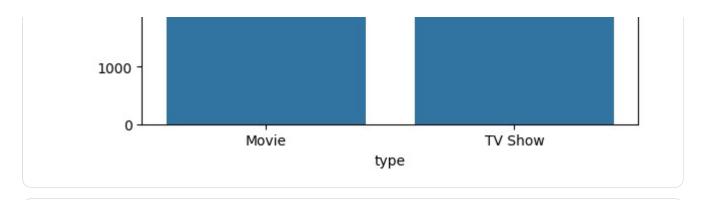
data.loc[data['release_year']==2020] show_id type title director country date_added release_year Dick Kirsten United 0 Movie Johnson Is 9/25/2021 2020 States Johnson Dead Europe's Pedro de Most **Echave** Dangerous García, Not 25 17 Movie 9/22/2021 2020 Т Man: Otto Pablo Given Skorzeny Azorín Williams in ... Tayo and

36	35	ı v Show	Little Wizards	inot Given	Pakistan	9/17/2021	2020	-
47	190	TV Show	Bread Barbershop	Not Given	Pakistan	8/28/2021	2020	
58	48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	South Africa	9/16/2021	2020	Т
7484	3288	TV Show	Maradona in Mexico	Not Given	Argentina	11/13/2019	2020	Т
7517	3370	TV Show	BoJack Horseman	Not Given	United States	10/25/2019	2020	T
7537	3434	TV Show	The Hook Up Plan	Not Given	France	10/11/2019	2020	Т
8685	8126	TV Show	Super Wings	Not Given	United States	12/1/2020	2020	
8687	8133	TV Show	Surviving R. Kelly Part II: The Reckoning	Not Given	United States	4/13/2020	2020	Т
953 rows	× 10 colu	umns						

data.iloc[100:110]									
	show_id	type	title	director	country	date_added	release_year	r	
100	370	TV Show	Myth & Mogul: John DeLorean	Not Given	Pakistan	7/30/2021	2021		
101	377	TV Show	Transformers: War for Cybertron: Kingdom	Not Given	Pakistan	7/29/2021	2021		
102	380	TV Show	Tattoo Redo	Not Given	Pakistan	7/28/2021	2021	-	

103	382	TV Show	The Snitch Cartel: Origins	Not Given	Pakistan	7/28/2021	2021 .
104	398	TV Show	Feels Like Ishq	Not Given	Pakistan	7/23/2021	2021
105	483	TV Show	How to Become a Tyrant	Not Given	Pakistan	7/9/2021	2021 .
106	82	Movie	Kate	Cedric Nicolas- Troyan	United States	9/10/2021	2021
107	85	Movie	Omo Ghetto: the Saga	JJC Skillz, Funke Akindele	Nigeria	9/10/2021	2020
108	87	Movie	Prey	Thomas Sieben	Germany	9/10/2021	2021
109	401	TV Show	Revelations: The Masters of the Universe: Reve	Not Given	Pakistan	7/23/2021	2021





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

86 rows × 1 columns

dtype: int64

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

count

country

United States 3240

> India 1057

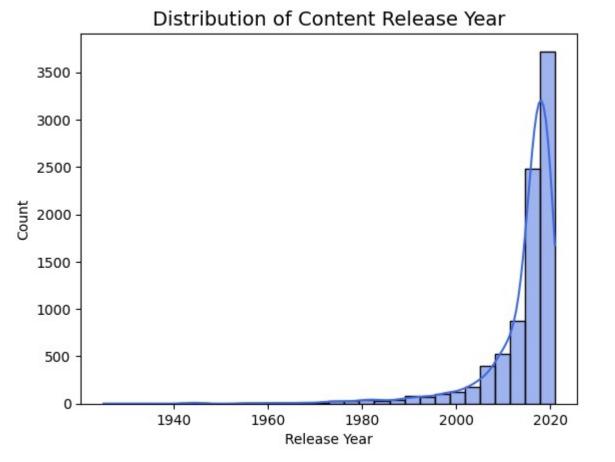
United Kingdom 638

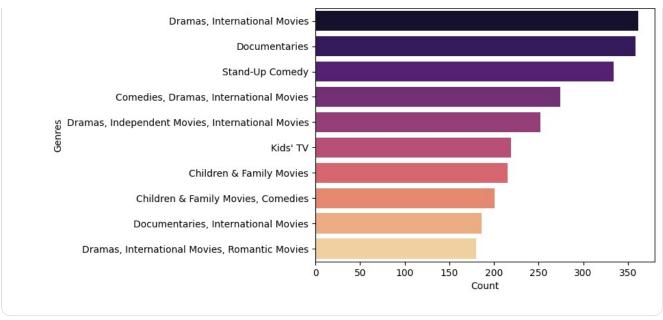
D-1-!-4---

Pakistan	421		
Not Given	287		
Canada	271		
Japan	259		
South Korea	214		
France	213		
Spain	182		
dtype: int64			

