

NETFLIX DASHBOARD REPORT



Submitted By:

Name: Ishan Mazumdar

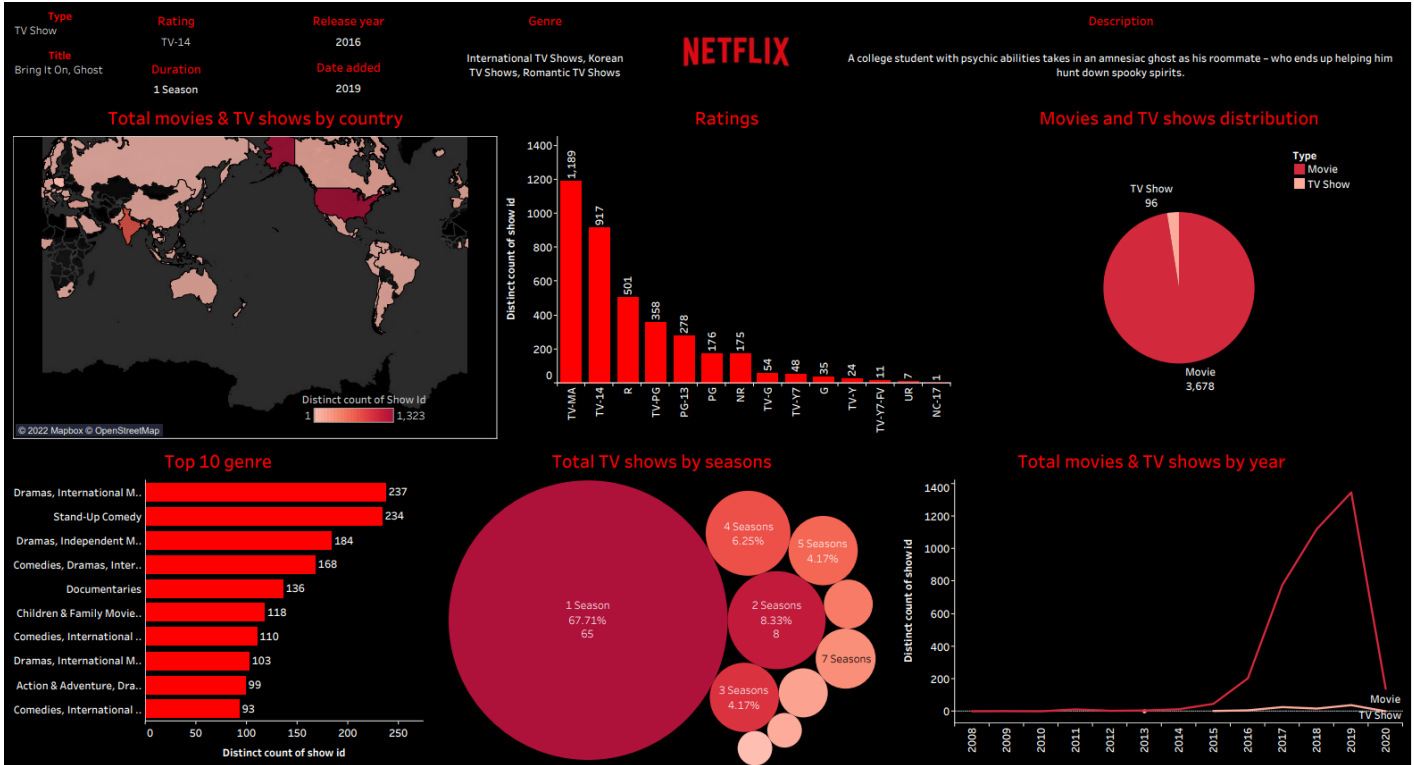
Roll no.: 102003410

Submitted To:

