

In [292]:

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

In [293]:

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

In [294]:

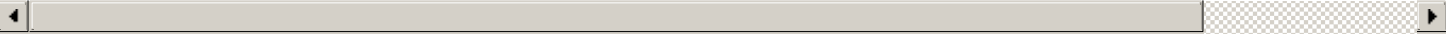
```
#Movies DataFrame
mves=df[(df.type=='Movie')]
mves
```

Out[294]:

	show_id	type		title	director	cast	country	date_added	release_year	rating	duration	lis
0	s1	Movie		Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documen
6	s7	Movie		My Little Pony: A New Generation	Robert Cullen, José Luis Ucha	Vanessa Hudgens, Kimiko Glenn, James Marsden, ...	NaN	September 24, 2021	2021	PG	91 min	Chick Family M
7	s8	Movie		Sankofa	Haile Gerima	Kofi Ghanaba, Oyafunmike Ogunlano, Alexandra D...	United States, Ghana, Burkina Faso, United Kin...	September 24, 2021	1993	TV-MA	125 min	Dr Indepe M Internat M
9	s10	Movie		The Starling	Theodore Melfi	Melissa McCarthy, Chris O'Dowd, Kevin Kline, T...	United States	September 24, 2021	2021	PG-13	104 min	Com Di
12	s13	Movie		Je Suis Karl	Christian Schwochow	Luna Wedler, Jannis Niewöhner, Milan Peschel, ...	Germany, Czech Republic	September 23, 2021	2021	TV-MA	127 min	Dr Internat M
...	
8803	s8802	Movie		Zinzana	Majid Al Ansari	Ali Suliman, Saleh Bakri, Yasa, Ali Al-Jabri, ...	United Arab Emirates, Jordan	March 9, 2016	2015	TV-MA	96 min	Dr Internat M Th
8804	s8803	Movie		Zodiac	David Fincher	Mark Ruffalo, Jake Gyllenhaal, Robert Downey J...	United States	November 20, 2019	2007	R	158 min	Cult M Dr Th
8806	s8805	Movie		Zombieland	Ruben	Jesse Eisenberg, Woody	United	November	2009	R	88 min	Com

	show_id	type	title	Fleischer director	Harrelson, cast Emma	States country	1, 2019 date_added	release_year	rating	duration	Horror M lis
					Stone, ...						
8807	s8806	Movie	Zoom	Peter Hewitt	Tim Allen, Courteney Cox, Chevy Chase, Kate Ma...	United States	January 11, 2020	2006	PG	88 min	Chick Family M Con
8808	s8807	Movie	Zubaan	Mozez Singh	Vicky Kaushal, Sarah-Jane Dias, Raaghav Chanan...	India	March 2, 2019	2015	TV-14	111 min	Dr Internat Movies, & Mu

6131 rows x 12 columns



In [295]:

```
#Shows DataFrame
Shows=df[(df.type=='TV Show')]
```

In [296]:

```
mves["date_added"] = pd.to_datetime(mves["date_added"])

C:\Users\venne\AppData\Local\Temp\ipykernel_11304\2343201360.py:1: SettingWithCopyWarning
:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_g
uide/indexing.html#returning-a-view-versus-a-copy
    mves["date_added"] = pd.to_datetime(mves["date_added"])
```

In [297]:

```
Shows["date_added"] = pd.to_datetime(Shows["date_added"])

C:\Users\venne\AppData\Local\Temp\ipykernel_11304\3903848167.py:1: SettingWithCopyWarning
:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_g
uide/indexing.html#returning-a-view-versus-a-copy
    Shows["date_added"] = pd.to_datetime(Shows["date_added"])
```

In [298]:

```
mves['title'].isnull().values.any()
Shows['title'].isnull().values.any()
```

Out[298]:

False

In [299]:

```
#Total number of movies in Netflix
len(mves['title'])
```

Out[299]:

6131

In [300]:

```
#Total number of TV Shows in Netflix
len(Shows['title'])
```

Out[300]:

2676

In [301]:

```
year_=pd.DataFrame(mves.groupby('release_year').count())
year_=year_.reset_index()
year_
```

Out[301]:

	release_year	show_id	type	title	director	cast	country	date_added	rating	duration	listed_in	description
0	1942	2	2	2	2	1	2	2	2	2	2	2
1	1943	3	3	3	3	0	3	3	3	3	3	3
2	1944	2	2	2	2	1	2	2	2	2	2	2
3	1945	3	3	3	3	1	3	3	3	3	3	3
4	1946	1	1	1	1	1	1	1	1	1	1	1
...
68	2017	767	767	767	748	676	730	767	766	766	767	767
69	2018	767	767	767	737	698	713	767	767	767	767	767
70	2019	633	633	633	598	567	565	633	633	633	633	633
71	2020	517	517	517	495	470	461	517	517	517	517	517
72	2021	277	277	277	252	244	169	277	277	277	277	277

73 rows x 12 columns

In [302]:

```
year_.sort_values(by=['show_id'],ascending=False).head(5)[['release_year','show_id']]
```

Out[302]:

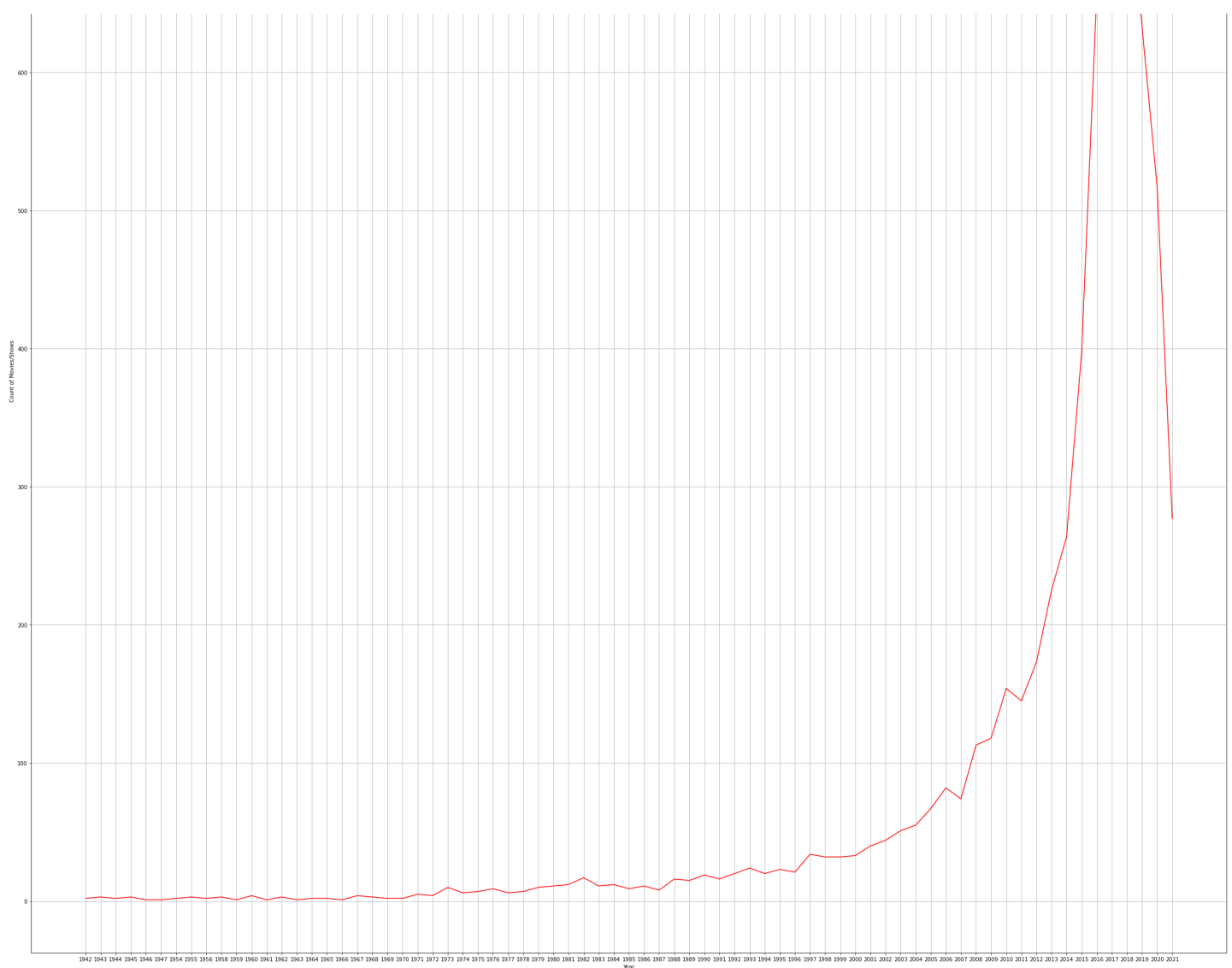
	release_year	show_id
69	2018	767
68	2017	767
67	2016	658
70	2019	633
71	2020	517

