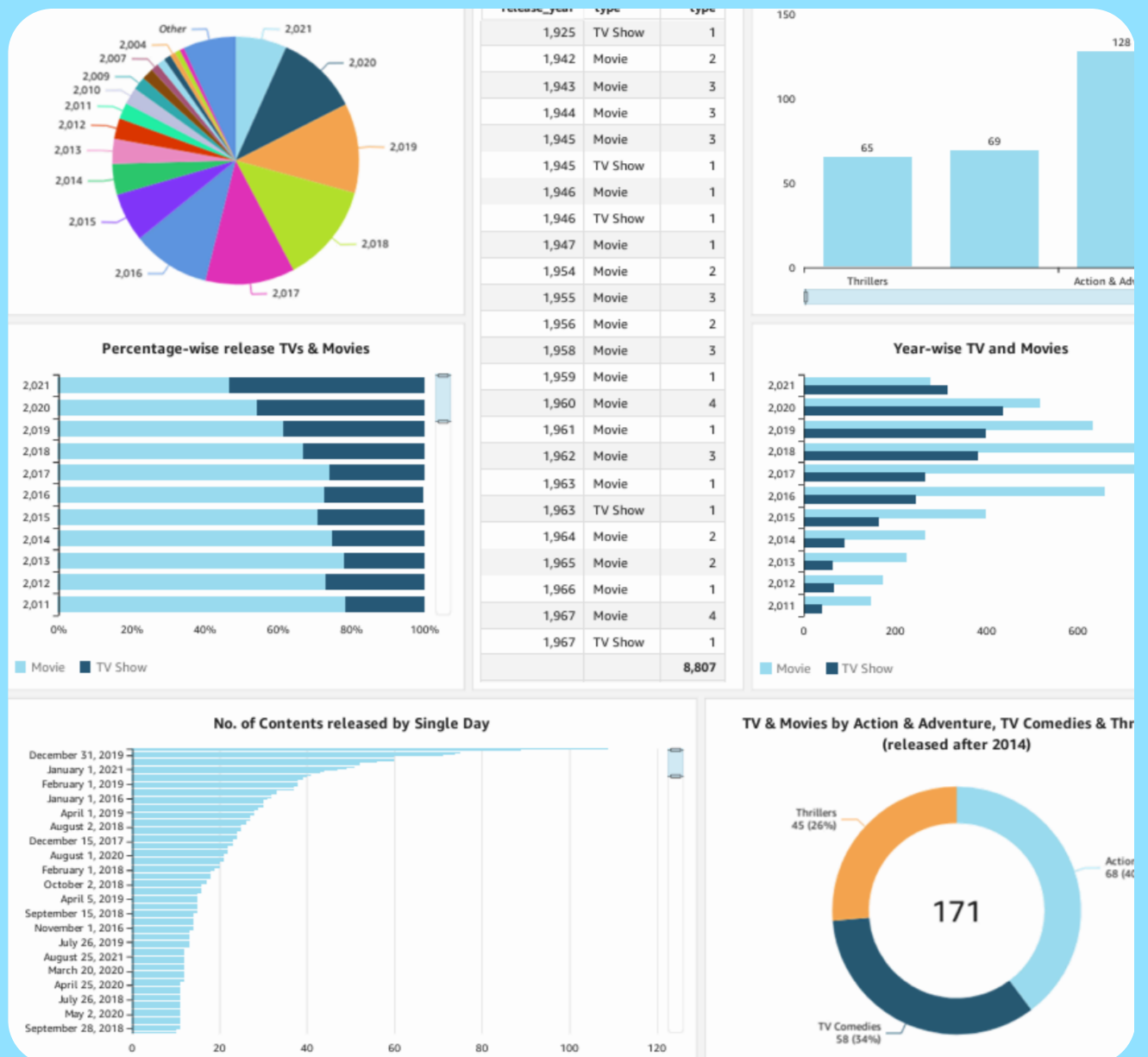


Visualize data with QuickSight



ISHAN CHAURASIA

	A	B	C	D	E	F	G	H	I	J
	show_id	type	title	director	cast	country	date_added	release_year	rating	duration
1	s1	Movie	Dick Johnson	Kirsten Johnson		United States	September 1, 2020	2020	PG-13	90 min
2	s2	TV Show	Blood & Water		Ama Qam	South Africa	September 1, 2021	2021	TV-MA	2 Seasons
3	s3	TV Show	Gangland	Julien Leclercq	Sami Bouajila, Tracy		September 1, 2021	2021	TV-MA	1 Season
4	s4	TV Show	Jailbirds New Orleans				September 1, 2021	2021	TV-MA	1 Season
5	s5	TV Show	Kota Factory		Mayur Mehta	India	September 1, 2021	2021	TV-MA	2 Seasons
6	s6	TV Show	Midnight	Mike Flannery	Kate Siegel, Zach Gilford		September 1, 2021	2021	TV-MA	1 Season
7	s7	Movie	My Little Girl	Robert Cullen	Vanessa Hudgens, Kiera	United States	September 1, 2021	2021	PG	91 min
8	s8	Movie	Sankofa	Haile Geri	Kofi Ghahsah	United States	September 1, 1993	1993	TV-MA	125 min
9	s9	TV Show	The Great	Andy De Luca	Mel Giedroyc	United Kingdom	September 1, 2021	2021	TV-14	9 Seasons
10	s10	Movie	The Starling	Theodore	Melissa McCarthy	United States	September 1, 2021	2021	PG-13	104 min
11	s11	TV Show	Vendetta: Truth, Lies and The Mafia				September 1, 2021	2021	TV-MA	1 Season
12	s12	TV Show	Bangkok 8	Kongkiat Boonsirakul	Sukollawat Kanarot		September 1, 2021	2021	TV-MA	1 Season
13	s13	Movie	Je Suis Kai	Christian Schwochow	Luna Wedler	Germany	September 1, 2021	2021	TV-MA	127 min
14	s14	Movie	Confession	Bruno Garcia	Klara Castanho, Lucca		September 1, 2021	2021	TV-PG	91 min
15	s15	TV Show	Crime Stories: India Detectives				September 1, 2021	2021	TV-MA	1 Season
