import pandas as pd
import seaborn as sns # It's common practice to use sns as the alias for seaborn
import matplotlib.pyplot as plt

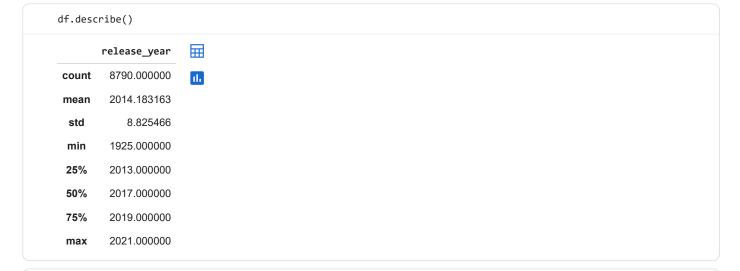
df=pd.read_csv('netflix1.csv')

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_ir
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	Documentaries
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA	1 Season	Crime TV Shows Internationa TV Shows, TV Act
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA	1 Season	TV Dramas TV Horror, TV Mysteries
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	TV-PG	91 min	Children & Family Movies Comedies
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	TV-MA	125 min	Dramas Independen Movies Internationa Movies

8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	1/17/2017	2016	TV-PG	2 Seasons	Internationa TV Shows, TV Dramas
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	TV-Y7	3 Seasons	Kids' T∖
8787	s8801	TV Show	Zindagi Gulzar Hai	Not Given	Pakistan	12/15/2016	2012	TV-PG	1 Season	Internationa TV Shows Romantic TV Shows, TV
8788	s8784	TV Show	Yoko	Not Given	Pakistan	6/23/2018	2016	TV-Y	1 Season	Kids' T∖
8789	s8786	TV Show	YOM	Not Given	Pakistan	6/7/2018	2016	TV-Y7	1 Season	Kids' T\

df.head()

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	Documentaries
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	TV-PG	91 min	Children & Family Movies, Comedies
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	TV-MA	125 min	Dramas, Independent Movies,



