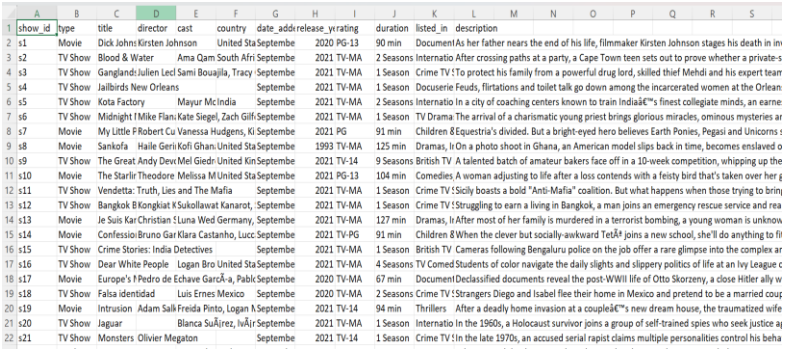
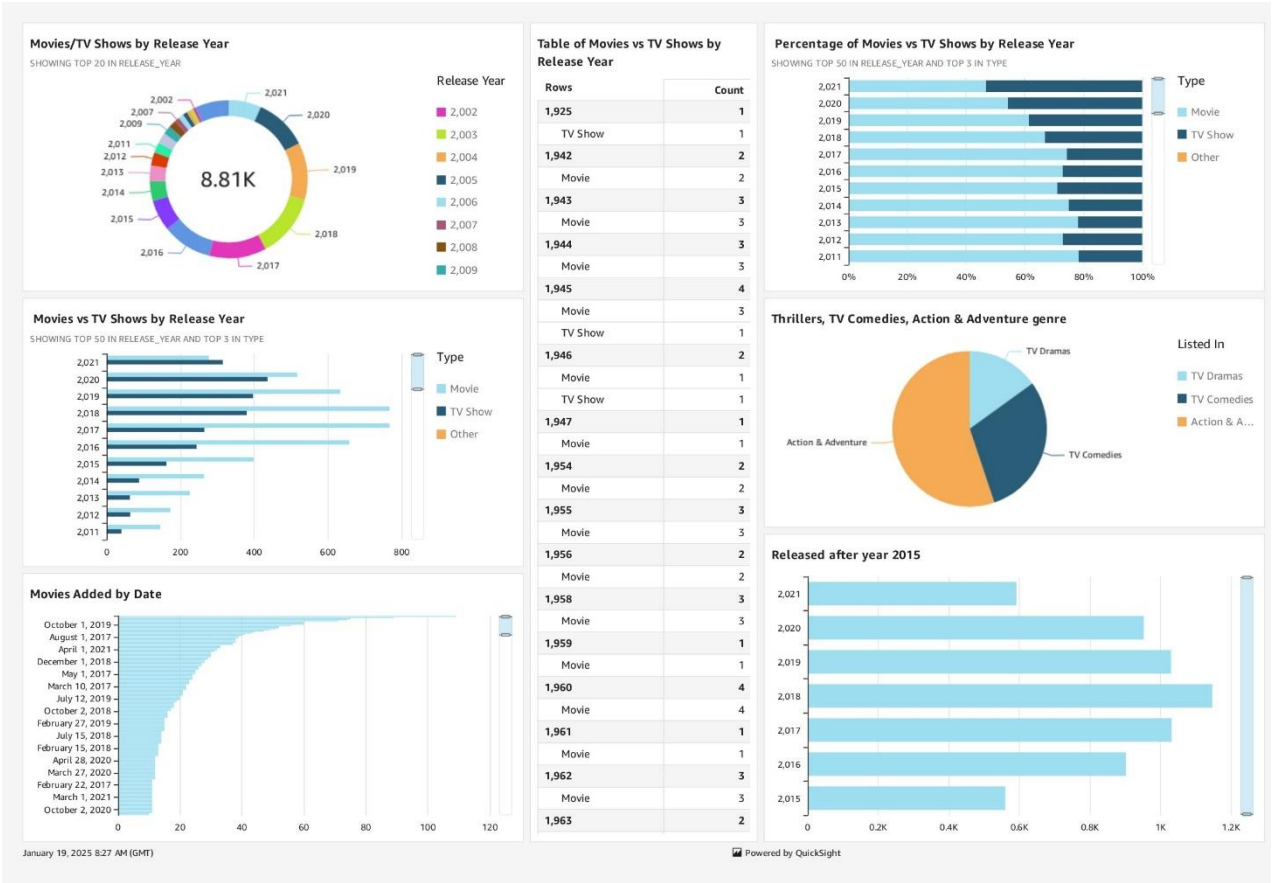
Visualize Netflix data with Amazon QuickSight

