

```
from google.colab import files
uploaded = files.upload()
```

file.csv
 • file.csv(text/csv) - 2954567 bytes, last modified: 2/3/2025 - 100% done
 Saving file.csv to file.csv

```
import os
print(os.listdir())


```

```
import pandas as pd
data=pd.read_csv("file.csv")
```

```
data
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|--------|-------------------|--|---|-------------------|--------|-----------|---|--|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico City... |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... |
| 3 | s4 | Movie | 9 | Shane Acker | Elijah Wood, John C. Reilly, Jennifer Connnelly... | United States | November 16, 2017 | PG-13 | 80 min | Action & Adventure, Independent Movies, Sci-Fi... | In a postapocalyptic world, rag-doll robots hi... |
| 4 | s5 | Movie | 21 | Robert Luketic | Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... | United States | January 1, 2020 | PG-13 | 123 min | Dramas | A brilliant group of students become card-coun... |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7784 | s7783 | Movie | Zozo | Josef Fares | Imad Creidi, Antoinette Turk, Elias Gergi, Car... | Sweden, Czech Republic, United Kingdom, Denmar... | October 19, 2020 | TV-MA | 99 min | Dramas, International Movies | When Lebanon's Civil War deprives Zozo of his ... |
| 7785 | s7784 | Movie | Zubaan | Mozez | Vicky Kaushal, Sarah-Jane | India | March 2, 2019 | TV-14 | 111 min | Dramas, International | A scrappy but poor boy worms |

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```
#head()---it is used to show top 5 record in the dataset
data.head()
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|---|---------|----------|-------|-------------------|---|---------------|-------------------|--------|-----------|---|--|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico City... |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... |
| 3 | s4 | Movie | 9 | Shane Acker | Elijah Wood, John C. Reilly, Jennifer | United States | November 16, 2017 | PG-13 | 80 min | Action & Adventure, Independent | In a postapocalyptic world, a rag-doll |

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Start coding or [generate](#) with AI.

```
#tail()----it is used to show the bottom 5 records in the dataset
data.tail()
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|-----------------------|-------------|---|--|--------------------|--------|----------|---|---|
| 7784 | s7783 | Movie | Zozo | Josef Fares | Imad Creidi, Antoinette Turk, Elias Gergi, Car... | Sweden, Czech Republic, United Kingdom, Denmark... | October 19, 2020 | TV-MA | 99 min | Dramas, International Movies | When Lebanon's Civil War deprives Zozo of his... |
| 7785 | s7784 | Movie | Zubaan | Mozez Singh | Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan... | India | March 2, 2019 | TV-14 | 111 min | Dramas, International Movies, Music & Musicals | A scrappy but poor boy worms his way into a ty... |
| 7786 | s7785 | Movie | Zulu Man in Japan | NaN | Nasty C | NaN | September 25, 2020 | TV-MA | 44 min | Documentaries, International Movies, Music & M... | In this documentary, South African rapper Nast... |
| 7787 | s7786 | TV Show | Zumbo's Just Desserts | NaN | Adriano Zumbo, Rachel Khoo | Australia | October 31, 2020 | TV-PG | 1 Season | International TV Shows, Reality TV | Dessert wizard Adriano Zumbo looks for the nex... |

```
#shape ----to show the no of rows and column in the dataset
data.shape
```

→ (7789, 11)

```
# size ---- it is used to count the no of records or element in the dataset
data.size
```

→ 85679

```
# columns ----show column names only
data.columns
```

→ Index(['Show_Id', 'Category', 'Title', 'Director', 'Cast', 'Country', 'Release_Date', 'Rating', 'Duration', 'Type', 'Description'], dtype='object')

```
#dtypes ----- show the data types of each column
data.dtypes
```



0

```
Show_Id    object
Category   object
Title      object
Director   object
Cast       object
Country   object
Release_Date object
Rating     object
Duration   object
Type       object
Description object
```

dtype: object

```
#info() -----to show all information of the dataset
data.info()
```

```
→ <class 'pandas.core.frame.DataFrame'>
RangeIndex: 7789 entries, 0 to 7788
Data columns (total 11 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   Show_Id      7789 non-null   object  
 1   Category     7789 non-null   object  
 2   Title        7789 non-null   object  
 3   Director     5401 non-null   object  
 4   Cast         7071 non-null   object  
 5   Country      7282 non-null   object  
 6   Release_Date 7779 non-null   object  
 7   Rating       7782 non-null   object  
 8   Duration     7789 non-null   object  
 9   Type         7789 non-null   object  
 10  Description   7789 non-null   object  
dtypes: object(11)
memory usage: 669.5+ KB
```

```
# find duplicate values
#duplicate---
data[data.duplicated()]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|----------|-------------|---|---------------|---------------|--------|----------|---|---|
| 6300 | s684 | Movie | Backfire | Dave Patten | Black Deniro, Byron "Squally" Vinson, Dominic ... Seun Ajayi, | United States | April 5, 2019 | TV-MA | 97 min | Dramas, Independent Movies, Thrillers | When two would-be robbers accidentally kill a ... |

```
data.drop_duplicates(inplace=True)
```

Start coding or generate with AI.

```
# null values to handle
data.head()
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|---|---------|----------|-------|-------------------|---|---------------|-------------------|--------|-----------|---|--|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico City... |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... |
| 3 | s4 | Movie | 9 | Shane Acker | Elijah Wood, John C. Reilly, Jennifer | United States | November 16, 2017 | PG-13 | 80 min | Action & Adventure, Independent | In a postapocalyptic world, a rag-doll |

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```
data.isnull()
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|-------|----------|-------|---------|--------------|--------|----------|-------|-------------|
| 0 | False | False | False | True | False | False | False | False | False | False | False |
| 1 | False | False | False | False | False | False | False | False | False | False | False |
| 2 | False | False | False | False | False | False | False | False | False | False | False |
| 3 | False | False | False | False | False | False | False | False | False | False | False |
| 4 | False | False | False | False | False | False | False | False | False | False | False |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7784 | False | False | False | False | False | False | False | False | False | False | False |
| 7785 | False | False | False | False | False | False | False | False | False | False | False |
| 7786 | False | False | False | True | False | True | False | False | False | False | False |
| 7787 | False | False | False | True | False | False | False | False | False | False | False |
| 7788 | False | False | False | False | True | False | False | False | False | False | False |