Dr. Sharad Saxena

July 2022 – December 2022

1. Dashboard:



2. Dataset used:

This is the dataset that will be cleaned which contains details of all the movies and TV shows on Netflix's database with 6234 entries.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	show_id	type	title	director	cast	country	date_added	release_year	duration	listed_in	description															
2	81E+07	Movie	Norm of R	Richard F Alan Mar	United States	September 2016	TV-PG	90 min	Children & Families	Before planning an awesome wedding for his grandfather, a polar bear king must take back a stolen artifact from an evil archaeologist first.																
3	8E+07	Movie	Jandino	Whedon	Jandino A United Kingdom	September 2019	TV-MA	94 min	Stand-Up	Jandino Asporait riffs on the challenges of raising kids and serenades the audience with a rousing rendition of "Sex on Fire" in his comedy show.																
4	7E+07	TV Show	Transformers Prime	Peter Cull	United States	September 2013	TV-Y7-FV	1 Season	Kids' TV	With the help of three human allies, the Autobots once again protect Earth from the onslaught of the Decepticons and their leader, Megatron.																
5	8E+07	TV Show	Transformers: Robo	Will Frick	United States	September 2016	TV-Y7	1 Season	Kids' TV	When a prison ship crash unleashes hundreds of Decepticons on Earth, Bumblebee leads a new Autobot force to protect humankind.																
6	8E+07	Movie	#realityhi	Fernando Nesta Coc	United States	September 2017	TV-14	99 min	Comedies	When nerdy high schooler Dani finally attracts the interest of her longtime crush, she lands in the cross hairs of his ex, a social media celebrity.																
7	8E+07	TV Movie	Apaches	Alberto Al Spain	September 2016	TV-MA	1 Season	Crime TV	A young journalist is forced into a life of crime to save his father and family in this series based on the novel by Miguel Snchez Carral.																	
8	7E+07	Movie	Automata	Gabe Iba Antonio B	Bulgaria, September 2014	R	110 min	Interratic	In a dystopian future, an insurance adjuster for a tech company investigates a robot killed for violating protocol and discovers a global conspiracy.																	
9	8E+07	Movie	Fabrizio (Rodrigo T Fabrizio)	Chile	September 2017	TV-MA	60 min	Stand-Up	Fabrizio Copano takes audience participation to the next level in this stand-up set while reflecting on sperm banks, family WhatsApp groups and more.																	
10	8E+07	TV Show	Fire Chasers	United States	September 2017	TV-MA	1 Season	Docuseries	As California's 2016 fire season rages, brave backcountry firefighters race to put out the flames, protect homes and save lives in this docuseries.																	
11	7E+07	Movie	Good Geo	Henrik Rujaimes Jr	United States	September 2014	R	90 min	Action & Adventure	A struggling couple can't believe their luck when they find a stash of money in the apartment of a neighbor who was recently murdered.																
12	8E+07	Movie	Joqun-n Josd M Joqun-n Reyes	September 2017	TV-MA	78 min	Stand-Up	Comedian and celebrity impersonator Joqun-n Reyes decided to be his zesty self for a night of stories about buses, bathroom habits, royalty and more.																		
13	7E+07	Movie	Kidnappi	Daniel All Jim Sturgt	Netherlands	September 2015	R	95 min	Action & Adventure	When being betrayed Alfred "Freddy" Heineken is kidnapped in 1983, his abductors make the largest ransom demand in history.																
14	8E+07	Movie	Krish Trish and Ball Damandeep Singh	B September 2013	TV-Y7	58 min	Children & Families	A team of minstrels, including a monkey, cat and donkey, narrate folktales from the Indian regions of Rajasthan, Kerala and Punjab.																		
15	8E+07	Movie	Krish Tris Munjal Si Damandeep Singh	B September 2013	TV-Y7	62 min	Children & Families	An artisan is cheated of his payment, a lion of his throne and a brother of his inheritance in these three stories of deception and justice.																		
16	8E+07	Movie	Krish Tris Munjal Si Damandeep Singh	B September 2016	TV-Y	65 min	Children & Families	A cat, monkey and donkey team up to narrate folktales about friendship from Northeast India, and the Indian regions of Bihar and Rajasthan.																		
17	8E+07	Movie	Krish Tris Tilak Shet Rishi Gambhir,	Smil September 2012	TV-Y7	61 min	Children & Families	In three comic-strip-style tales, a boy tries to sell wisdom, a demon is released from captivity, and a king assigns impossible tasks to his minister.																		
18	8E+07	Movie	Krish Tris Tilak Shet Rishi Gambhir,	Smil September 2017	TV-Y7	65 min	Children & Families	A cat, monkey and donkey learn the consequences of cheating through stories from the Indian regions of Rajasthan, West Bengal and Maharashtra.																		
19	8E+07	Movie	Krish Trish and Ball Damandeep Singh	B September 2010	TV-Y7	58 min	Children & Families	Animal minstrels narrate stories about a monkey's friendship with a crocodile, two monkeys' foolishness and a villager's encounter with a demon.																		
20	8E+07	Movie	Krish Tris Munjal Si Damandeep Singh	B September 2013	TV-Y7	60 min	Children & Families	The consequences of trickery are explored in stories involving an inconsiderate husband, two greedy courtiers, and a kind man who loses everything.																		
21	8E+07	Movie	Love	Gaspard N Karl Gius France,	Bi September 2015	NR	135 min	Cult Mov	A man in an unsatisfying marriage recalls the details of an intense past relationship with an ex-girlfriend when he gets word that she may be missing.																	
22	8E+07	Movie	Manhatta Tom O'Bri Tom O'Brien	United States	September 2014	TV-14	98 min	Comedies	A filmmaker working on a documentary about love in modern Manhattan becomes personally entangled in the romantic lives of his subjects.																	
23	8E+07	Movie	Moonal	Antoine B Ron Perlman France,	Bi September 2015	R	96 min	Action & Adventure	A brain-addled war vet, a failing band manager and a Stanley Kubrick impersonator help the CIA construct an epic scam by faking the 1969 moon landing.																	
24	8E+07	Movie	Rolling Pi	Mitch Dickman	United States	September 2015	TV-MA	79 min	Documen	As the newspaper industry takes a hit, The Denver Post breaks new ground with a section dedicated to cannabis culture.																
25	7E+07	Movie	Stoneh	Brad Andri Kate Beck	United States	September 2014	PG-13	113 min	Horror M	In 1899, a young doctor arrives at an asylum for an apprenticeship and becomes suspicious of his mentor's methods while falling for a female patient.																
26	8E+07	Movie	The Runni	Austin Si Nicola C	United States	September 2015	R	90 min	Dramas, I	A New Orleans politician finds his idealistic plans for rebuilding after a toxic oil spill unraveling thanks to a sex scandal.																
27	8E+07	Movie	6 Years	Hannah F Talissa Fa	United States	September 2015	NR	80 min	Dramas, I	As a volatile young couple who have been together for six years approach college graduation, unexpected career opportunities threaten their future.																
28	8E+07	TV Show	Castle of Stars	Chiayipol Pupart, J	September 2015	TV-14	1	Interratic	As four couples with different lifestyles go through the ebbs and flows of joy and sorrow, each must learn how to live a good life.																	
29	8E+07	Movie	City of Joy	Madeleine Givan	United States	September 2018	TV-MA	77 min	Documen	Women who've been sexually brutalized in war-torn Congo begin to heal at City of Joy, a center that helps them regain a sense of self and empowerment.																
30	8E+07	TV Show	First and Last	September 2018	TV-MA	1 Season	Docuseries	Take an intimate look at the emotionally charged first and last days of new and soon-to-be released inmates at Georgia's Gwinnett County Jail.																		
31	7E+07	Movie	Laddalson	Kevin R. Aloh	Kras Thailand, September 2011	TV-MA	112 min	Horror M	When a family moves into an upscale housing development, they encounter a series of paranormal events that drive them to the edge of insanity.																	
32	81E+07	Movie	Nest Gen	Xepin R. A John Kras	China, September 2018	TV-PG	106 min	Children & Families	When lonely May forms an unlikely bond with a top-secret robot, they embark on an intense, action-packed adventure to foil the plot of a vicious villain.																	
33	8E+07	Movie	Sierra Bui	Samu Shammun	United States	September 2018	PG-13	106 min	Comedies	A wrong-number text sparks a virtual romance between a smart but unpopular teen and a sweet jock who thinks he's talking to a gorgeous cheerleader.																
34	8E+07	Movie	The Most	Frank R. Si Anna Mo	Belgium, I September 2018	TV-MA	102 min	Dramas, I	In 1930s Paris, an actress fakes for her gory death scenes at the Grand Guignol Theater contends with a mysterious stalker and ghosts from her past.																	
35	8E+07	Movie	Czanni	Danni Daniel T	Guyalla Belgium, I September 2016	R	114 min	Dramas, I	This historical drama explores the long and often volatile friendship of painter Paul Czanne and writer mile Zola, who first met as schoolboys.																	
36	8E+07	TV Show	Archibald's	Nest B Tilly Hale, Rosamur	September 2019	TV-Y7	1 Season	Kids' TV	I'm Happy-go-lucky chicken Archibald may not remember to do his chores, but he never forgets to have fun. After all, life's an adventure!																	
37	81E+07	Movie	Article 15	Anubhav Ayushmi India	September 2019	TV-MA	125 min	Dramas, I	The grim realities of caste discrimination come to light as an entitled but upright city cop ventures into India's heartland to investigate a murder.																	
38	81E+07	Movie	Care of Ki	Maha Ver Subba Rao	Vepada, September 2018	TV-14	142 min	Comedies	From a schoolboy's st crush to a middle-aged bachelor's office romance, four love stories spanning age, religion and status unfold in a small Indian town.																	
39	81E+07	Movie	Ee Nagare	Tharun B	Viishwaki India	September 2018	TV-14	133 min	Comedies	In Goa and in desperate need of cash, four childhood friends get another shot at making their long-abandoned dreams of becoming filmmakers come true.																
40	81E+07	Movie	Kill Me If	rzen S Murat Boz, Seda	Boz, Seda September 2019	TV-14	100 min	Comedies	Bogged down with money problems, a couple grows cautious of each other but hit the lottery and decide to stay together t all death they part.																	
41	8E+07	TV Show	The Spy	Sacha Ball France	September 2019	TV-MA	1 Season	Interratic	In the 1960s, Israeli clerk-turned-secret agent Eli Cohen goes deep undercover inside Syria on a perilous, years-long mission to spy for Mossad.																	
42	8E+07	Movie	Hell and I	Tom Gian Nick Swart	United States	September 2015	R	86 min	Action & Adventure	When best friends break a blood oath, one of them is cast away to hell, and the other two must save him from the misfits of the underworld.																
43	7E+07	Movie	PK	Rajkumar Amir Kh	India	September 2014	TV-14	146 min	Comedies	Aamir Khan teams with director Rajkumar Hirani to play a social crusader in a political satire on the state of corruption in India.																
44	8E+07	Movie	Hard Tide	Robert Os	Nathane United Kingdom	September 2015	TV-MA	79 min	Dramas, I	A drug dealer who's been emulating his father's successful criminal career is forced to go on the run with a young girl in this fact-based thriller.																
45	8E+07	Movie	Fluxus	Alfonso Cuarn, Ben Affleck	United States	September 2016	TV-PG	125 min	Dramas, I	Documentary and new features of the Cuarn brothers are presented in "Fluxus" as the brothers look back on the films and the lives of those behind their lives.																