-AnujanGovindasamy



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	show_id	type	title	director	cast	country	date_add	release_yr	rating	duration	listed_in	description							
2	s1	Movie	Dick Johns	Kirsten Johnson		United Sta	September	2020	PG-13	90 min	Document	As her father nears the end of his life, filmmaker Kirsten Johnson stages his death in in							
3	s2	TV Show	Blood & Water		Ama Qam	South Afri	September	2021	TV-MA	2 Seasons	Internatio	After crossing paths at a party, a Cape Town teen sets out to prove whether a private-s							
4	s3	TV Show	Ganglands	Julien Lecl	Sami Bouajila, Tracy		September	2021	TV-MA	1 Season	Crime TV S	To protect his family from a powerful drug lord, skilled thief Mehdi and his expert tean							
5	s4	TV Show	Jailbirds New Orleans				September	2021	TV-MA	1 Season	Docuserie	Feuds, flirtations and toilet talk go down among the incarcerated women at the Orlean							
6	s5	TV Show	Kota Factory		Mayur Mc	India	September	2021	TV-MA	2 Seasons	Internatio	In a city of coaching centers known to train Indiaâ€™s finest collegiate minds, an earne							
7	s6	TV Show	Midnight I	Mike Flan	Kate Siegel, Zach Gilf		September	2021	TV-MA	1 Season	TV Drama	The arrival of a charismatic young priest brings glorious miracles, ominous mysteries ar							
8	s7	Movie	My Little P	Robert Cu	Vanessa Hudgens, Ki		September	2021	PG	91 min	Children &	Equestria's divided. But a bright-eyed hero believes Earth Ponies, Pegasi and Unicorns s							
9	s8	Movie	Sankofa	Haile Geri	Kofi Ghan	United Sta	September	1993	TV-MA	125 min	Dramas, Ir	On a photo shoot in Ghana, an American model slips back in time, becomes enslaved o							
10	s9	TV Show	The Great	Andy Dev	Mel Gied	United Kin	September	2021	TV-14	9 Seasons	British TV	A talented batch of amateur bakers face off in a 10-week competition, whipping up the							
11	s10	Movie	The Starlir	Theodore	Melissa M	United Sta	September	2021	PG-13	104 min	Comedies	A woman adjusting to life after a loss contends with a feisty bird that's taken over her g							
12	s11	TV Show	Vendetta:	Truth, Lies and	The Mafia		September	2021	TV-MA	1 Season	Crime TV S	Sicily boasts a bold "Anti-Mafia" coalition. But what happens when those trying to brin							
13	s12	TV Show	Bangkok B	Kongkiat K	Sukollawat Kanarot,		September	2021	TV-MA	1 Season	Crime TV S	Struggling to earn a living in Bangkok, a man joins an emergency rescue service and rea							
14	s13	Movie	Je Suis Kar	Christian S	Luna Wed	Germany,	September	2021	TV-MA	127 min	Dramas, Ir	After most of her family is murdered in a terrorist bombing, a young woman is unknow							
15	s14	Movie	Confessio	Bruno Gar	Klara Castanho, Lucc		September	2021	TV-PG	91 min	Children &	When the clever but socially-awkward TetÃ© joins a new school, she'll do anything to fi							
16	s15	TV Show	Crime Stories: India Detectives				September	2021	TV-MA	1 Season	British TV	Cameras following Bengaluru police on the job offer a rare glimpse into the complex ar							
17	s16	TV Show	Dear White People		Logan Bro	United Sta	September	2021	TV-MA	4 Seasons	TV Comed	Students of color navigate the daily slights and slippery politics of life at an Ivy League c							
18	s17	Movie	Europe's F	Pedro de	Echave GarcÃ-a, Pabl		September	2020	TV-MA	67 min	Document	Declassified documents reveal the post-WWII life of Otto Skorzeny, a close Hitler ally w							
19	s18	TV Show	Falsa identidad		Luis Ernes	Mexico	September	2020	TV-MA	2 Seasons	Crime TV S	Strangers Diego and Isabel flee their home in Mexico and pretend to be a married coup							
20	s19	Movie	Intrusion	Adam Salk	Freida Pinto, Logan M		September	2021	TV-14	94 min	Thrillers	After a deadly home invasion at a coupleâ€™s new dream house, the traumatized wife							
21	s20	TV Show	Jaguar		Blanca SuÃ¡rez, IvÃ¡r		September	2021	TV-MA	1 Season	Internatio	In the 1960s, a Holocaust survivor joins a group of self-trained spies who seek justice a							
22	s21	TV Show	Monsters	Olivier Megaton			September	2021	TV-14	1 Season	Crime TV S	In the late 1970s, an accused serial rapist claims multiple personalities control his beha							

