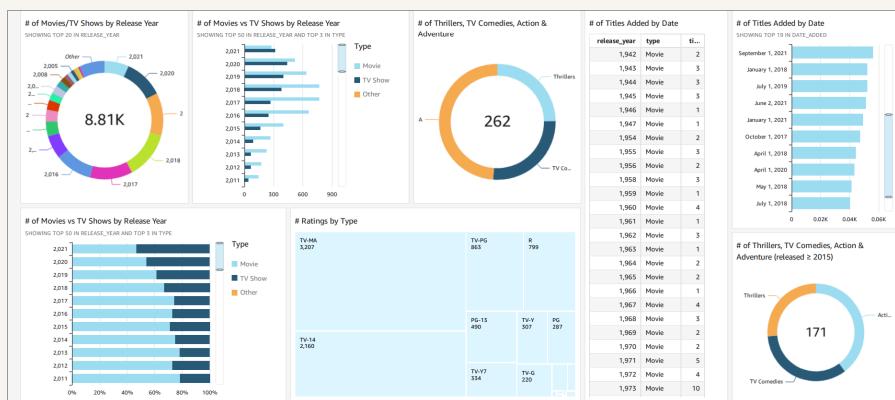




# Visualize data with QuickSight

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# Introducing Today's Project!

In this project, I will demonstrate how to use S3 and quicksight to visualize data. I'm doing this project to learn how to integrate visualization techniques with cloud computing.

## Tools and concepts

Services I used were Amazon S3 and QuickSight. Key concepts I learnt include creating S3 buckets, uploading dataset with the manifest.json file. Creating QuickSight account and Visualizing the data for further analysis.

## Project reflection

This project took me approximately 45 minutes. The most challenging part was the creation of the QuickSight account which i later resolved by looking into the IAM instances. It was most rewarding to see the final pdf output of the visualizations.

After this project, I plan to work on more projects that help me explore more features of AWS.

# Upload project files into S3

S3 is used in this project to store two files, which are: 1. netflix\_titles.csv  
2.manifest.json(modified)

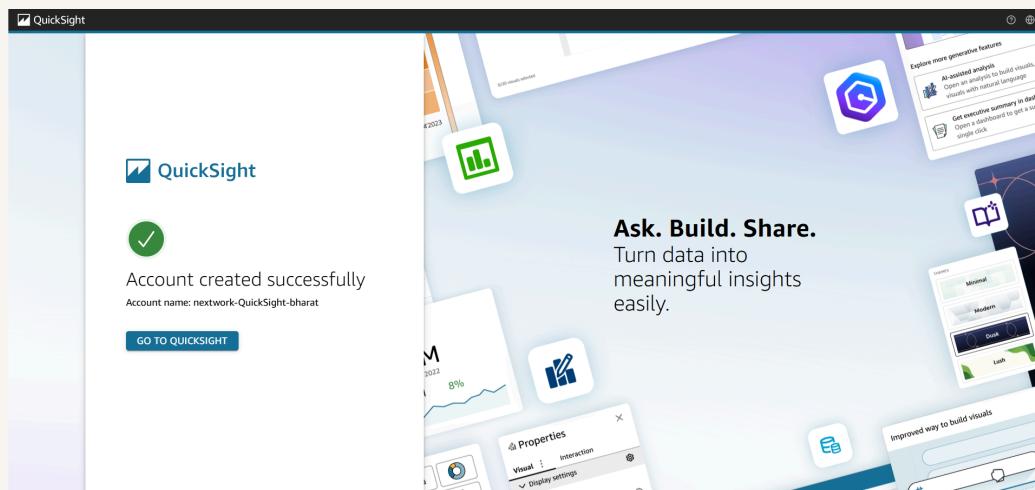
I edited the manifest.json file by replacing the S3 URL with my actual S3 bucket URL.  
It's important to edit this file so that Quicksight can find the dataset to further visualize it.

Name	Type	Last modified	Size	Storage class
manifest.json	json	August 9, 2025, 12:46:00 (UTC+05:30)	305.0 B	Standard
netflix_titles.csv	csv	August 9, 2025, 12:43:06 (UTC+05:30)	3.2 MB	Standard

# Create QuickSight account

Creating a QuickSight account provides a 30 days free trial which cost \$0.