3. Data cleaning:

Steps followed for cleaning the data ->

```
#DATA CLEANING
for(i in 1:10)
  df[i,"release_year"]<--199

df[df==""]<-NA

df %>%
  select(release_year) %>%
  slice(1:10)

df[1,"release_year"]<-2019

t<-c(2,4,6)
df[t,"release_year"]<-2016

df[3,"release_year"]<-2013

t1<-c(5,8,9)
df[t1,"release_year"]<-2017

t2<-c(7,10)
df[t2,"release_year"]<-2014|

df<-na.omit(df)
```

Outputs:

```
Console Terminal Background Jobs
R 4.2.1 · C:/Users/HP/Downloads/netflix_titles.csv (1)
> df<-read.csv("netflix.csv")
> df[df == ""] <- NA
> df
  show_id  type title
1  81145628  Movie Norm of the North: King Sized Adventure
2  80117401  Movie Jandino: Whatever it Takes
3  70234439 TV Show Transformers Prime
4  80058654 TV Show Transformers: Robots in Disguise
5  80125979  Movie #realityhigh
6  80163890 TV Show Apaches
7  70304989  Movie Automata
8  80164077  Movie Fabrizio Copano: Solo pienso en mi
9  80117902 TV Show Fire Chasers
10 70304990  Movie Good People
11 80169755  Movie Joaquín Reyes: Una y no más
12 70299204  Movie Kidnapping Mr. Heineken
13 80182480  Movie Krish Trish and Baltiboy
14 80182483  Movie Krish Trish and Baltiboy: Battle of Wits
15 80182596  Movie Krish Trish and Baltiboy: Best Friends Forever
16 80182482  Movie Krish Trish and Baltiboy: Comics of India
17 80182597  Movie Krish Trish and Baltiboy: Oversmartness Never Pays
18 80182481  Movie Krish Trish and Baltiboy: Part II
19 80182621  Movie Krish Trish and Baltiboy: The Greatest Trick
20 80057969  Movie Love
21 80060297  Movie Manhattan Romance
22 80046728  Movie Moonwalkers
23 80046727  Movie Rolling Papers
24 70304988  Movie Stonehearth Asylum
25 80057700  Movie The Runner
26 80045922  Movie 6 Years
27 80244601 TV Show Castle of Stars
28 80203094  Movie City of Joy
29 80190843 TV Show First and Last
30 70241607  Movie Laddaland
31 80988892  Movie Next Gen
32 80239639  Movie Sierra Burgess Is A Loser
33 80159586  Movie The Most Assassinated Woman in the World
34 80152447  Movie Cézanne et moi
35 80221550 TV Show Archibald's Next Big Thing
36 81154455  Movie Article 15
37 81113928  Movie Care of Kancharapalem
38 81052275  Movie Ee Nagarani Emaindi
39 81132437  Movie Kill Me If You Dare
40 80178151 TV Show The Spy
41 80058026  Movie Hell and Back
42 70303496  Movie PK
43 80162141  Movie Hard Tide
```

```
[2] NA
[3] NA
[4] NA
[5] "Fernando Lebrija"
[6] NA
[7] "Gabe Ibáñez"
[8] "Rodrigo Toro, Francisco Schultz"
[9] NA
[10] "Henrik Ruben Genz"
[11] "José Miguel Contreras"
[12] "Daniel Alfredson"
[13] NA
[14] "Munjal Shroff, Tilak Shetty"
[15] "Munjal Shroff, Tilak Shetty"
[16] "Tilak Shetty"
[17] "Tilak Shetty"
[18] NA
[19] "Munjal Shroff, Tilak Shetty"
[20] "Gaspar Noé"
[21] "Tom O'Brien"
[22] "Antoine Bardou-Jacquet"
[23] "Mitch Dickman"
[24] "Brad Anderson"
[25] "Austin Stark"
```

```
> select(df,date_added:rating)
```