↓



Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight helps you analyze data and create visualizations easily. We don’t need great data analysis experience to use it because it’s very handy and easy to understand.

How I used Amazon QuickSight in this project

In this project I used Amazon QuickSight to analyze a huge dataset of Netflix shows and movies from (1925-2021) and create a dashboard that extracts all the useful and needed insights.

One thing I didn't expect in this project was...

The thing that I didn’t expect in this project is about the handy access of the service Amazon QuickSight . It was very handy and easy to set up and play around with it.

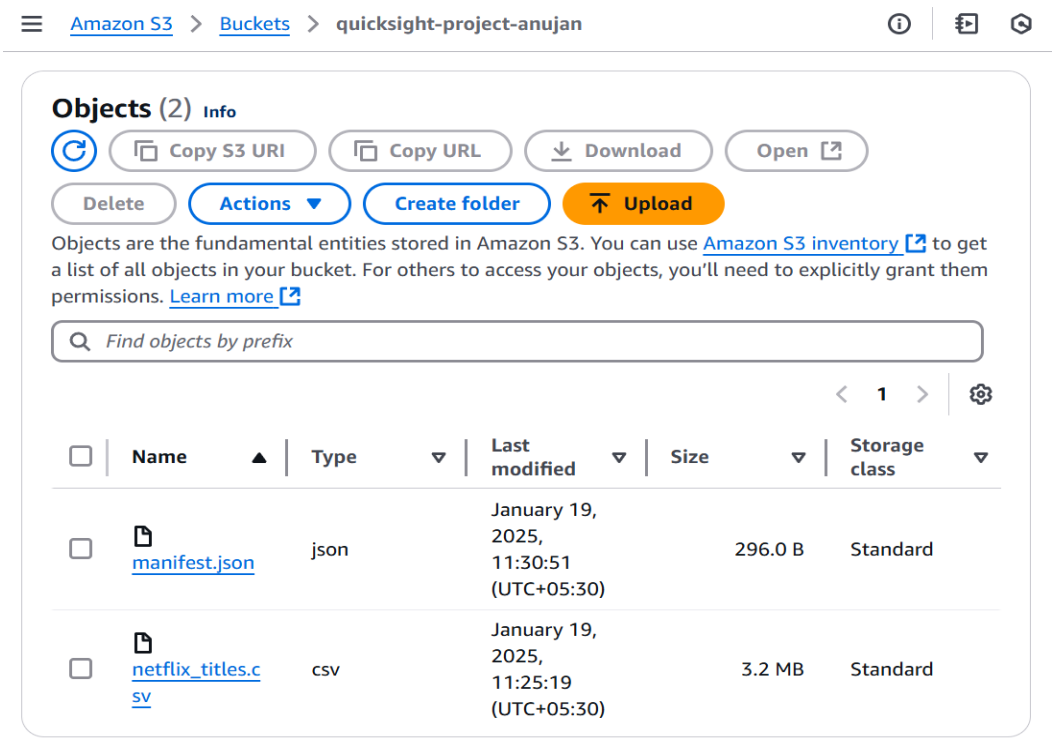
This project took me...

It took me around 45 mins to finish this project because I played a lot with different types of visuals provided by AWS in Amazon QuickSight. It was really amazing and worth the time.

Upload project files into S3

S3 is used in this project to store the [netflix_titles.csv] file, which contains the data of around 9000 Netflix movies and TV shows information from (1925-2021) ,and the [manifest.json] file.