16	s16	TV Show	Dear White People		Logan Browder	United States	September 1, 2021	2021	TV-MA	4 Seasons
17	s17	Movie	Europe's End	Pedro de Alcázar	García, Pablo		September 1, 2020	2020	TV-MA	67 min
18	s18	TV Show	Falsa identidad		Luis Ernes	Mexico	September 1, 2020	2020	TV-MA	2 Seasons
19	s19	Movie	Intrusion	Adam Salkind	Freida Pinto, Logan		September 1, 2021	2021	TV-14	94 min
20	s20	TV Show	Jaguar		Blanca Suárez	Spain	September 1, 2021	2021	TV-MA	1 Season
21	s21	TV Show	Monsters	Olivier Megaton			September 1, 2021	2021	TV-14	1 Season





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Introducing Amazon QuickSight!

What it does & how it's useful

Amazon QuickSight is data analysis tool. Developers and teams use Amazon QuickSight because it allows users to create meaningful visual representation of data and makes life easier to analyse large amount of data.

How I'm using it in today's project

I'm using Amazon QuickSight in this project to analyse a huge dataset of Netflix shows and movies to create a dashboard that extracts all the juicy insights.

This project took me...

- Around 60 mins to complete.
- Documentation took me more 30 mins



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Upload project files into S3

- S3 is used in this project to store two files, which are netflix_titles.csv and manifest.json.
- I edited the 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 directing to the wrong address.

Objects (2) [Info](#)

Copy S3 URI

Copy URL

Download

Open

Delete

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 and their permissions. [Learn more](#)