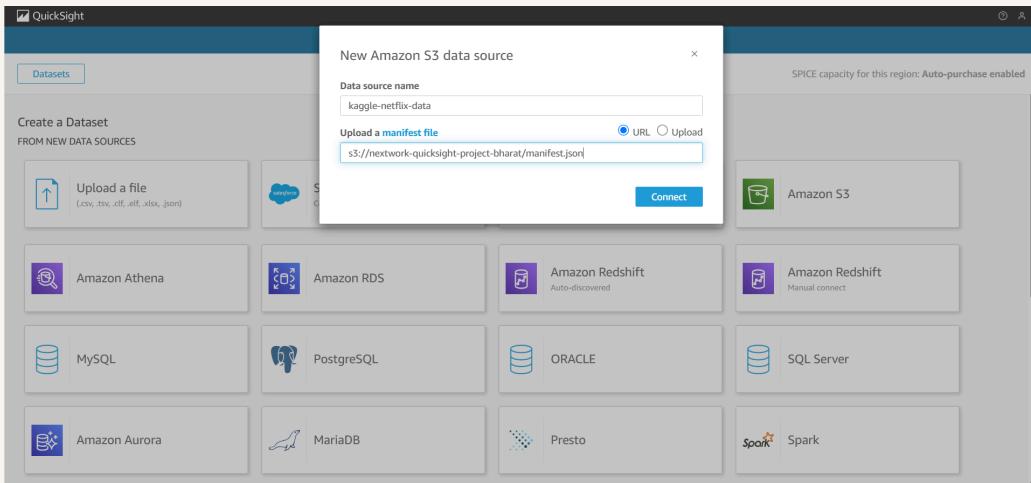
Creating an account took me around 5 mins including creating the S3 bucket.



# Download the Dataset

I connected the S3 bucket to QuickSight by visiting datasets option on the left navigation menu, then i selected Amazon S3 where i gave the data source name and manifest file URL.

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!

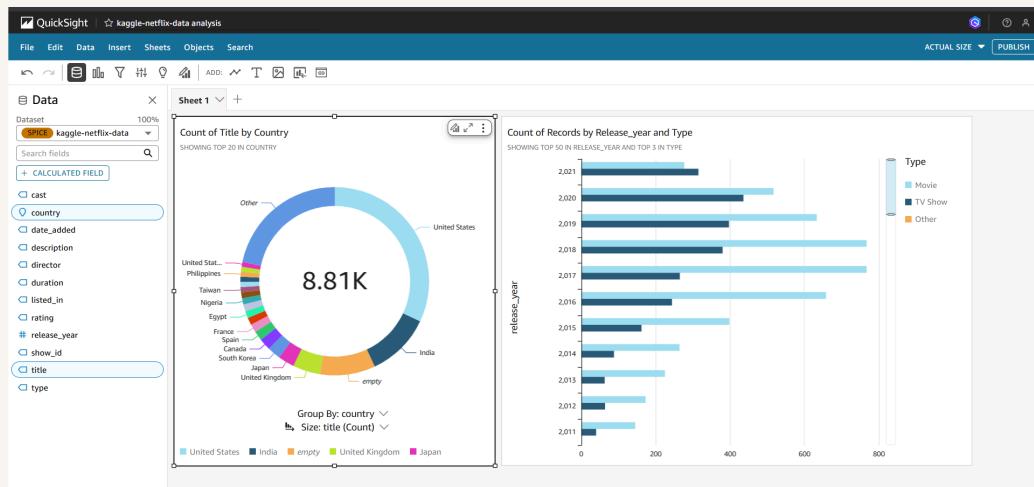


# My first visualization

To create visualizations on QuickSight, Once we setup our dataset, we can see all the columns of our dataset. Then by selecting the visualize option on top left of the quicksight menu, we can select various visualizations on the selected columns.

First one is a donut chart telling different number netflix shows segregated on the basis of countries. Second one is horizontal bar graph that shows a breakdown of TV shows vs movies for every year.