	date_added	release_year	rating
1	September 9, 2019	-199	TV-PG
2	September 9, 2016	-199	TV-MA
3	September 8, 2018	-199	TV-Y7-FV
4	September 8, 2018	-199	TV-Y7
5	September 8, 2017	-199	TV-14
6	September 8, 2017	-199	TV-MA
7	September 8, 2017	-199	R
8	September 8, 2017	-199	TV-MA
9	September 8, 2017	-199	TV-MA
10	September 8, 2017	-199	R
11	September 8, 2017	2017	TV-MA
12	September 8, 2017	2015	R
13	September 8, 2017	2009	TV-Y7
14	September 8, 2017	2013	TV-Y7
15	September 8, 2017	2016	TV-Y
16	September 8, 2017	2012	TV-Y7
17	September 8, 2017	2017	TV-Y7
18	September 8, 2017	2010	TV-Y7
19	September 8, 2017	2013	TV-Y7
20	September 8, 2017	2015	NR
21	September 8, 2017	2014	TV-14
22	September 8, 2017	2015	R
23	September 8, 2017	2015	TV-MA
24	September 8, 2017	2014	PG-13
25	September 8, 2017	2015	R
26	September 8, 2015	2015	NR
27	September 7, 2018	2015	TV-14
28	September 7, 2018	2018	TV-MA
29	September 7, 2018	2018	TV-MA
30	September 7, 2018	2011	TV-MA

```
> df[3,"release_year"]<-2013
> df %>%
+   select(release_year) %>%
+   slice(1:10)
  release_year
1          2019
2          2016
3          2013
4          2016
5          2017
6          2016
7          2014
8          2017
9          2017
10         2014
```

4. Splitting of datasets:

After cleaning the dataset has been split into 3 smaller datasets using show_id and title as the primary key using the following codes ->

```
#DATA SPLITTING
split_1<-select(df,show_id,type,title,director,cast,country)
split_2<-select(df,show_id,title,date_added,release_year,rating)
split_3<-select(df,show_id,title,duration,listed_in,description)

write.csv(split_1,"C:\\Users\\HP\\Downloads\\netflix_titles.csv (1)\\SPLIT 1.csv")
write.csv(split_2,"C:\\Users\\HP\\Downloads\\netflix_titles.csv (1)\\SPLIT 2.csv")
write.csv(split_3,"C:\\Users\\HP\\Downloads\\netflix_titles.csv (1)\\SPLIT 3.csv")
```

Tables:

	show_id	type	title	director	cast	country
1	1	8.1E+07	Movie	Norm of the North: K	Richard Finn, Alan Mar	United States, India, South Korea, China
2	5	8E+07	Movie	#realityhigh	Fernando Leb Nesta Coc	United States
3	7	7E+07	Movie	Automata	Gabe IbÃjÃte Antonio E	Bulgaria, United States, Spain, Canada
4	8	8E+07	Movie	Fabrizio Copano: Sol	Rodrigo Toro Fabrizio C	Chile
5	10	7E+07	Movie	Good People	Henrik Ruben James FrÃ	United States, United Kingdom, Denmark, Sweden
6	12	7E+07	Movie	Kidnapping Mr. Heir	Daniel Alfred Jim Sturg	Netherlands, Belgium, United Kingdom, United States
7	20	8E+07	Movie	Love	Gaspar NoÃ© Karl Glus	France, Belgium
8	21	8E+07	Movie	Manhattan Romance	Tom O'Brien Tom O'Br	United States
9	22	8E+07	Movie	Moonwalkers	Antoine Bard Ron Perl	France, Belgium
10	24	7E+07	Movie	Stonehearst Asylum	Brad Andersc Kate Beck	United States
11	25	8E+07	Movie	The Runner	Austin Stark Nicolas C	United States
12	26	8E+07	Movie	6 Years	Hannah Fidel Taissa Fa	United States
13	30	7E+07	Movie	Laddaland	Sopon Sukda Saharat S	Thailand
14	31	8.1E+07	Movie	Next Gen	Kevin R. Adan John Kras	China, Canada, United States
15	32	8E+07	Movie	Sierra Burgess Is A L	Ian Samuels Shannon	United States
16	33	8E+07	Movie	The Most Assassina	Franck RibiÃ Anna Mo	Belgium, United Kingdom, United States
17	34	8E+07	Movie	CÃ©zanne et moi	Daniele Thor Guillaum	Belgium, France
18	36	8.1E+07	Movie	Article 15	Anubhav Sinh Ayushma	India
19	38	8.1E+07	Movie	Ee Nagarani Emai	Tharun Bhasc Vishwak	India
20	41	8E+07	Movie	Hell and Back	Tom Ganas, Nick Swai	United States
21	42	7E+07	Movie	PK	Rajkumar Hir Aamir Kh	India
22	43	8E+07	Movie	Hard Tide	Robert Osma Nathanae	United Kingdom
23	44	8E+07	Movie	Elstree 1976	Jon Spira Paul Blak	United Kingdom
24	46	8E+07	Movie	ATM	Mez Tharator Chantavi	United States, Canada
25	47	8.1E+07	Movie	Bangkok Traffic (Lov	Adisorn Tresi Theerade	Thailand
26	48	8E+07	Movie	I Fine... Thank You...	Mez Tharator Preechay	Thailand
27	49	8.1E+07	Movie	One Day	Banjong Pisa Chantavi	Thailand
28	50	7E+07	Movie	Phobia 2	Banjong Pisa Jirayu La	Thailand
29	51	7E+07	Movie	Shutter	Banjong Pisa Ananda E	Thailand
30	52	8E+07	Movie	Suckseed	Chayanop Bo Jirayu La	Thailand
31	53	8E+07	Movie	Carrie Pilby	Susan Johnsc Bel Powle	United States
32	54	8E+07	Movie	Marc Maron: Too Re	Lynn Shelton Marc Ma	United States
33	56	8.1E+07	Movie	Saawan	Farhan Alam Karam Hu	Pakistan
34	57	8.1E+07	Movie	The Heretics	Chad Archiba Nina Kiri	Canada
35	58	8.1E+07	Movie	The World We Make	Brian Baugh Caleb Cas	United States
36	59	8.1E+07	Movie	Watchman	A. L. Vijay G.V. Praki	India
37	60	8E+07	Movie	Black Panther	Ryan Coogler Chadwick	United States
38	61	8E+07	Movie	Man Up	Ben Palmer Lake Bell	United Kingdom, France
39	63	8.1E+07	Movie	Mo Gilligan: Momen	Chris Howe Mo Gillig	United Kingdom
40	66	7E+07	Movie	Big Miracle	Ken Kwapis Drew Bar	United States, United Kingdom
41	72	8E+07	Movie	The Mayor	Park In-je Min-sik C	South Korea
42	76	8E+07	Movie	The Debt Collector	Jesse V. Johns Scott Adk	United Kingdom, United States
43	77	7E+07	Movie	Act of Vengeance	Mahsun KÃr Haluk Bil	Turkey, United States
44	78	8.1E+07	Movie	Paradise Lost	Monique Gar JÃlio Anc	Brazil
45	79	8E+07	Movie	Gerald's Game	Mike Flanaga Carla Gu	United States
46	82	8E+07	Movie	Our Souls at Night	Ritesh Batra Robert Re	United States

	A	B	C	D	E	F	G	H	I
1		show_id	title	date_added	release_year	rating			
2	1	8.1E+07	Norm of the North	September 11, 2019	2019	TV-PG			
3	5	8E+07	#realityhigh	September 11, 2017	2017	TV-14			
4	7	7E+07	Automata	September 11, 2014	2014	R			
5	8	8E+07	Fabrizio C. Costantini	September 11, 2017	2017	TV-MA			
6	10	7E+07	Good People	September 11, 2014	2014	R			
7	12	7E+07	Kidnappin	September 11, 2015	2015	R			
8	20	8E+07	Love	September 11, 2015	2015	NR			
9	21	8E+07	Manhatta	September 11, 2014	2014	TV-14			
10	22	8E+07	Moonwalk	September 11, 2015	2015	R			
11	24	7E+07	Stonehear	September 11, 2014	2014	PG-13			
12	25	8E+07	The Runne	September 11, 2015	2015	R			
13	26	8E+07	6 Years	September 11, 2015	2015	NR			
14	30	7E+07	Laddalanc	September 11, 2011	2011	TV-MA			
15	31	8.1E+07	Next Gen	September 11, 2018	2018	TV-PG			
16	32	8E+07	Sierra Bur	September 11, 2018	2018	PG-13			
17	33	8E+07	The Most	September 11, 2018	2018	TV-MA			
18	34	8E+07	C@zanne	September 11, 2016	2016	R			
19	36	8.1E+07	Article 15	September 11, 2019	2019	TV-MA			
20	38	8.1E+07	Ee Nagara	September 11, 2018	2018	TV-14			
21	41	8E+07	Hell and B	September 11, 2015	2015	R			
22	42	7E+07	PK	September 11, 2014	2014	TV-14			
23	43	8E+07	Hard Tide	September 11, 2015	2015	TV-MA			
24	44	8E+07	Elstree 19	September 11, 2015	2015	TV-PG			
25	46	8E+07	ATM	September 11, 2012	2012	TV-14			
26	47	8.1E+07	Bangkok T	September 11, 2009	2009	TV-14			
27	48	8E+07	I Fine... Th	September 11, 2014	2014	TV-14			
28	49	8.1E+07	One Day	September 11, 2016	2016	TV-PG			
29	50	7E+07	Phobia 2	September 11, 2009	2009	TV-MA			
30	51	7E+07	Shutter	September 11, 2004	2004	TV-MA			
31	52	8E+07	Suckseed	September 11, 2011	2011	TV-MA			
32	53	8E+07	Carrie Pill	September 11, 2016	2016	TV-14			
33	54	8E+07	Marc Mar	September 11, 2017	2017	TV-MA			
34	56	8.1E+07	Saawan	September 11, 2016	2016	TV-14			
35	57	8.1E+07	The Hereti	September 11, 2017	2017	TV-MA			
36	58	8.1E+07	The World	September 11, 2019	2019	PG			
37	59	8.1E+07	Watchmai	September 11, 2019	2019	TV-14			
38	60	8E+07	Black Pan	September 11, 2018	2018	PG-13			
39	61	8E+07	Man Up	September 11, 2015	2015	R			
40	63	8.1E+07	Mo Gillig	September 11, 2019	2019	TV-MA			
41	66	7E+07	Big Mirac	September 11, 2012	2012	PG			
42	72	8E+07	The Mayor	September 11, 2017	2017	TV-MA			