7787 rows × 11 columns

```
data.isnull().sum()
```

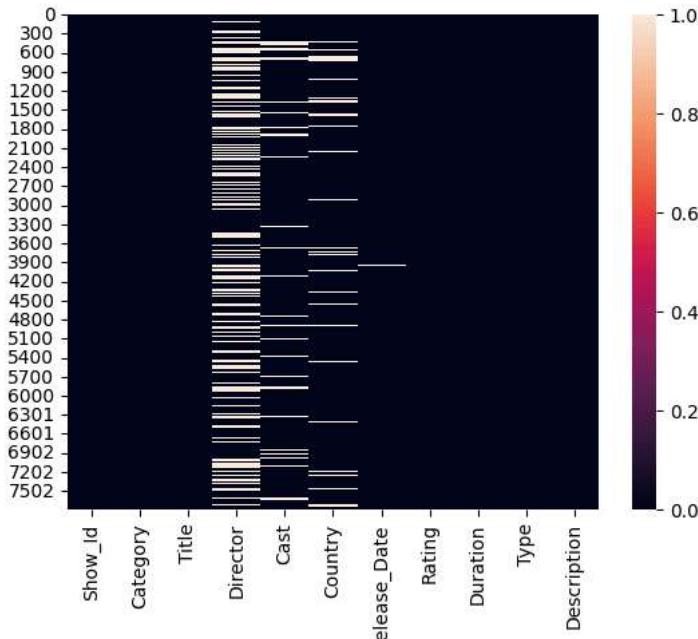
| | 0 |
|--------------|------|
| Show_Id | 0 |
| Category | 0 |
| Title | 0 |
| Director | 2388 |
| Cast | 718 |
| Country | 507 |
| Release_Date | 10 |
| Rating | 7 |
| Duration | 0 |
| Type | 0 |
| Description | 0 |

`dtype: int64`

```
import seaborn as sns
```

```
sns.heatmap(data.isnull())
```

<Axes: >



```
#for "house of card " what is the show id and who is the director of this show
data.head()
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|---|---------|----------|-------|-------------------|---|---------------|-------------------|--------|-----------|---|---|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico Cit... |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... |
| 3 | s4 | Movie | 9 | Shane Acker | Elijah Wood, John C. Reilly, Jennifer | United States | November 16, 2017 | PG-13 | 80 min | Action & Adventure, Independent | In a postapocalyptic world, rag-doll |

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```
data[data['Title'].isin(['House of Cards'])]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|----------------|---|--|---------------|------------------|--------|-----------|-------------------------|---|
| 2832 | s2833 | TV Show | House of Cards | Robin Wright, David Fincher, Gerald M. Parker, I... | Kevin Spacey, Robin Wright, Kate Mara, | United States | November 2, 2018 | TV-MA | 6 Seasons | TV Dramas, TV Thrillers | A ruthless politician will stop at nothing to ... |

```
data[data['Title'].str.contains('House of Cards')]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|----------|-------------------------------------|-----------------------------|---------------|------------------|--------|-----------|---------------|---------------------------------|
| 2832 | s2833 | TV Show | House of | Robin Wright, David Fincher, Gerald | Kevin Spacey, Robin Wright, | United States | November 2, 2018 | TV-MA | 6 Seasons | TV Dramas, TV | A ruthless politician will stop |

```
#2.in which year highest numbers of the Tv shows & Movies were released ?show with Bar graph
data.dtypes
```

| Show_Id | object | | | | | | | | | | | |
|---|----------|---------|---------------------------|---------------------|---|------------------------|-------------------|----------|-----------|---|--|------------|
| Category | object | | | | | | | | | | | |
| Title | object | | | | | | | | | | | |
| Director | object | | | | | | | | | | | |
| Cast | object | | | | | | | | | | | |
| Country | object | | | | | | | | | | | |
| Release_Date | object | | | | | | | | | | | |
| Rating | object | | | | | | | | | | | |
| Duration | object | | | | | | | | | | | |
| Type | object | | | | | | | | | | | |
| Description | object | | | | | | | | | | | |
| dtvne | object | | | | | | | | | | | |
| data['Date_N']=pd.to_datetime(data['Release_Date'],errors='coerce') | | | | | | | | | | | | |
| data.head(1000) | | | | | | | | | | | | |
| Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | |
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico City... | 2016-12-23 |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... | 2018-12-20 |
| 3 | s4 | Movie | 9 | Shane Acker | Elijah Wood, John C. Reilly, Jennifer Connolly... | United States | November 16, 2017 | PG-13 | 80 min | Action & Adventure, Independent Movies, Sci-Fi... | In a postapocalyptic world, rag-doll robots hi... | 2017-11-16 |
| 4 | s5 | Movie | 21 | Robert Luketic | Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... | United States | January 1, 2020 | PG-13 | 123 min | Dramas | A brilliant group of students become card-coun... | 2020-01-01 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 995 | s996 | TV Show | Blue Exorcist | NaN | Nobuhiko Okamoto, Jun Fukuyama, Kana Hanazawa,... | Japan | September 1, 2020 | TV-MA | 2 Seasons | Anime Series, International TV Shows | Determined to throw off the curse of being Sat... | 2020-09-01 |
| 996 | s997 | Movie | Blue Is the Warmest Color | Abdellatif Kechiche | Léa Seydoux, Adèle Exarchopoulos, Salim Kechio... | France, Belgium, Spain | August 26, 2016 | NC-17 | 180 min | Dramas, Independent Movies, International Movies | Determined to fall in love, 15-year-old Adele ... | 2016-08-26 |
| 997 | s998 | Movie | Blue Jasmine | Woody Allen | Cate Blanchett, Sally Hawkins, Alec Baldwin, L... | United States | March 8, 2019 | PG-13 | 98 min | Comedies, Dramas, Independent Movies | The high life leads to high anxiety for a fash... | 2019-03-08 |
| 998 | s999 | Movie | Blue Jay | Alex Lehmann | Sarah Paulson, Mark Duplass, Clu Gulager | United States | December 6, 2016 | TV-MA | 81 min | Dramas, Independent Movies, Romantic Movies | Two former high school sweethearts unexpectedl... | 2016-12-06 |

