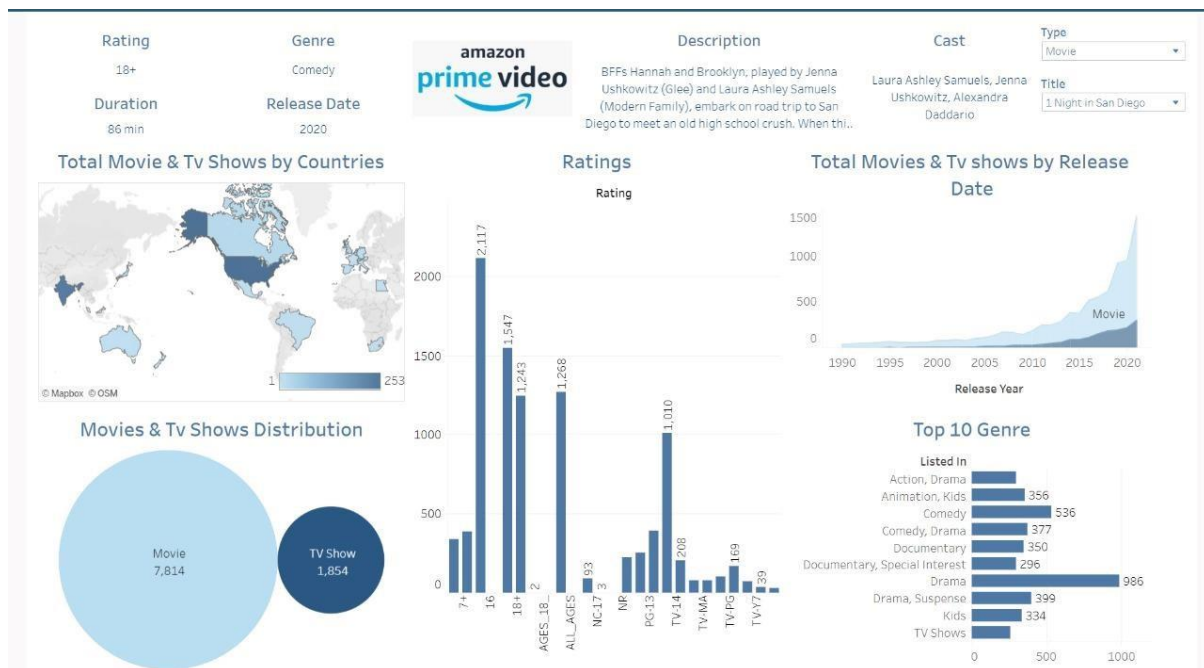


- Prepare a Dashboard using some dataset and Tableau software.



- Raw Datasets:

	A	B	C	D	E	F	G	H	I	J	K
1	show_id	type	title								
2	s1	Movie	The Grand Seduction								
3	s2	Movie	Take Care Good Night								
4	s3	Movie	Secrets of Deception								
5	s4	Movie	Pink: Staying True								
6	s5	Movie	Monster Maker								
7	s6	Movie	Living With Dinosaurs								
8	s7	Movie	Hired Gun								
9	s8	Movie	Grease Live!								
10	s9	Movie	Global Meltdown								
11	s10	Movie	David's Mother								
12	s11	Movie	Forest Fairies								
13	s12	Movie	Take Care								
14	s13	Movie	The Night Eats The World								
15	s14	Movie	Resilencia								
16	s15	Movie	Elon Musk: The Real Life Iron Man								
17	s16	Movie	Summer '03								
18	s17	Movie	Zoombies								
19	s18	TV Show	Zoo Babies								
20	s19	TV Show	ZoÃ Coombs Marr: Bossy Bottom								
21	s20	Movie	Zoe								