Find objects by prefix

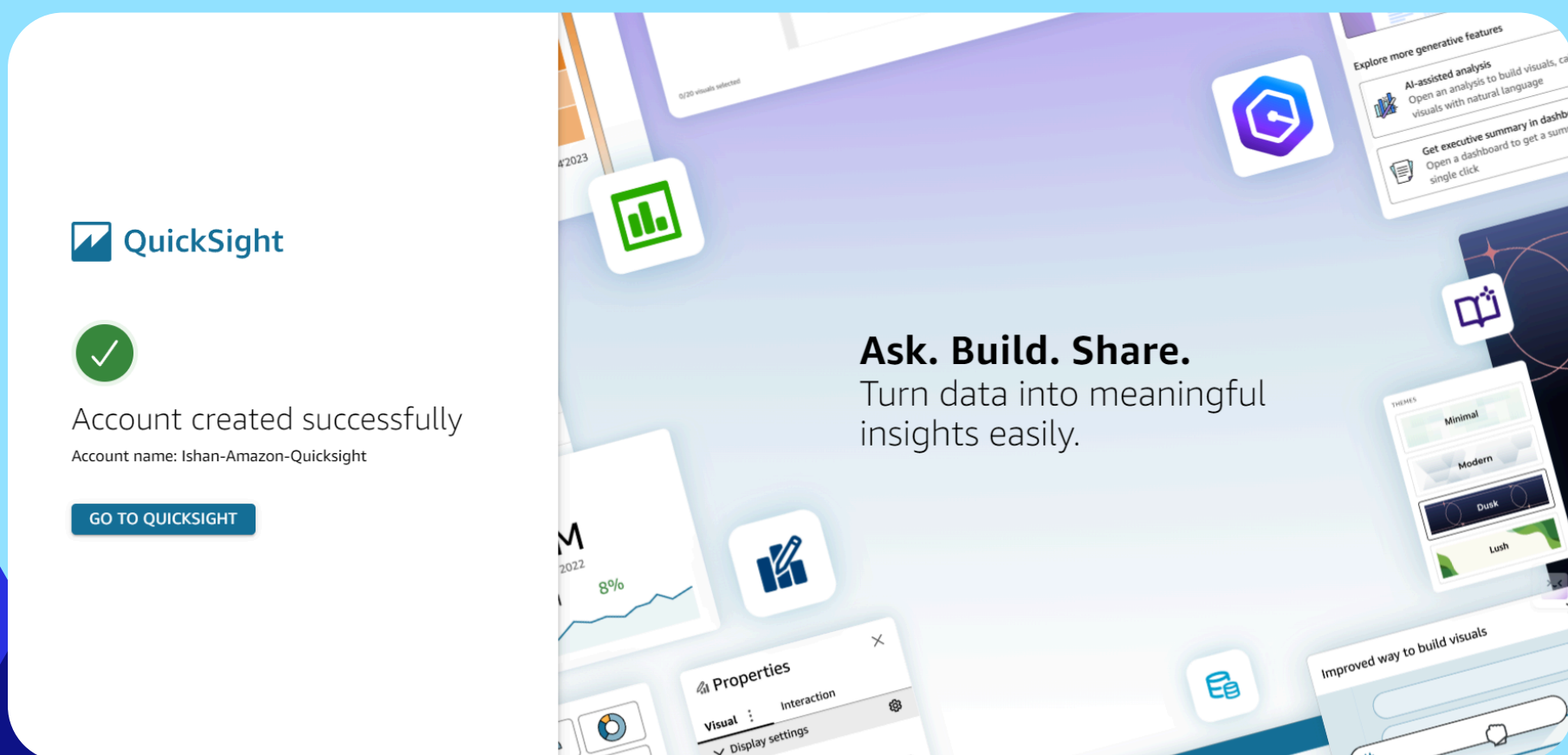
<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼
<input type="checkbox"/>	manifest.json	json	July 12, 2024, 18:04:36 (UTC+05:30)
<input type="checkbox"/>	netflix_titles.csv	csv	July 12, 2024, 17:57:42 (UTC+05:30)



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Create QuickSight account

- It costed me zero bucks as it comes with a 30 days trial period for up to 4 users.
- Creating a QuickSight account took me about 2 minutes as the process is seamless easy.
- I also had to enable QuickSight's access to S3 because my dataset is stored in S3 bucket and specific access is required for QuickSight to process the dataset.





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Connect S3 + QuickSight

- I connected the S3 bucket to QuickSight by checking on the S3 check box.
- The manifest.json file was important in this step because manifest.json file is like a map that tell Amazon QuickSight where your data files are and how they're organised. Without this map QuickSight might get confused and not show your data correctly.