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```
data.dtypes
```

| | 0 |
|--------------|----------------|
| Show_Id | object |
| Category | object |
| Title | object |
| Director | object |
| Cast | object |
| Country | object |
| Release_Date | object |
| Rating | object |
| Duration | object |
| Type | object |
| Description | object |
| Date_N | datetime64[ns] |

dtype: object

```
data['Date_N'].dt.year.value_counts()
```

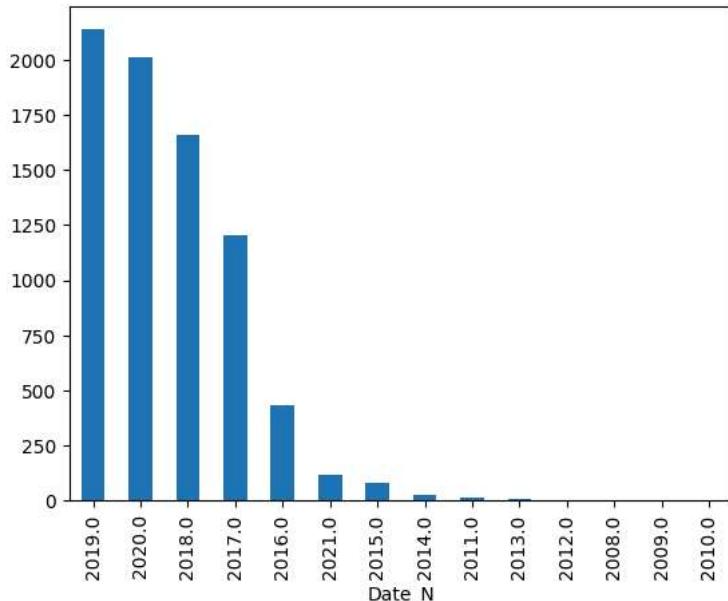
| | count |
|--------|-------|
| 2019.0 | 2136 |
| 2020.0 | 2008 |
| 2018.0 | 1661 |
| 2017.0 | 1201 |
| 2016.0 | 432 |
| 2021.0 | 117 |
| 2015.0 | 79 |
| 2014.0 | 24 |
| 2011.0 | 13 |
| 2013.0 | 10 |
| 2012.0 | 3 |
| 2008.0 | 2 |
| 2009.0 | 2 |
| 2010.0 | 1 |

dtype: int64

BAR GRAPH

```
data['Date_N'].dt.year.value_counts().plot(kind='bar')
```

→ <Axes: xlabel='Date_N'>



#3.how many movies and tv shows are there in the dataset & what is the numbers ?

```
data.groupby('Category').Category.count()
```

→ Category

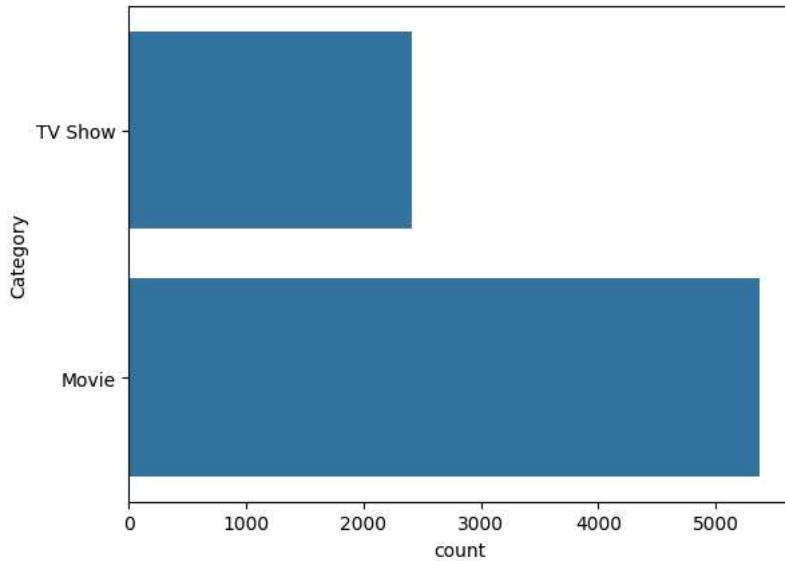
| Category | |
|----------|------|
| Movie | 5377 |
| TV Show | 2410 |

dtype: int64

#to show the count of all unique values of any column in the form of bar graph

```
sns.countplot(data['Category'])
```

→ <Axes: xlabel='count', ylabel='Category'>



```
data['Year']=data['Date_N'].dt.year
```

data.head()

>Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|---|---------|----------|-------|-------------------|---|-----------|-------------------|--------|-----------|---|--|------------|--------|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico City... | 2016-12-23 | 2016.0 |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... | 2018-12-20 | 2018.0 |
| | | | | | ... | | | | | | | | |

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TO FIND ALL THE MOVIES THAT WERE RELEASED IN YEAR **2000**