#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1		show_id		duration	listed_in	description																	
2	1	8.1E+07	Norm of the North	90 min	Children &	Before planning an awesome wedding for his grandfather, a polar bear king must take back a stolen artifact from an evil archaeologist first.																	
3	5	8E+07	#realityhigh	99 min	Comedies	When nerdy high schooler Dani finally attracts the interest of her longtime crush, she lands in the cross hairs of his ex, a social media celebrity.																	
4	7	7E+07	Automata	110 min	Internatio	In a dystopian future, an insurance adjuster for a tech company investigates a robot killed for violating protocol and discovers a global conspiracy.																	
5	8	8E+07	Fabrizio C	60 min	Stand-Up	Fabrizio Copano takes audience participation to the next level in this stand-up set while reflecting on sperm banks, family WhatsApp groups and more.																	
6	10	7E+07	Good Peop	90 min	Action & A	A struggling couple can't believe their luck when they find a stash of money in the apartment of a neighbor who was recently murdered.																	
7	12	7E+07	Kidnappin	95 min	Action & A	When beer magnate Alfred "Freddy" Heineken is kidnapped in 1983, his abductors make the largest ransom demand in history.																	
8	20	8E+07	Love	135 min	Cult Movie	A man in an unsatisfying marriage recalls the details of an intense past relationship with an ex-girlfriend when he gets word that she may be missing.																	
9	21	8E+07	Manhatta	98 min	Comedies	A filmmaker working on a documentary about love in modern Manhattan becomes personally entangled in the romantic lives of his subjects.																	
10	22	8E+07	Moonwall	96 min	Action & A	A brain-addled war vet, a failing band manager and a Stanley Kubrick impersonator help the CIA construct an epic scam by faking the 1969 moon landing.																	
11	24	7E+07	Stonehear	113 min	Horror Mc	In 1899, a young doctor arrives at an asylum for an apprenticeship and becomes suspicious of his mentor's methods while falling for a female patient.																	
12	25	8E+07	The Runne	90 min	Dramas	A New Orleans politician finds his idealistic plans for rebuilding after a toxic oil spill unraveling thanks to a sex scandal.																	
13	26	8E+07	6 Years	80 min	Dramas	As a volatile young couple who have been together for six years approach college graduation, unexpected career opportunities threaten their future.																	
14	30	7E+07	Laddaland	112 min	Horror Mc	When a family moves into an upscale housing development, they encounter a series of paranormal events that drive them to the edge of insanity.																	
15	31	8.1E+07	Next Gen	106 min	Children &	When lonely Mai forms an unlikely bond with a top-secret robot, they embark on an intense, action-packed adventure to foil the plot of a vicious villain.																	
16	32	8E+07	Sierra Bur	106 min	Comedies	A wrong-number text sparks a virtual romance between a smart but unpopular teen and a sweet jock who thinks he's talking to a gorgeous cheerleader.																	
17	33	8E+07	The Most	102 min	Dramas	In 1930s Paris, an actress famous for her gory death scenes at the Grand Guignol Theater contends with a mysterious stalker and ghosts from her past.																	
18	34	8E+07	C@zanne	114 min	Dramas	This historical drama explores the long and often volatile friendship of painter Paul C@zanne and writer A@mile Zola, who first met as schoolboys.																	
19	36	8.1E+07	Article 15	125 min	Dramas	The grim realities of caste discrimination come to light as an entitled but upright city cop ventures into India's heartland to investigate a murder.																	
20	38	8.1E+07	Ee Nagara	133 min	Comedies	In Goa and in desperate need of cash, four childhood friends get another shot at making their long-abandoned dreams of becoming filmmakers come true.																	
21	41	8E+07	Hell and B	86 min	Action & A	When best friends break a blood oath, one of them is cast away to hell, and the other two must save him from the misfits of the underworld.																	
22	42	7E+07	PK	146 min	Comedies	Aamir Khan teams with director Rajkumar Hirani to play a social crusader in a political satire on the state of corruption in India.																	
23	43	8E+07	Hard Tide	79 min	Dramas	A drug dealer who's been emulating his father's successful criminal career is forced to go on the run with a young girl in this fact-based thriller.																	
24	44	8E+07	Elstree 19	102 min	Document	Then and now footage of bit players who appeared in "Star Wars" tells the story of how the film and its legions of fans changed their lives forever.																	
25	46	8E+07	ATM	122 min	Comedies	When a broken ATM dishes out a fortune, a couple who works at the bank vies to see who can recover the most cash &€" and the loser must find a new job.																	
26	47	8.1E+07	Bangkok	126 min	Comedies	After an encounter with an engineer working the night shift for the city train, a 30-year-old woman struggles against all odds to pursue true love.																	
27	48	8E+07	I Fine... Th	116 min	Comedies	Desperate to go to the U.S. to win back his girlfriend, Yim hires a tutor to teach him English. But things don't go according to plan.																	
28	49	8.1E+07	One Day	135 min	Dramas	When his colleague (and crush) temporarily loses her memory, an overlooked geek seizes the chance to make an impression before she remembers again.																	
29	50	7E+07	Phobia 2	125 min	Horror Mc	From disfiguring punishments to festered souls, Thai horror masters present five supernatural tales of karma in this sequel to the 4bia anthology.																	
30	51	7E+07	Shutter	96 min	Horror Mc	After killing a young girl in a hit-and-run accident, a couple is haunted by more than just the memory of their deadly choice.																	
31	52	8E+07	Suckseed	130 min	Comedies	When his boyhood crush Ern returns, Ped forms a band with his friend to impress her. Romantic rivalries bloom after the talented Ern joins the group.																	
32	53	8E+07	Carrie Pill	98 min	Comedies	A socially awkward 19-year-old genius makes big plans to step out of her shell and make a friend, get a job and &€" maybe &€" even go on a date.																	
33	54	8E+07	Marc Mar	70 min	Stand-Up	Battle-scarred stand-up comedian Marc Maron unleashes a storm of ideas about meditation, mortality, documentary films and our weird modern world.																	
34	56	8.1E+07	Saawan	128 min	Dramas	Outcast from society and left to die in the wilderness, a young boy with polio embarks on a journey to connect with his mother. Based on a true story.																	
35	57	8.1E+07	The Hereti	88 min	Horror Mc	A withdrawn young woman hunted by a malicious cult is abducted by a brooding stranger and undergoes a bizarre transformation.																	
36	58	8.1E+07	The Worlc	108 min	Dramas	A teenage equestrian and a local football player for each other, but simmering racism in their small town puts their relationship to the test.																	
37	59	8.1E+07	Watchmai	93 min	Comedies	Rushing to pay off a loan shark, a young man breaks into a bungalow to steal the cash, unprepared for the dog standing guard &€" or the trouble inside.																	
38	60	8E+07	Black Pan	135 min	Action & A	T'Challa, the superpowered new leader of the hidden, highly advanced African nation of Wakanda, strives to protect his home from enemies old and new.																	
39	61	8E+07	Man Up	88 min	Comedies	A single woman seizes an opportunity when, while standing under a train station clock, she meets a stranger who mistakes her for his blind date.																	
40	63	8.1E+07	Mo Gillig	64 min	Stand-Up	Comedian Mo Gilligan blends smooth moves and sharp humor as he riffs on humble beginnings, family dynamics and the complex art of dancing in the club.																	
41	66	7E+07	Big Mirac	107 min	Children &	After a reporter writes about whales trapped in the Arctic Circle, the U.S. and U.S.S.R. team up to rescue them in this tale inspired by true events.																	
42	72	8E+07	The Mayoi	130 min	Dramas	With the presidency in mind, the incumbent mayor of Seoul runs for an unprecedented third term &€" and will stop at nothing to keep his secrets hidden.																	
43	76	8E+07	The Debt	96 min	Action & A	A broke martial arts instructor takes a side gig with a mobster, who pairs him with a veteran thug for a weekend of fisticuffs-fueled debt collection.																	
44	77	7E+07	Act of Ven	112 min	Action & A	Two Turkish agents are sent to New York City on a mission to capture a notorious terrorist known only as "Dejja" (Arabic for Antichrist).																	