New S3 data source ×

Data source name

netflix-dataset

Upload a **manifest file**

☒ URL ☐ Upload

s3://netflix-quicksight/manifest.json

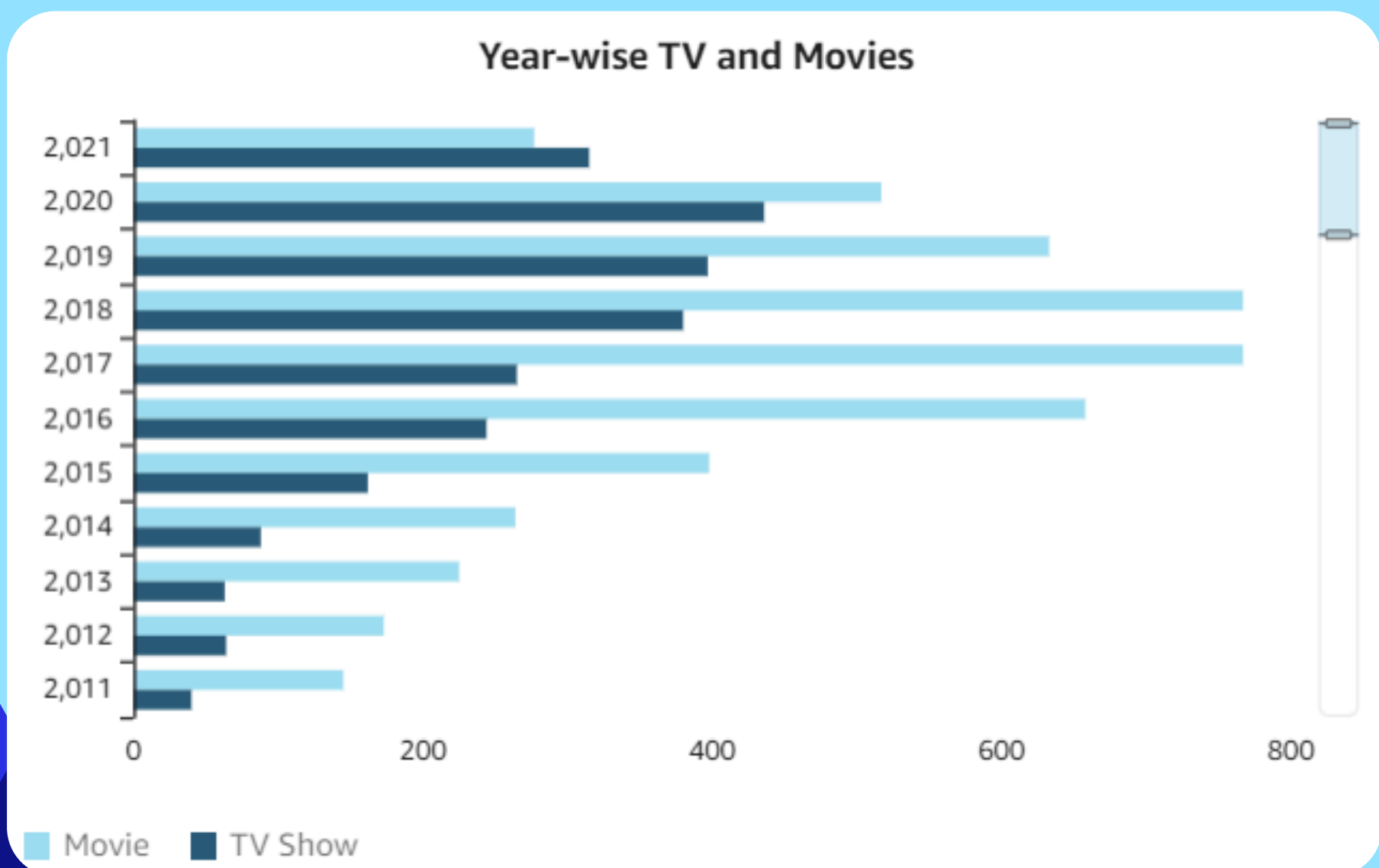
Connect



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Let's make visualisations!

- To create visualisation on QuickSight, you'll have to drag relevant fields into QuickSight dashboard's AutoGraph space.
- The graph shown here is a breakdown of Movies Vs TV Shows for every release year. I created this graph by putting the release year on the y-axis and making the type (i.e. movies and tv shows) the grouping variable.