```
data[ (data['Category'] =='Movie') & (data['Year']== 2020) ]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_L |
|------|---------|----------|-------------------------------|-----------------------------|--|---|--------------------|--------|----------|---|--|------------|
| 4 | s5 | Movie | 21 | Robert Luketic | Jim Sturgess, Kevin Spacey, Kate Bosworth, Aar... | United States | January 1, 2020 | PG-13 | 123 min | Dramas | A brilliant group of students become card-coun... | 2020-01-01 |
| 6 | s7 | Movie | 122 | Yasir Al Yasiri | Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed... | Egypt | June 1, 2020 | TV-MA | 95 min | Horror Movies, International Movies | After an awful accident, a couple admitted to ... | 2020-06-01 |
| 14 | s15 | Movie | 3022 | John Suits | Omar Epps, Kate Walsh, Miranda Cosgrove, Angus... | United States | March 19, 2020 | R | 91 min | Independent Movies, Sci-Fi & Fantasy, Thrillers | Stranded when the Earth is suddenly destroyed ... | 2020-03-11 |
| 27 | s28 | Movie | #Alive | Cho Il | Yoo Ah-in, Park Shin-hye | South Korea | September 8, 2020 | TV-MA | 99 min | Horror Movies, International Movies, Thrillers | As a grisly virus rampages a city, a lone man ... | 2020-09-01 |
| 28 | s29 | Movie | #AnneFrank - Parallel Stories | Sabina Fedeli, Anna Migotto | Helen Mirren, Gengher Gatti | Italy | July 1, 2020 | TV-14 | 95 min | Documentaries, International Movies | Through her diary, Anne Frank's story is retold... | 2020-07-01 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7762 | s7761 | Movie | Zaki Chan | Wael Ihsan | Ahmed Helmy, Yasmin Abdulaziz, Hassan Hosny, H... | Egypt | May 19, 2020 | TV-PG | 109 min | Comedies, International Movies, Romantic Movies | An unqualified young man has his work cut out ... | 2020-05-11 |
| 7783 | s7782 | Movie | Zoom | Peter Hewitt | Tim Allen, Courteney Cox, Chevy Chase, Kate Ma... | United States | January 11, 2020 | PG | 88 min | Children & Family Movies, Comedies | Dragged from civilian life, a former superhero... | 2020-01-11 |
| 7784 | s7783 | Movie | Zozo | Josef Fares | Imad Creidi, Josef Fares, Antoinette Turk, Elias Elias Gergi, Car... | Sweden, Czech Republic, United Kingdom, Denmar... | October 19, 2020 | TV-MA | 99 min | Dramas, International Movies | When Lebanon's Civil War deprives Zozo of his ... | 2020-10-11 |
| 7786 | s7785 | Movie | Zulu Man in Japan | NaN | Nasty C | NaN | September 25, 2020 | TV-MA | 44 min | Documentaries, International Movies, Music & M | In this documentary, South African rapper Nast... | 2020-09-21 |

```
data[ (data['Category'] == 'TV Show') & (data['Country'] == 'India') ]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | |
|------|---------|----------|------------------------------------|-------------|---|---------|-------------------|--------|-----------|---|---|------------|-----|
| 86 | s87 | TV Show | 21 Sarfarosh: Saragarhi 1897 | Nan | Luke Kenny, Mohit Raina, Mukul Dev | India | December 1, 2018 | TV-14 | 1 Season | International TV Shows, TV Dramas | In one of history's greatest last stands, a ba... | 2018-12-01 | 2 |
| 132 | s133 | TV Show | 7 (Seven) | Nizar Shafi | Rahman, Havish, Regina Cassandra, Nandita Swet... | India | July 30, 2019 | TV-14 | 1 Season | TV Shows | Multiple women report their husbands as missin... | 2019-07-30 | 2 |
| 340 | s341 | TV Show | Agent Raghav | Nan | Sharad Kelkar, Aahana Kumra, Mahesh Manjrekar,... | India | April 15, 2017 | TV-14 | 1 Season | Crime TV Shows, International TV Shows, TV Act... | A mix of brilliance, erudition and skill enabl... | 2017-04-15 | 2 |
| 364 | s365 | TV Show | Akbar Birbal | Nan | Kiku Sharda, Vishal Kotian, Delhaaz Irani | India | March 31, 2020 | TV-G | 1 Season | Kids' TV, TV Comedies, TV Dramas | From battles of wit to fights for justice, Emp... | 2020-03-31 | 2 |
| 533 | s534 | TV Show | Anjaan: Rural Myths | Nan | Nan | India | December 15, 2018 | TV-14 | 1 Season | International TV Shows, TV Horror, TV Thrillers | Spine-chilling stories of malevolent spirits u... | 2018-12-15 | 2 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 6249 | s6249 | TV Show | The Creative Indians | Nan | Nan | India | August 24, 2020 | TV-MA | 2 Seasons | Docuseries, International TV Shows | From chefs and comedians to filmmakers and fas... | 2020-08-24 | 2 |
| 6400 | s6399 | TV Show | The Golden Years with Javed Akhtar | Nan | Nan | India | June 1, 2017 | TV-G | 1 Season | Docuseries, International TV Shows | Writer, poet and lyricist Javed Akhtar hosts t... | 2017-06-01 | 2 |
| 6469 | s6468 | TV Show | The House That Made Me | Nan | Vinay Pathak | India | March 31, 2017 | TV-PG | 3 Seasons | International TV Shows, Reality TV | With host Vinay Pathak, Indian celebrities | 2017-03-31 | 2 |

SHOW ALL THE RECORDS WHERE CATEGORY IS MOVIES AND TYPE IS COMIDIES OR COUNTRY IS UNITED **KINDOM** bold text

data.head()

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|---|---------|----------|-------|-------------------|---|-----------|-------------------|--------|-----------|---|---|------------|--------|
| 0 | s1 | TV Show | 3% | Nan | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico Cit... | 2016-12-23 | 2016.0 |
| 2 | s3 | Movie | 23:59 | Gilbert Chan | Tedd Chan, Stella Chung, Henley Hii, Lawrence ... | Singapore | December 20, 2018 | R | 78 min | Horror Movies, International Movies | When an army recruit is found dead, his fellow... | 2018-12-20 | 2018.0 |

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```
data[(data['Category']=='Movie') & (data['Type']=='Comedies')]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|------|---------|----------|-----------------------------|------------------------|---|----------------------|-------------------|--------|----------|----------|---|------------|------|
| 33 | s34 | Movie | #realityhigh | Fernando Lebrija | Nesta Cooper, Kate Walsh, John Michael Higgins... | United States | September 8, 2017 | TV-14 | 99 min | Comedies | When nerdy high schooler Dani finally attracts... | 2017-09-08 | 2017 |
| 72 | s73 | Movie | 17 Again | Burr Steers | Zac Efron, Leslie Mann, Matthew Perry, Thomas ... | United States | January 1, 2021 | PG-13 | 102 min | Comedies | Nearing a midlife crisis, thirty-something Mik... | 2021-01-01 | 2021 |
| 84 | s85 | Movie | 21 & Over | Jon Lucas, Scott Moore | Miles Teller, Skylar Astin, Justin Chon, Sarah... | United States | April 16, 2019 | R | 93 min | Comedies | Jeff's straight-and-narrow life changes abrupt... | 2019-04-16 | 2019 |
| 148 | s149 | Movie | A Bad Moms Christmas | Jon Lucas, Scott Moore | Mila Kunis, Kristen Bell, Kathryn Hahn, Susan ... | United States, China | February 14, 2020 | R | 104 min | Comedies | Stressed-out moms Amy, Carla and Kiki are back... | 2020-02-14 | 2020 |
| 174 | s175 | Movie | A Futile and Stupid Gesture | David Wain | Will Forte, Domhnall Gleeson, Martin Mull, Joe... | United States | January 26, 2018 | TV-MA | 102 min | Comedies | In a brief life full of triumph and failure, "... | 2018-01-26 | 2018 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7341 | s7340 | Movie | Undercover Brother 2 | Leslie Small | Michael Jai White, Vince Swann, Barry Bostwick... | United States | November 5, 2019 | R | 85 min | Comedies | When a beloved secret agent falls deep into a ... | 2019-11-05 | 2019 |
| 7590 | s7589 | Movie | Where's the Money | Scott Zabielski | Andrew Bachelor, Kat Graham, Mike Epps, Terry ... | United States | January 22, 2018 | R | 86 min | Comedies | Hunting for a stash of stolen money, a sharp-w... | 2018-01-22 | 2018 |

```
data[(data['Category']=='Movie') & (data['Type']=='Comedies') & (data['Country'] == 'United Kingdom')]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N |
|------|---------|----------|------------------------|------------------|---|----------------|-------------------|--------|----------|---|---|------------|
| 19 | s20 | Movie | '89 | NaN | Lee Dixon, Ian Wright, Paul Merson | United Kingdom | May 16, 2018 | TV-PG | 87 min | Sports Movies | Mixing old footage with interviews, this is th... | 2018-05-16 |
| 33 | s34 | Movie | #realityhigh | Fernando Lebríja | Nesta Cooper, Kate Walsh, John Michael Higgins... | United States | September 8, 2017 | TV-14 | 99 min | Comedies | When nerdy high schooler Dani finally attracts... | 2017-09-08 |
| 58 | s59 | TV Show | 100% Hotter | NaN | Daniel Palmer, Melissa Sophia, Karen Williams... | United Kingdom | November 1, 2019 | TV-14 | 1 Season | British TV Shows, International TV Shows, Real... | A stylist, a hair designer and a makeup artist... | 2019-11-01 |
| 72 | s73 | Movie | 17 Again | Burr Steers | Zac Efron, Leslie Mann, Matthew Perry, Thomas ... | United States | January 1, 2021 | PG-13 | 102 min | Comedies | Nearing a midlife crisis, thirty-something Mik... | 2021-01-01 |
| 82 | s83 | Movie | 2036 Origin Unknown | Hasraf Dulull | Katee Sackhoff, Ray Fearon, Julie Cox, Steven ... | United Kingdom | December 20, 2018 | TV-14 | 95 min | Sci-Fi & Fantasy | Working with an artificial intelligence to inv... | 2018-12-20 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7670 | s7669 | TV Show | World War II in Colour | NaN | Robert Powell | United Kingdom | August 1, 2017 | TV-MA | 1 Season | British TV Shows, Docuseries, International TV... | Footage of the most dramatic moments from Worl... | 2017-08-01 |
| 7671 | s7670 | TV Show | World's Busiest Cities | NaN | Anita Rani, Ade Adepitan, Dan Snow | United Kingdom | February 1, 2019 | TV-PG | 1 Season | British TV Shows, Docuseries | From Moscow to Mexico City, three BBC journali... | 2019-02-01 |
| 7688 | s7687 | Movie | XV: Beyond the Tryline | Pierre Deschamps | NaN | United Kingdom | March 18, 2020 | TV-14 | 91 min | Documentaries, Sports Movies | Set against the 2015 Rugby World Cup, this doc... | 2020-03-18 |

1 / 17

SHOW TOP 10 DIRECTORS, WHO GAVE THE HIGHEST NUMBER OF MOVIES AND TV SHOWS TO NETFLIX?

```
data['Director'].value_counts()
```



count

Director

| | |
|------------------------|-----|
| Raúl Campos, Jan Suter | 18 |
| Marcus Raboy | 16 |
| Jay Karas | 14 |
| Cathy Garcia-Molina | 13 |
| Jay Chapman | 12 |
| ... | ... |
| Vibhu Virender Puri | 1 |
| Lucien Jean-Baptiste | 1 |
| Jason Krawczyk | 1 |
| Quinn Lasher | 1 |
| Sam Dunn | 1 |

4050 rows × 1 columns

dtype: int64

data['Director'].value_counts().head(10)



count

Director

| | |
|------------------------|----|
| Raúl Campos, Jan Suter | 18 |
| Marcus Raboy | 16 |
| Jay Karas | 14 |
| Cathy Garcia-Molina | 13 |
| Jay Chapman | 12 |
| Youssef Chahine | 12 |
| Martin Scorsese | 12 |
| Steven Spielberg | 10 |
| David Dhawan | 9 |
| Hakan Algül | 8 |

dtype: int64

- in how many movies /shows ,tom cruise was cast

data[data['Cast']=='Tom cruise']



Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year



STR.CONTAINS()

data['Cast']=='Tom Cruise'

Cast

```
0    False
1    False
2    False
3    False
4    False
...
7784  False
7785  False
7786  False
7787  False
7788  False
```

7787 rows × 1 columns

dtype: bool

data_new = data.dropna()

data_new.head(3)

Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year

| | | | | | | | | | | | | | |
|---|----|-------|-------|-------------------|--|--------|-------------------|-------|--------|----------------------|--|------------|--------|
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, Oscar Serrano, ... Tedd Chan, Stella Gilbert | Mexico | December 23, 2016 | TV-MA | 93 min | International Movies | Dramas, After a devastating earthquake hits Mexico City... | 2016-12-23 | 2016.0 |
|---|----|-------|-------|-------------------|--|--------|-------------------|-------|--------|----------------------|--|------------|--------|

data_new[data_new['Cast'].str.contains('Tom Cruise')]

Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year

| | | | | | | | | | | | | | |
|------|-------|-------|----------|----------------------|--|---------------|-----------------|---|---------|--------------------|---|------------|--------|
| 3860 | s3861 | Movie | Magnolia | Paul Thomas Anderson | Jeremy Blackman, Tom Cruise, Melinda Dillon, A... Dustin Hoffman, | United States | January 1, 2020 | R | 189 min | Independent Movies | Dramas, Through chance, human action, past history and... | 2020-01-01 | 2020.0 |
|------|-------|-------|----------|----------------------|--|---------------|-----------------|---|---------|--------------------|---|------------|--------|

WHAT ARE THE DIFFERENT RATINGS DEFINED BY NETFLIX ?

data.head(2)

Show_Id Category Title Director Cast Country Release_Date Rating Duration Type Description Date_N Year

| | | | | | | | | | | | | | |
|---|----|---------|----|-----|---|--------|-----------------|-------|-----------|---|---|------------|--------|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 |
|---|----|---------|----|-----|---|--------|-----------------|-------|-----------|---|---|------------|--------|

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

```
data['Rating'].unique()
```

→ 14

```
data['Rating'].unique()
```

```
→ array(['TV-MA', 'R', 'PG-13', 'TV-14', 'TV-PG', 'NR', 'TV-G', 'TV-Y', nan,
       'TV-Y7', 'PG', 'G', 'NC-17', 'TV-Y7-FV', 'UR'], dtype=object)
```

How many movies got the TV-14 rating in Canada

```
data[(data['Category']=='Movie')&(data['Rating']=='TV-14')]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N |
|------|---------|----------|--------------------------|-------------------|---|----------|--------------------|--------|----------|--|---|------------|
| 8 | s9 | Movie | 706 | Shravan Kumar | Divya Dutta, Atul Kulkarni, Mohan Agashe, Anup... | India | April 1, 2019 | TV-14 | 118 min | Horror Movies, International Movies | When a doctor goes missing, his psychiatrist w... | 2019-04-01 |
| 15 | s16 | Movie | Oct-01 | Kunle Afolayan | Sadiq Daba, David Ojile, Kayode Olaiya, Kehin... | Nigeria | September 1, 2019 | TV-14 | 149 min | Dramas, International Movies, Thrillers | Against the backdrop of Nigeria's looming inde... | 2019-09-01 |
| 18 | s19 | Movie | 15-Aug | Swapnaeel Jayakar | Rahul Pethe, Mrunmayee Deshpande, Adinath Koth... | India | March 29, 2019 | TV-14 | 124 min | Comedies, Dramas, Independent Movies | On India's Independence Day, a zany mishap in ... | 2019-03-29 |
| 20 | s21 | Movie | Kuch Bheege Alfaaz | Onir | Geetanjali Thapa, Zain Khan Durrani, Shray Rai... | India | September 1, 2018 | TV-14 | 110 min | Dramas, Independent Movies, International Movies | After accidentally connecting over the Interne... | 2018-09-01 |
| 21 | s22 | Movie | Goli Soda 2 | Vijay Milton | Samuthirakani, Bharath Seeni, Vinoth, Esakki B... | India | September 15, 2018 | TV-14 | 128 min | Action & Adventure, Dramas, International Movies | A taxi driver, a gangster and an athlete strug... | 2018-09-15 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 7765 | s7764 | Movie | Zenda | Avadhoot Gupte | Santosh Juvekar, Siddharth Chandekar, Sachit P... | India | February 15, 2018 | TV-14 | 120 min | Dramas, International Movies | A change in the leadership of a political part... | 2018-02-15 |
| 7766 | s7765 | Movie | Zero | Aanand Rai | Shah Rukh Khan, Anushka Sharma, Katrina Kaif, ... | India | May 21, 2019 | TV-14 | 159 min | Comedies, Dramas, International Movies | Through his relationships with two wildly diff... | 2019-05-21 |
| 7770 | s7769 | Movie | Zindagi Kitni Haseen Hay | Anjum Shahzad | Feroze Khan, Sajal Ali, Jibrayl Ahmed Rajput, ... | Pakistan | October 1, 2018 | TV-14 | 126 min | Dramas, International Movies, Romantic Movies | Two young parents struggle to keep their marri... | 2018-10-01 |
| 7771 | s7770 | Movie | Zindagi Na Milegi Dobara | Zoya Akhtar | Hrithik Roshan, Abhay Deol, Farhan Akhtar, Kat... | India | December 15, 2019 | TV-14 | 154 min | Comedies, Dramas, International Movies | Three friends on an adventurous road trip/bach... | 2019-12-15 |
| | | | | | | | | | | Dramas, | A scrappy but | |

```
data[(data['Category']=='Movie')&(data['Rating']=='TV-14')].shape
```

→ (1272, 13)

```
data[(data['Category']=='Movie')&(data['Rating']=='TV-14')& (data['Country']=='Canada')]
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description |
|------|---------|----------|---|--|---|---------|-------------------|--------|----------|---|---|
| 30 | s31 | Movie | #cats_the_mewvie | Michael Margolis | NaN | Canada | February 5, 2020 | TV-14 | 90 min | Documentaries, International Movies | This pawesome documentary explores how our fel... |
| 34 | s35 | Movie | #Roxy | Michael Kennedy | Jake Short, Sarah Fisher, Booboo Stewart, Dann... | Canada | April 10, 2019 | TV-14 | 105 min | Comedies, Romantic Movies | A teenage hacker with a huge nose helps a cool... |
| 608 | s609 | Movie | At First Light | Jason Stone | Stefanie Scott, Theodore Pellerin, Percy Hynes... | Canada | December 27, 2018 | TV-14 | 91 min | Dramas, Sci-Fi & Fantasy | After mysterious lights imbue her with extra... |
| 1506 | s1507 | Movie | Counterfeiting in Suburbia | Jason Bourque | Sarah Butler, Larissa Albuquerque, Kayla Walla... | Canada | July 1, 2018 | TV-14 | 88 min | Dramas, Thrillers | Two teenagers print counterfeit money in their... |
| 3713 | s3714 | Movie | Long Time Running | Jennifer Baichwal, Nicholas de Pencier | Gord Downie, Paul Langlois, Gord Sinclair, Rob... | Canada | November 12, 2017 | TV-14 | 96 min | Documentaries, International Movies, Music & M... | This documentary follows the 2016 tour of belo... |
| 3956 | s3957 | Movie | Martin Matte: La vie, la mort...eh la la..! | Jean-François Blais | Martin Matte | Canada | October 14, 2019 | TV-14 | 62 min | Stand-Up Comedy | Quebecois comedy star Martin Matte serves up e... |
| 5336 | s5336 | Movie | Sadies Last Days on Earth | Michael Seater | Morgan Taylor Campbell, Clark Backo, Ricardo H... | Canada | August 22, 2017 | TV-14 | 94 min | Comedies, Sci-Fi & Fantasy | High schooler Sadie Mitchell believes the worl... |
| 5393 | s5393 | Movie | Sardaar ji | Rohit Jugraj | Diljit Dosanjh, Neeru Bajwa, Mandy Takhar, Jas... | Canada | December 1, 2017 | TV-14 | 140 min | Comedies, International Movies, Music & Musicals | When a palatial wedding venue turns out to be ... |
| 6062 | s6062 | Movie | The Accountant of Auschwitz | Matthew Shoychet | NaN | Canada | July 1, 2019 | TV-14 | 78 min | Documentaries, International Movies | Decades after WWII, a former SS officer stands... |
| 7025 | s7024 | Movie | The Wrong Babysitter | George Mendeluk | Daphne Zuniga, Sean Gallagher, Lisa Marie Car... | Canada | June 18, 2019 | TV-14 | 89 min | Thrillers | A widow searches for her missing teenage daugh... |

```
data[(data['Category']=='Movie')&(data['Rating']=='TV-14')& (data['Country']=='Canada')].shape
```

>Show (11, 13)

How many tv shows got the R rating after year 2018?

```
data[(data['Category']=='TV Show')&(data['Rating']=='R')& (data['Year']>=2018)].shape
```

Show (1, 13)

```
data[(data['Category']=='TV Show')&(data['Rating']=='R')& (data['Year']>=2018)]
```

| Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|---------|----------|---------|--------------------------------------|-------------------------|---------|----------------|--------|----------|----------|-----------------------------------|------------|--------|
| 6437 | s6436 | TV Show | The Hateful Eight: Quentin Tarantino | Samuel L. Jackson, Kurt | NaN | April 25, 2019 | R | 1 Season | TV Shows | Trapped at a stagecoach stop as a | 2019-04-25 | 2019.0 |

What is the maximum duration of a movie /show on netflix?

```
data['Duration'].max()
```

'99 min'

```
data.head(2)
```

| Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year | |
|---------|----------|---------|----------|------|---|--------------|-----------------|----------|-----------|---|---|------------|--------|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 |

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

```
data.Duration.unique()
```

```
array(['4 Seasons', '93 min', '78 min', '80 min', '123 min', '1 Season', '95 min', '119 min', '118 min', '143 min', '103 min', '89 min', '91 min', '149 min', '144 min', '124 min', '87 min', '110 min', '128 min', '117 min', '100 min', '2 Seasons', '84 min', '99 min', '90 min', '102 min', '104 min', '105 min', '56 min', '125 min', '81 min', '97 min', '106 min', '107 min', '109 min', '44 min', '75 min', '101 min', '3 Seasons', '37 min', '113 min', '114 min', '130 min', '94 min', '140 min', '135 min', '82 min', '70 min', '121 min', '92 min', '164 min', '53 min', '83 min', '116 min', '86 min', '120 min', '96 min', '126 min', '129 min', '77 min', '137 min', '148 min', '28 min', '122 min', '176 min', '85 min', '22 min', '68 min', '111 min', '29 min', '142 min', '168 min', '21 min', '59 min', '20 min', '98 min', '108 min', '76 min', '26 min', '156 min', '30 min', '57 min', '150 min', '133 min', '115 min', '154 min', '127 min', '146 min', '136 min', '88 min', '131 min', '24 min', '112 min', '74 min', '63 min', '38 min', '25 min', '174 min', '60 min', '153 min', '158 min', '151 min', '162 min', '54 min', '51 min', '69 min', '64 min', '147 min', '42 min', '79 min', '5 Seasons', '40 min', '45 min', '172 min', '10 min', '163 min', '9 Seasons', '55 min', '72 min', '61 min', '71 min', '160 min', '171 min', '48 min', '139 min', '157 min', '15 min', '65 min', '134 min', '161 min', '62 min', '8 Seasons', '186 min', '49 min', '73 min', '58 min', '165 min', '166 min', '138 min', '159 min', '141 min', '132 min', '52 min', '67 min', '34 min', '66 min', '312 min', '180 min', '47 min', '6 Seasons', '155 min', '14 min', '177 min', '11 min', '9 min', '46 min', '145 min', '11 Seasons', '7 Seasons', '13 Seasons', '8 min', '12 min', '12 Seasons', '10 Seasons', '43 min', '50 min', '23 min', '185 min', '200 min', '169 min', '27 min', '170 min', '196 min', '33 min', '181 min', '204 min', '32 min', '35 min', '167 min', '16 Seasons', '179 min', '193 min', '13 min', '214 min', '17 min', '173 min', '192 min', '209 min', '187 min', '41 min', '182 min', '224 min', '233 min', '189 min', '152 min', '19 min', '15 Seasons', '208 min', '237 min', '31 min', '178 min', '230 min', '194 min', '228 min', '195 min', '3 min', '16 min', '5 min', '18 min', '205 min', '190 min', '36 min', '201 min', '253 min', '203 min', '191 min'], dtype=object)
```

```
data.Duration.dtypes
```

dtype('O')

```
data[['Minutes','Unit']] = data['Duration'].str.split(' ', expand=True)
```

data.head(2)

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year | M: |
|---|---------|----------|-------|-------------------|---|---------|-------------------|--------|-----------|---|---|------------|--------|----|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 | |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico | 2016-12-23 | 2016.0 | |

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

data.Minutes.max()

'99'

data.Minutes.min()

'1'

#data['Minutes'].mean()

▼ Which individual country has the highest no of tv shows?

data['Country'].groupby(data['Category']).nunique()

Country

| Category | |
|----------|-----|
| Movie | 590 |
| TV Show | 183 |

dtypes: int64

data.head(2)

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year | M: |
|---|---------|----------|-------|-------------------|---|---------|-------------------|--------|-----------|---|---|------------|--------|----|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 | |
| 1 | s2 | Movie | 07:19 | Jorge Michel Grau | Demián Bichir, Héctor Bonilla, | Mexico | December 23, 2016 | TV-MA | 93 min | Dramas, International Movies | After a devastating earthquake hits Mexico | 2016-12-23 | 2016.0 | |

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

data_tvshow=data[data['Category']=='TV Show']

data_tvshow.head(2)

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year | M |
|---|---------|----------|-------|-------------|---|---------|-----------------|--------|-----------|---|---|------------|--------|---|
| 0 | s1 | TV Show | 3% | NaN | João Miguel, Bianca Comparato, Michel Gomes, R... | Brazil | August 14, 2020 | TV-MA | 4 Seasons | International TV Shows, TV Dramas, TV Sci-Fi &... | In a future where the elite inhabit an island ... | 2020-08-14 | 2020.0 | |
| 5 | s6 | TV Show | 46 | Serdar Akar | Erdal Beşikçioğlu, Yasemin Allen, Melis | Turkey | July 1, 2017 | TV-MA | 1 Season | International TV Shows, TV Dramas, TV Mysteries | A genetics professor experiments with a | 2017-07-01 | 2017.0 | |

Next steps: [Generate code with data_tvshow](#) [View recommended plots](#) [New interactive sheet](#)

```
data_tvshow.Country.value_counts().head(1)
```

| | count |
|----------------------|-------|
| Country | |
| United States | 705 |
| dtvobj: int64 | |

Q.12 . How we can sort the dataset by year ?

```
data.sort_values(by='Year', ascending=True).head(10)
```

| | Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|------|---------|----------|------------------------------|-------------------------------|---|---------------|--------------------|--------|----------|---|---|------------|------|
| 7115 | s7114 | Movie | To and From New York | Sorin Dan Mihalcescu | Barbara King, Shaana Diya, John Krisiukenas, Y... | United States | January 1, 2008 | TV-MA | 81 min | Dramas, Independent Movies, Thrillers | While covering a story in New York City, a Sea... | 2008-01-01 | 2008 |
| 1765 | s1766 | TV Show | Dinner for Five | NaN | NaN | United States | February 4, 2008 | TV-MA | 1 Season | Stand-Up Comedy & Talk Shows | In each episode, four celebrities join host Jo... | 2008-02-04 | 2008 |
| 3248 | s3249 | Movie | Just Another Love Story | Ole Bornedal | Anders W. Berthelsen, Rebecka Hemse, Nikolaj L... | Denmark | May 5, 2009 | TV-MA | 104 min | Dramas, International Movies | When he causes a car accident that leaves a yo... | 2009-05-05 | 2009 |
| 5766 | s5766 | Movie | Splatter | Joe Dante | Corey Feldman, Tony Todd, Tara Leigh, Erin Way... | United States | November 18, 2009 | TV-MA | 29 min | Horror Movies | After committing suicide, a washed-up rocker r... | 2009-11-18 | 2009 |
| 3840 | s3841 | Movie | Mad Ron's Previews from Hell | Jim Monaco | Nick Pawlow, Jordu Schell, Jay Kushwara, Micha... | United States | November 1, 2010 | NR | 84 min | Cult Movies, Horror Movies | This collection cherry-picks trailers, forgott... | 2010-11-01 | 2010 |
| 232 | s233 | Movie | A Stoning in Fulham County | Larry Elkann | Ken Olin, Jill Eikenberry, Maureen Mueller, Gr... | United States | October 1, 2011 | TV-14 | 95 min | Dramas | After reckless teens kill an Amish child, a pr... | 2011-10-01 | 2011 |
| 2962 | s2963 | Movie | In Defense of a Married Man | Joel Oliansky | Judith Light, Michael Ontkean, Jerry Orbach, P... | United States | October 1, 2011 | TV-14 | 94 min | Dramas | A lawyer's husband is having an affair. When h... | 2011-10-01 | 2011 |
| 7416 | s7415 | Movie | Victim of Beauty | Roger Young | William Devane, Jeri Ryan, Michele Abrams, Nic... | United States | October 1, 2011 | TV-14 | 93 min | Dramas, Thrillers | A beauty pageant winner is stalked by a serial... | 2011-10-01 | 2011 |
| 7151 | s7150 | Movie | Too Young the Hero | Buzz Kulik | Ricky Schroder, Jon DeVries, Debra Mooney, Mar... | United States | October 1, 2011 | TV-MA | 94 min | Dramas | Twelve-year-old Calvin manages to join the nav... | 2011-10-01 | 2011 |
| 3221 | s3222 | Movie | Joseph: King of Dreams | Rob LaDuka, Robert C. Ramirez | Ben Affleck, Mark Hamill, Richard Herd, Mauree... | United States | September 27, 2011 | TV-PG | 75 min | Children & Family Movies, Dramas, Faith & Spir... | With his gift of dream interpretation and his ... | 2011-09-27 | 2011 |

Find the all instances where category is 'movies' and type is 'dramas' or category is 'tv shows' and type is 'kids tv'

```
data[(data['Category']=='Movie')&(data['Type']=='Dramas')|(data['Category']=='TV Show')&(data['Type']=="Kids' TV")]
```

| Show_Id | Category | Title | Director | Cast | Country | Release_Date | Rating | Duration | Type | Description | Date_N | Year |
|---------|----------|-------|----------|------|---------|--------------|--------|----------|------|-------------|--------|------|
| .lim | | | | | | | | | | | | |