In [303]:

```
plt.figure(figsize=(40,40))
plt.title("Number of Movies in resepective years")
plt.xlabel("Year")
plt.ylabel("Count of Movies/Shows")
plt.plot(year_['release_year'],year_['show_id'],'r',label='Movies')
plt.legend()
plt.grid()

plt.show()
```





In [304]:

```
#Latest Films in Netflix
mves=mves.sort_values(by=['release_year','date_added'], ascending=False)
mves[['title','director','release_year']].head(10)
```

Out[304]:

	title	director	release_year
6	My Little Pony: A New Generation	Robert Cullen, José Luis Ucha	2021
9	The Starling	Theodore Melfi	2021
12	Je Suis Karl	Christian Schwochow	2021
13	Confessions of an Invisible Girl	Bruno Garotti	2021
18	Intrusion	Adam Salky	2021
23	Go! Go! Cory Carson: Chrissy Takes the Wheel	Alex Woo, Stanley Moore	2021
30	Ankahi Kahaniya	Ashwiny Iyer Tiwari, Abhishek Chaubey, Saket C...	2021
35	The Father Who Moves Mountains	Daniel Sandu	2021
36	The Stronghold	Cédric Jimenez	2021
45	My Heroes Were Cowboys	Tyler Greco	2021

In [305]:

```
#Movies for which Director Name is missing
mves['director'].value_counts(dropna=False)
```

Out[305]:

NaN

Rajiv Chilaka 19
Raúl Campos, Jan Suter 18
Suhas Kadav 16
Marcus Raboy 15
...
Han Yan 1
Álvaro Longoria, Gerardo Olivares 1
Anthony Byrne 1
Rashida Jones, Alan Hicks 1
Frank Capra 1
Name: director, Length: 4354, dtype: int64

In [306]:

```
mves['director'].value_counts().head(1)
```

Out[306]:

Rajiv Chilaka 19
Name: director, dtype: int64

In [307]:

```
mves['country'].value_counts().head(1)
```

Out[307]:

United States 2057
Name: country, dtype: int64

In [308]:

```
df[df.director=='Rajiv Chilaka']
```

Out[308]:

show_id	type		title	director	cast	country	date_added	release_year	rating	duration	listed_in	descri
406	s407	Movie	Chhota Bheem - Neeli Pahaadi	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2013	TV-Y7	64 min	Children & Family Movies	Thing sp Bheer his bu
407	s408	Movie	Chhota Bheem & Ganesh	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2009	TV-Y7	68 min	Children & Family Movies	Bheer Gar join f to I
408	s409	Movie	Chhota Bheem & Krishna: Mayanagari	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2011	TV-Y7	67 min	Children & Family Movies	Young Krishn falle dema M
409	s410	Movie	Chhota Bheem & Krishna: Pataliputra- City of t...	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2010	TV-Y7	66 min	Children & Family Movies	Kr r Bhe help ruine
410	s411	Movie	Chhota Bheem And The Broken Amulet	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani,	India	July 22, 2021	2013	TV-Y7	64 min	Children & Family Movies	W stra tries to an ai fr

	show_id	type	title	director	Jig cast	country	date_added	release_year	rating	duration	listed_in	descri
411	s412	Movie	Chhota Bheem And The Crown of Valhalla	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2013	TV-Y7	64 min	Children & Family Movies	To sav kingd Va invas
412	s413	Movie	Chhota Bheem and the Incan Adventure	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2013	TV-Y7	65 min	Children & Family Movies	Dholak prince kidnab Bhe
413	s414	Movie	Chhota Bheem and The ShiNobi Secret	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2013	TV-Y7	64 min	Children & Family Movies	learning, sai v under t
414	s415	Movie	Chhota Bheem Aur Hanuman	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2012	TV-Y7	68 min	Children & Family Movies	Whe evil er kidn prince
415	s416	Movie	Chhota Bheem aur Krishna	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	India	July 22, 2021	2009	TV-Y7	68 min	Children & Family Movies	Cent aft en conquer
416	s417	Movie	Chhota Bheem aur Krishna vs Zimbara	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2013	TV-Y7	64 min	Children & Family Movies	A dem darkne ple domi
419	s420	Movie	Chhota Bheem: Bheem vs Aliens	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2010	TV-Y7	69 min	Children & Family Movies, Sports Movies	S inv: kidna Dholak k
420	s421	Movie	Chhota Bheem: Dholakpur to Kathmandu	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2012	TV-Y7	70 min	Children & Family Movies	Bhe holic Nepal unexp
422	s423	Movie	Chhota Bheem: Journey to Petra	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2011	TV-Y7	68 min	Children & Family Movies	The has aw meet a frie
423	s424	Movie	Chhota Bheem: Master of Shaolin	Rajiv Chilaka	Pooja Punabi, Mausam, Julie Tejwani, Rupa	NaN	July 22, 2021	2011	TV-Y7	74 min	Children & Family Movies	Summ by a to recl templ

show_id	type	title	director	Bhim, cast	country	date_added	release_year	rating	duration	listed_in	descri	
424	s425	Movie	Chhota Bheem: The Rise of Kirmada	Rajiv Chilaka	Vatsal Dubey, Julie Tejwani, Rupa Bhimani, Jig...	NaN	July 22, 2021	2012	TV-Y7	68 min	Children & Family Movies	Bheer young Kr team pro
2717	s2718	Movie	Chhota Bheem and the Curse of Damyaan	Rajiv Chilaka	Kaustav Ghosh, Jigna Bhardwaj, Chutki, Rajesh ...	India	April 1, 2020	2012	TV-Y7	87 min	Children & Family Movies	A demon trade freedo imi
6297	s6298	Movie	Bheemayan	Rajiv Chilaka	NaN	NaN	May 10, 2019	2018	TV-Y	63 min	Children & Family Movies	It's D celel Cl Bheer
6645	s6646	Movie	Dragonkala Ka Rahasya	Rajiv Chilaka	NaN	NaN	June 18, 2019	2018	TV-Y	68 min	Children & Family Movies	Bl hel re Dragon aband



In [309]:

```
Ctry=pd.DataFrame(mves.groupby('country').count())
Ctry=Ctry.reset_index()
```

In [310]:

```
#Countries having Maximum number of movies in Netfli
Ctry=Ctry.sort_values(by=['show_id'],ascending=False)
Ctry
```

Out[310]:

	country	show_id	type	title	director	cast	date_added	release_year	rating	duration	listed_in	description
525	United States	2057	2057	2057	1999	1864	2057	2057	2057	2054	2057	2057
218	India	893	893	893	881	878	893	893	893	893	893	893
440	United Kingdom	206	206	206	191	173	206	206	206	206	206	206
50	Canada	122	122	122	116	109	122	122	122	122	122	122
384	Spain	97	97	97	95	85	97	97	97	97	97	97
...
227	India, Mexico	1	1	1	1	1	1	1	1	1	1	1
226	India, Malaysia	1	1	1	1	1	1	1	1	1	1	1
225	India, Japan	1	1	1	1	1	1	1	1	1	1	1
224	India, Iran	1	1	1	1	1	1	1	1	1	1	1
650	Zimbabwe	1	1	1	1	1	1	1	1	1	1	1

