



Visualize data with QuickSight

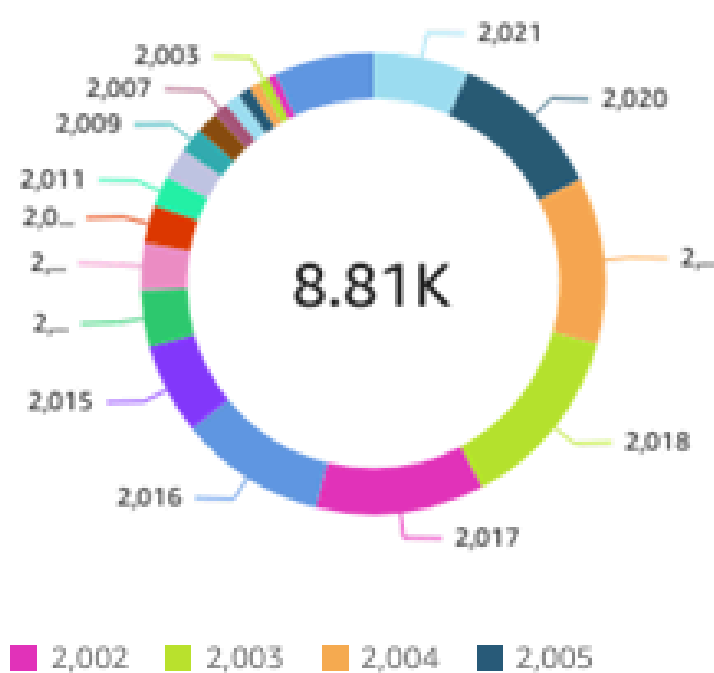


Ridhi Tamirasa



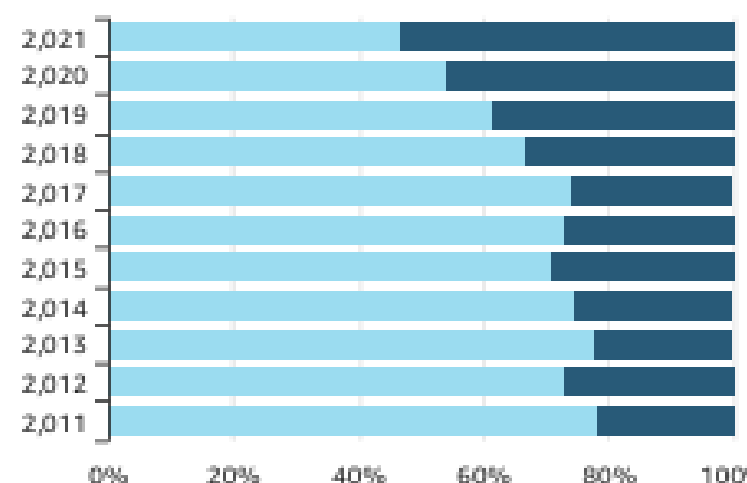
Count of Records by Release_year

SHOWING TOP 20 IN RELEASE_YEAR



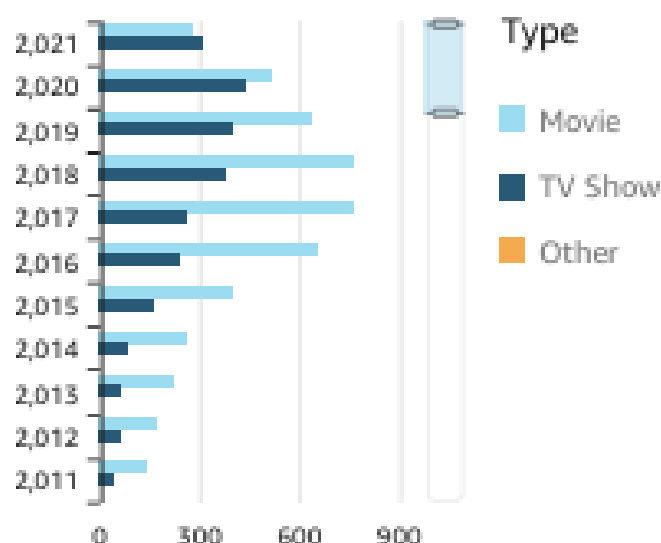
of Movies vs TV Shows by Release Year

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE



of Movies/TV Shows by Release Year

SHOWING TOP 50 IN RELEASE_YEAR AND TOP 3 IN TYPE





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Introducing Amazon QuickSight!

