

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

```
data=pd.read_csv('/content/netflix1.csv')
```

data

	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	

Next steps: [Generate code with data](#) [New interactive sheet](#)

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

```
data.shape
```

```
(8790, 10)
```

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



```
0
show_id 0.0
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.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.tail()
```

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
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 ...

```
data['show_id']=data['show_id'].str.replace('s','')
```

```
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']==2000]
```

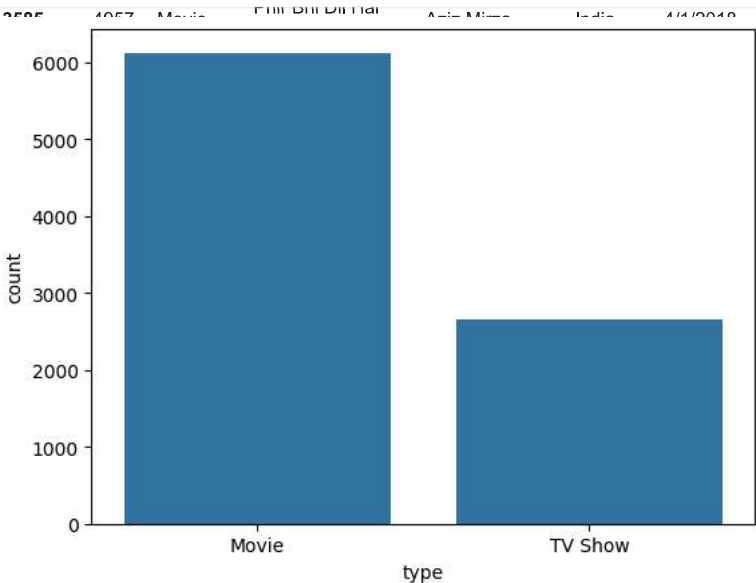


show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
---------	------	-------	----------	---------	------------	--------------	--------	----------	-----------

data.iloc[100:110]

show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
100	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	TV Show	Kings of Comedy	Opine Lee	United States	7/1/2021	2000	TV	11 min	Stand-Up Comedy
717	Movie	Transformers: War for Cybertron: Charlie's Kingdom	Not Given	Pakistan	7/29/2021	2000	TV-Y7 PG-13	1 Season 98 min	Action & Adventure, Comedies
102	TV Show	Tattoo Redo	Not Given	Pakistan	7/28/2021	2021	TV-MA	1 Season	Reality TV
103	TV Show	The Snitch Cartel: Battlefield Earth	Not Given	Pakistan	7/28/2021	2000	TV-MA	1 Season	Crime TV Shows, Action & Adventure, International TV Shows, Sci-Fi Shows, Fantasy
104	TV Show	Feels Like Ishq	Not Given	Pakistan	7/23/2021	2021	TV-MA	1 Season	International TV Shows, Romantic TV Shows, TV ...
105	TV Show	How to Become a Rughrats in Paris: The Movie	Stig Bergeron Paul	Pakistan	7/9/2021	2000	TV-MA G	1 Season 79 min	Children & Family Movies, Comedies
106	Movie	Kate	Cedric Nicolas-Troyan	United States	9/10/2021	2021	R	106 min	Action & Adventure
107	Movie	Circus Omo Ghetto: the	JJC Skillz, Funke	Nigeria	9/10/2021	2020	TV-MA	147 min	Documentaries, Action & Adventure, Comedies, Dramas

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



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

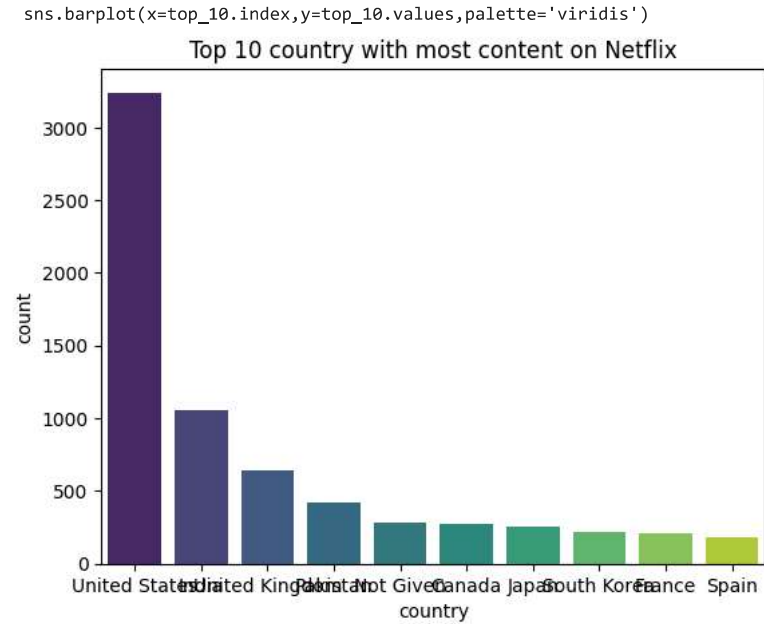
4814	6644	Movie	Dragonheart: A New Beginning	Doug Leffler	United States	1/1/2020	2000	PG	84 min	Action & Adventure, Sci-Fi & Fantasy
4893	6754	Movie	Final Destination	James Wong	United States	1/1/2020	2000	R	98 min	Cult Movies, Horror Movies, Thrillers
5018	6913	Movie	Hamara Dil Aapke Paas Hai	Satish Kaushik	India	3/1/2018	2000	TV-14	158 min	Dramas, International Movies, Music & Musicals
5097	7014	Movie	How the Grinch Stole Christmas	Ron Howard	United States	6/1/2017	2000	PG	105 min	Children & Family Movies, Comedies