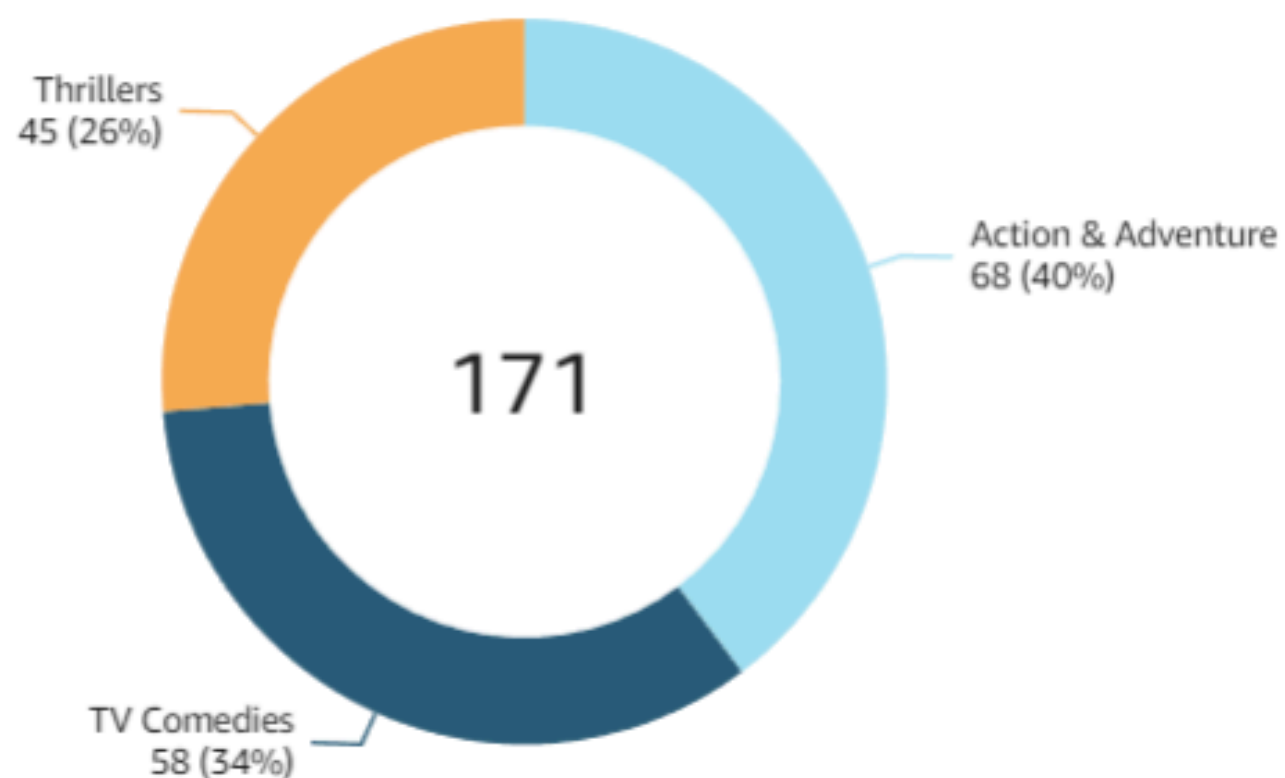


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Using filters

- Filters are useful for specifying the exact the subset of data that you wanted to analyse effectively excluding irrelevant data.
- Here I added a filter by excluding movies and tv shows that were released before 2015. This helped me create a visualisation on movies and tv shows of the three genres I specified that were released from 2015 onwards.

