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

data = pd.read\_csv('/content/netflix1.csv')

dtypes: int64(1), object(9) memory usage: 686.8+ KB

data.tail()

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

```
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 8790 non-null object
1 type 8790 non-null object
2 title 8790 non-null object
3 director 8790 non-null object
4 country 8790 non-null object
 5 date_added 8790 non-null
                                         object
 6 release_year 8790 non-null
                 8790 non-null
8790 non-null
                                          int64
     rating
                                          object
 8 duration
                                          object
                     8790 non-null object
 9 listed in
```

https://colab.research.google.com/drive/17bUJwxmT8jHGASwejjknxmliqtYwX7AL#scrollTo=rD0fUobUrAXu&printMode=true

listed_in	duration	rating	release_year	date_added	country	director	title	type	show_id	
International TV Shows, TV Dramas	2 Seasons	TV-PG	2016	1/17/2017	Turkey	Not Given	Yunus Emre	TV Show	s8797	8785
Kids' TV	3 Seasons	TV-Y7	2016	9/13/2018	United States	Not Given	Zak Storm	TV Show	s8798	8786
International TV Shows, Romantic TV Shows, TV	1 Season	TV-PG	2012	12/15/2016	Pakistan	Not Given	Zindagi Gulzar Hai	TV Show	s8801	8787
Kids' TV	1 Season	TV-Y	2016	6/23/2018	Pakistan	Not Given	Yoko	TV Show	s8784	8788
Kids' TV	1 Season	TV-Y7	2016	6/7/2018	Pakistan	Not Given	YOM	TV Show	s8786	8789

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

data.groupby('cou	intry')['	<pre>country'].count().sort_values(ascending=False)</pre>
	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** 86 rows × 1 columns

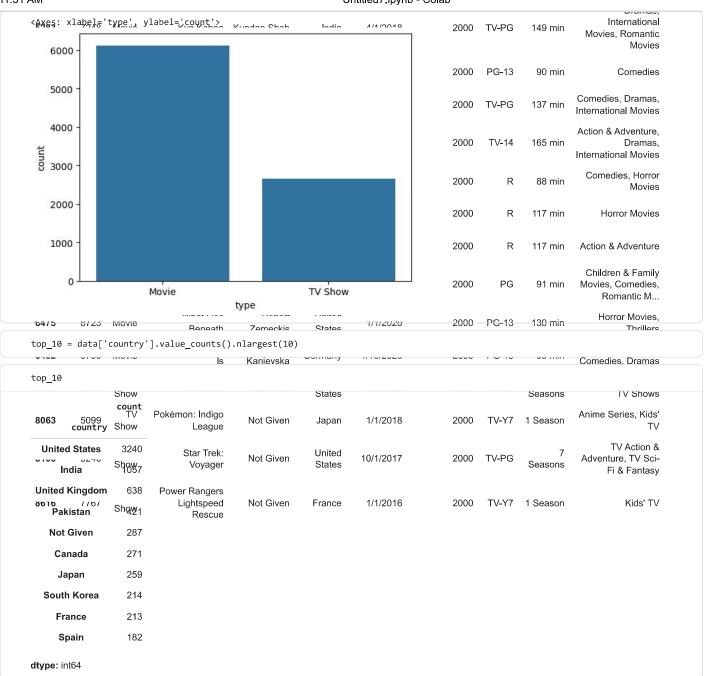
dtype: int64

data['show\_id'] = data['show\_id'].str.replace('s','')

```
data.loc[data['release_year'] == 2000]
```

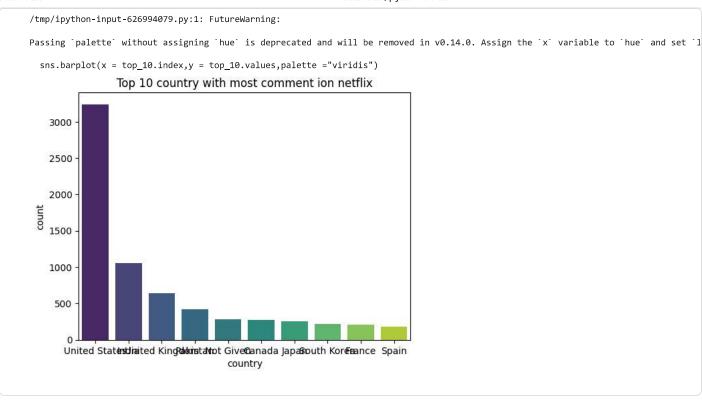
9/26/25,	11:51 AM	Untitled7.ipynb - Colab