What it does & how it's useful

Amazon QuickSight is a way of visualizing data in AWS to enable one to get insights from a dataset.

Developers and teams use Amazon QuickSight because it allows for collaboration via the cloud.

How I'm using it in today's project

I'm using Amazon QuickSight in this project to visualize a Netflix dataset

This project took me...

It took me an hour to finish the project

Documentation took me an hour as I was documenting after completing each step.



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Upload project files into S3

- S3 is used in this project to store two files, which are manifest.json and netflix_titles.
- I edited the manifest.json file by changing the URI name to the one in my bucket.
- It's important to edit this file because it would be directing to a wrong address without changes.

Here's my bucket with the CSV file and manifest.json!

Amazon S3 > Buckets > network-quicksight-rtamirasa

network-quicksight-rtamirasa [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (2) [Info](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

| <input type="checkbox"/> | Name | Type | Last modified | Size | Storage class |
|--------------------------|------------------------------------|------|-------------------------------------|---------|---------------|
| <input type="checkbox"/> | manifest.json | json | July 20, 2024, 22:00:51 (UTC-04:00) | 305.0 B | Standard |
| <input type="checkbox"/> | netflix_titles.csv | csv | July 20, 2024, 21:48:43 (UTC-04:00) | 3.2 MB | Standard |



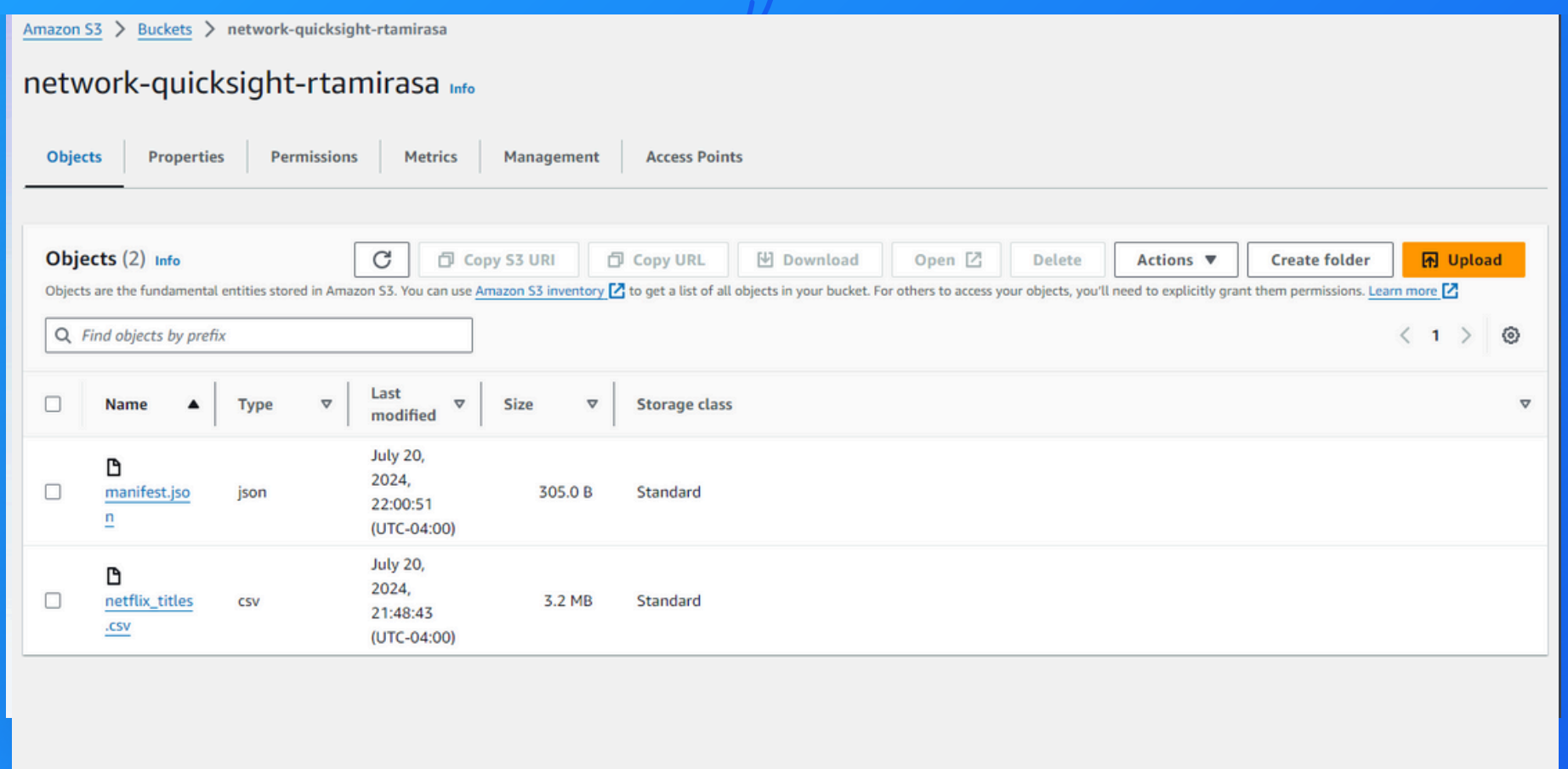
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Create QuickSight account