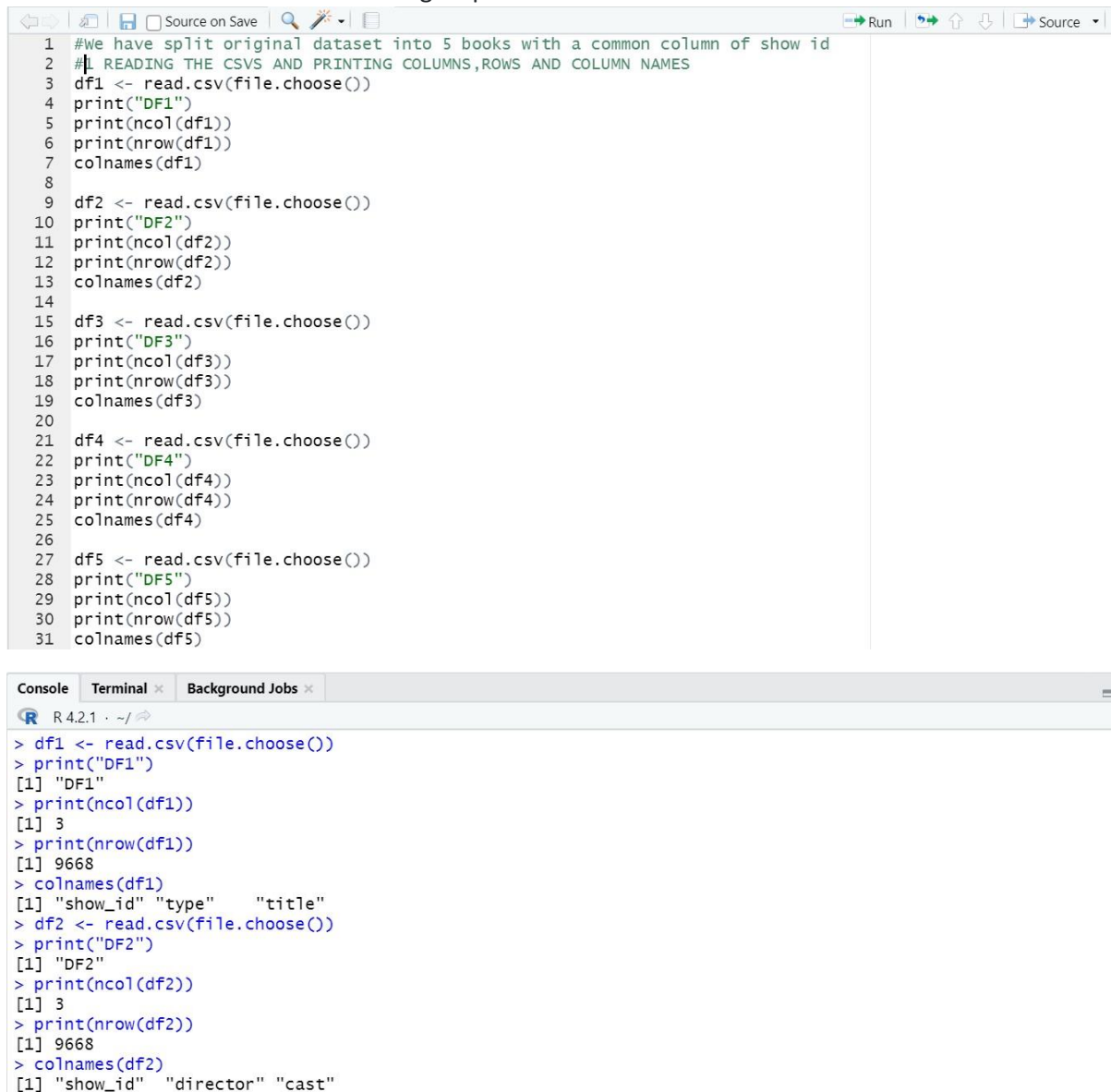
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	show_id	director	cast																
2	s1	Don McKella	Brendan Gleeson, Taylor Kitsch, Gordon Pinsent																
3	s2	Girish Joshi	Mahesh Manjrekar, Abhay Mahajan, Sachin Khedekar																
4	s3	Josh Webber	Tom Sizemore, Lorenzo Lamas, Robert LaSardo, Richard Jones, Yancey Arias, Noel Gugliemi																
5	s4	Sonia Ander	Interviews with: Pink, Adele, Beyoncé, Britney Spears, Christina Aguilera, more!																
6	s5	Giles Foster	Harry Dean Stanton, Kieran O'Brien, George Costigan, Amanda Dickinson, Alison Steadman, Grant Bardsley, Bill Moody, Matthew Scurlfield																
7	s6	Paul Weiland	Gregory Chisholm, Juliet Stevenson, Brian Henson, Michael Maloney																
8	s7	Fran Strine	Alice Cooper, Liberty DeVitto, Ray Parker Jr., David Foster, Jason Hook, Steve Vai, Phil X, Rudy Sarzo, Jay Graydon, Rob Zombie, Kenny Aronoff, Steve Lukather, Justin Derrico, Eva G																
9	s8	Thomas Kail	Julianne Hough, Aaron Tveit, Vanessa Hudgens, Keke Palmer, Carly Rae Jepsen, Mario Lopez, Carlos PenaVega, Kether Donohue, Jordan Fisher, David Del Rio, Andrew Call, Wende																
10	s9	Daniel Gilbo	Michael Paré, Leanne Khol Young, Patrick J. MacEachern																
11	s10	Robert Allan Kirstie Alley	Sam Waterston, Stockard Channing																
12	s11	Justin G. Dyc	Emily Wilder, Adrian Cowan, Gary Mckenzie, Jeremy Ninaber, Brenda Somers, Brian Carleton, Lora Burke, Winny Clarke, Mercedes Morris, Rebecca Perry, Emily Agard, Graham G																
13	s12	Liz Tuccillo	Leslie Bibb, Kevin Curtis, Nadia Dajani																
14	s13	Dominique F Anders	Danielsen Lie, Golshifteh Farahani, Denis Lavant, Sigrid Bouaziz, David Kammenos																
15	s14	Jep Barcelon	Rafinha Alcantara, Marc-André Ter Stegen, Sergi Roberto, Dr. Ramon Cugat, Mazinho, Xavi Arruebo, Celia Ferreira Da Silva, Ángel Lapuebla, Javier Enríquez, Thiago Alcantara,																
16	s15	Sonia Ander	Elon Musk, Per Wimmer, Julie Anderson-Ankenbrandt, Cary Cooper																
17	s16	Becca Gleason	Joey King, Jack Kilmer, Andrea Savage, Paul Scheer, June Squibb, Erin Darke, Stephen Ruffin, Kelly Lamor Wilson, Logan Medina, Travis James, Bill Eudaly, Elise Duquette																
18	s17	Glenn Miller	Marcus Anderson, Kaiwi Lyman, Andrew Asper																
19	s18		Narrator - Gillian Barlett																
20	s19		Zoe Coombs Marr																
21	s20	Drake Doren	Ewan McGregor, Léa Seydoux, Theo James, Miranda Otto, Rashida Jones, Christina Aguilera, Matthew Gray Gubler, Anthony Shim																
22	s21																		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	show_id	country	date_added	release_year												
2	s1	Canada	March 30, 2021	2014												
3	s2	India	March 30, 2021	2018												
4	s3	United States	March 30, 2021	2017												
5	s4	United States	March 30, 2021	2014												
6	s5	United Kingdom	March 30, 2021	1989												
7	s6	United Kingdom	March 30, 2021	1989												
8	s7	United States	March 30, 2021	2017												
9	s8	United States	March 30, 2021	2016												
10	s9	Canada	March 30, 2021	2017												
11	s10	United States	April 1, 2021	1994												
12	s11	Canada	April 4, 2021	2016												
13	s12	United States	April 10, 2021	2014												
14	s13	France	April 17, 2021	2018												
15	s14	Spain	April 24, 2021	2020												
16	s15	United Kingdom	May 2, 2021	2018												
17	s16	United States	June 3, 2021	2019												
18	s17			2016												
19	s18			2008												
20	s19			2020												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	C
1	show_id	rating	duration	listed_in													
2	s1		113 min	Comedy, Drama													
3	s2	13+	110 min	Drama, International													
4	s3		74 min	Action, Drama, Suspense													
5	s4		69 min	Documentary													
6	s5		45 min	Drama, Fantasy													
7	s6		52 min	Fantasy, Kids													
8	s7		98 min	Documentary, Special Interest													
9	s8		131 min	Comedy													
10	s9		87 min	Action, Science Fiction, Suspense													
11	s10		92 min	Drama													
12	s11		88 min	Adventure, Kids													
13	s12		93 min	Comedy													
14	s13		94 min	Horror, Suspense													
15	s14		46 min	Documentary, Sports													
16	s15		74 min	Documentary													
17	s16		96 min	Comedy, Drama													
18	s17	13+	87 min	Horror, Science Fiction													
19	s18	ALL	1 Season	Kids, Special Interest													
20	s19	18+	1 Season	Comedy, Talk Show and Variety													

	A	B
1	show_id	description
2	s1	A small fishing village must procure a local doctor to secure a lucrative business contract. When unlikely candidate and big city doctor Paul Lewis lands in their lap for a trial residence, the townsfolk rally to support him.
3	s2	A Metro Family decides to fight a Cyber Criminal threatening their stability and pride.
4	s3	After a man discovers his wife is cheating on him with a neighborhood kid he goes down a furious path of self-destruction.
5	s4	Pink breaks the mold once again, bringing her career to a new level in 2013 with a world tour that entertains unlike ever before! Get inside access to "the girl who got the party started" with exclusive interviews.
6	s5	Teenage Matt Banting wants to work with a famous but eccentric creature/special effects man named Chancey Bellows. He gets more than he bargained for when one of the creatures, the giant dragon, escapes.
7	s6	The story unfolds in an English seaside town, where Dom, an only child, faces the imminent arrival of a new sibling, and subsequently diminished attention from his mother. A stuffed toy dinosaur named Dom is the only friend he has.
8	s7	They are the "First Call, A-list" musicians, just 20 feet from stardom, yet rarely receive credit for their work. The "hired gun" community lives and breathes music, and for the first time, share their incredible stories.
9	s8	This honest, uncompromising comedy chronicles the war stories and sexual misadventures of a tight circle of lovers and friends fighting to get their acts together, for better or worse.
10	s9	A helicopter pilot and an environmental scientist lead a exodus of survivors in a search for a safe haven after a catastrophic tectonic event causes the crust of the earth to break apart.
11	s10	Sally Goodson is a devoted mother to her autistic son David. Abandoned by her husband, Sally has managed to keep her son out of "the System", until a social worker comes along.
12	s11	Amanda stumbles upon a hidden village of fairies in the forest. They help her thwart a scheming land developer's plan to trick her mother into selling the family inn.
13	s12	When a car crash leaves Frannie immobilized, she is brushed off by everyone she can count on. With nowhere else to turn, Frannie reluctantly calls her ex, Devon, for help. It isn't long before old wounds are reopened.
14	s13	After waking up in an apartment the night after a raging party, Sam comes face to face with his new reality, an army of zombies have invaded the streets of Paris and he is the lone survivor. Petrified with a mission to survive, Sam must find a way to escape the city.
15	s14	The documentary follows the midlife crisis of a man who opens his home for the cameras to film every moment, even allowing the cameras to film him in the most intimate of moments.
16	s15	Discover the meteoric rise of Elon Musk, the man who is transforming the way we think about travel technology through electric cars, the Hyperloop, and revolutionary ideas on how we live through artificial intelligence.
17	s16	Summer '03 is the hilarious story of 16-year-old Jamie and her family, who are shocked after her calculating grandmother unveils an array of family secrets on her deathbed, one involving religion, the other involving love.
18	s17	When a strange virus quickly spreads through a safari park and turns all the zoo animals undead, those left in the park must stop the creatures before they escape and zombieify the whole city.
19	s18	A heart warming and inspiring series that welcomes the arrival of new members of the animal kingdom in Zoo's around the world, as well as showcasing endangered species being born in captivity, 'Zoo's' is a must-watch.
20	s19	Zoe Coombs Marr has been on hiatus. Sort of. For six years, she won stacks of awards and acclaim as a hack comic with a neckbeard called Dave. Whatever. She's scraped off the neckbeard and is back.
21	s20	ZOE tells a tale of forbidden love between an engineer and a robot. ZOE (Léa Seydoux) and COLE (Ewan McGregor) are colleagues and veiled lovers at a lab working to perfect romantic relationships.
22	s21	Chris and Martin Kratt bring their enthusiasm for animals to the new school cat.