After splitting the dataset, they have been merged based on the primary keys.

Code ->

```
#DATA MERGING
data_frame<-merge(split_1,split_2,by=c("show_id","title"))
new_data<-merge(data_frame,split_3,by=c("show_id","title"))
new_data

write_xlsx(new_data,"C:\\Users\\HP\\Downloads\\netflix_titles.csv (1)\\merged_netflix.xlsx")
```

Merged dataset:

2	show_id	type	title	director	cast	country	ate_add	ease_ye	rating	duration	listed_in	description										
3	8E+07	Movie	Norm of the North	Richard F. Alan	Maar	United States, India, South	Septemb	2019	TV-PG	90 min	Children &	Before planning an awesome wedding for his grandfather, a polar bear king must take back a stolen artifact from an evil archaeologist first.										
4	8E+07	Movie	#realityhigh	Fernando	Nesta Co	United States	Septemb	2017	TV-14	99 min	Comedies	When nerdy high schooler Dani finally attracts the interest of her longtime crush, she lands in the cross hairs of his ex, a social media celebrity.										
5	7E+07	Movie	Automata	Gabe	ibá Antonio E	Bulgaria, United States, S	Septemb	2014	R	110 min	Internatio	In a dystopian future, an insurance adjuster for a tech company investigates a robot killed for violating protocol and discovers a global conspiracy.										
6	8E+07	Movie	Fabrizio Copano: Solo	Rodrigo T	Fabrizio C	Chile	Septemb	2017	TV-MA	60 min	Stand-Up	Fabrizio Copano takes audience participation to the next level in this stand-up set while reflecting on sperm banks, family WhatsApp groups and more.										
7	7E+07	Movie	Good People	Henrik R.	James Fr.	United States, United King	Septemb	2014	R	90 min	Action &	A struggling couple can't believe their luck when they find a stash of money in the apartment of a neighbor who was recently murdered.										
8	7E+07	Movie	Kidnapping Mr. Heineke	Daniel Alf	Jim Sturg	Netherlands, Belgium, Un	Septemb	2015	R	95 min	Action &	When beer magnate Alfred "Freddy" Heineken is kidnapped in 1983, his abductors make the largest ransom demand in history.										
9	8E+07	Movie	Love	Gaspas N	Karl Glus	France, Belgium	Septemb	2015	NR	135 min	Cult Movie	A man in an unsatisfying marriage recalls the details of an intense past relationship with an ex-girlfriend when he gets word that she may be missing.										
10	8E+07	Movie	Manhattan Romance	Tom O'D	Tom O'D	United States	Septemb	2014	TV-14	98 min	Comedies	A filmmaker working on a documentary about love in modern Manhattan becomes personally entangled in the romantic lives of his subjects.										
11	8E+07	Movie	Moonwalkers	Antoine E	Ron Peir	France, Belgium	Septemb	2015	R	96 min	Action &	A brain-addled vet, a failing band manager and a Stanley Kubrick impersonator help the CIA construct an epic spoof by faking the 1969 moon landing.										
12	7E+07	Movie	Stonehearted Asylum	Brad And Kate	Bee United States	Septemb	2014	PG-13		113 min	Horror Mc	In 1939, a young doctor arrives at an asylum for an apprenticeship and becomes suspicious of his mentor's methods while falling for a female patient.										
13	8E+07	Movie	The Runner	Austin St.	Nicolas C	United States	Septemb	2015	R	90 min	Dramas	I A New Orleans politician finds his idealistic plans for rebuilding after a toxic oil spill unraveling thanks to a sex scandal.										
14	8E+07	Movie	6 Years	Hannah F.	Taisara F	United States	Septemb	2015	NR	80 min	Dramas	I As a volatile young couple who have been together for six years approach college graduation, unexpected career opportunities threaten their future.										
15	7E+07	Movie	Laddaland	Sopon S.	Thaisara S	Thailand	Septemb	2011	TV-MA	112 min	Horror Mc	I As a family moves into an upscale housing development, they encounter a series of paranormal events that drive them to the edge of insanity.										
16	8E+07	Movie	New Gen	Kevin R.	John Ka	China, Canada, United St	Septemb	2018	TV-PG	106 min	Children &	I When lonely Mai forms an unlikely bond with a top-secret robot, they embark on an intense, action-packed adventure to foil the plot of a vicious villain.										
17	8E+07	Movie	Sigma Busted is A Lot	Shawn			Septemb	2018	TV-14	96 min	Comedies	I After a bitter test pates a viral romance between a man and his popular teacher and a sweet jock falls for a pospicious cheerleader.										
18	7E+07	Movie	The Most Amazing	Frank R.	Paula M	Belgium, United Kingdom	Septemb	2018	TV-MA	102 min	Dramas	I In 1830, Paris, an actress falls for her gony dead scenes at the Grand Guignol Theater contends with a mysterious stalker and ghosts from her past.										
19	8E+07	Movie	Cécane et moi	Danielle T	Gulluams	Belgium, France	Septemb	2019	TV-14	114 min	Dramas	I This historical drama explores the long and often volatile friendship of painter Paul Cécane and writer Émile Zola, who first met as schoolboys.										
20	8E+07	Movie	Article 15	Anubhav	Ayushma	India	Septemb	2019	TV-MA	125 min	Dramas	I The grim realities of caste discrimination come to light as an entitled but upright city cop ventures into India's heartland to investigate a murder.										
21	8E+07	Movie	Ex Nagarani Enkai	Tharun B.	Vishvas	India	Septemb	2018	TV-14	133 min	Comedies	I In Goa and in desperate need of cash, four childhood friends get another shot at making their long-abandoned dreams of becoming filmmakers come true.										
22	8E+07	Movie	Hell and Back	Tom Giar	Nick Sw	United States	Septemb	2015	R	86 min	Action &	I When best friends break a blood oath, one of them is cast away to hell, and the other two must save him from the misfits of the underworld.										