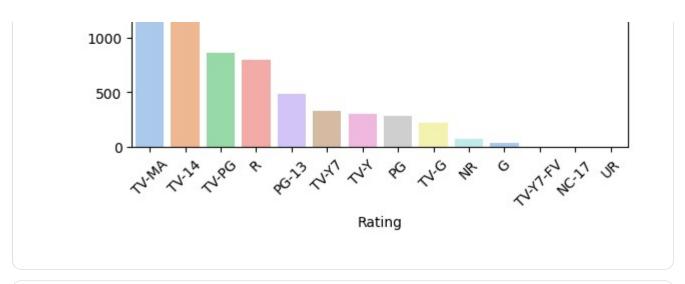
```
sns.barplot(x=top_10.index,y=top_10,palette="viridis")
plt.xlabel('country')
plt.ylabel('count')
plt.title("Top 10 country with most content on netflix")
plt.show()
/tmp/ipython-input-651872578.py:1: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v
  sns.barplot(x=top_10.index,y=top_10,palette="viridis")
                  Top 10 country with most content on netflix
    3000
    2500
    2000
    1500
    1000
     500
       United Statesdinated King Palokinsta Not Give Canada Japa South Kor Enance Spain
                                       country
```

```
sns.histplot(data["release_year"], bins=30, kde=True, color="royalblue")
plt.title("Distribution of Content Release Year", fontsize=14)
plt.xlabel("Release Year")
plt.ylabel("Count")
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)
plt.show()
/tmp/ipython-input-2639363730.py:3: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v
 sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
               Distribution of Content Ratings on Netflix
   3000
   2500
   2000
   1500
```



```
movies_df = data[data["type"] == "Movie"].copy()

movies_df["duration"] = movies_df["duration"].str.replace(" min", "").astype

plt.figure(figsize=(14, 6))

sns.histplot(movies_df["duration"], bins=30, kde=True, color="royalblue")

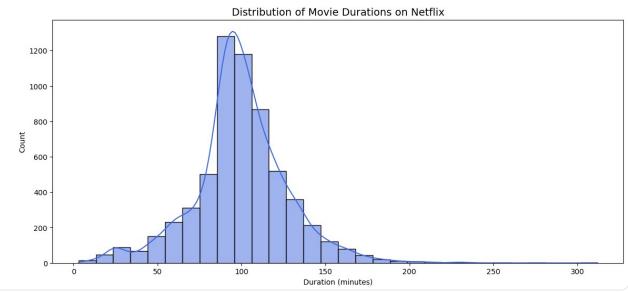
plt.title("Distribution of Movie Durations on Netflix", fontsize=14)

plt.xlabel("Duration (minutes)")

plt.ylabel("Count")

plt.show()

Distribution of Movie Durations on Netflix
```



```
plt.figure(figsize=(14, 6))
sns.boxplot(data=movies_df, x="rating", y="duration", palette="coolwarm")
```

WC.27

R

6

```
plt.title("Distribution of Movie Durations Across Different Ratings", fontsi
plt.xlabel("Rating")
plt.ylabel("Duration (minutes)")
plt.xticks (rotation=45)
plt.show()
/tmp/ipython-input-1700444524.py:3: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v
  sns.boxplot(data=movies_df, x="rating", y="duration", palette="coolwarm")
                          Distribution of Movie Durations Across Different Ratings
                                                 0
  250
  200
Duration (minutes)
  150
  100
                                           0
  50
                                                             0
```

data.columns

86.73

Rating

NAT

```
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
a = ['show_id', 'type', 'director', 'title', 'country', 'date_added', 'ratir
for i in a:
    data[i] = le.fit_transform(data[i])
```

data.head()

show_id type title director country date_added release_year rating dur

0	0	0	1972	2294	80	1656	2020	4	
1	2222	1	2644	2104	20	1651	2021	8	
2	5551	1	4558	2865	80	1651	2021	8	
3	445	0	1657	627	6	1642	2021	9	
4	7761	0	6043	1503	80	1651	1993	8	
Next steps: Generate code with data New interactive sheet									

