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# Visualize data with QuickSight

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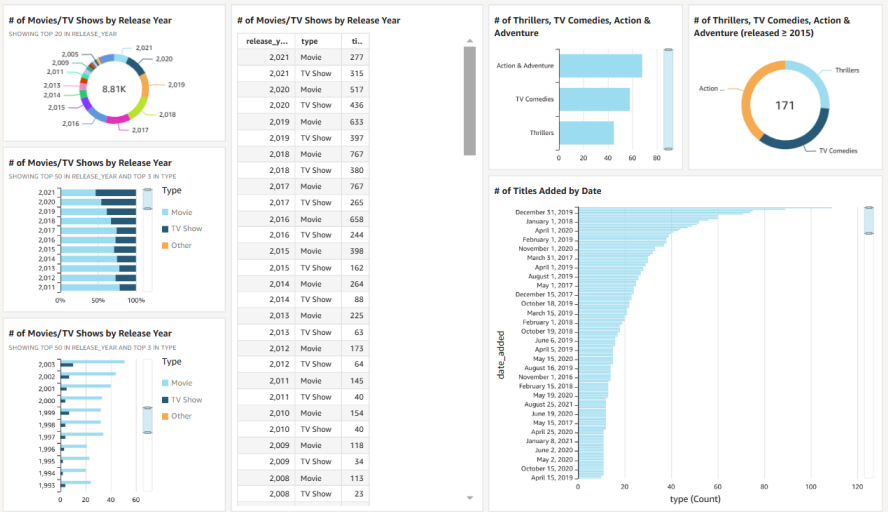

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# Introducing Today's Project!

## What is Amazon QuickSight?

Amazon QuickSight is a cloud-based BI tool for visualizing data, creating dashboards, and generating insights.

## How I used Amazon QuickSight in this project

I used Amazon QuickSight for Kaggle Netflix Title Analysis by creating this interactive dashboard. It visualizes movies/TV shows by release year, genres, and added dates using donut charts, bar graphs, and tables, helping analyze Netflix trends.

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

One thing I didn't expect in this project was the uneven distribution of titles by release year, with a significant spike in certain years.

## This project took me...

This project took me approximately 2 and a half hours to complete.

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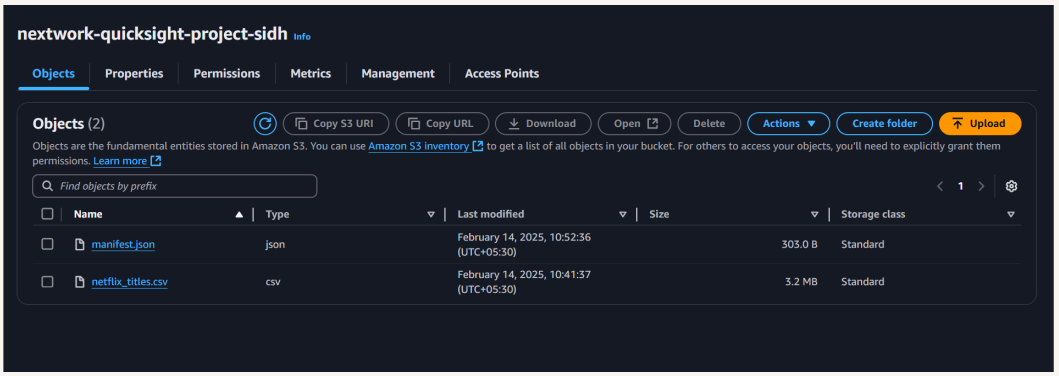
# Upload project files into S3

S3 is used in this project to store two files, which are netflix_titles.csv and manifest.json