- It costed \$0 to make my Quicksigh account
- Creating a QuickSight account took me less than 5 minutes
- I also had to enable QuickSight's access to S3 to ensure we have access to the datasets in the selected buckets for visualization purposes.

Voila! I created my QuickSight account successfully.





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Connect S3 + QuickSight

I connected the S3 bucket to QuickSight by copying the manifest.json URI.

- The manifest.json file was important in this step because it helps Quicksight find our dataset in our bucket and understand our data so it can represent it in charts and graphs.

New S3 data source



Data source name

netflix-data

Upload a [manifest file](#)

☒ URL ☐ Upload

s3://network-quicksight-rtamirasa/manifest.json

Entering the manifest.json URL.

Connect

New S3 data source

Data source name

netflix-data

Upload a [manifest file](#)

☒ URL ☐ Upload

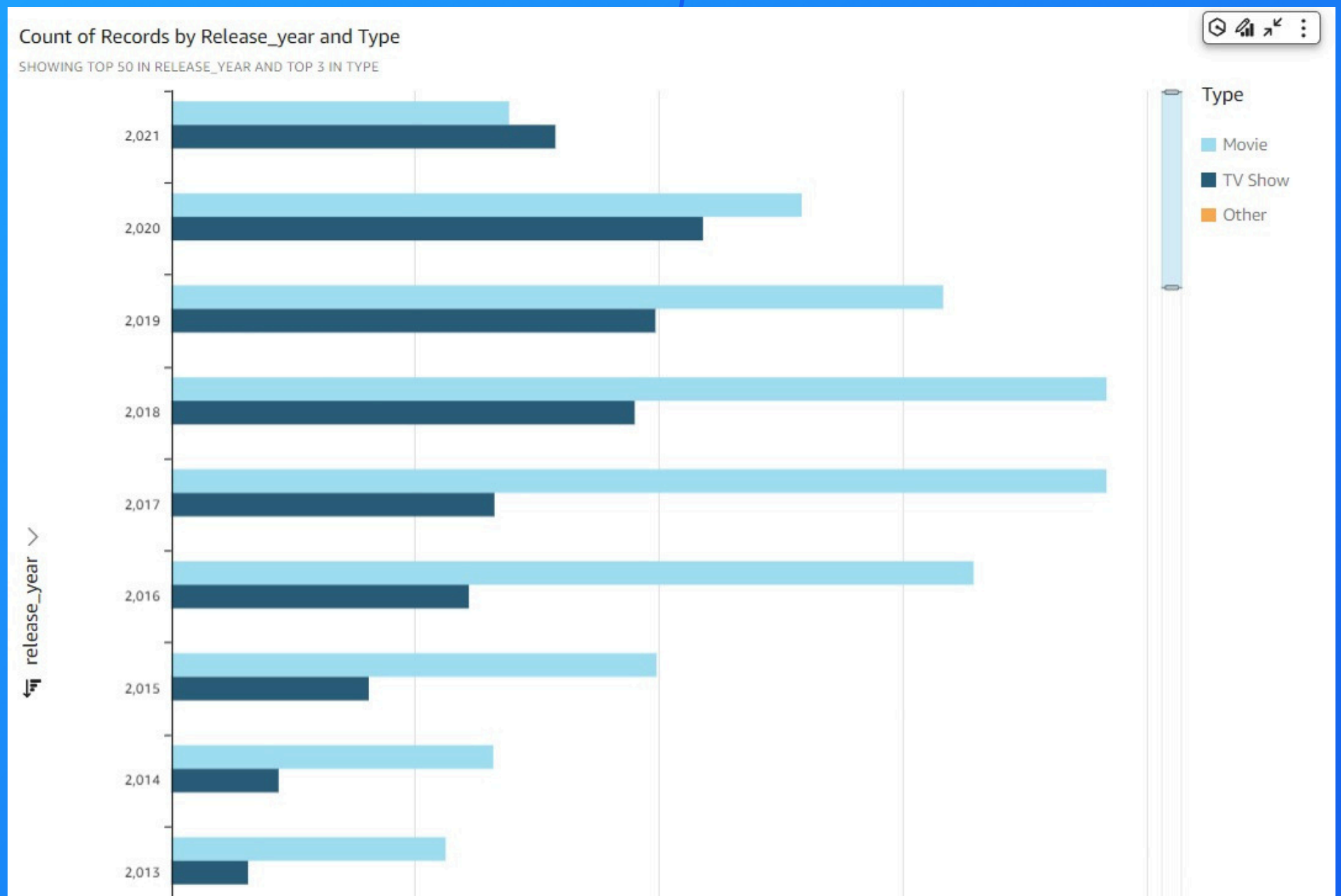
s3://network-quicksight-rtamirasa/manifest.json



Let's make visualisations!

- To create visualisation on QuickSight, you'll have to drag a category to the AutoGraph dashboard
- The chart/graph shown here is a breakdown of the number of movies released each year by their categories(movies/tv show)
- I created this graph by having the release year on the y-axis and having the Type on group to show different colors for each category.

One of my first visualisations.