- Screenshots from data refining steps in R:



The screenshot displays the RStudio environment. The top pane shows a script with R code for reading five CSV files into data frames (df1 to df5). The code includes comments and print statements for each data frame. The bottom pane shows the console output for the first two data frames, df1 and df2, showing their dimensions and column names.

```
1 #We have split original dataset into 5 books with a common column of show id
2 #1. READING THE CSVs AND PRINTING COLUMNS, ROWS AND COLUMN NAMES
3 df1 <- read.csv(file.choose())
4 print("DF1")
5 print(ncol(df1))
6 print(nrow(df1))
7 colnames(df1)
8
9 df2 <- read.csv(file.choose())
10 print("DF2")
11 print(ncol(df2))
12 print(nrow(df2))
13 colnames(df2)
14
15 df3 <- read.csv(file.choose())
16 print("DF3")
17 print(ncol(df3))
18 print(nrow(df3))
19 colnames(df3)
20
21 df4 <- read.csv(file.choose())
22 print("DF4")
23 print(ncol(df4))
24 print(nrow(df4))
25 colnames(df4)
26
27 df5 <- read.csv(file.choose())
28 print("DF5")
29 print(ncol(df5))
30 print(nrow(df5))
31 colnames(df5)
```

Console

```
> df1 <- read.csv(file.choose())
> print("DF1")
[1] "DF1"
> print(ncol(df1))
[1] 3
> print(nrow(df1))
[1] 9668
> colnames(df1)
[1] "show_id" "type" "title"
> df2 <- read.csv(file.choose())
> print("DF2")
[1] "DF2"
> print(ncol(df2))
[1] 3
> print(nrow(df2))
[1] 9668
> colnames(df2)
[1] "show_id" "director" "cast"
```

```

Console Terminal Background Jobs
R 4.2.1 ~ /
[1] "show_id" "director" "cast"
> df3 <- read.csv(file.choose())
> print("DF3")
[1] "DF3"
> print(ncol(df3))
[1] 4
> print(nrow(df3))
[1] 9668
> colnames(df3)
[1] "show_id" "country" "date_added" "release_year"
> df4 <- read.csv(file.choose())
> print("DF4")
[1] "DF4"
> print(ncol(df4))
[1] 4
> print(nrow(df4))
[1] 9668
> colnames(df4)
[1] "show_id" "rating" "duration" "listed_in"
> df5 <- read.csv(file.choose())
> print("DF5")
[1] "DF5"
> print(ncol(df5))
[1] 2
> print(nrow(df5))
[1] 9668
> colnames(df5)
[1] "show_id" "description"
>

```

```

Source on Save Run Source
33 #2 - Deleting columns from all 5 dataframes that we dont want
34 #df1
35 df1 = df1[c("show_id", "type", "title")]
36 colnames(df1)
37 colnames(df1) <- c("ShowId", "Type", "Title")
38
39 #df2
40 df2 = df2[c("cast")]
41 colnames(df2)
42 colnames(df2) <- c("Cast")
43 #df3
44 df3 = df3[c("country", "release_year")]
45 colnames(df3)
46 colnames(df3) <- c("Country", "ReleaseYear")
47 #df4
48 df4 = df4[c("show_id", "rating", "duration", "listed_in")]
49 colnames(df4)
50 colnames(df4) <- c("ShowId", "Rating", "Duration", "listed_in")
51 #df5
52 df5 = df5[c("show_id", "description")]
53 colnames(df5)
54 colnames(df5) <- c("ShowId", "Description")