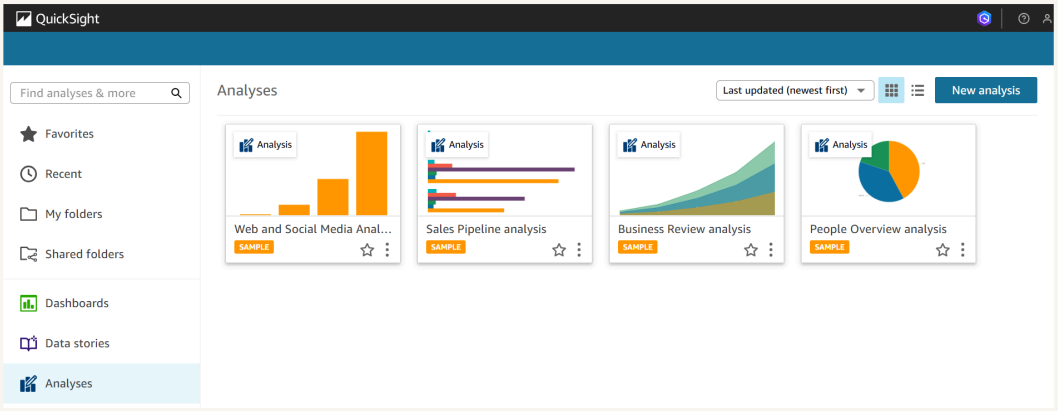
I edited the manifest.json file by changing the URIs to s3://nextwork-quicksight-project-sidh/netflix_titles.csv. It's important to edit this file because the manifest.json file defines the locations of external resources.



# Create QuickSight account

Creating a QuickSight account costs nothing for the initial setup, as there is a free trial available.

Creating an account took me just a few minutes. The process was quick, requiring only basic information like an email address, AWS account details, and choosing a QuickSight edition. After that, I was able to start exploring the platform immediately.



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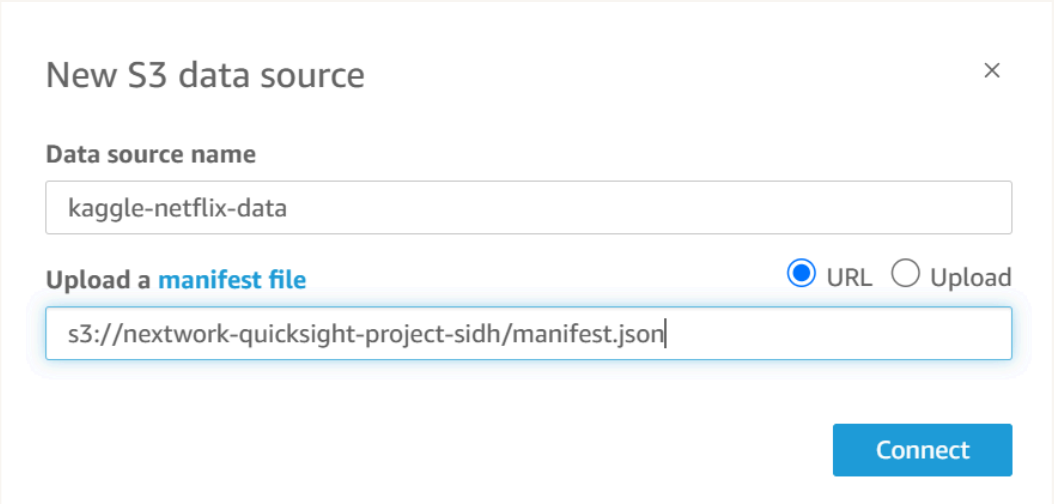
# Download the Dataset

I connected the S3 bucket to QuickSight by visiting the "Datasets" page in the QuickSight console. From there, I selected the option to "New Dataset", then chose S3 as the data source.

The manifest.json file was important in this step because it defines the metadata and configuration for the data source in Amazon QuickSight. Specifically, it includes the location of the dataset, the format of the data, and any required permissions.