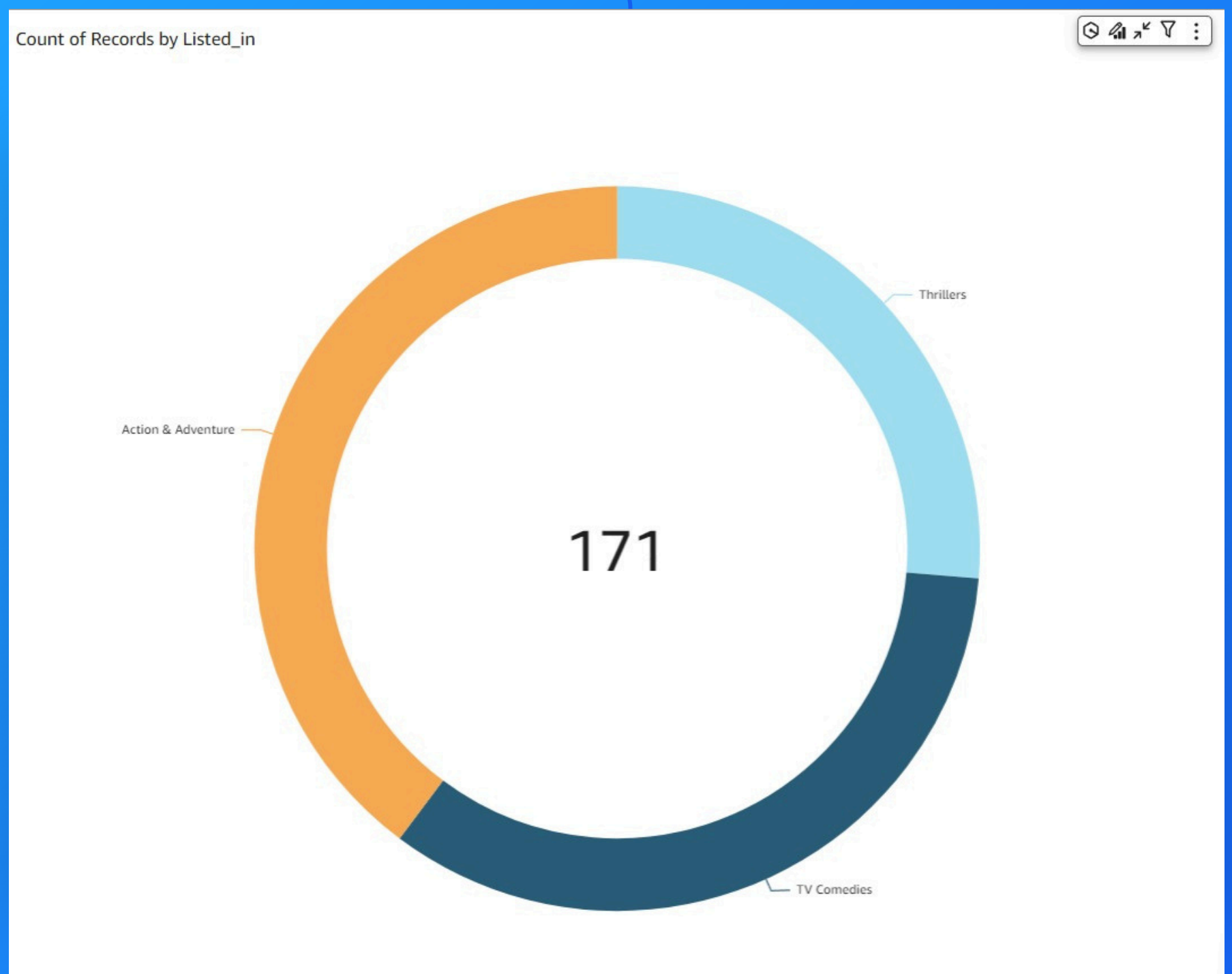




Using filters

- Filters are useful for specifying the variables and exact values you want to compare while excluding what you don't want.
- Here I added a filter by excluding movies and TV shows released before 2015. This helped me create a visualization on the three genres released from 2015.

A visualisation set up after adding filters.