			Milys of Comeay		States					
717	567	Movie	Charlie's Angels	McG	United States	7/1/2021	2000	PG-13	98 min	Action & Adventure, Comedies
741	594	Movie	Snow Day	Chris Koch	United States	7/1/2021	2000	PG	89 min	Children & Family Movies, Comedies
859	780	Movie	Battlefield Earth	Roger Christian	United States	6/2/2021	2000	PG-13	118 min	Action & Adventure, Cult Movies, Sci-Fi & Fantasy
983	953	Movie	The Whole Nine Yards	Jonathan Lynn	United States	5/1/2021	2000	R	99 min	Action & Adventure, Comedies
2644	3473	Movie	Rugrats in Paris: The Movie	Stig Bergqvist, Paul Demeyer	Germany	10/1/2019	2000	G	79 min	Children & Family Movies, Comedies
3299	4546	Movie	Monty Python: Before the Flying Circus	Will Yapp	United Kingdom	10/2/2018	2000	TV-MA	56 min	Comedies, Documentaries
data.	iloc[100:	110]								Advision Advision R
	show_id	type	title	Mohamed <b>director</b>	country	date_added	release_year	rating	duration	Movies, Music & <b>Musica<u>l</u>si</b> n
100	370	TV Show	Myth & Mogul: John DeLorean	Not Given	Pakistan	7/30/2021	2021	TV-14	1 Season	British TV Shows, Crime TV Shows, Docuseries
4249 101	5954 377	Movie TV	Joseph: King of Transformers: War for Cybertron:	Robert C.	United States Pakistan	9/27/2011 7/29/2021	2000 2021	TV-PG TV-Y7	75 min 1 Season	Movies, Dramas,
	2007	Show	Kingdom	Betty	United	0/00/0000		50.40	404	
102	380	TV	Tattoo Redo	Not Given	Pakistan	7/28/2021	2021	TV-MA	1 Season	Reality TV
4417	6148	Show Movie	American Psycho	Mary Harron		9/1/2019	2000	R	102 min	
103	382	TV	The Snitch Cartel:	Not Given	States Pakistan	7/28/2021	2021	TV-MA	1 Season	Мор <del>мію</del> яπΩогомою International TV
4424	6155	Show Movie	An American <b>Pragi</b> ns The Treasures of	Larry Latham	United	4/1/2018	2000	G	79 min	Childrews France
104	398	TV Show	Feels Like Ishq	Not Given	Pakistan	7/23/2021	2021	TV-MA	1 Season	International TV Shows, Romantic TV Shows, TV
4551	6312	Movie TV	Billy Elliot How to Become a	Daldry	Kingdom Pakistan	2/1/2019	2000	K	110 min	, Movies.
105	483	Show	Tyrant	Not Given	Pakistan	7/9/2021	2021	TV-MA	1 Season	International WHSE ses
106	82	Movie	Kate	Cedric Nicolas- Troyan	United States	9/10/2021	2021	R	106 min	Action & Adventure
4653 107	6441 85	Movie Movie	CondMerredebahe Saga	JJ©SKiMz, Dha <b>rumik</b> e Akindele	India Nigeria	12/31/2019 9/10/2021	2000 2020	TV-14 TV-MA	132 min 147 min	International Movies Royantice, Comedies Magnas
108	87	Movie	Prey	Thomas Sieben	Germany	9/10/2021	2021	TV-MA	87 min	International Movies, Thrillers
	2011		Dragonheart: A		United	4440000	2022		~ · ·	Action & Adventure,
sns.co	ountplot(	x='type'	,data=data)							
4893	6754	Movie	Final Destination	James Wong	United States	1/1/2020	2000	R	98 min	Cult Movies, Horror Movies, Thrillers
5018	6913	Movie	Hamara Dil Aapke Paas Hai	Satish Kaushik	India	3/1/2018	2000	TV-14	158 min	Dramas, International Movies, Music & Musicals
	7014	Movie	How the Grinch	Ron Howard	United	6/1/2017	2000	PG	105 min	Children & Family

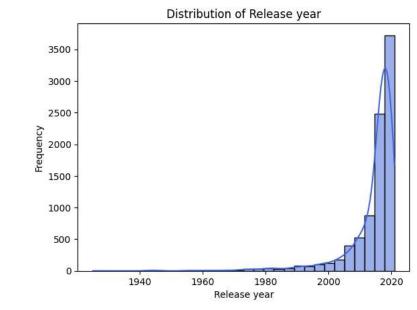


```
sns.barplot(x = top_10.index,y = top_10.values,palette ="viridis")
plt.show

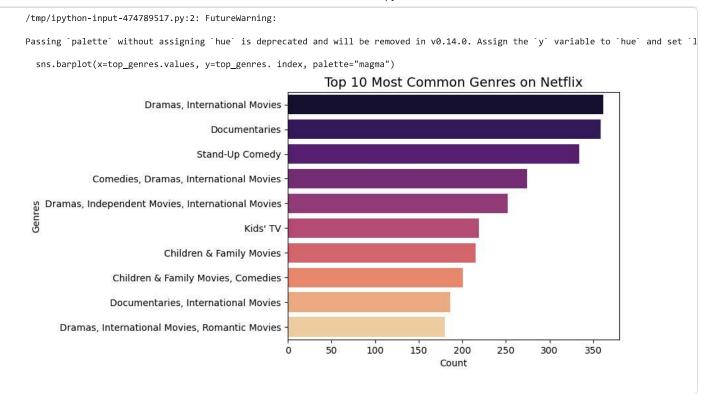
plt.xlabel('country')
plt.ylabel('count')
plt.title("Top 10 country with most comment ion netflix")
plt.show()
```