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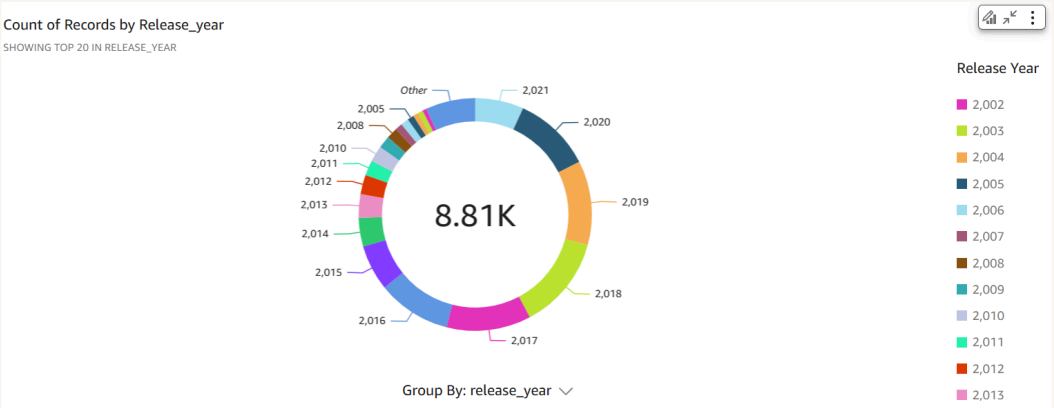
# My first visualization

To create visualizations on QuickSight, I log into the console and create a new analysis. After selecting a dataset, I choose the data fields I want to visualize. Then, I select the type of visualization. (e.g., bar chart, line graph, table)

The chart shown here is a breakdown of the count of records by their release year, represented as a donut chart. The total number of records is 8.81K, and the chart highlights the top 20 years with the highest counts.

I created this graph by dragging and dropping the "release_year" field into the Group By section and the "count of records" field into the Values section. I then selected a donut chart as the visualization type to represent the distribution of record



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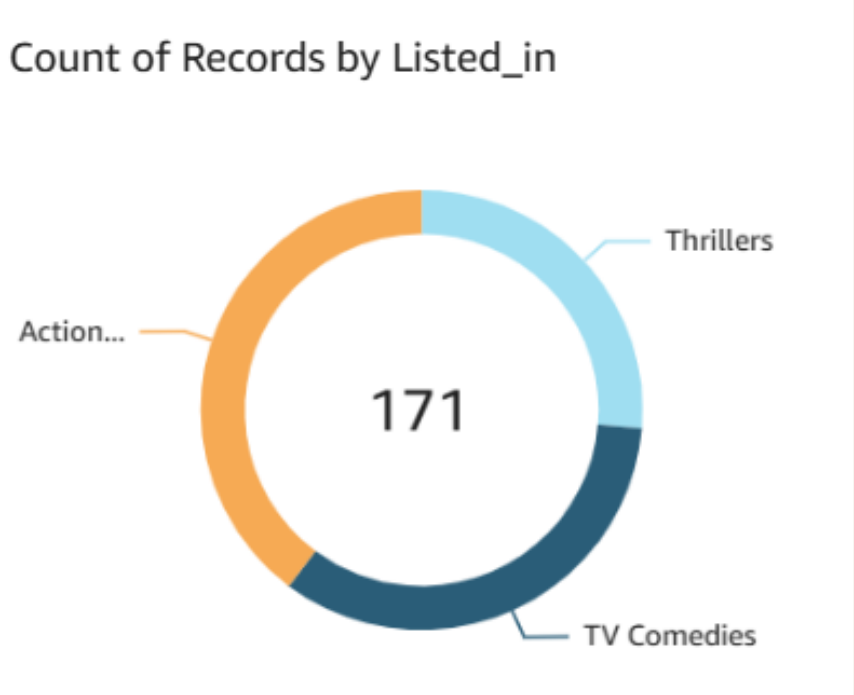
# Using filters

Filters are useful for refining and narrowing down data to focus on specific insights, making analysis more efficient and relevant.

This visualization is a breakdown of the count of records by release year using a donut chart. I added a filter by release year, showing the top 20 years while grouping smaller years under "Other".



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# Setting up a 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 publishing my dashboard, and using the export function.

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