df.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 column	ns
dtype: int64	

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

count

type

Movie 6126

TV Show 2664

dtype: int64
```

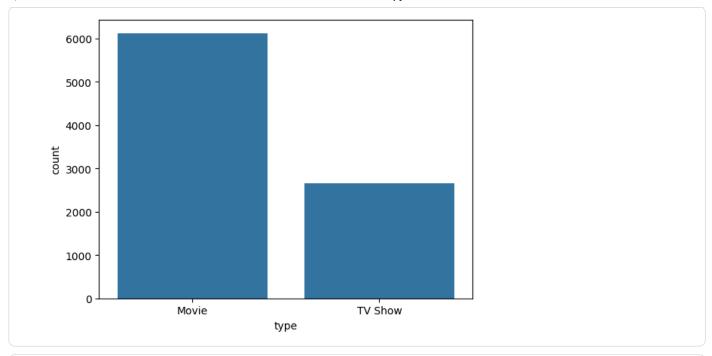
```
df.loc[df['release_year'] == 2020]
```

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_ir
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	Documentaries
25	s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in	Pedro de Echave García, Pablo Azorín Williams	Not Given	9/22/2021	2020	TV-MA	67 min	Documentaries Internationa Movies
36	s35	TV Show	Tayo and Little Wizards	Not Given	Pakistan	9/17/2021	2020	TV-Y7	1 Season	Kids' T\
47	s190	TV Show	Bread Barbershop	Not Given	Pakistan	8/28/2021	2020	TV-Y	2 Seasons	Kids' TV, T\ Comedies
58	s48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	South Africa	9/16/2021	2020	TV-MA	1 Season	Internationa TV Shows Romantic TV Shows, TV
7484	s3288	TV Show	Maradona in Mexico	Not Given	Argentina	11/13/2019	2020	TV-MA	1 Season	Docuseries Spanish Language T\ Shows
7517	s3370	TV Show	BoJack Horseman	Not Given	United States	10/25/2019	2020	TV-MA	6 Seasons	TV Comedies
7537	s3434	TV Show	The Hook Up Plan	Not Given	France	10/11/2019	2020	TV-MA	2 Seasons	Internationa TV Shows Romantic TV Shows, TV
8685	s8126	TV Show	Super Wings	Not Given	United States	12/1/2020	2020	TV-Y	3 Seasons	Kids' TV Korean TV Shows
8687	s8133	TV Show	Surviving R. Kelly Part II: The Reckoning	Not Given	United States	4/13/2020	2020	TV-MA	1 Season	Crime T\ Shows Docuseries

df.query('release_year == 2020')

	show_id	type	title	director	Country	uate_auueu	release_year	I atting	uui attoii	listed_ir
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	Documentaries
25	s17	Movie	Europe's Most Dangerous Man: Otto Skorzeny in	Pedro de Echave García, Pablo Azorín Williams	Not Given	9/22/2021	2020	TV-MA	67 min	Documentaries Internationa Movies
36	s35	TV Show	Tayo and Little Wizards	Not Given	Pakistan	9/17/2021	2020	TV-Y7	1 Season	Kids' T∖
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										•••
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8687	s8133	TV Show	Surviving R. Kelly Part II: The Reckoning	Not Given	United States	4/13/2020	2020	TV-MA	1 Season	Crime TV Shows Docuseries

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



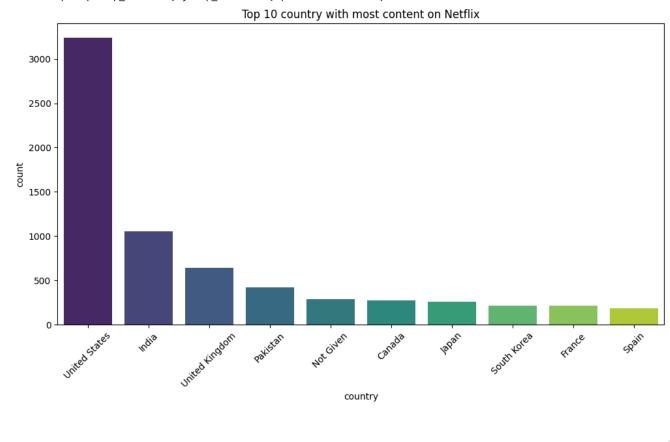
```
top_10=df['country'].value_counts().nlargest(10)
top_10
                  count
        country
  United States
                  3240
      India
                   1057
 United Kingdom
                   638
    Pakistan
                    421
   Not Given
                    287
    Canada
                    271
     Japan
                    259
  South Korea
                    214
     France
                   213
     Spain
                    182
dtype: int64
```

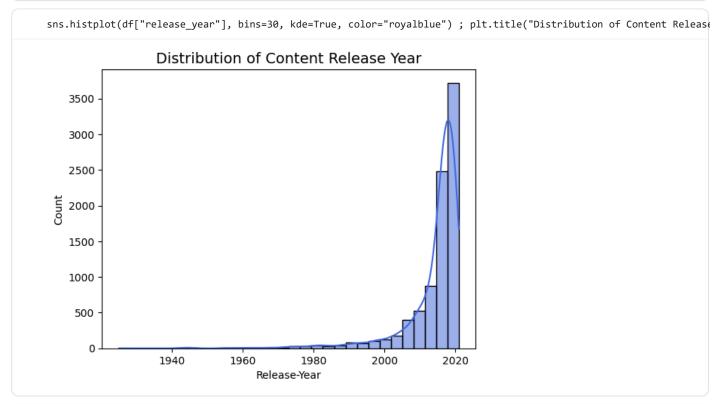
```
plt.figure(figsize=(12, 6))
sns.barplot(x=top_10.index, y=top_10.values, palette="viridis")

plt.xlabel('country')
plt.ylabel("count")
plt.title("Top 10 country with most content on Netflix")
plt.xticks(rotation=45)
plt.show()
```

/tmp/ipython-input-4247399556.py:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to sns.barplot(x=top_10.index, y=top_10.values, palette="viridis")





```
rating_counts = df["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")
```

```
Untitled3.ipynb - Colab
plt.ylabel("Count")
plt.show()
/tmp/ipython-input-2033981661.py:2: FutureWarning:
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to
  sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
               Distribution of Content Ratings on Netflix
   3000
   2500
   2000
   1500
   1000
    500
       0
         TV-MATV-14TV-PG R PG-13TV-Y7TV-Y PG TV-G NR
                                                        GTV-Y7-FWC-17 UR
```

```
movies_df = df[df["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("Distribution of Movie-Durations on Netflix", fontsize=14)
plt.xlabel("Duration (minutes)")
plt.ylabel("Count")
plt.show()
                                         Distribution of Movie-Durations on Netflix
   1200
   1000
   800
   600
   400
   200
```

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

150

Duration (minutes)

200

250

Rating

300

sns.poxplot(qata=movies_qr, x= rating , y= quration , palette= coolwarm)
plt.title("Distribution Of Movie Durations Across Different Ratings", fontsize=14)
plt.xlabel("Rating")