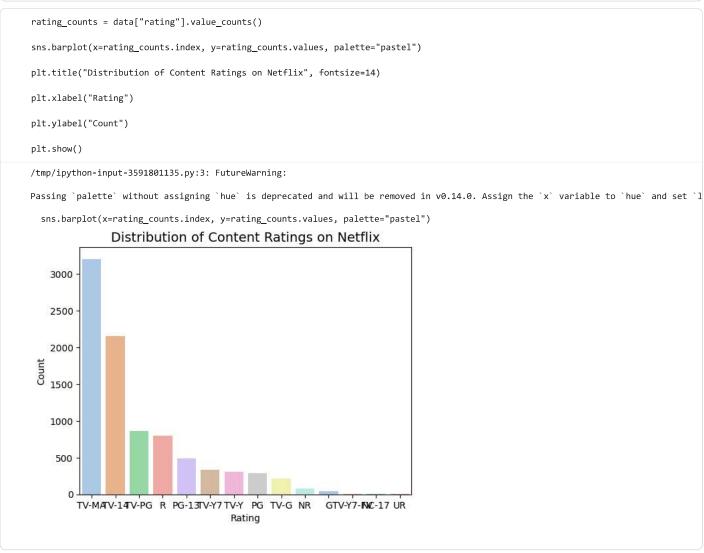






```
top_genres = data[ "listed_in"]. value_counts().head(10)
sns.barplot(x=top_genres.values, y=top_genres. index, palette="magma")
plt.title("Top 10 Most Common Genres on Netflix"
, fontsize=14)
plt.xlabel( "Count")
plt.ylabel ("Genres")
plt.show()
```





movies\_df = data[data["type"] == "Movie"].copy()

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

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

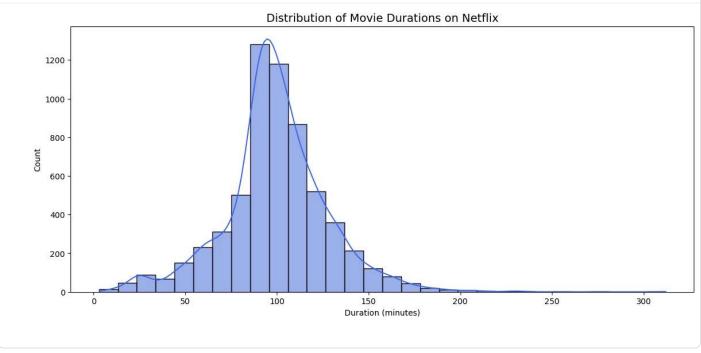
sns.histplot(movies_df["duration"], bins=30, kde=True, color="royalblue")

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

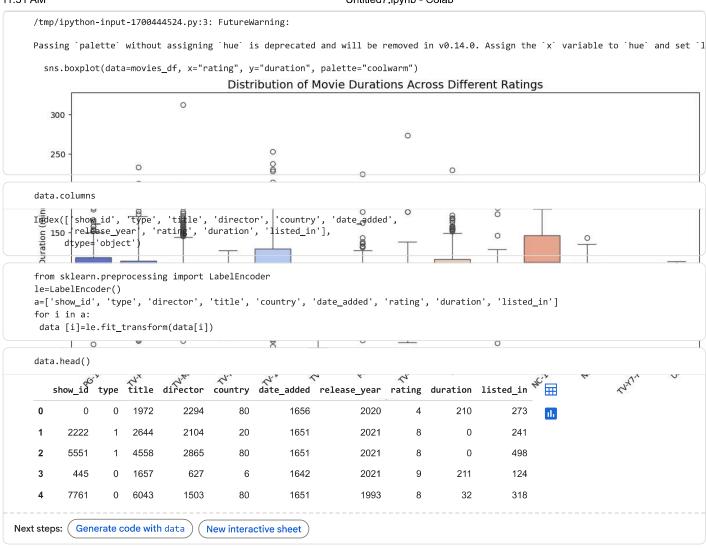
plt.xlabel("Duration (minutes)")

plt.ylabel("Count")

plt.show()
```



```
plt.figure(figsize=(14, 6))
sns.boxplot(data=movies_df, x="rating", y="duration", palette="coolwarm")
plt.title("Distribution of Movie Durations Across Different Ratings", fontsize=14)
plt.xlabel("Rating")
plt.ylabel("Duration (minutes)")
plt.xticks (rotation=45)
plt.show()
```



plt.figure(figsize=(10,10))
sns.heatmap(data.corr(),annot=True)