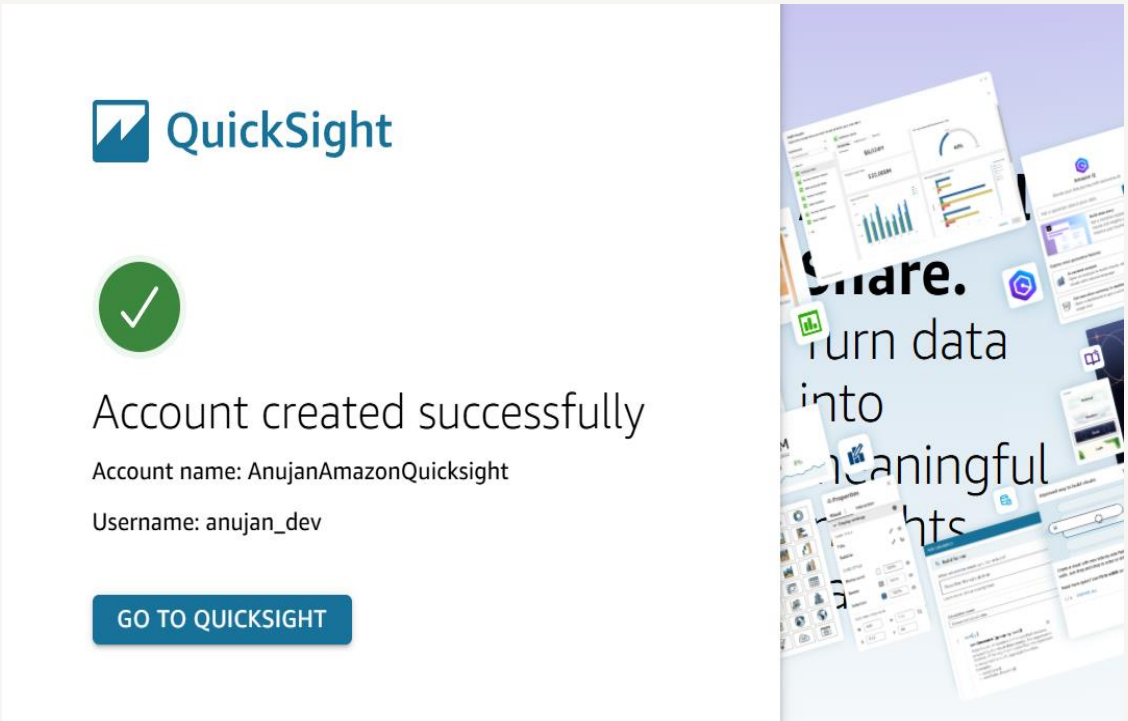
I edited my manifest.json file by updating the S3 URI of my dataset. It's important to edit this file because keeping an outdated S3 URI means that manifest.json would be redirecting to a wrong address.



Create QuickSight account

It’s free to make a QuickSight account (the free trial lasts for 30 days), and it took less than a minute to set up and wait for my account creation.