651 rows x 12 columns

In [311]:

```
ctry=Ctry.head(10)
```

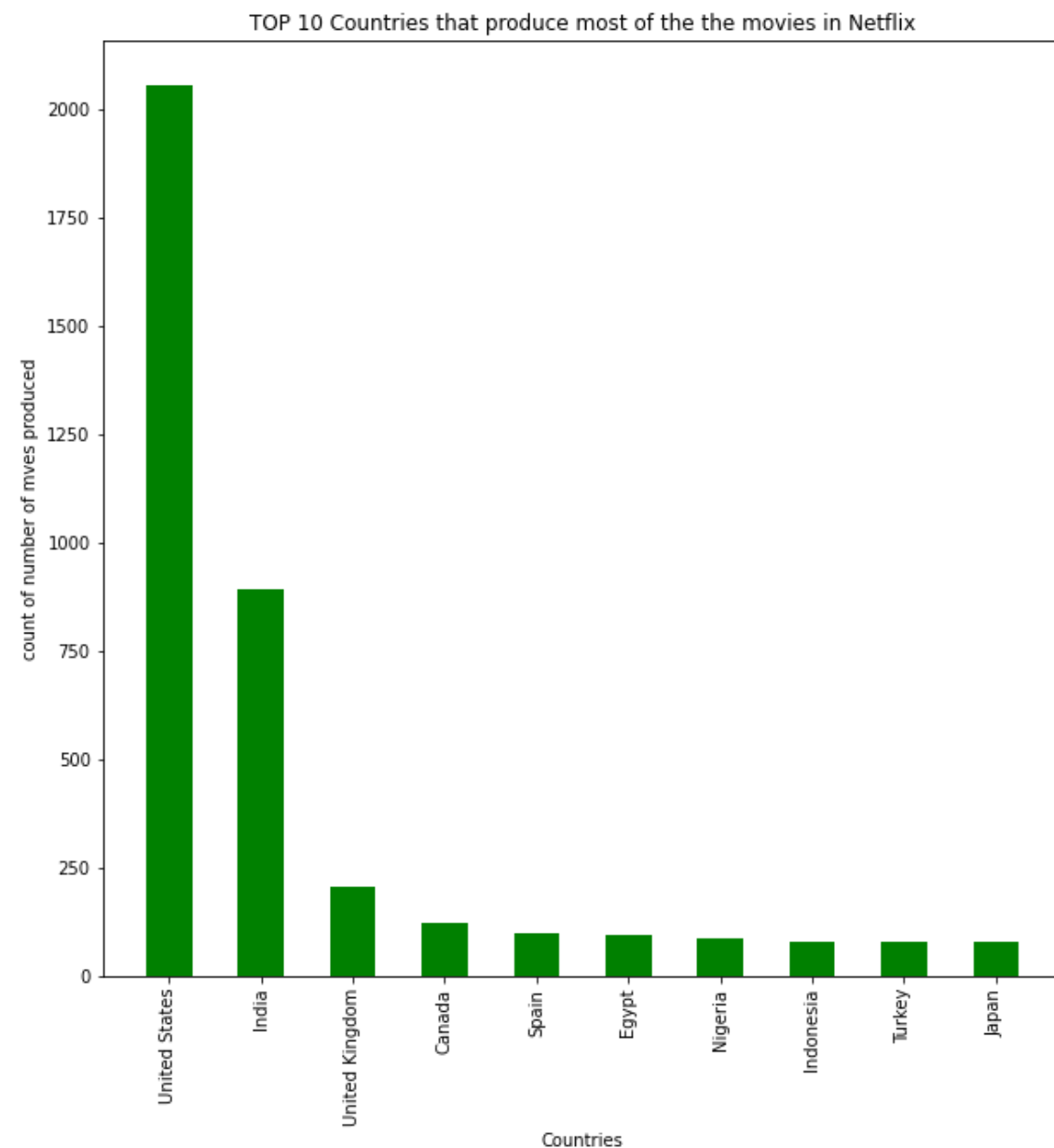
In [312]:

```
plt.figure(figsize=(10,10))
```

```
plt.bar(ctry['country'],ctry['show_id'],width=0.5,color='g', label='count of number of mv
es produced')
plt.title('TOP 10 Countries that produce most of the the movies in Netflix')
plt.xlabel('Countries')
plt.xticks(rotation=90)
plt.ylabel('count of number of mves produced')
```

Out[312]:

Text(0, 0.5, 'count of number of mves produced')



In [313]:

```
mves['cast'].value_counts(dropna=False)
```

Out[313]:

```
NaN
475
Vatsal Dubey, Julie Tejawani, Rupa Bhimani, Jigna Bhardwaj, Rajesh Kava, Mousam, Swapnil
13
Samuel West
10
Jeff Dunham
7
Craig Sechler
6
...
Adam Sandler, Chris Rock, Steve Buscemi, Rachel Dratch, Allison Strong, Roland Buck III,
Katie Hartman, Chloe Himmelman, Jake Lippmann, Jim Barone, June Gable      1
Christina Hendricks, Helen Hunt, Uzo Aduba, Sami Gayle, Jacob Latimore
```


Christina Hendricks, Helen Hunt, Ozoo Aduba, Sami Gayle, Jacob Latimore
1
Michael Gross, Jamie Kennedy, Tanya van Graan, Jamie-Lee Money, Stephanie Schildknecht, Greg Kriek, Jenna Upton, Jay Anstey, Christie Peruso
1
Diego Capusotto, Sofia Gala, Daniel Aráoz, Willy Toledo, El Polaco, Paula Manzone, Yayo G uridi, Guillermo Toledo
1
Henry Fonda, Jane Darwell
1
Name: cast, Length: 5446, dtype: int64

In [314]:

```
Rating=pd.DataFrame(mves.groupby('rating').count())
Rating.reset_index()
```

Out[314]:

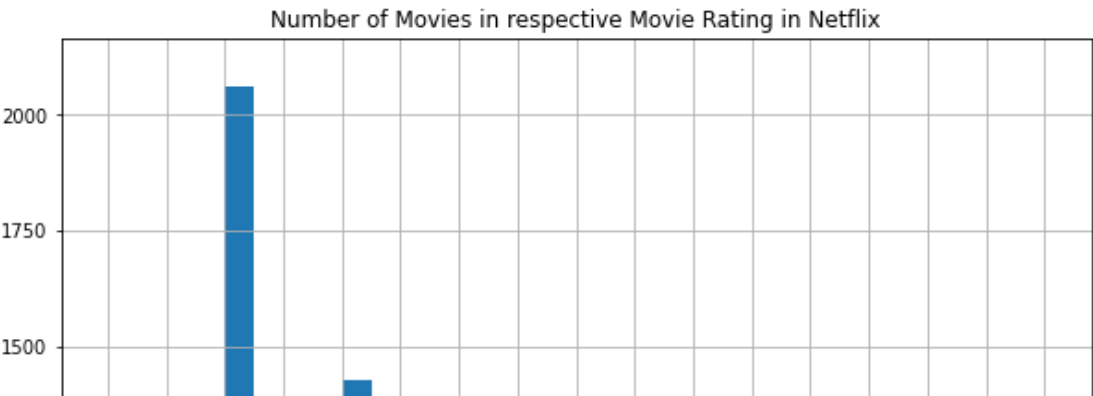
	rating	show_id	type	title	director	cast	country	date_added	release_year	duration	listed_in	description
0	66 min	1	1	1	1	1	1	1	1	0	1	1
1	74 min	1	1	1	1	1	1	1	1	0	1	1
2	84 min	1	1	1	1	1	1	1	1	0	1	1
3	G	41	41	41	41	40	41	41	41	41	41	41
4	NC-17	3	3	3	2	3	3	3	3	3	3	3
5	NR	75	75	75	75	58	75	75	75	75	75	75
6	PG	287	287	287	286	279	281	287	287	287	287	287
7	PG-13	490	490	490	489	477	482	490	490	490	490	490
8	R	797	797	797	794	788	787	797	797	797	797	797
9	TV-14	1427	1427	1427	1393	1298	1307	1427	1427	1427	1427	1427
10	TV-G	126	126	126	114	104	109	126	126	126	126	126
11	TV-MA	2062	2062	2062	1993	1894	1924	2062	2062	2062	2062	2062
12	TV-PG	539	539	539	516	458	503	539	539	539	539	539
13	TV-Y	131	131	131	105	115	84	131	131	131	131	131
14	TV-Y7	139	139	139	123	131	83	139	139	139	139	139
15	TV-Y7-FV	5	5	5	4	3	4	5	5	5	5	5
16	UR	3	3	3	3	3	3	3	3	3	3	3

