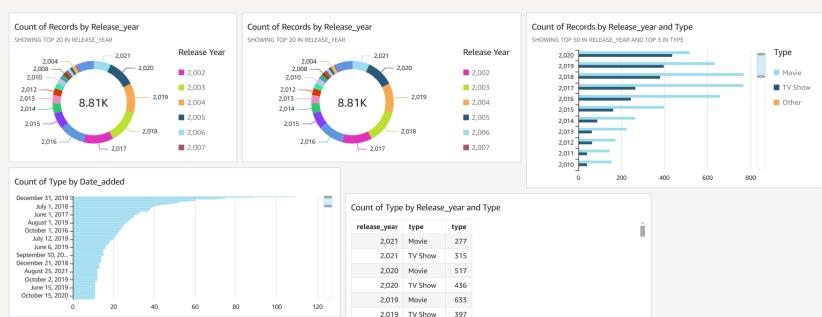




Visualize data with QuickSight



Ece Pelin





Introducing Today's Project!

What is Amazon QuickSight?

Amazon QuickSight is a cloud-based business intelligence (BI) service that allows users to create and publish interactive dashboards and visualizations, as well as perform ad-hoc analysis on their data.

How I used Amazon QuickSight in this project

In today's project, I used Amazon QuickSight to create interactive visualizations and dashboards from a dataset stored in an S3 bucket.

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

One thing I didn't expect in this project was how easy and seamless it was to connect an S3 bucket to Amazon QuickSight and visualize the data.

This project took me...

This project took me 1.5 hours to complete. The process involved connecting the S3 bucket to QuickSight, preparing the data, creating visualizations, applying filters, and fine-tuning the dashboard before exporting it as a PDF.

Upload project files into S3

S3 is used in this project to store two files, which are `netflix_titles.csv` and `manifest.json`. The `netflix_titles.csv` file contains a dataset of Netflix shows and movies, while the `manifest.json` file is used to manage metadata.

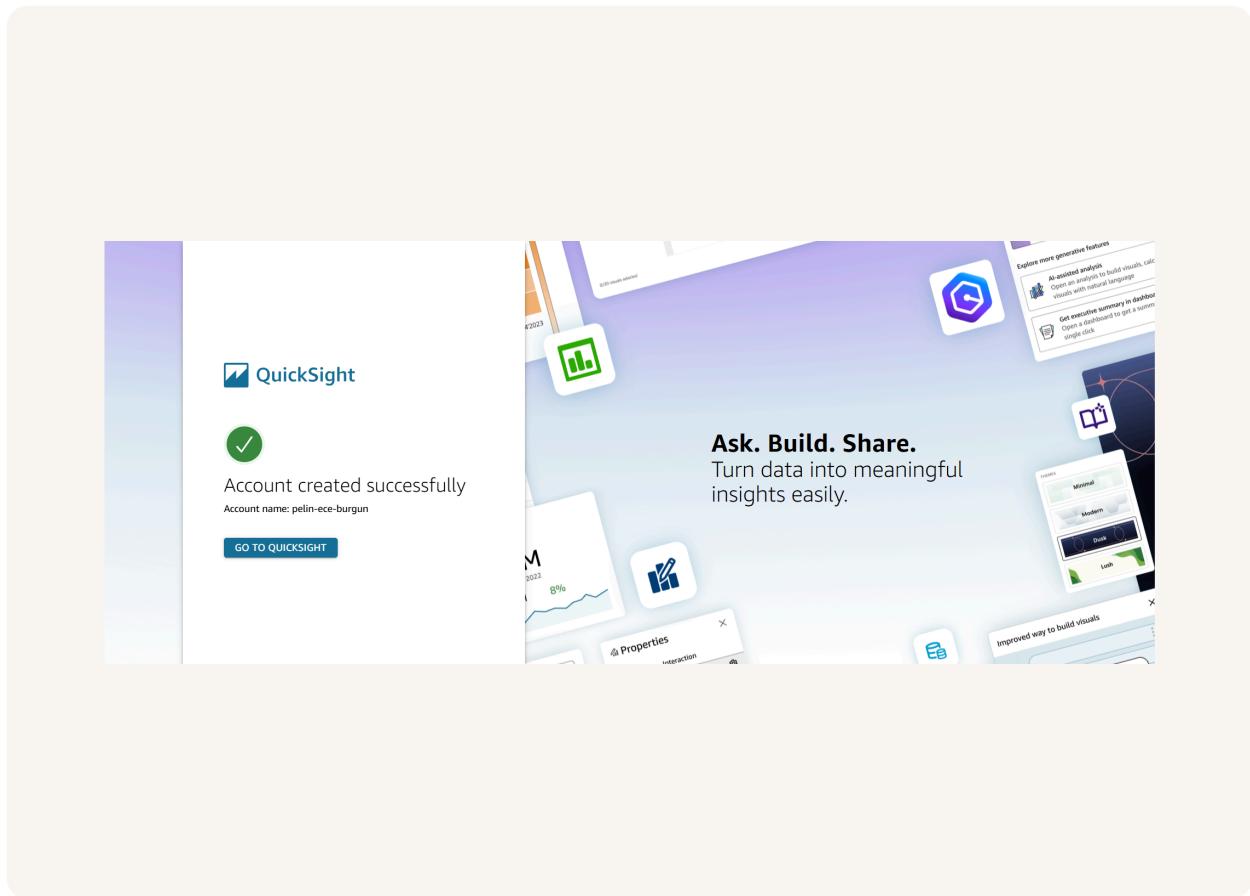
I edited the `manifest.json` file by updating the file paths and schema definitions to match the structure of the `netflix_titles.csv` dataset. It's important to edit this file because it ensures that the data is correctly processed and mapped.