```



```
Console Terminal Background Jobs
R 4.2.1 · ~/

> #2 - Deleting columns from all 5 dataframes that we dont want
> #df1
> df1 = df1[c("show_id","type","title")]
> colnames(df1)
[1] "show_id" "type" "title"
> colnames(df1)<-c("ShowId","Type","Title")
>
> #df2
> df2 = df2[c("cast")]
> colnames(df2)
[1] "cast"
> colnames(df2)<-c("Cast")
> #df3
> df3 = df3[c("country", "release_year")]
> colnames(df3)
[1] "country" "release_year"
> colnames(df3)<-c("Country","ReleaseYear")
> #df4
> df4 = df4[c("show_id", "rating", "duration", "listed_in")]
> colnames(df4)
[1] "show_id" "rating" "duration" "listed_in"
> colnames(df4)<-c("ShowId","Rating","Duration","listed_in")
> #df5
> df5 = df5[c("show_id", "description")]
> colnames(df5)
[1] "show_id" "description"
> colnames(df5)<-c("ShowId","Description")
>

56 #3 To cbind all 3 tables together and other 2 together[Joined in tableau]
57 Data1<-cbind(df1,df2,df3)
58 Data2<-cbind(df4,df5)
59 colnames(Data1)#to check if correctly cbind
60 colnames(Data2)
```

```
Console Terminal Background Jobs
R 4.2.1 · ~/

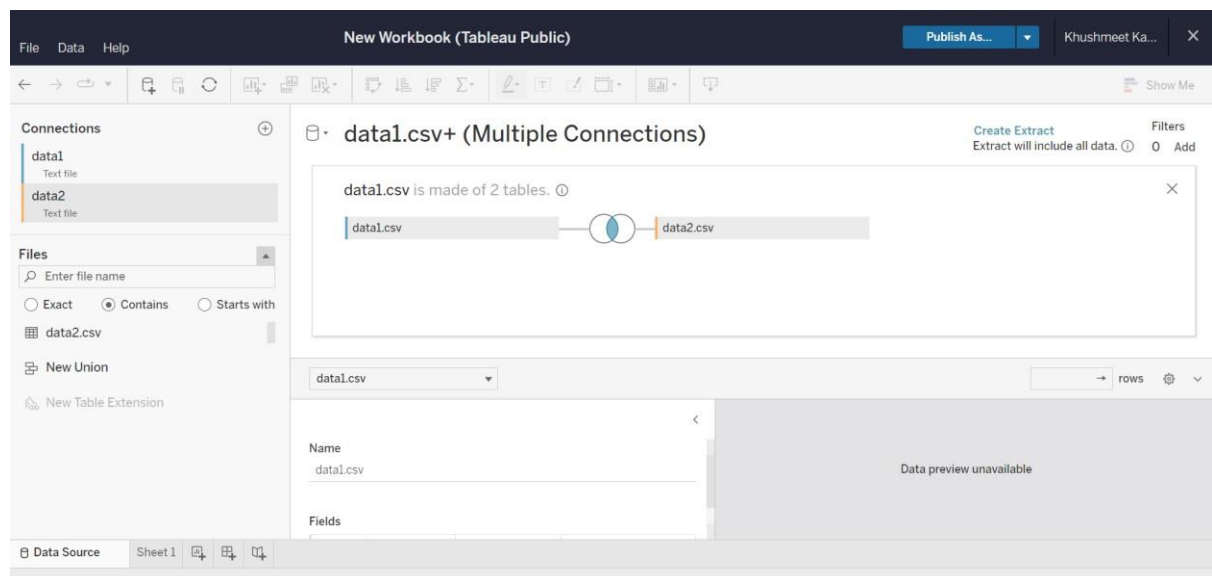
> #3 To cbind all 3 tables together and other 2 together[Joined in tableau]
> Data1<-cbind(df1,df2,df3)
> Data2<-cbind(df4,df5)
> colnames(Data1)#to check if correctly cbind
[1] "ShowId" "Type" "Title" "Cast" "Country" "ReleaseYear"
> colnames(Data2)
[1] "ShowId" "Rating" "Duration" "listed_in" "ShowId" "Description"
>

61
62 #4 NA VALUES IN DATA
63 sum(is.na(Data1))
64 sum(is.na(Data2))
65
66 #5 EXPORTING DATA IN CSV
67 write.csv(Data1,"C:/Users/Gurkirpal Singh/Downloads/archive/data1", row.names = FALSE)
68 write.csv(Data2,"C:/Users/Gurkirpal Singh/Downloads/archive/data2", row.names = FALSE)
69
70
```

```
Console Terminal Background Jobs
R 4.2.1 · ~/

> #4 NA VALUES IN DATA
> sum(is.na(Data1))
[1] 0
> sum(is.na(Data2))
[1] 0
>
> #5 EXPORTING DATA IN CSV
> write.csv(Data1,"C:/Users/Gurkirpal Singh/Downloads/archive/data1", row.names = FALSE)
> write.csv(Data2,"C:/Users/Gurkirpal Singh/Downloads/archive/data2", row.names = FALSE)
>
```

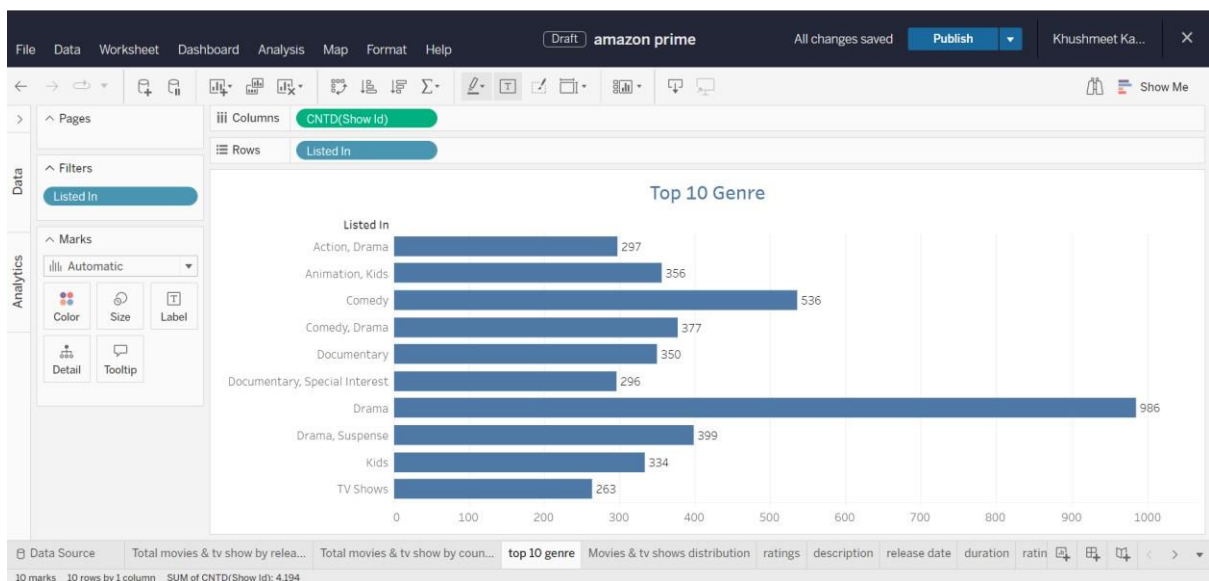
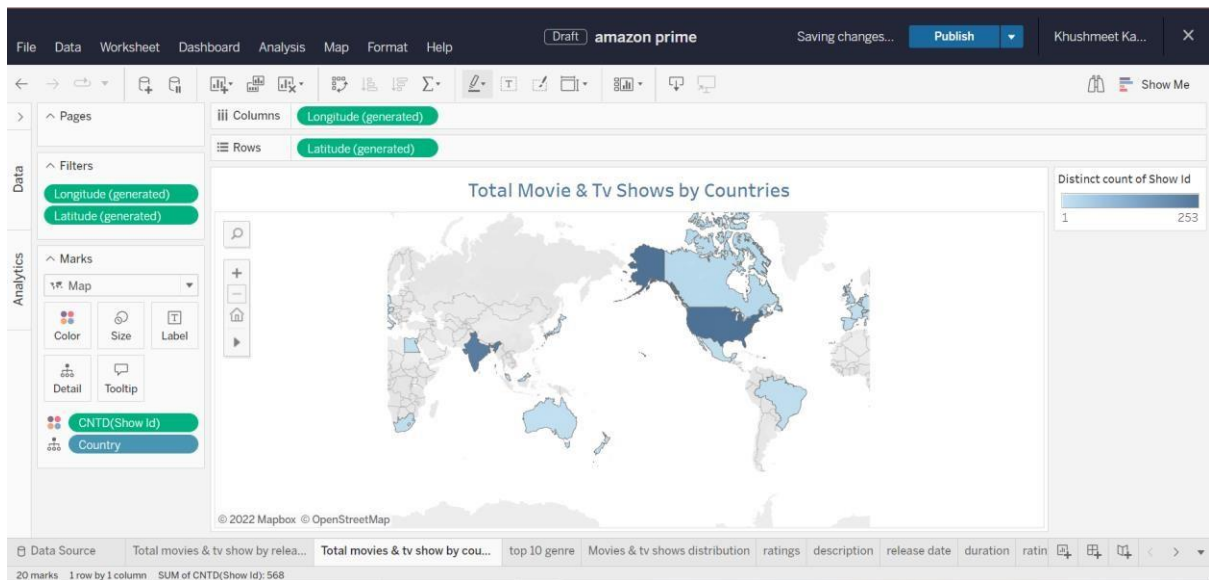
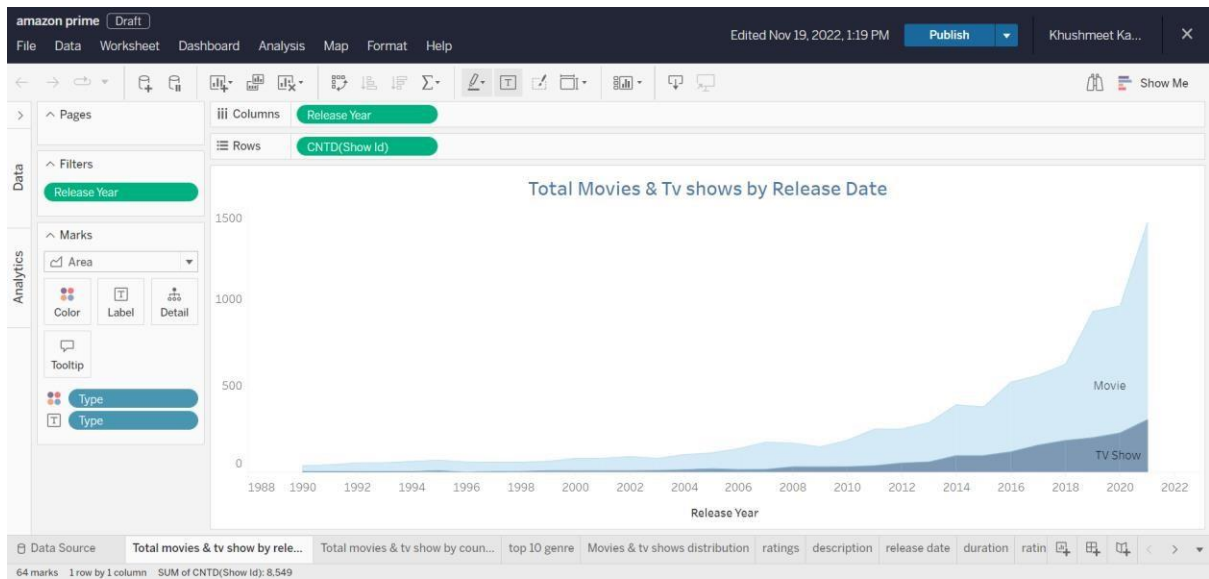
Here we are joining the data1 and data2 in tableau:

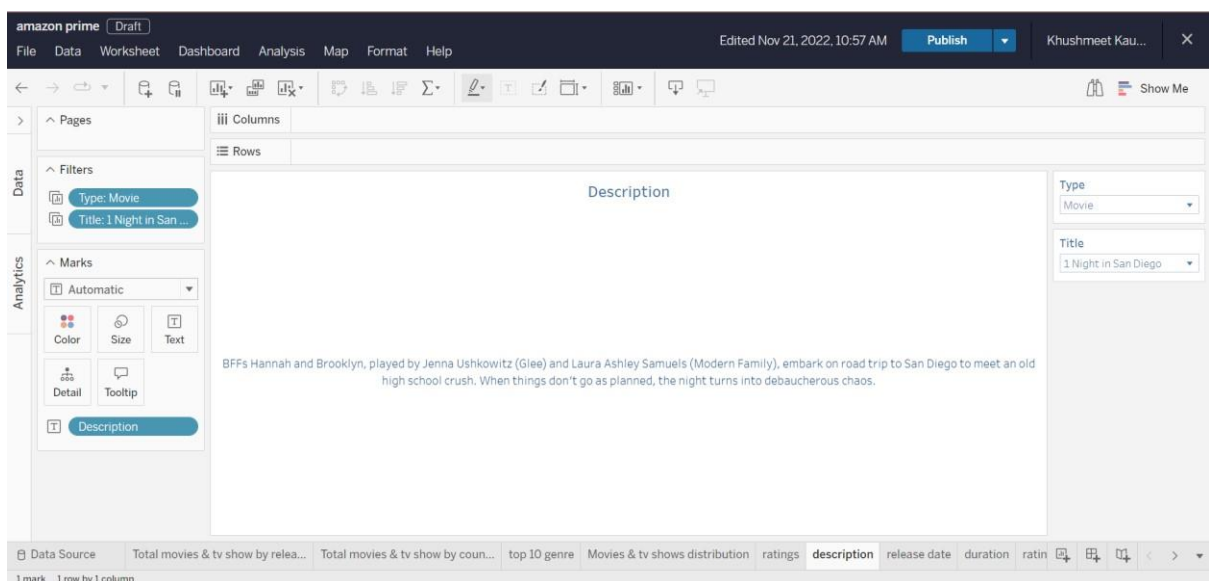
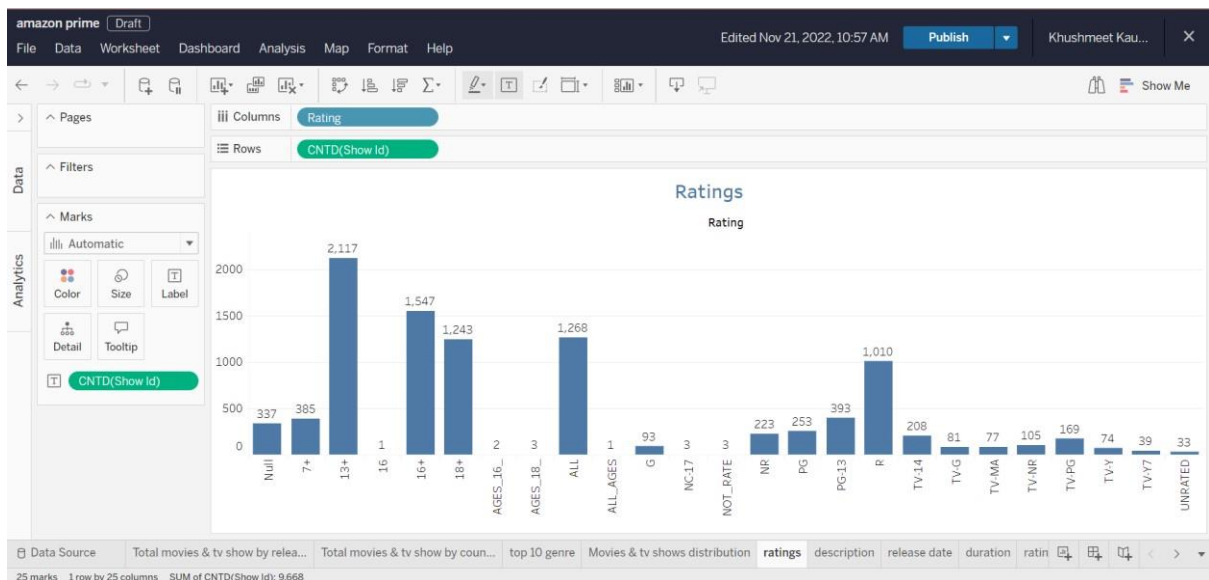
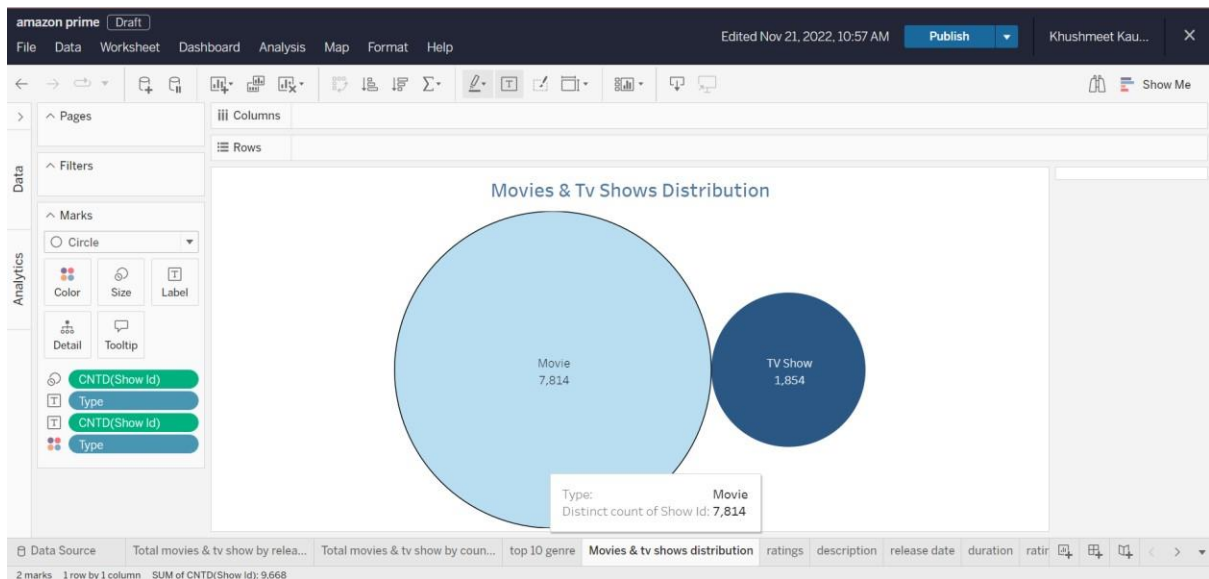


- Refined Dataset:

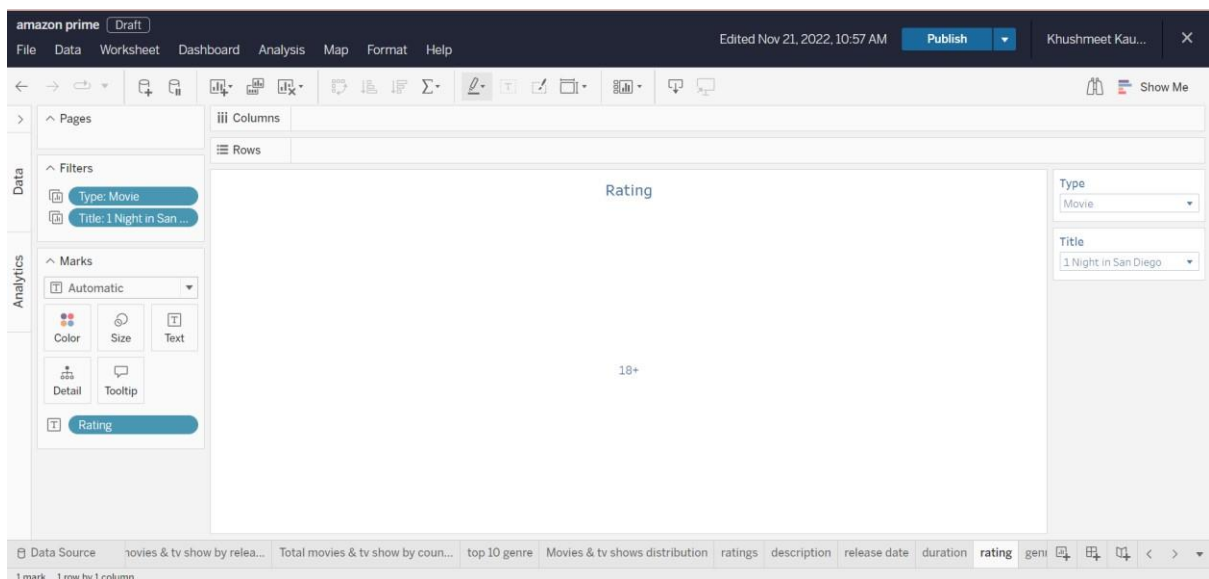
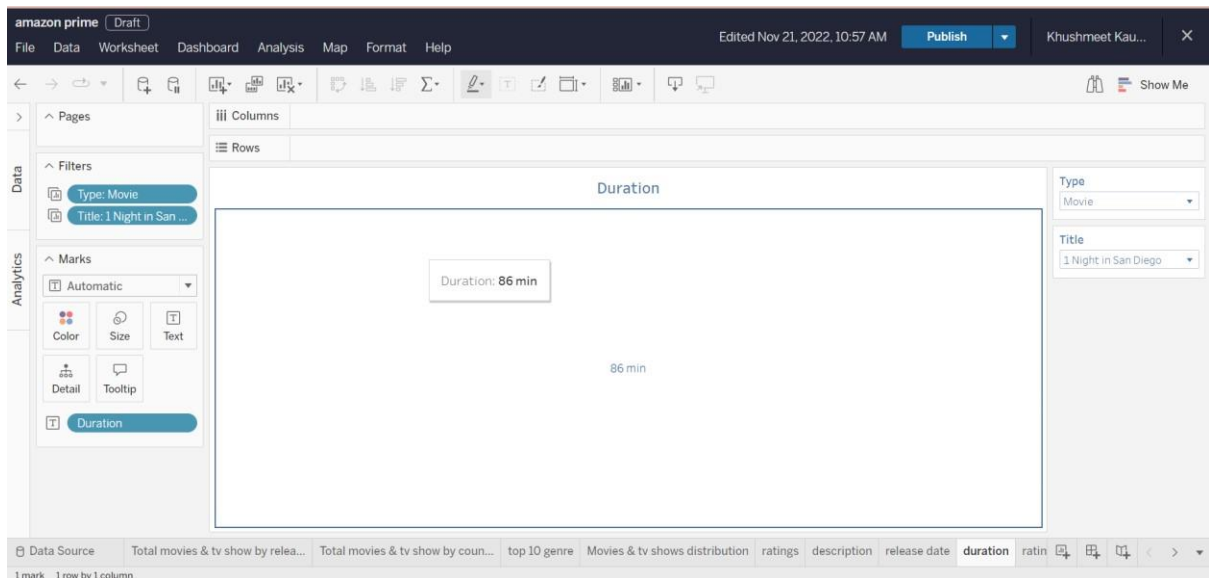
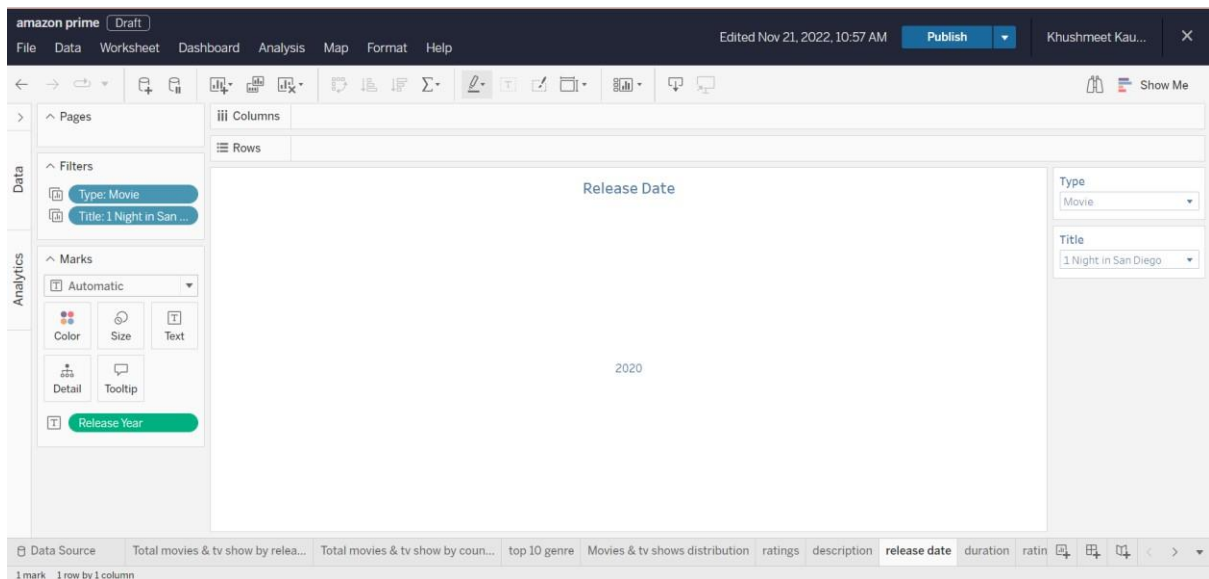
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Showid	Type	Title	Cast	Country	ReleaseYear	Rating	Duration	listed_in	Description								
2	s1	Movie	The Grand S	Brendan Gle	Canada	2014		113 min	Comedy, Dr	A small fishing village must procure a local doctor to secure a lucrative business contract. When unlik								
3	s2	Movie	Take Care G	Maheesh Mar	India	2018	13+	110 min	Drama, Inter	A Metro Family decides to fight a Cyber Criminal threatening their stability and pride.								
4	s3	Movie	Secrets of De	Tom Sizemo	United State	2017		74 min	Action, Dran	After a man discovers his wife is cheating on him with a neighborhood kid he goes down a furious pa								
5	s4	Movie	Pink: Stayin	Interviews w	United State	2014		69 min	Documentar	Pink breaks the mold once again, bringing her career to a new level in 2013 with a world tour that er								
6	s5	Movie	Monster Ma	Harry Dean	United Kingd	1989		45 min	Drama, Fant	Teenage Matt Banting wants to work with a famous but eccentric creature/special effects man name								
7	s6	Movie	Living With	I Gregory Chis	United Kingd	1989		52 min	Fantasy, Kid	The story unfolds in a an English seaside town, where Dom, an only child, faces the imminent arrival								
8	s7	Movie	Hired Gun	Alice Cooper	United State	2017		98 min	Documentar	They are the "First Call, A-list" musicians, just 20 feet from stardom, yet rarely receive credit for their								
9	s8	Movie	Grease Live!	Julianne Ho	United State	2016		131 min	Comedy	This honest, uncompromising comedy chronicles the war stories and sexual misadventures of a tight								
10	s9	Movie	Global Melt	Michael Par	Canada	2017		87 min	Action, Scier	A helicopter pilot and an environmental scientist lead a exodus of survivors in a search for a safe hav								
11	s10	Movie	David's Motl	Kirstie Alley	United State	1994		92 min	Drama	Sally Goodson is a devoted mother to her autistic son David. Abandoned by her husband, Sally has m								
12	s11	Movie	Forest Fairie	Emily Wilder	Canada	2016		88 min	Adventure, K	Amanda stumbles upon a hidden village of fairies in the forest. They help her thwart a scheming land								
13	s12	Movie	Take Care	Leslie Bibb,	United State	2014		93 min	Comedy	When a car crash leaves Frannie immobilized, she is brushed off by everyone she can count on. With								
14	s13	Movie	The Night Ea	Anders Dani	France	2018		94 min	Horror, Susp	After waking up in an apartment the night after a raging party, Sam comes face to face with his new								
15	s14	Movie	Resilencia	Rafinha Alca	Spain	2020		46 min	Documentar	The documentary follows the midfielder's everyday life for six months. It's a sincere portrayal								
16	s15	Movie	Elon Musk: T	Elon Musk, F	United Kingd	2018		74 min	Documentar	Discover the meteoric rise of Elon Musk, the man who is transforming the way we think about travel								
17	s16	Movie	Summer '03	Joey King, Ja	United State	2019		96 min	Comedy, Dr	Summer '03 is the hilarious story of 16-year-old Jamie and her family, who are shocked after her calc								
18	s17	Movie	Zoombies	Marcus Anderson,	Kaiwi I	2016	13+	87 min	Horror, Scier	When a strange virus quickly spreads through a safari park and turns all the zoo animals undead, tho								
19	s18	TV Show	Zoo Babies	Narrator - Gillian	Barlett	2008	ALL	1 Season	Kids, Special	A heart warming and inspiring series that welcomes the arrival of new members of the animal kindc								
20	s19	TV Show	ZoÃ Coom	ZoÃ Coom	Coomb	Marr	2020	18+	1 Season	Comedy, Tal	ZoÃ Coomb Marr has been on hiatus. Sort of. For six years, she won stacks of awards and acclaim z							
21	s20	Movie	Zoe	Ewan McGreg	or, LÃa Se	2018	R	104 min	Science Ficti	ZOE tells a tale of forbidden love between an engineer and a robot. ZOE (LÃa Seydoux) and COLE (E								
22	s21	TV Show	Zoboomafoo			2001	TV-Y	1 Season	Kids	Chris and Martin Kratt bring their enthusiasm for animals to the pre-school set.								
23	s22	TV Show	Zo Zo Zombi	Alex Cazares,	Ben Diskin,	2020	TV-Y7	1 Season	Action, Anim	Zo Zo Zombie is our undead hero who, with his best [human] friend Isamu, is just trying to do some g								

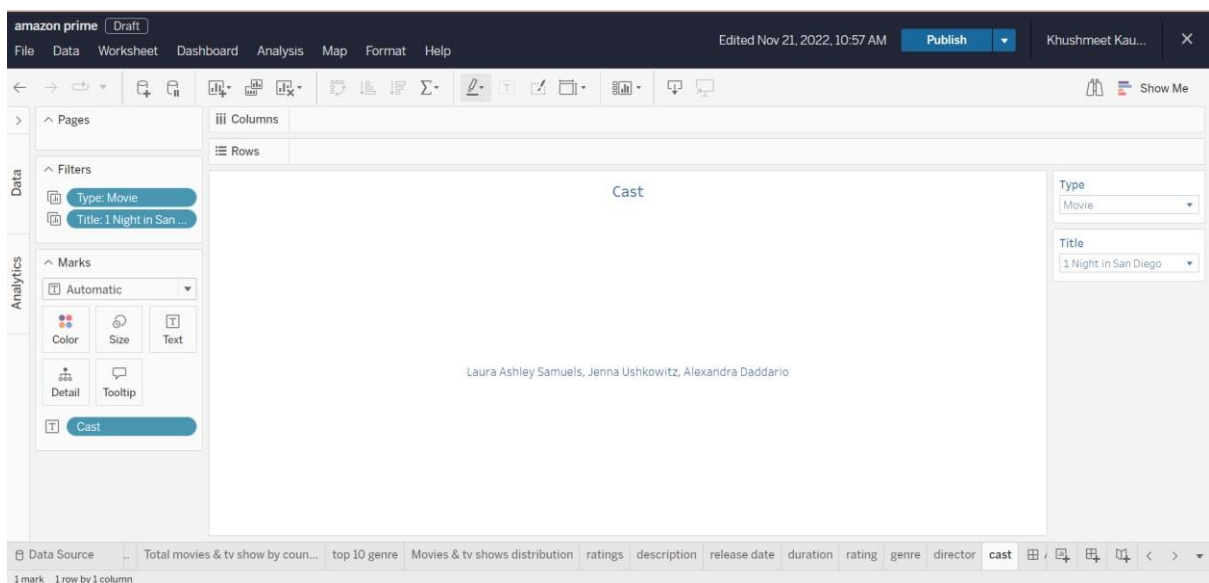
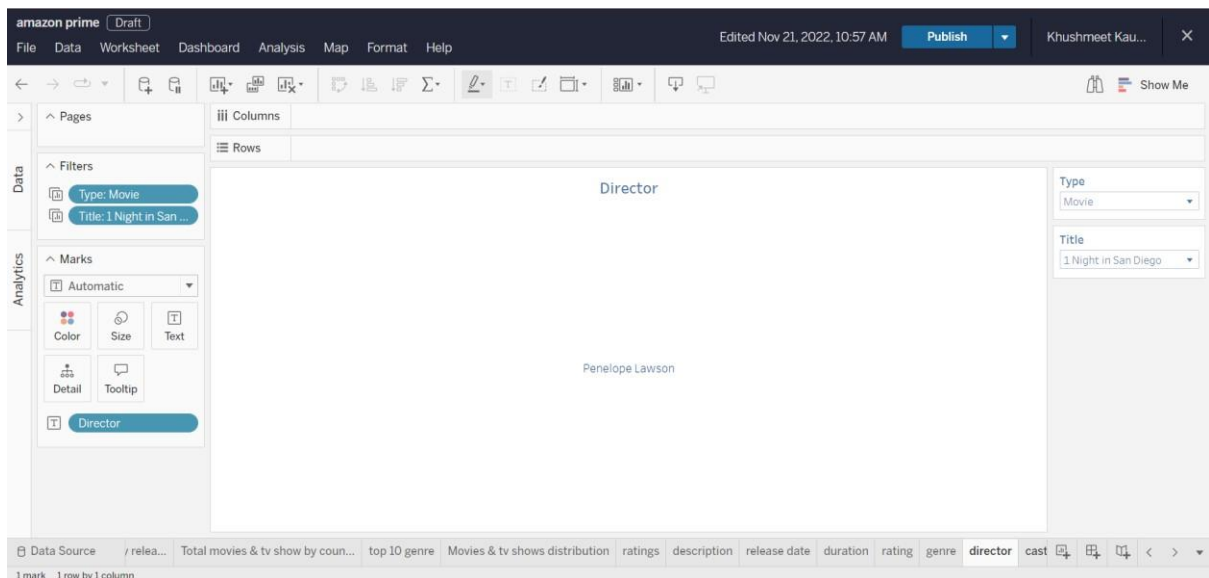
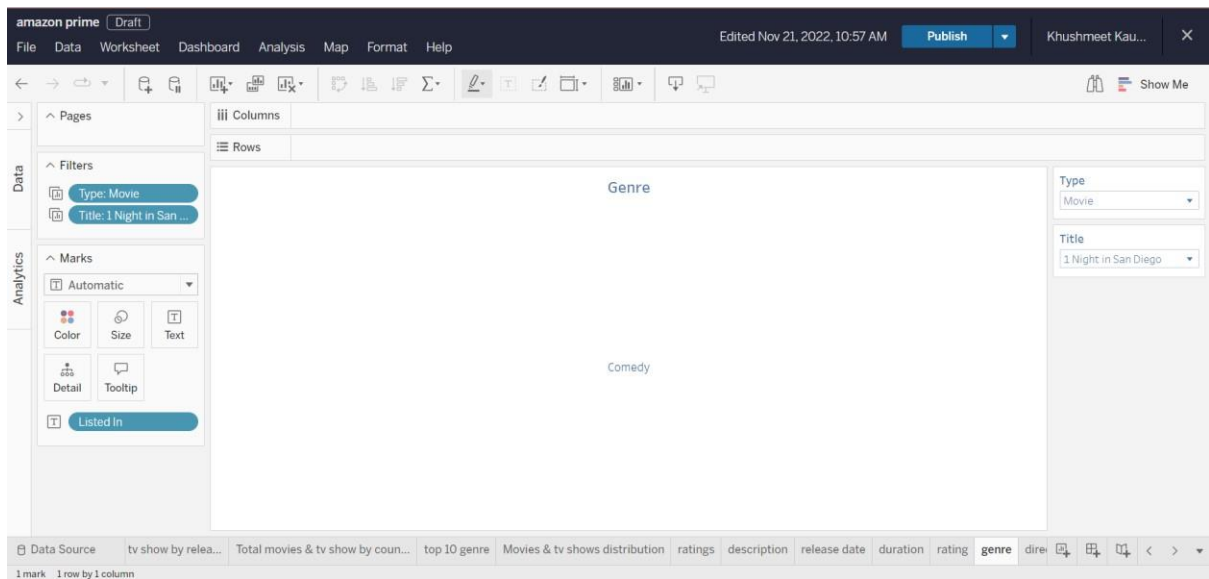
- Preparing dashboard:

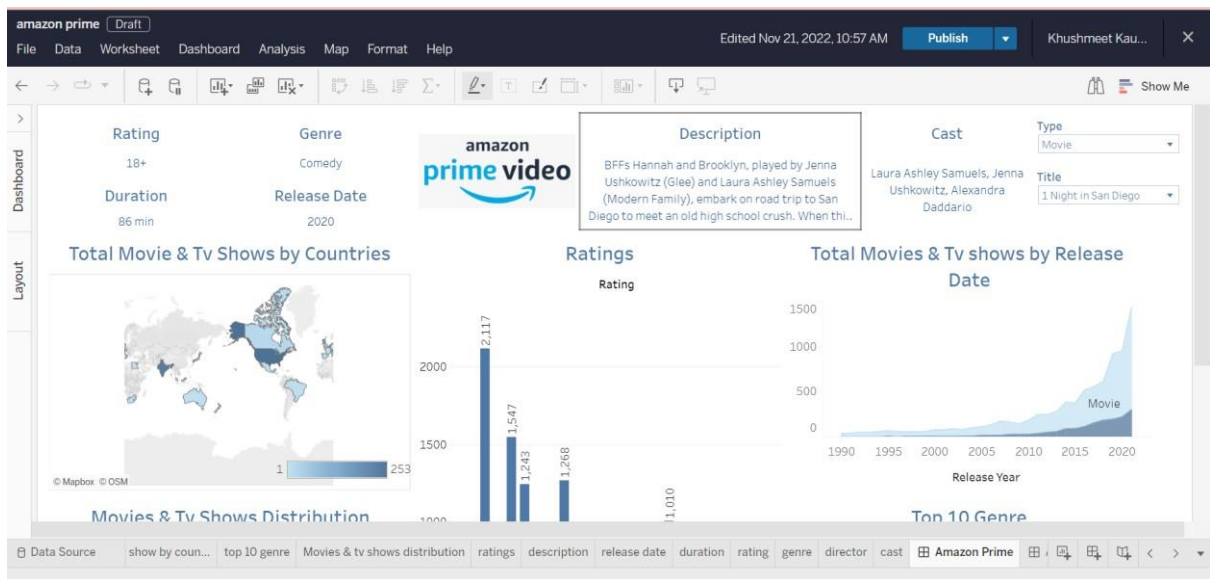












**If you change the title from the top right and the rating, duration, genre, release date, description and cast will change in accordance to the corresponding title.**