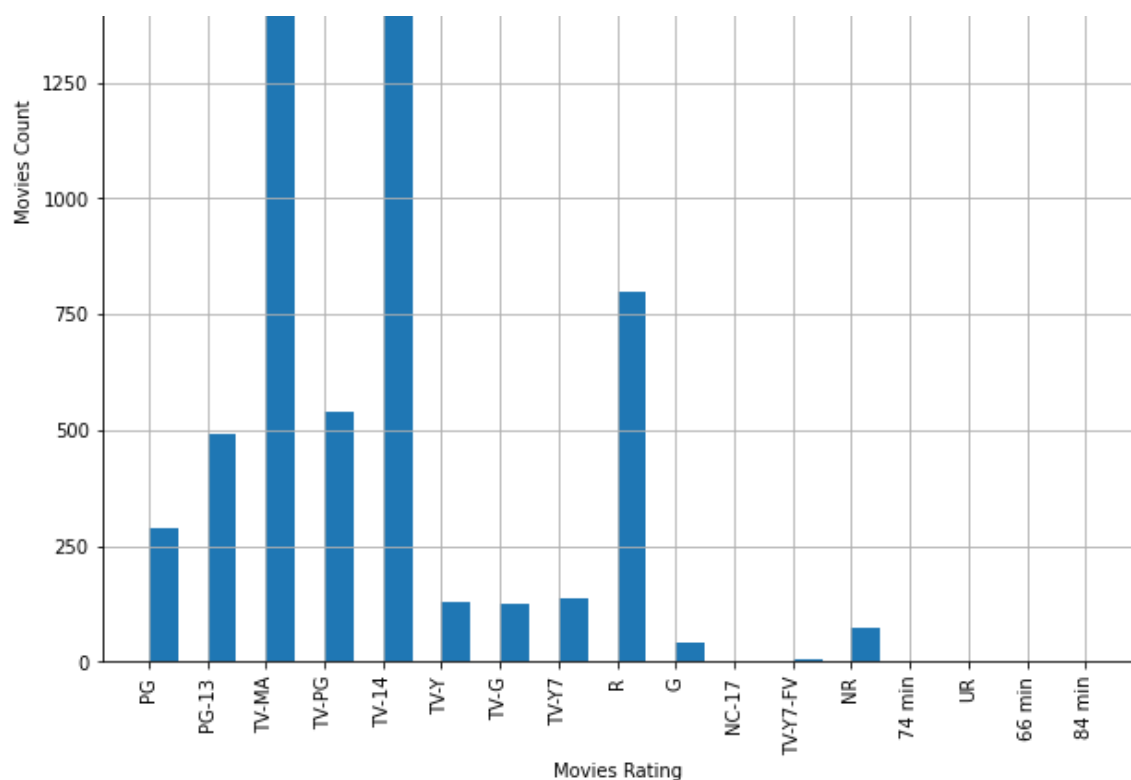
In [315]:

```
plt.figure(figsize=(10,10))
mves['rating'].hist(bins=32)
plt.xlabel('Movies Rating')
plt.ylabel('Movies Count')
plt.xticks(rotation=90)
plt.title('Number of Movies in respective Movie Rating in Netflix')
```

Out[315]:

Text(0.5, 1.0, 'Number of Movies in respective Movie Rating in Netflix')





In [316]:

```
mves['listed_in'].value_counts()
```

Out[316]:

```
Dramas, International Movies          362
Documentaries                        359
Stand-Up Comedy                      334
Comedies, Dramas, International Movies 274
Dramas, Independent Movies, International Movies 252
...
Documentaries, Faith & Spirituality, Music & Musicals 1
Comedies, Independent Movies, Music & Musicals 1
International Movies, Romantic Movies, Sci-Fi & Fantasy 1
Action & Adventure, Romantic Movies, Sci-Fi & Fantasy 1
Horror Movies, LGBTQ Movies, Music & Musicals 1
Name: listed_in, Length: 278, dtype: int64
```

In [317]:

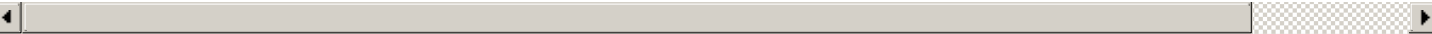
```
#####-----TVShows-----#####
Shows
```

Out[317]:

show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in
1	s2 TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	2021-09-24	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries
2	s3 TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	2021-09-24	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...
3	s4 TV Show	Jailbirds New Orleans	NaN	NaN	NaN	2021-09-24	2021	TV-MA	1 Season	Docuseries, Reality TV

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in
4	s5	TV Show	Kota Factory	NaN	Jitendra Kumar, Ranjan Raj, Alam K...	India	2021-09-24	2021	TV-MA	2 Seasons	TV Shows, Romantic TV Shows, TV ...
5	s6	TV Show	Midnight Mass	Mike Flanagan	Kate Siegel, Zach Gilford, Hamish Linklater, H...	NaN	2021-09-24	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries
...
8797	s8796	TV Show	Yu-Gi-Oh! Arc-V	NaN	Mike Liscio, Emily Bauer, Billy Bob Thompson, ...	Japan, Canada	2018-05-01	2015	TV-Y7	2 Seasons	Anime Series, Kids' TV
8798	s8797	TV Show	Yunus Emre	NaN	Gökhan Atalay, Payidar Tüfekçioğlu, Baran Akbu...	Turkey	2017-01-17	2016	TV-PG	2 Seasons	International TV Shows, TV Dramas
8799	s8798	TV Show	Zak Storm	NaN	Michael Johnston, Jessica Gee-George, Christin...	United States, France, South Korea, Indonesia	2018-09-13	2016	TV-Y7	3 Seasons	Kids' TV
8802	s8801	TV Show	Zindagi Gulzar Hai	NaN	Sanam Saeed, Fawad Khan, Ayesha Omer, Mehreen ...	Pakistan	2016-12-15	2012	TV-PG	1 Season	International TV Shows, Romantic TV Shows, TV ...
8805	s8804	TV Show	Zombie Dumb	NaN	NaN	NaN	2019-07-01	2018	TV-Y7	2 Seasons	Kids' TV, Korean TV Shows, TV Comedies

2676 rows x 12 columns



In [318]:

```
Shows['director'].value_counts(dropna=False)
```

Out[318]:

NaN	2446
Alastair Fothergill	3
Hsu Fu-chun	2
Iginio Straffi	2
Shin Won-ho	2
...	
Juliana Vicente	1
Chang Chin-jung, Chen Rong-hui	1
Thierry Demaizière, Alban Teurlai	1
Manolo Caro	1
Michael Cumming	1
Name: director, Length: 223, dtype: int64	

In [319]:

```
Shows['cast'].value_counts(dropna=False)
```

...

```
Out[319]:
NaN
350
David Attenborough
14
Michela Luci, Jamie Watson, Anna Claire Bartlam, Dante Zee, Eric Peterson
4
Dave Chappelle
3
You, Reina Triendl, Yoshimi Tokui, Azusa Babazono, Ryota Yamasato, Shono Hayama
2

...
```

```
Vir Das, Ranvir Shorey, Manoj Pahwa, Ravi Kishan, Raza Murad, Inaamulhaq, Suhail Nayyar,
Amrita Bagchi
1
Sebastián Rulli, Renata Notni, Roberto Mateos, Irina Baeva, Cassandra Sánchez Navarro, Ma
nuel Balbi, Javier Gómez, Alejandro Ávila, Sofía Castro, Juan Pablo Gil
1
Kenya Barris, Rashida Jones, Iman Benson, Genneya Walton, Scarlet Spencer, Justin Claibor
ne, Ravi Cabot-Conyers
1
Lee Min-ho, Kim Go-eun, Woo Do-hwan, Kim Kyung-nam, Jung Eun-chae, Lee Jung-jin, Kim Youn
g-ok
1
Sanam Saeed, Fawad Khan, Ayesha Omer, Mehreen Raheel, Sheheryar Munawar, Samina Peerzada,
Waseem Abbas, Javed Sheikh, Hina Khawaja Bayat
1
Name: cast, Length: 2284, dtype: int64
```

```
In [320]:
```

```
Shows['country'].value_counts()
```

```
Out[320]:
United States          760
United Kingdom        213
Japan                  169
South Korea            158
India                   79
...
Belarus                1
United Kingdom, Australia 1
France, Australia, Germany 1
Australia, New Zealand, United States 1
United States, France, South Korea, Indonesia 1
Name: country, Length: 196, dtype: int64
```

```
In [321]:
```

```
Rating_1=pd.DataFrame(Shows.groupby('rating').count())
Rating_1.reset_index()
```

```
Out[321]:
```