5283	7248	Movie	Kya Kehna	Kundan Shah	India	4/1/2018	2000	TV-PG	149 min	International Movies. Romantic
		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							

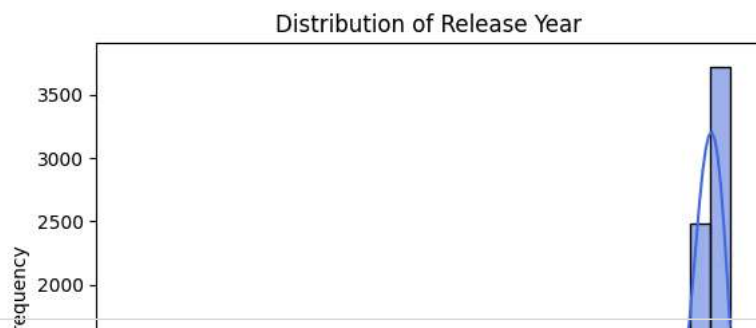
dtype: int64

```
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.show()
```

/tmp/ipython-input-2389435104.py:1: FutureWarning:  
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `l



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

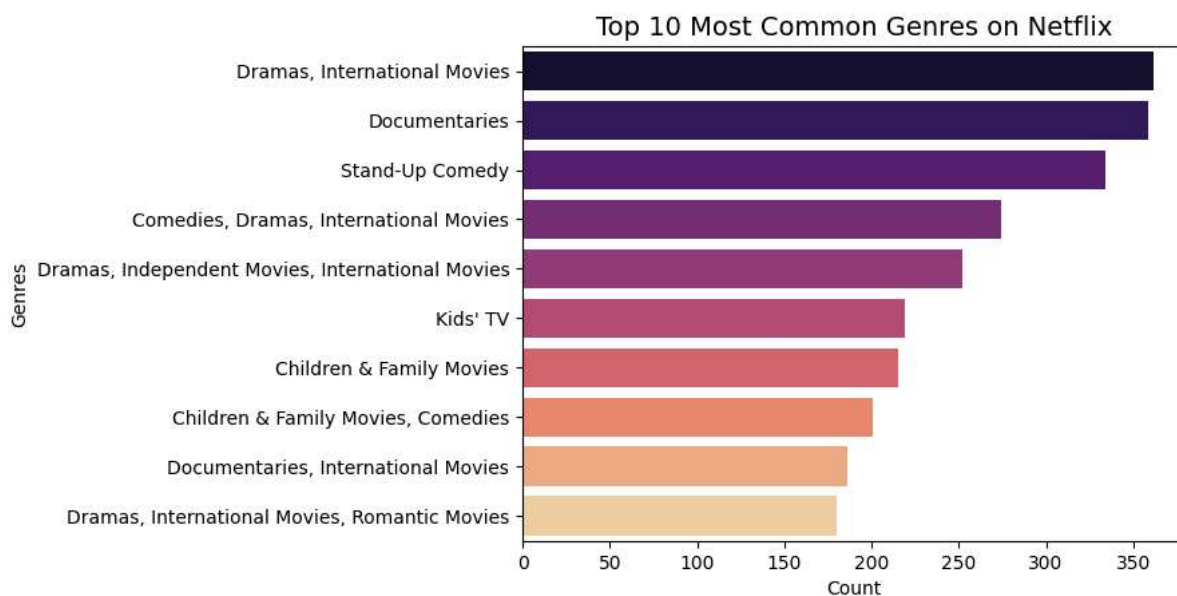


```
top_genres = data[ "listed_in"]. value_counts().head(10)
sns.barplot(x=top_genres.values, y=top_genres. index, palette="magma")
plt.title("Top 10 Most Common Genres on Netflix"
, fontsize=14)
plt.xlabel( "Count")
plt.ylabel ( "Genres")
plt.show()
```

/tmp/ipython-input-4748-9517.py:2960: FutureWarning: 1960

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `y` variable to `hue` and set `1

```
sns.barplot(x=top_genres.values, y=top_genres. index, palette="magma")
```