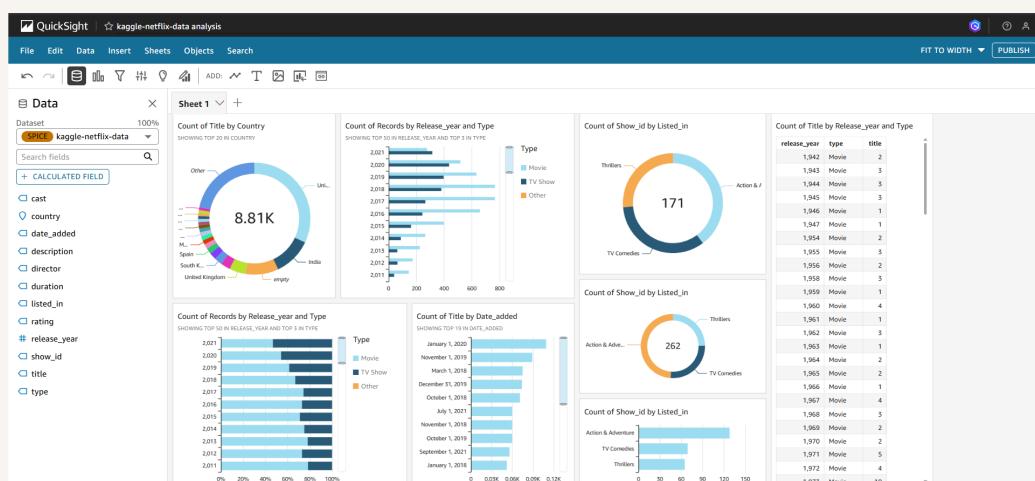
I created this graph by dragging and dropping the release year and the country columns for the donut chart. For the horizontal bar graph i used the release year and type columns



# Using filters

Filters are useful for removing the unwanted data for the specific requirement so that the visualizations look more precise and accurate.

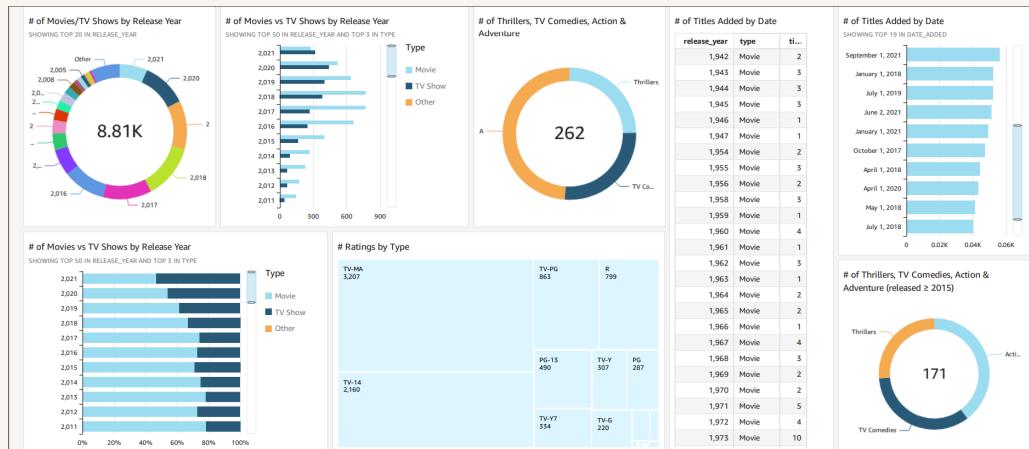
This visualization is a breakdown of the total count of Thrilles, TV comedies, Action & Adventures and also the same for only those released after 2015. Here I added a filter by selecting only the required genres and released years.



# Setting up a dashboard

As a finishing touch, we published our dashboard so that the respective team members can access it. We also downloaded a PDF version of our dashboard that has the visualizations of analysis.

We exported the dashboard as a PDF after publishing it with a proper name. Then at the top right corner we get an option called "export", clicking it gives an option to download as pdf. After clicking it a downloadable pdf will be ready in a few mins





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