nextwork-quicksight-project-pelin-unique Info					
Nesneler		Özellikler	İzinler	Ölçümler	Yönetim
Eşleme Sırala Filtre Ara					
<input type="checkbox"/>	manifest.json	json		February 5, 2025, 11:15:47 (UTC+03:00)	311.0B Standart
<input type="checkbox"/>	netflix_titles.csv	csv		February 5, 2025, 11:10:13 (UTC+03:00)	3.2MB Standart

Create QuickSight account

Creating a QuickSight account costs nothing initially, as AWS offers a free trial for QuickSight. However, after the trial period, you may incur charges based on the pricing plan you choose (Standard or Enterprise) and the amount of data analyzed.

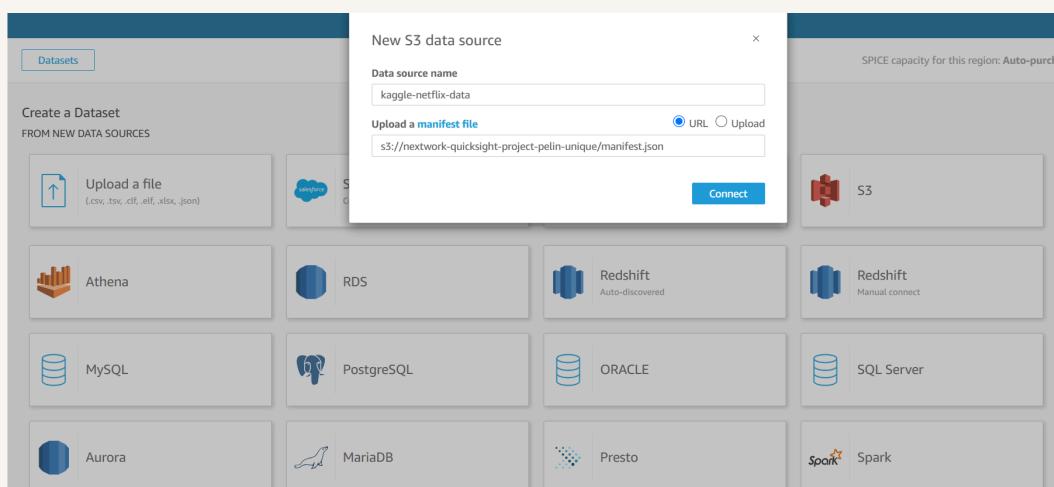
Creating an account took me just a few minutes. The process was straightforward, involving signing up with my AWS account and selecting the QuickSight service.



Download the Dataset

I connected the S3 bucket to QuickSight by visiting the "Manage Data" page in QuickSight, where I selected the option to create a new data source and chose S3 as the connection type.

The `manifest.json` file was important in this step because it defines the structure and metadata for the data stored in the S3 bucket, such as the file format, column names, and data types.

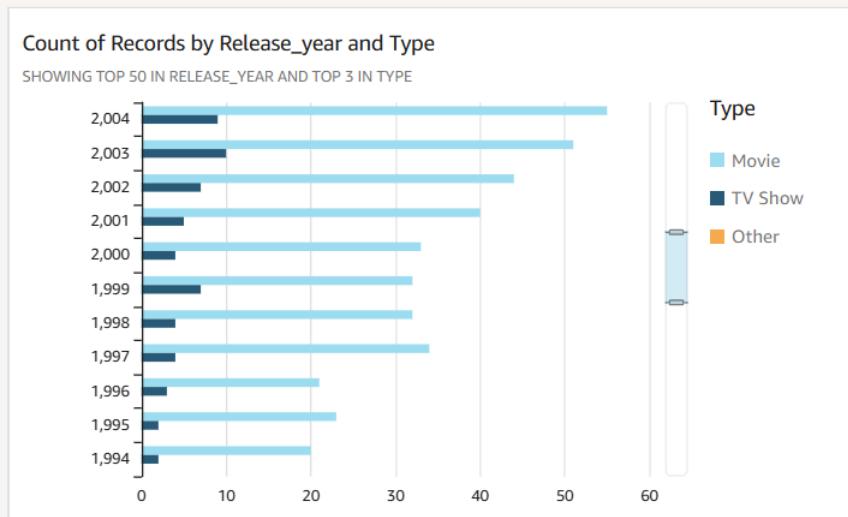


My first visualization

To create visualizations on QuickSight, I first connect a data source (like my S3 bucket), then choose the dataset I want to visualize. After that, I use the "New Analysis" option to select the visual type (such as bar charts, line graphs, etc.)