5. Queries and outputs:

```
> df %>%
+   group_by(date_added) %>%
+   group_by(type)%>%
+   count(type,date_added)
# A tibble: 20 x 3
# Groups:   type [2]
  type    date_added    n
  <chr>   <chr>      <int>
1 Movie  2008          1
2 Movie  2009          2
3 Movie  2010          1
4 Movie  2011         13
5 Movie  2012          4
6 Movie  2013          6
7 Movie  2014         14
8 Movie  2015         47
9 Movie  2016        204
10 Movie 2017        778
11 Movie 2018       1122
12 Movie 2019       1347
13 Movie 2020        139
14 TV Show 2013          1
15 TV Show 2015          3
16 TV Show 2016          7
17 TV Show 2017         27
18 TV Show 2018         18
19 TV Show 2019         39
20 TV Show 2020          1
```

```
> df %>%
+   group_by(country) %>%
+   group_by(type)%>%
+   count(type,country)
# A tibble: 459 x 3
# Groups:   type [2]
  type    country    n
  <chr>   <chr>      <int>
1 Movie Argentina    25
2 Movie Argentina, Brazil, France, Poland, Germany, Denmark 1
3 Movie Argentina, Chile 1
4 Movie Argentina, Chile, Peru 1
5 Movie Argentina, France 1
6 Movie Argentina, France, Germany 1
7 Movie Argentina, Italy 1
8 Movie Argentina, Spain 5
9 Movie Argentina, United States 1
10 Movie Argentina, Uruguay, Serbia 1
# ... with 449 more rows
# i Use `print(n = ...)` to see more rows
```

```
Console Terminal x Background Jobs x
R 4.2.1 · C:/Users/HP/Downloads/netflix_titles.csv (1) ↗
> n<-df %>%
+   group_by(listed_in) %>%
+   count(listed_in)
> arrange(n,desc(n))
# A tibble: 296 × 2
# Groups:   listed_in [296]
  listed_in          n
  <chr>          <int>
1 Dramas, International Movies 237
2 Stand-Up Comedy 234
3 Dramas, Independent Movies, International Movies 184
4 Comedies, Dramas, International Movies 168
5 Documentaries 136
6 Children & Family Movies, Comedies 118
7 Comedies, International Movies 110
8 Dramas, International Movies, Romantic Movies 103
9 Action & Adventure, Dramas, International Movies 99
10 Comedies, International Movies, Romantic Movies 93
# ... with 286 more rows
# i Use `print(n = ...)` to see more rows
```

```
R 4.2.1 · C:/Users/HP/Downloads/netflix_titles.csv (1) ↗
> df %>%
+   group_by(type) %>%
+   count(type)
# A tibble: 2 × 2
# Groups:   type [2]
  type          n
  <chr>    <int>
1 Movie  3678
2 TV Show   96
```

```
R 4.2.1 · C:/Users/HP/Downloads/netflix_titles.csv (1) ↗
> df %>%
+   group_by(rating)%>%
+   count(rating)
# A tibble: 14 × 2
# Groups:   rating [14]
  rating          n
  <chr>    <int>
1 G         35
2 NC-17      1
3 NR        175
4 PG        176
5 PG-13     278
6 R         501
7 TV-14     917
8 TV-G       54
9 TV-MA    1189
10 TV-PG     358
11 TV-Y       24
12 TV-Y7      48
13 TV-Y7-FV   11
14 UR         7
```

```
> new<-df %>%
+   group_by(duration)%>%
+   count(type)
> subset(new,new$type=="TV Show")
# A tibble: 10 x 3
# Groups:   duration [10]
   duration    type      n
   <chr>      <chr>  <int>
1 1 Season    TV Show    65
2 14 Seasons  TV Show     1
3 2 Seasons  TV Show     8
4 3 Seasons  TV Show     4
5 4 Seasons  TV Show     6
6 5 Seasons  TV Show     4
7 6 Seasons  TV Show     2
8 7 Seasons  TV Show     3
9 8 Seasons  TV Show     2
10 9 Seasons  TV Show     1
```