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

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

```
df
```

	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

Next steps: Generate code with df | New interactive sheet

```
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 columns

dtype: int64

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

type	count
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_in
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, International Movies
36	s35	TV Show	Tayo and Little Wizards	Not Given	Pakistan	9/17/2021	2020	TV-Y7	1 Season	Kids' TV
47	s190	TV Show	Bread Barbershop	Not Given	Pakistan	8/28/2021	2020	TV-Y	2 Seasons	Kids' TV, TV Comedies
58	s48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	South Africa	9/16/2021	2020	TV-MA	1 Season	International 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 TV 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	International 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 TV Shows, Docuseries

953 rows × 10 columns

```
df.iloc[100:110]
```

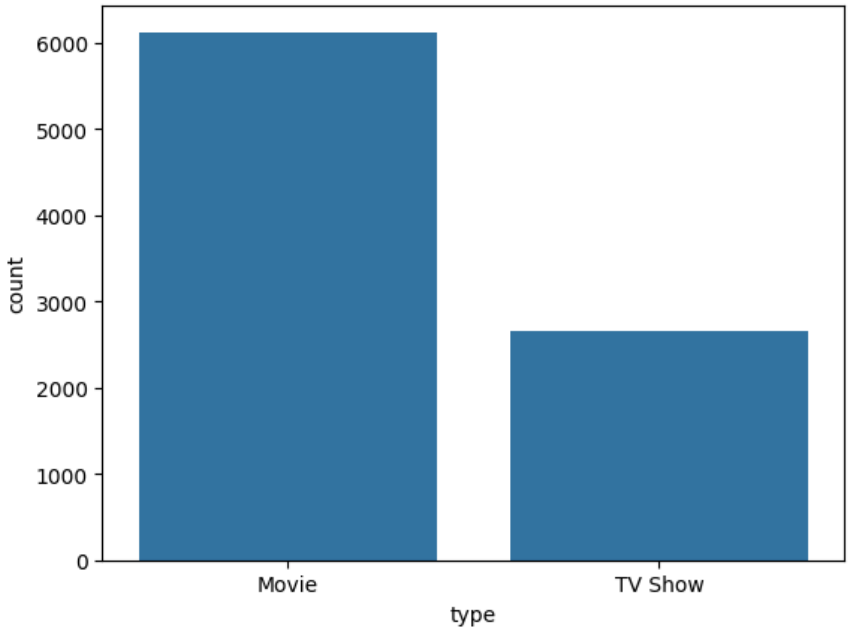
	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
100	s370	TV Show	Myth & Mogul: John DeLorean	Not Given	Pakistan	7/30/2021	2021	TV-14	1 Season	British TV Shows, Crime TV Shows, Docuseries
101	s377	TV Show	Transformers: War for Cybertron: Kingdom	Not Given	Pakistan	7/29/2021	2021	TV-Y7	1 Season	Anime Series
102	s380	TV Show	Tattoo Redo	Not Given	Pakistan	7/28/2021	2021	TV-MA	1 Season	Reality TV
103	s382	TV Show	The Snitch Cartel: Origins	Not Given	Pakistan	7/28/2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, Spanis...
104	s398	TV Show	Feels Like Ishq	Not Given	Pakistan	7/23/2021	2021	TV-MA	1 Season	International TV Shows, Romantic TV Shows, TV ...
105	s483	TV Show	How to Become a Tyrant	Not Given	Pakistan	7/9/2021	2021	TV-MA	1 Season	Docuseries
106	s82	Movie	Kate	Cedric Nicolas-Troyan	United States	9/10/2021	2021	R	106 min	Action & Adventure
107	s85	Movie	Omo Ghetto: the Saga	JJC Skillz, Funke Akindele	Nigeria	9/10/2021	2020	TV-MA	147 min	Action & Adventure, Comedies, Dramas
108	s87	Movie	Prey	Thomas Sieben	Germany	9/10/2021	2021	TV-MA	87 min	International Movies, Thrillers
		TV	Revelations: The Masters							Anime Series,