The chart shown here is a breakdown of the count of records by release year and type. It displays how many Netflix titles (movies and TV shows) were released each year, grouped by their type (movie or TV show). This helps visualize trends over time.

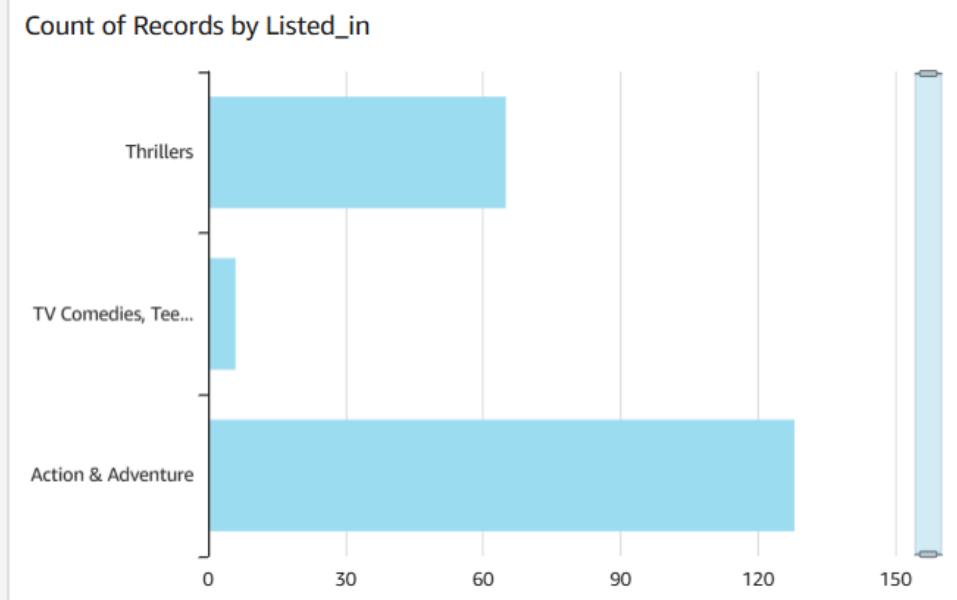
I created this graph by dragging and dropping the "release_year" field onto the Y-axis and the "type" field onto the Color or Legend option to distinguish between movies and TV shows.



Using filters

Filters are useful for narrowing down the data to focus on specific subsets that are relevant to the analysis. By applying filters, you can remove unnecessary information.

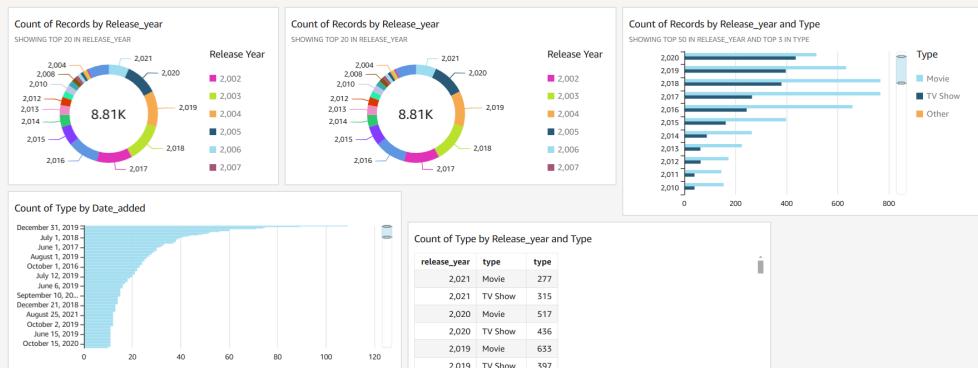
This visualization is a breakdown of the count of records by the "listed_in" category. Here I added a filter by selecting only three types: Thrillers, TV Comedies, and Action & Adventure.



Setting up a dashboard

As a finishing touch, I changed the titles of the visualizations to make them more descriptive and clear, ensuring that anyone viewing the dashboard would easily understand what each chart or graph represents.

Did you know you could export your dashboard as PDFs too? I did this by clicking on the "Export" button in the top-right corner of the dashboard, selecting the "Download as PDF" option.





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