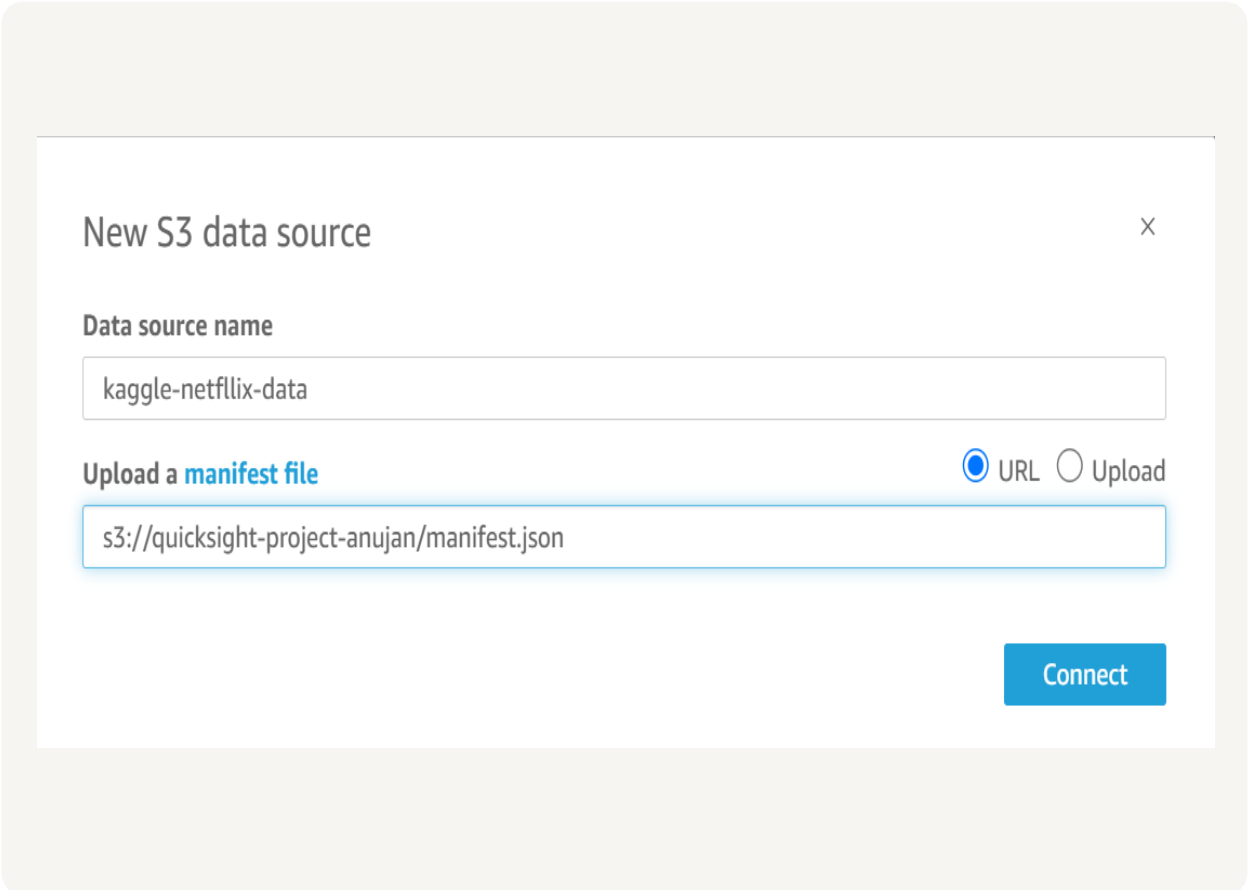
I also had to enable QuickSight access to S3 because my dataset is stored in an S3 bucket and specific access to that bucket is required for QuickSight to process that data.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting datasets->new dataset at the top right corner and inside that I chose S3 and then I gave a data source name and uploaded the S3 URI of the manifest.json file that I had already uploaded in my bucket.

manifest.json tells QuickSight what your dataset looks like, so QuickSight knows how to understand the data and show it in charts or graphs. Without this map, QuickSight might get confused and not show your data correctly.