	rating	show_id	type	title	director	cast	country	date_added	release_year	duration	listed_in	description
0	NR	5	5	5	0	5	5	4	5	5	5	5
1	R	2	2	2	1	2	1	2	2	2	2	2
2	TV-14	733	733	733	64	657	623	730	733	733	733	733
3	TV-G	94	94	94	4	79	81	94	94	94	94	94
4	TV-MA	1145	1145	1145	124	987	1007	1143	1145	1145	1145	1145
5	TV-PG	323	323	323	21	261	269	321	323	323	323	323
6	TV-Y	176	176	176	7	153	143	175	176	176	176	176
7	TV-Y7	195	195	195	9	179	153	194	195	195	195	195
8	TV-Y7-FV	1	1	1	0	1	1	1	1	1	1	1

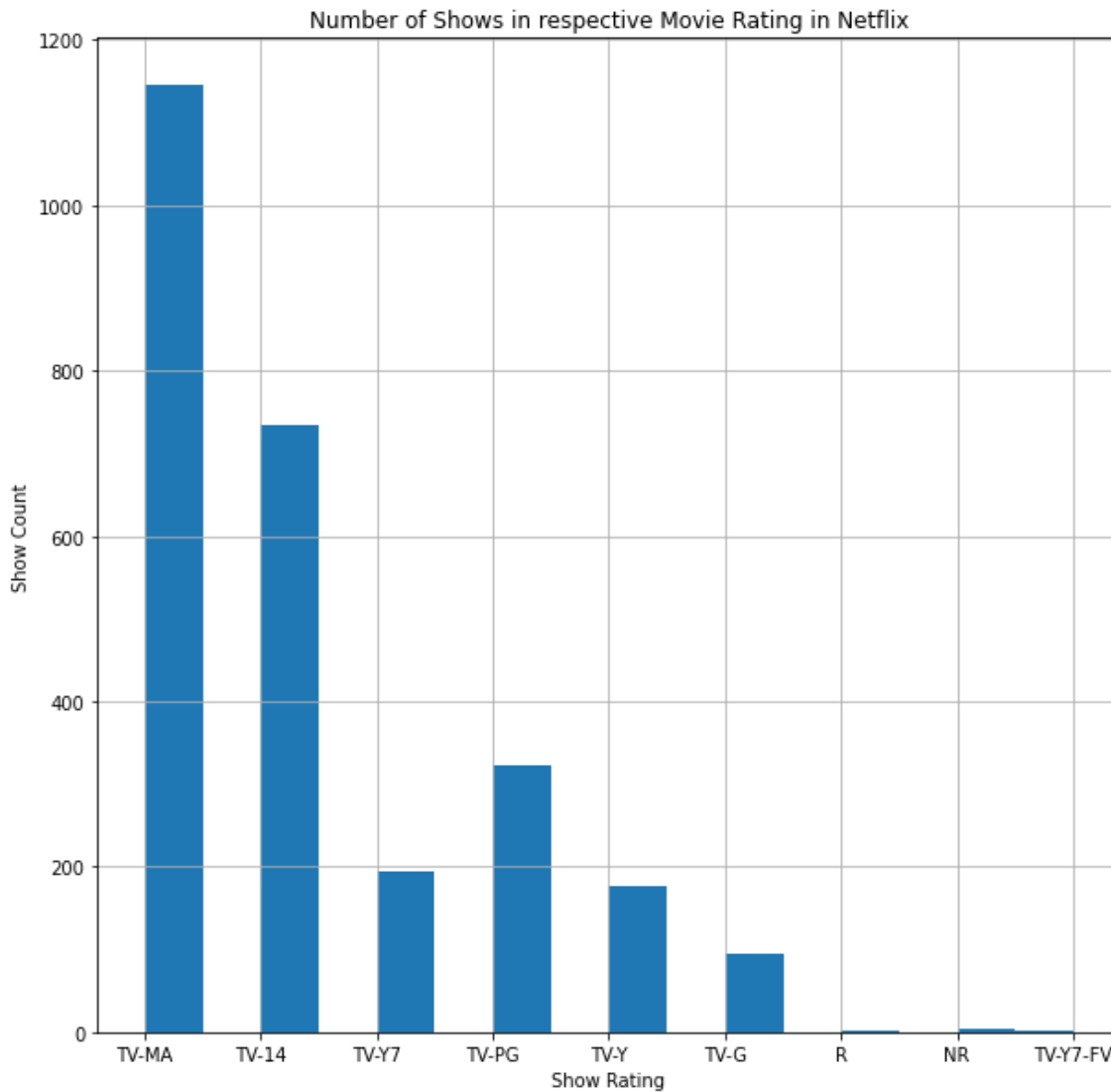
```
In [322]:
```

```
plt.figure(figsize=(10,10))
```

```
Shows['rating'].hist(bins=16)
plt.xlabel('Show Rating')
plt.ylabel('Show Count')
plt.title('Number of Shows in respective Movie Rating in Netflix')
```

Out[322]:

Text(0.5, 1.0, 'Number of Shows in respective Movie Rating in Netflix')



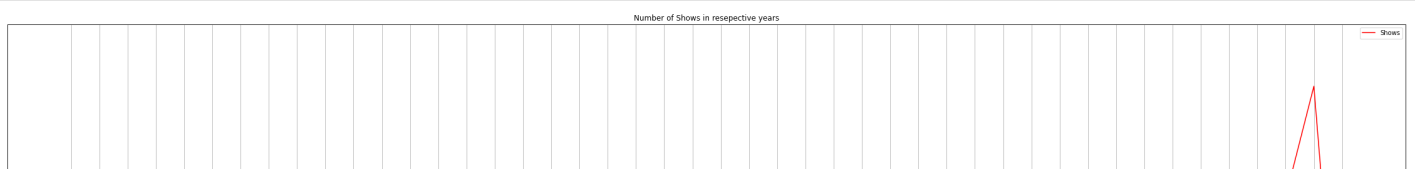
In [323]:

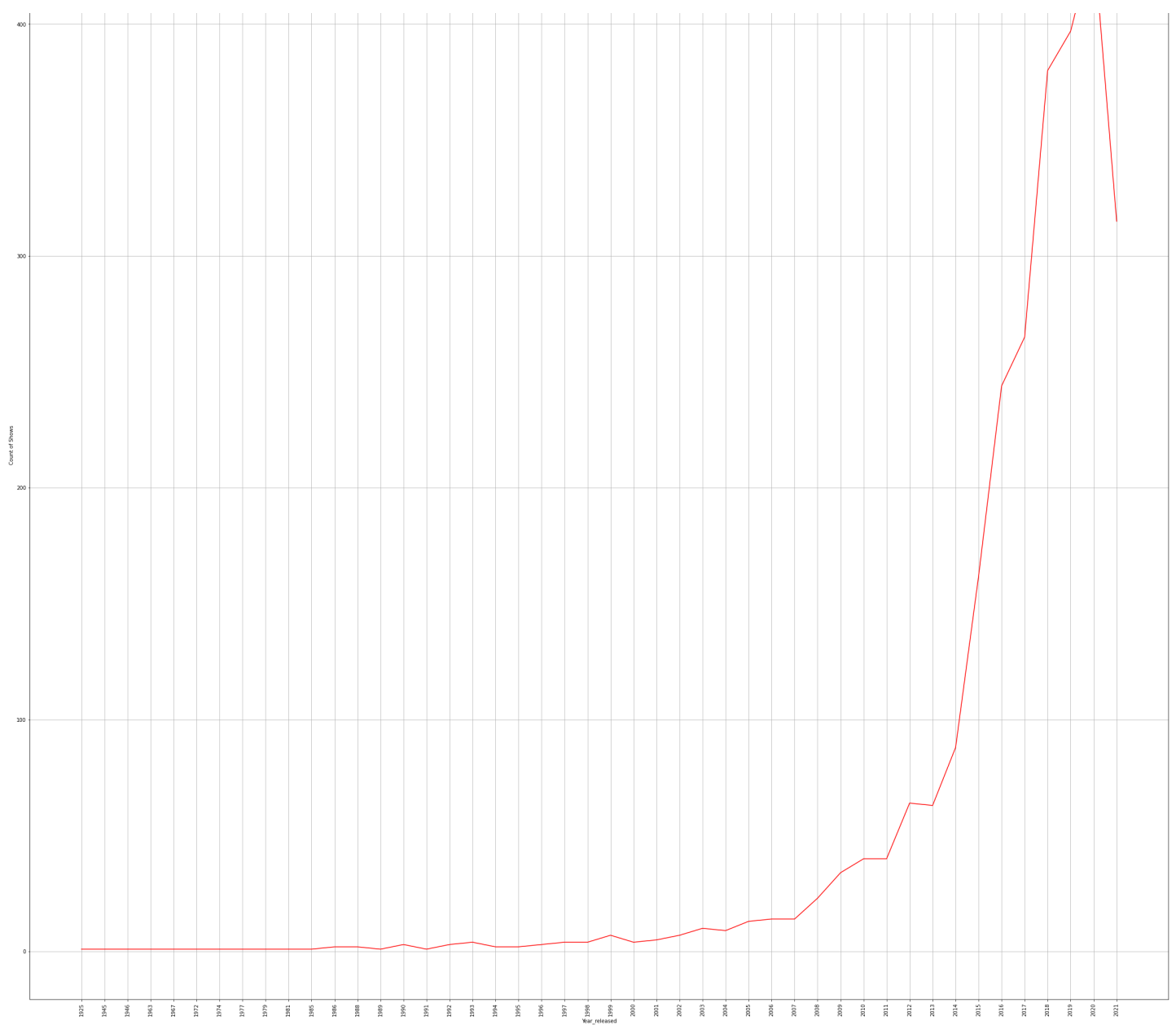
```
year_1=pd.DataFrame(Shows.groupby('release_year').count())
year_1=year_1.reset_index()
```

In []:

In [324]:

```
plt.figure(figsize=(40,40))
plt.title("Number of Shows in reselective years")
plt.xlabel("Year_released")
plt.ylabel("Count of Shows")
plt.plot(year_1['release_year'],year_1['show_id'],'r',label='Shows')
plt.legend()
plt.grid()
plt.xticks(rotation=90)
plt.show()
```