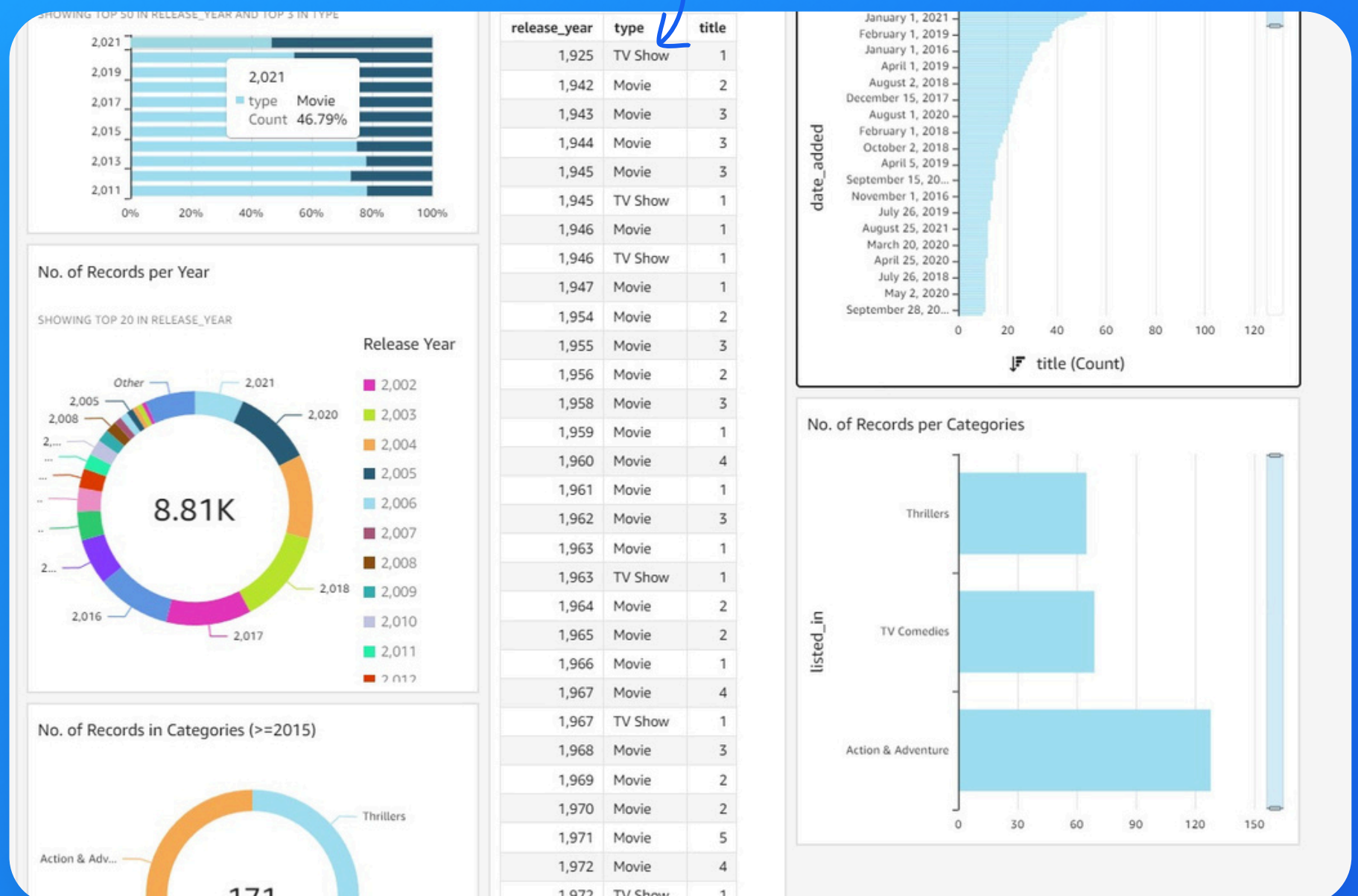
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Set up your dashboard!

- As a finishing touch, I arranged my visuals in a good looking format
- Did you know you could export your dashboard as PDFs too? I did this by clicking 'Export' and 'Generate PDF' then waiting for it to prepare download.

Voila! Here's the finished dashboard!





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My key learnings

- 1 An S3 bucket was used in this project to store the dataset and manifest.json file.
- 2 To connect the data stored in S3 with QuickSight, I had to link the manifest.json file URI to Quicksight
- 3 It is easy to create visualizations in Quicksight and it is easy to navigate different toggles.
- 4 One thing I didn't expect was the ease in creating visualizations and how it recommends if you put a graph in the Autograph.