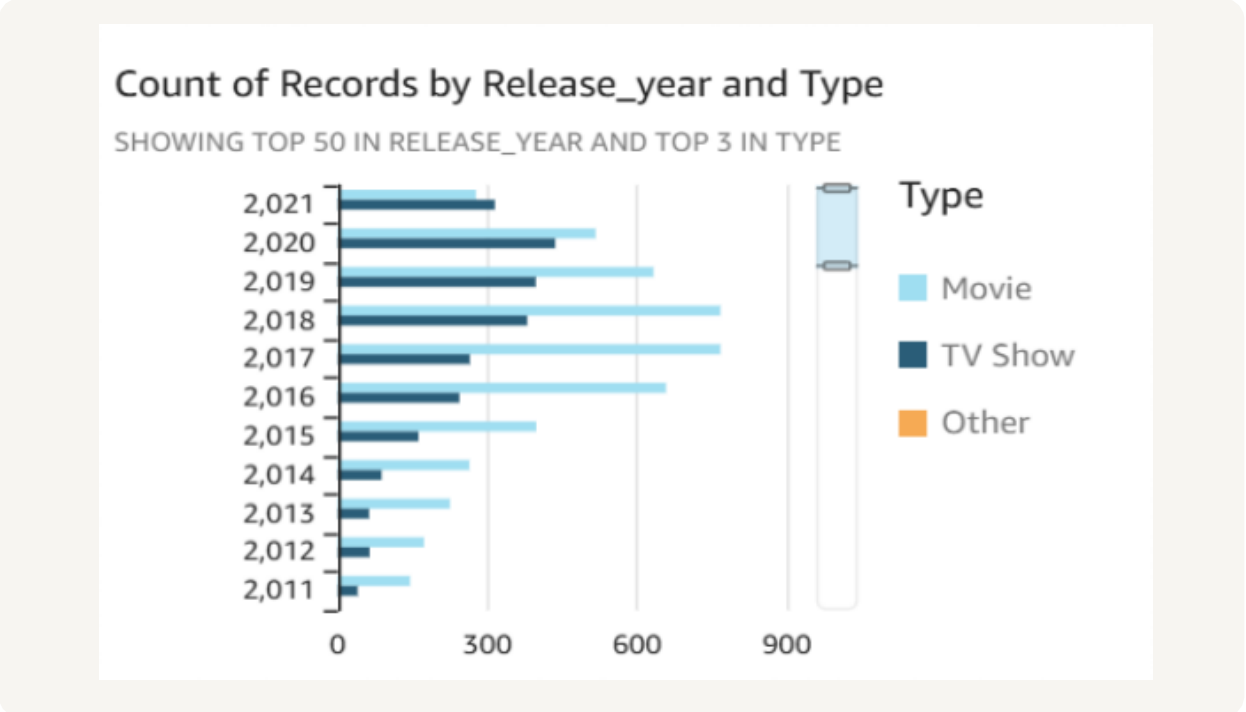


My first visualization

To create a visualization on QuickSight, we have to drag relevant fields into the QuickSight dashboard's Autograph space.

The graph shown here is a breakdown of movies vs TV shows on Netflix for every release year (1925 - 2021).

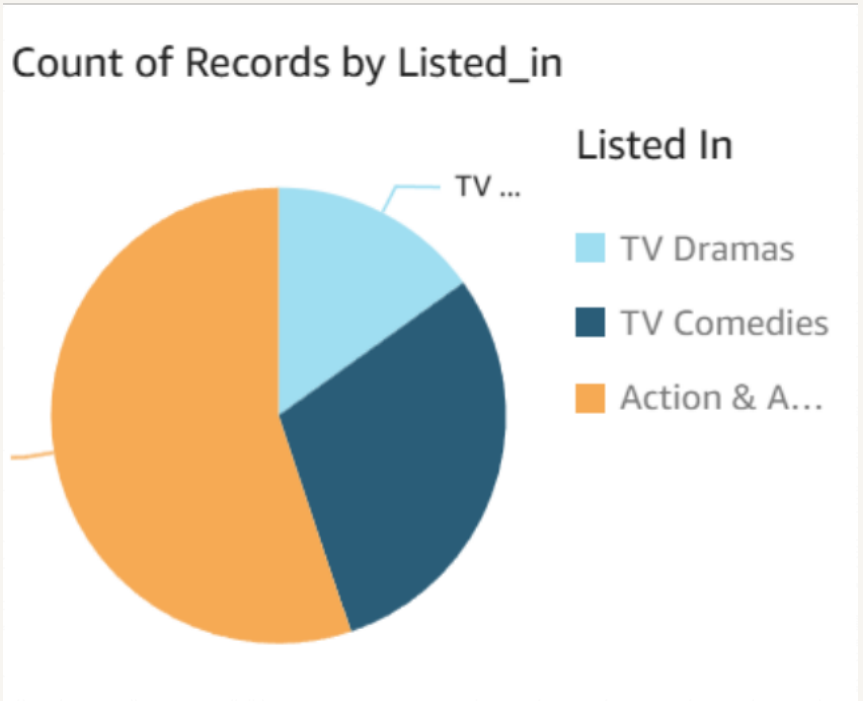
I created this graph by putting the [release year] field on the y-axis of a horizontal bar chart and used the [type] field as the grouping variable on it.



Using filters

Filters are useful for specifying the exact subset of data that we want to analyze by effectively excluding any irrelevant data.

This visualization is a breakdown of movies on Netflix that rely on TV dramas, TV comedies and action & adventure genres. Here I added a filter by excluding other movies and TV show genres and got only the three genres that I wanted to visualize.



Setting up a dashboard

I played with a lot of data, visuals and filters. As a finishing touch, I arranged all the charts and graphs I made. Where each represented the Netflix data on various parameters and named them to avoid confusion on what it shows.

Did you know you could export your dashboard as PDFs too? I know that it could be published to be accessed by others, but then I found the export option where we can save our work in pdf form. It also helps in a great way for the documentation purpose too.