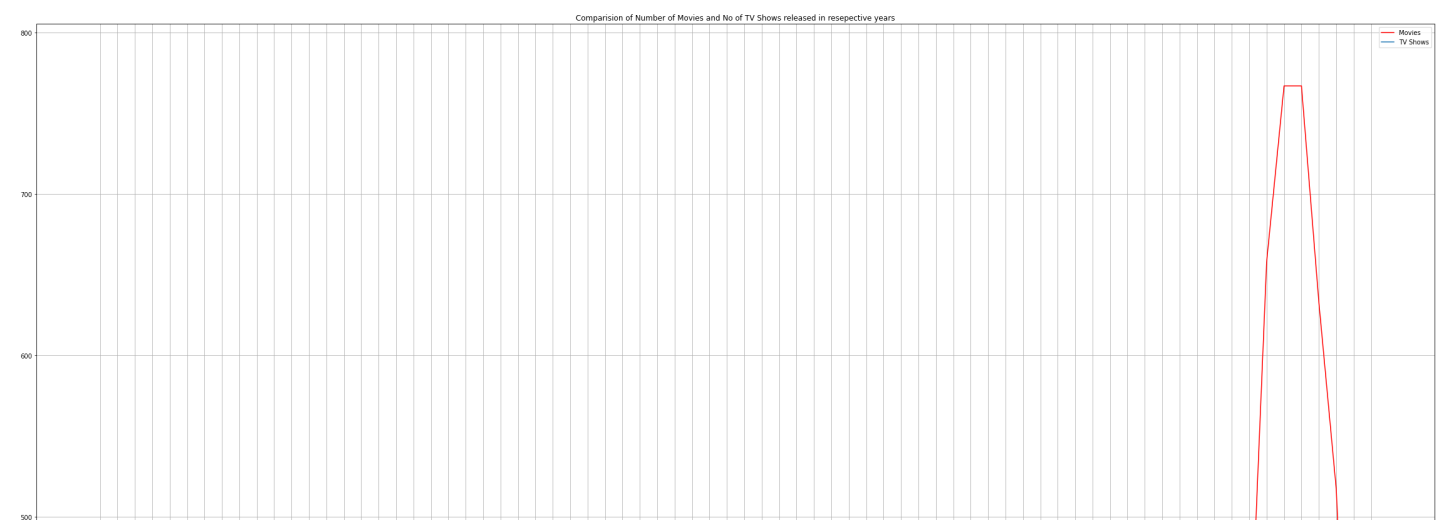


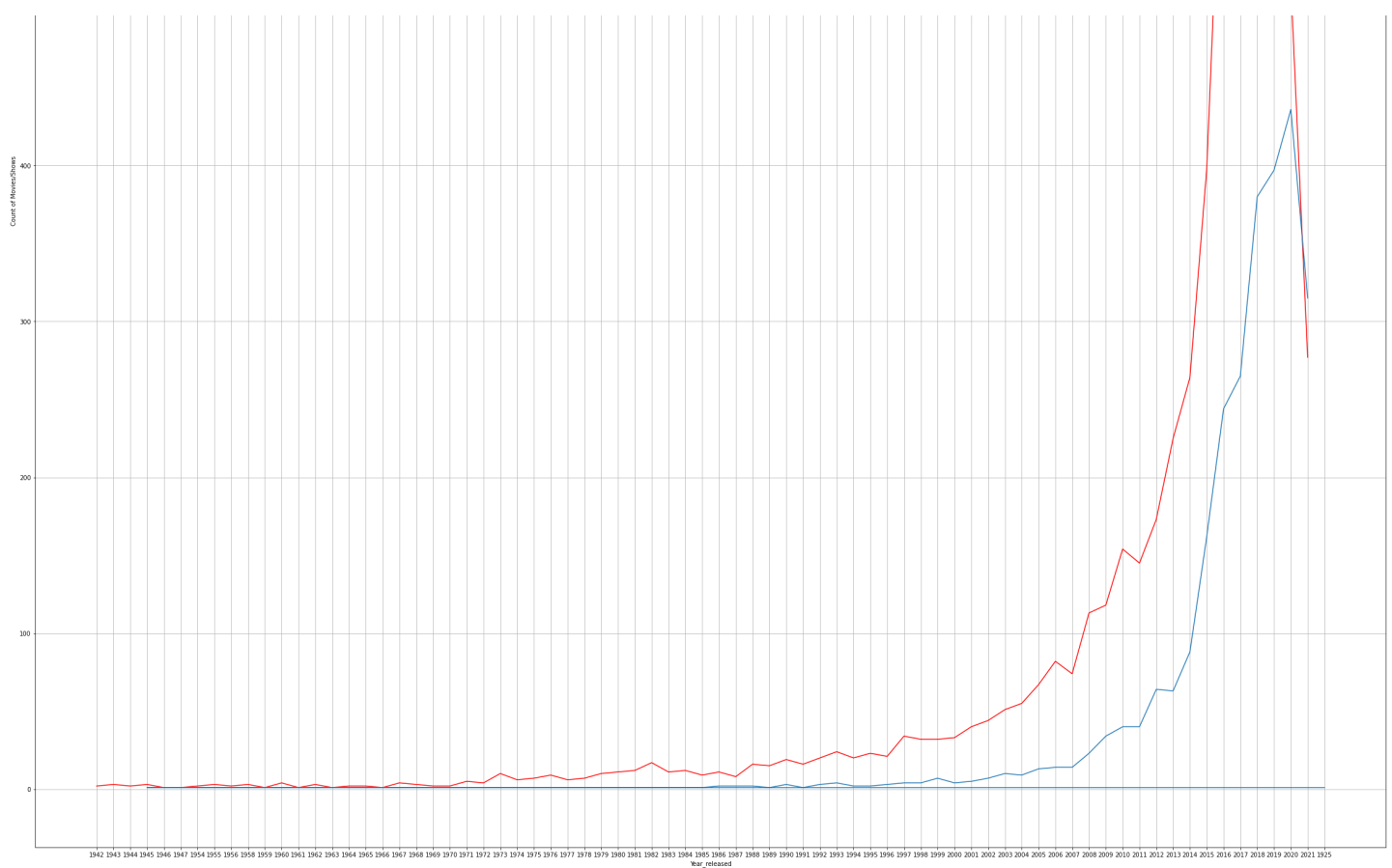


In [325]:

```
plt.figure(figsize=(40,40))
plt.title("Comparision of Number of Movies and No of TV Shows released in resepective yea
rs")
plt.xlabel("Year_released")
plt.ylabel("Count of Movies/Shows")
plt.plot(year_['release_year'],year_['show_id'],'r',label='Movies')
plt.plot(year_1['release_year'],year_1['show_id'],label='TV Shows')
plt.legend()
plt.grid()

plt.show()
```





In [326]:

```
Ctry_1=pd.DataFrame(Shows.groupby('country').count())
Ctry_1=Ctry_1.reset_index()
```

In [327]:

```
Ctry_1=Ctry_1.sort_values(by=['show_id'],ascending=False)
ctry_1=Ctry_1.head(10)
```

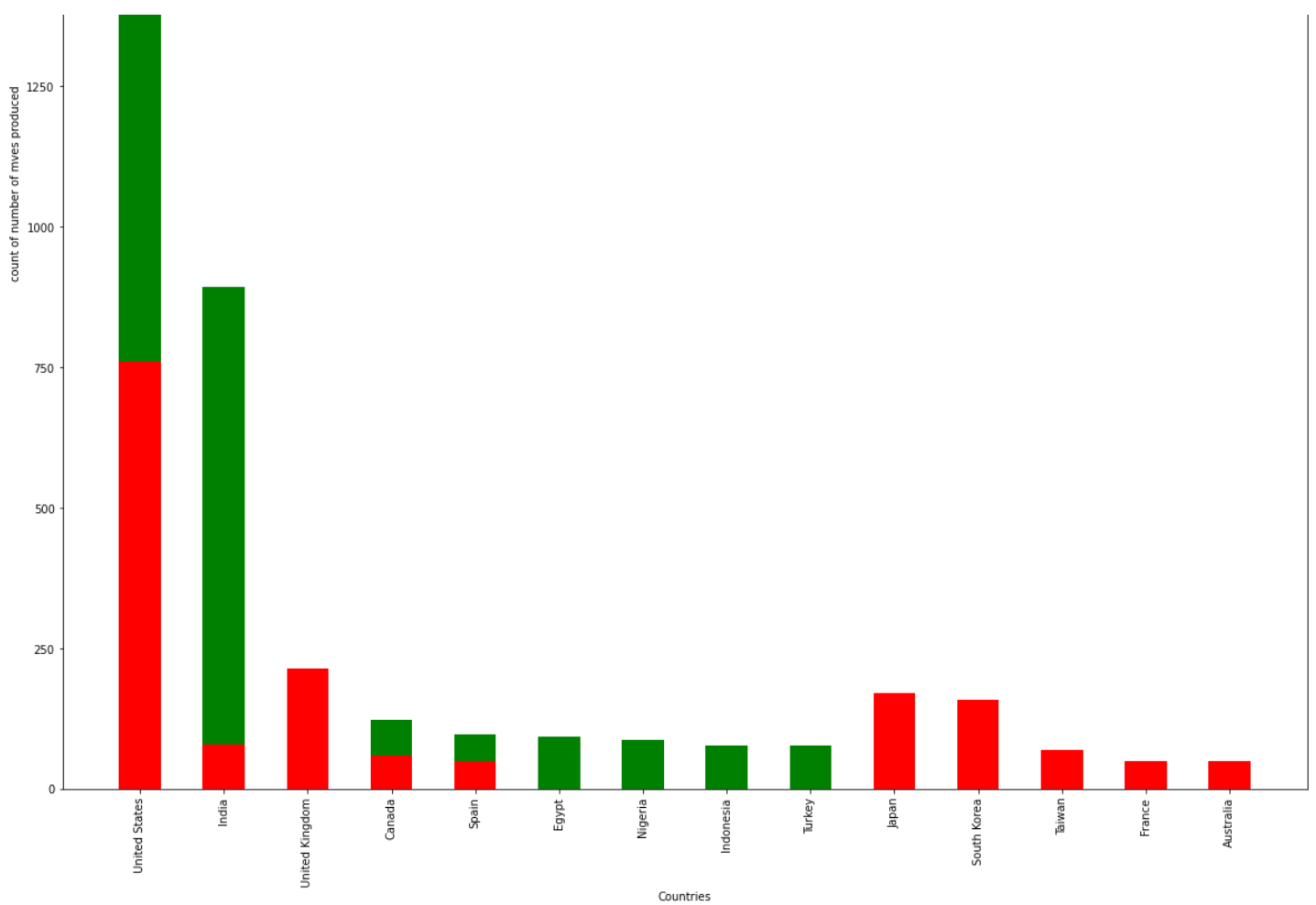
In [328]:

```
plt.figure(figsize=(20,20))
plt.bar(ctry['country'],ctry['show_id'],width=0.5,color='g', label='count of number of mv
es produced')
plt.bar(ctry_1['country'],ctry_1['show_id'],width=0.5,color='r', label='count of number o
f Shows produced')
plt.title('TOP 10 Countries that produce most of the the moviesand in Netflix')
plt.xlabel('Countries')
plt.xticks(rotation=90)
plt.ylabel('count of number of mves produced')
```

Out[328]:

Text(0, 0.5, 'count of number of mves produced')