TV & Movies by Action & Adventure, TV Comedies & Thrillers

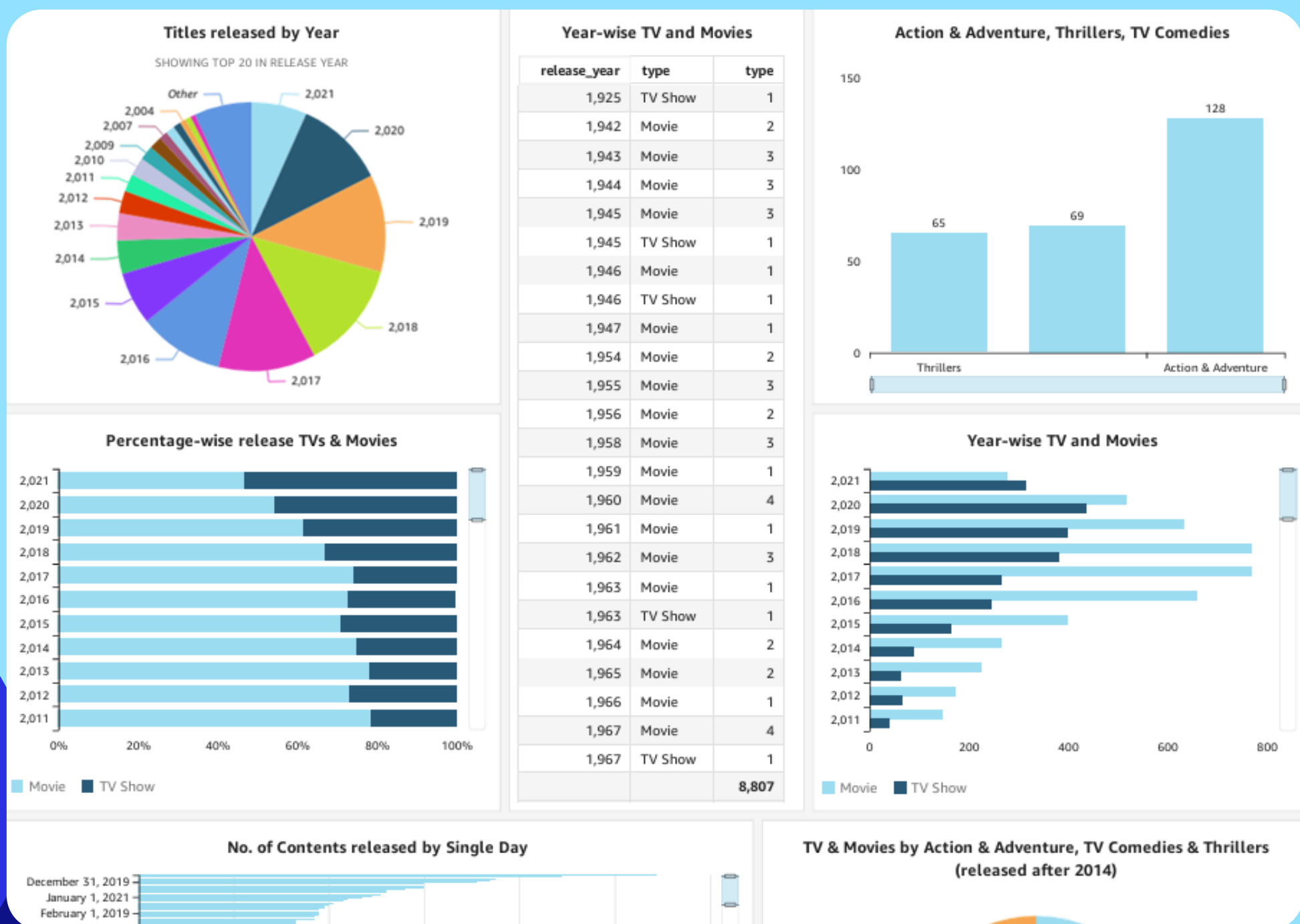




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Set up your dashboard!

- As a finishing touch, I edited the titles of my graphs so that the purpose of each chart is clear to the reader.
- Did you know you could export your dashboard as PDFs too? I did this by first **publishing the dashboard** after giving it a name. Then export option appears on the top left menu. Click export as pdf and when its ready **download the pdf**.





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My key learnings

1

An S3 bucket was used in this project to store raw data files that needed to be processed and visualized in Amazon QuickSight. This allowed for scalable and secure storage of large datasets, making it easy to manage and access data for analysis.

2

To connect the data stored in S3 with QuickSight, I had to use a manifest.json file. This file defined the locations and structure of the data files within the S3 bucket, allowing QuickSight to correctly ingest and interpret the data for visualization.

3

Creating visualizations on QuickSight was easier than I expected. The user-friendly interface and drag-and-drop functionality made it straightforward to create interactive and insightful dashboards without requiring extensive coding knowledge.

4

One thing I didn't expect was how seamlessly QuickSight integrated with other AWS services. This integration simplified the process of connecting data sources and automating data updates, significantly reducing the time and effort needed to maintain the dashboards.