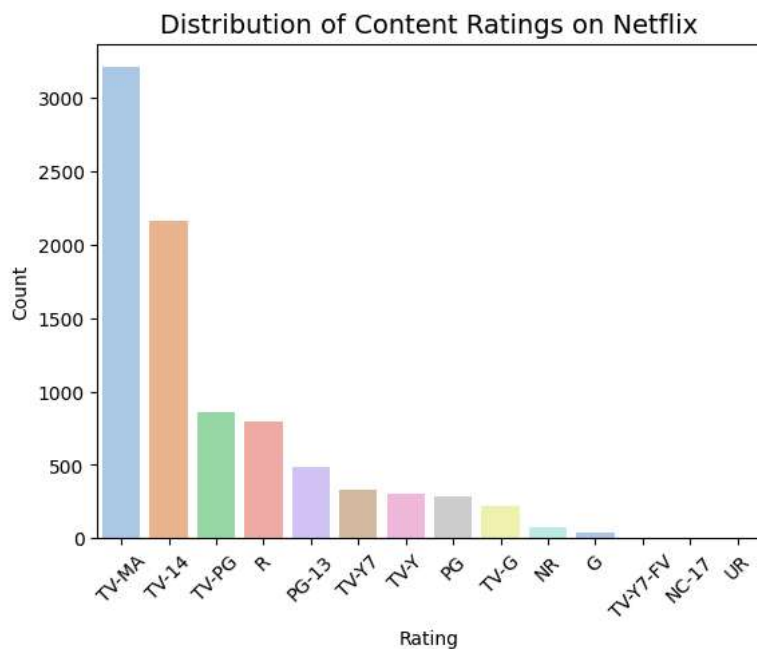


```
rating_counts = data["rating"].value_counts()
sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
plt.title("Distribution of Content Ratings on Netflix", fontsize=14)
plt.xlabel("Rating")
plt.ylabel("Count")
plt.xticks(rotation=45)
plt.show()
```

```
/tmp/ipython-input-112092460.py:2: FutureWarning:
```

```
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `1
```

```
sns.barplot(x=rating_counts.index, y=rating_counts.values, palette="pastel")
```



```
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")
```

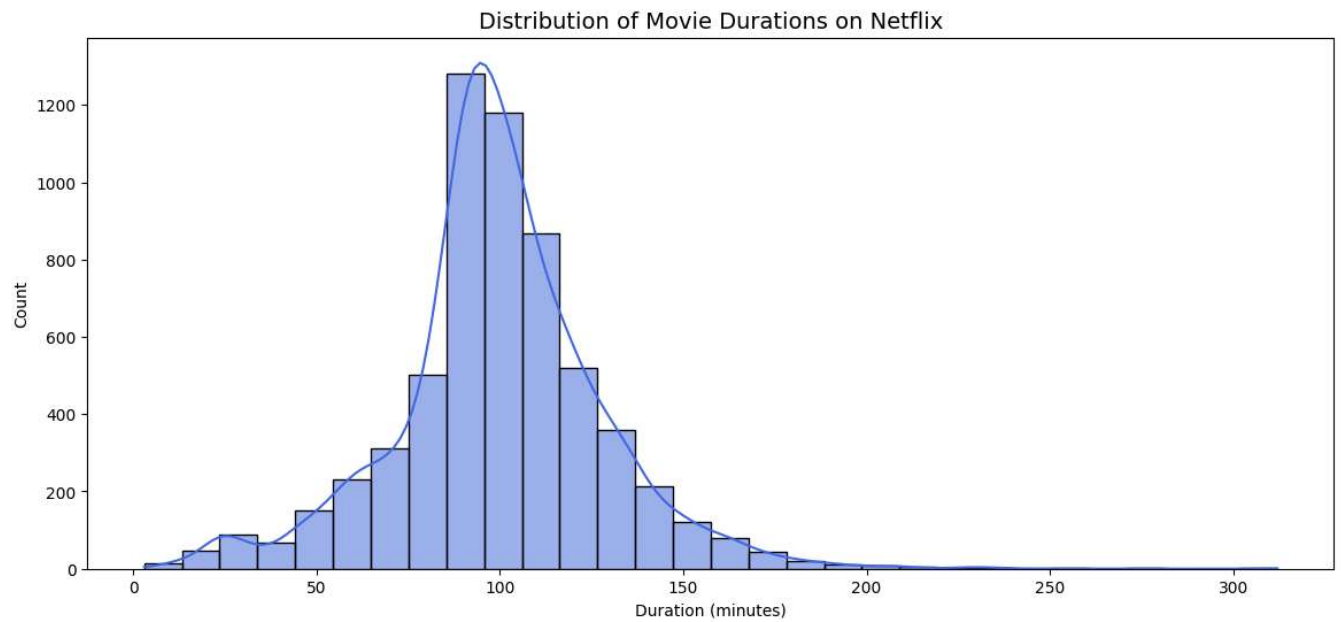
```
plt.title("Distribution of Movie Durations on Netflix", fontsize=14)
```

```
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()
```

/tmp/ipython-input-1315193908.py:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `1`

```
sns.boxplot(data=movies_df, x="rating", y="duration", palette="coolwarm")
```