```
df.query('release_year == 2020')
```

	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
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, International Movies
36	s35	TV Show	Tayo and Little Wizards	Not Given	Pakistan	9/17/2021	2020	TV-Y7	1 Season	Kids' TV
47	s190	TV Show	Bread Barbershop	Not Given	Pakistan	8/28/2021	2020	TV-Y	2 Seasons	Kids' TV, TV Comedies
58	s48	TV Show	The Smart Money Woman	Bunmi Ajakaiye	South Africa	9/16/2021	2020	TV-MA	1 Season	International 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 TV 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	International 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 TV Shows, Docuseries

953 rows × 10 columns

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




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

country	count
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

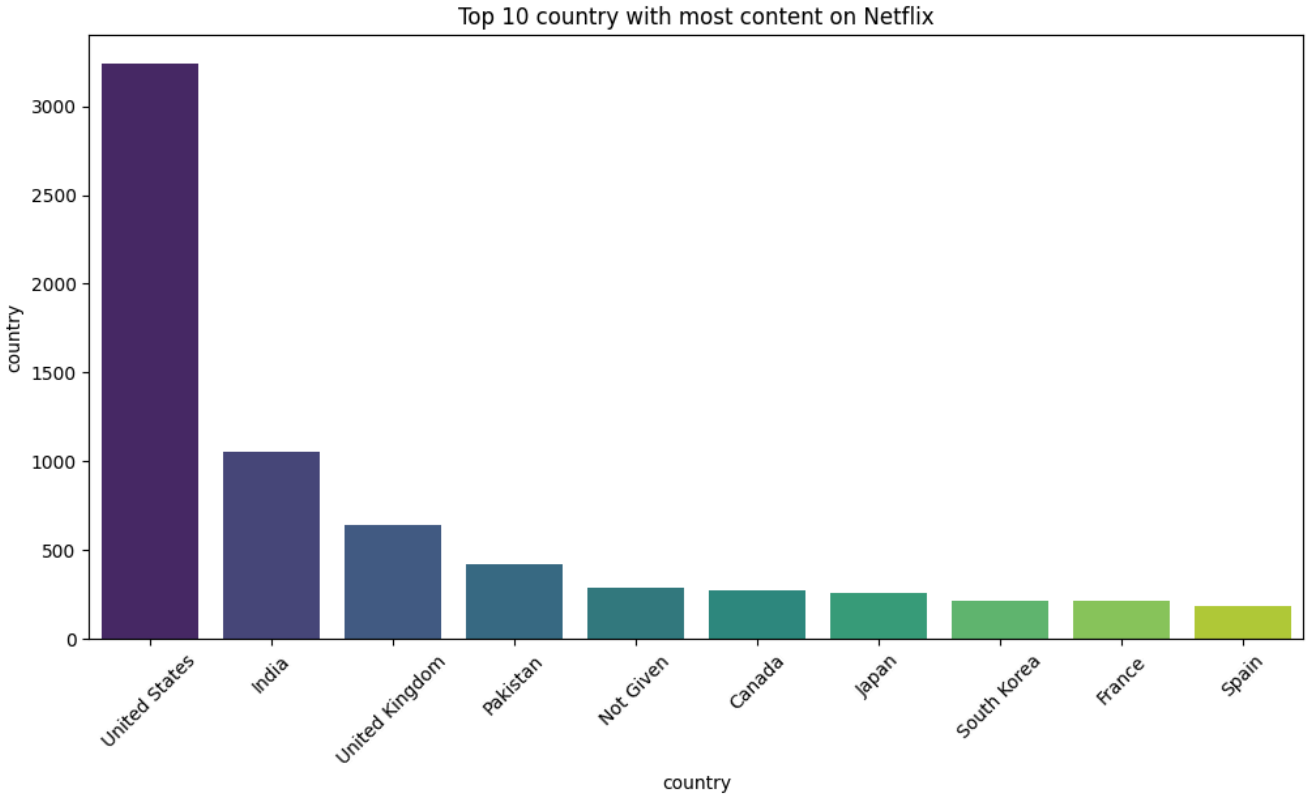
```
plt.figure(figsize=(12, 6))
sns.barplot(x=top_10.index, y=top_10.values, palette='viridis')

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

```
/tmp/ipython-input-3751696288.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')
```



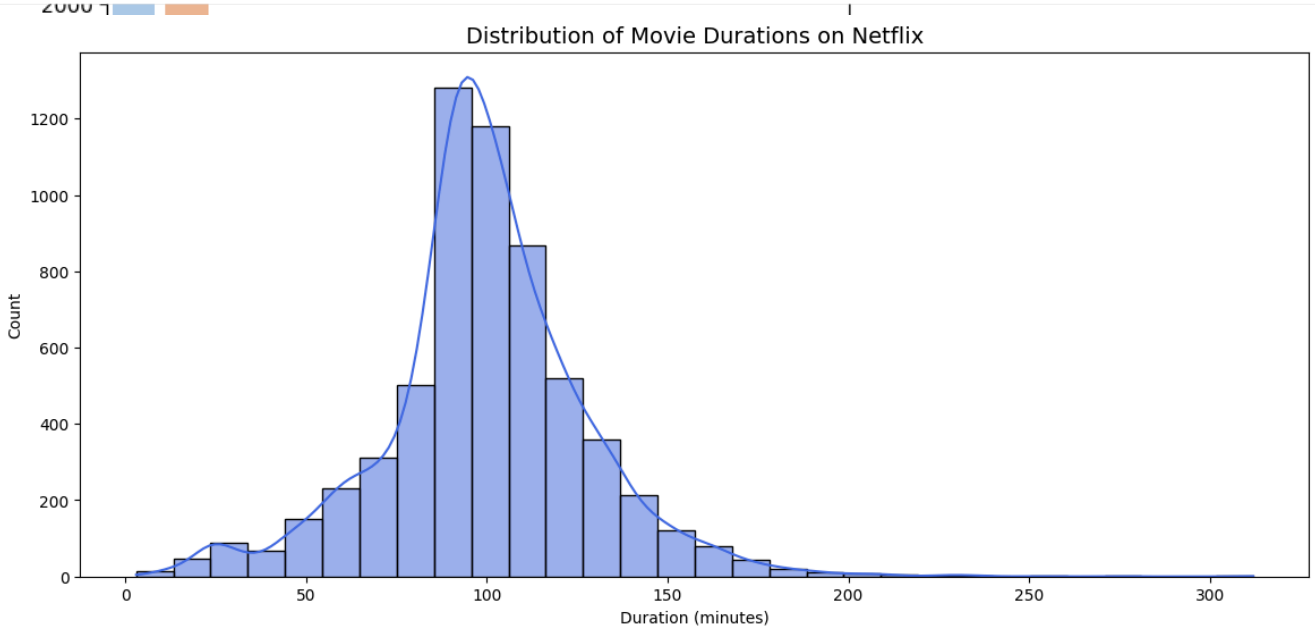

```
rating_counts = df["rating"].value_counts()
sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
plt.title("Distribution of Content Ratings on Netflix", fontsize=14)
plt.xlabel("Rating")
plt.ylabel("Count")
plt.show()
```

```
/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")
```

```
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()
```




```
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()
```