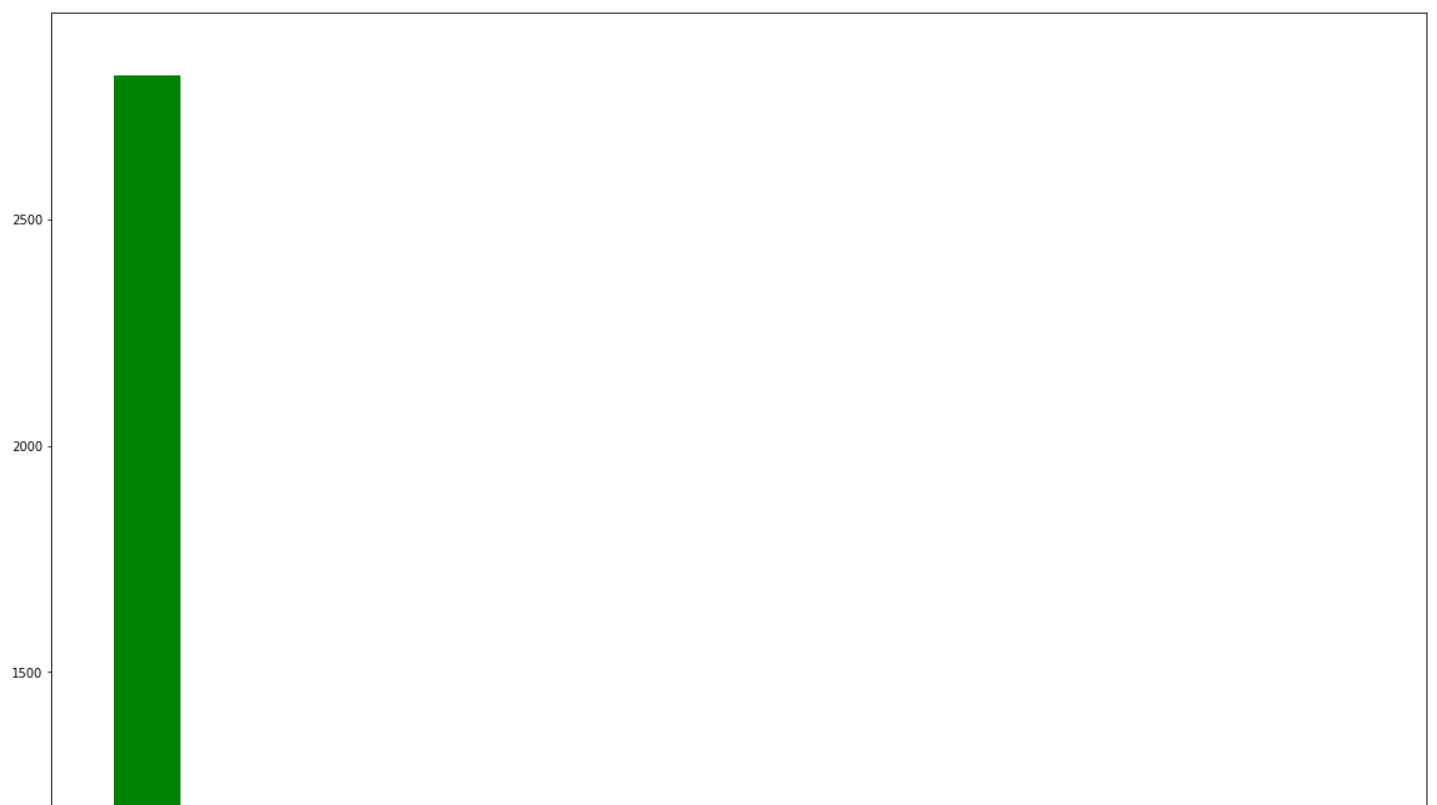


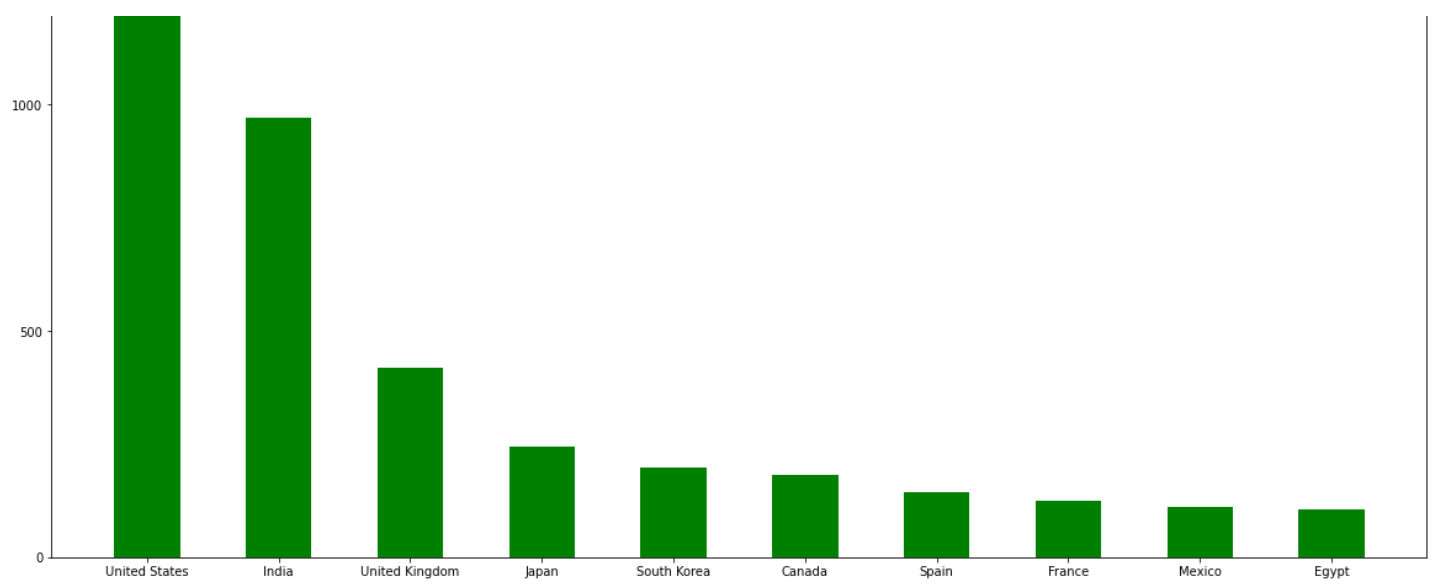
In [329]:

```
Ctry_2=pd.DataFrame(df.groupby('country').count())
Ctry_2=Ctry_2.reset_index()
Ctry_2=Ctry_2.sort_values(by=['show_id'],ascending=False).head(10)
```

In [330]:

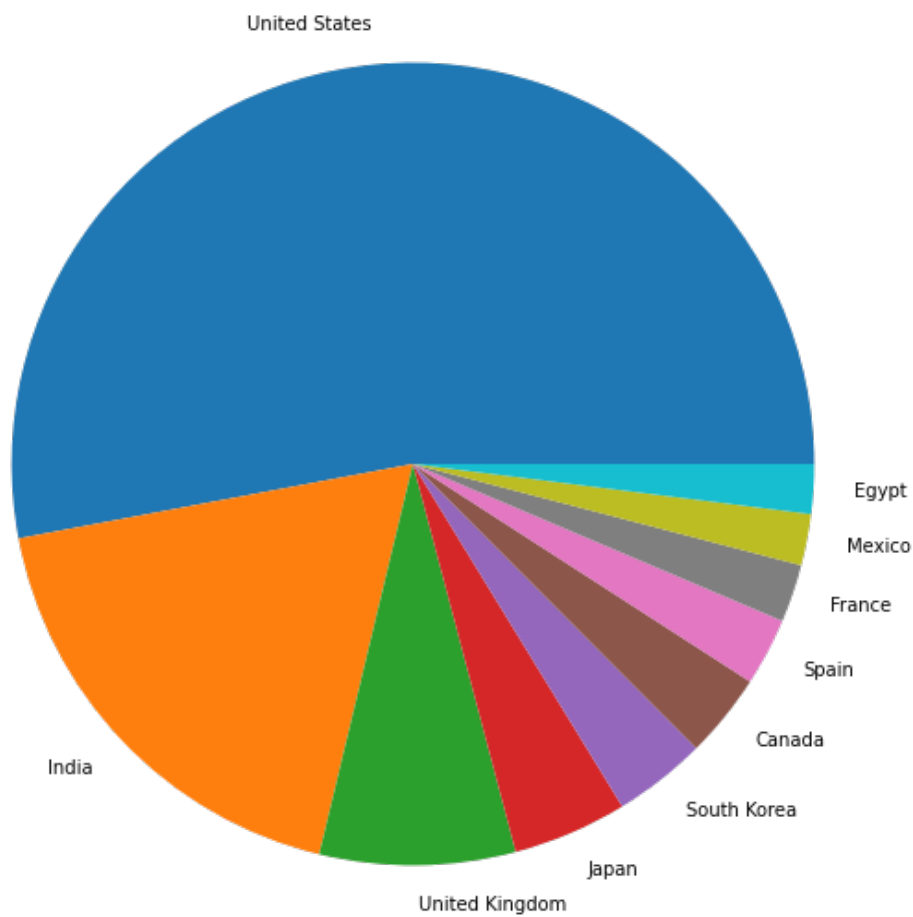
```
plt.figure(figsize=(20,20))
plt.bar(Ctry_2['country'],Ctry_2['show_id'],width=0.5,color='g', label='count of number o
f mves produced')
plt.show()
```





In [331]:

```
plt.figure(figsize=(10,10))
x=Ctry_2['show_id']
y=Ctry_2['country']
myexplode = [0.2, 0, 0, 0]
plt.pie(x, labels = y)
plt.show()
```



In [288]:

Out[288]:

United States	2817
India	972
United Kingdom	419
Japan	245

```
Japan 243
South Korea 199
...
Romania, Bulgaria, Hungary 1
Uruguay, Guatemala 1
France, Senegal, Belgium 1
Mexico, United States, Spain, Colombia 1
United Arab Emirates, Jordan 1
Name: country, Length: 749, dtype: int64
```

In []: