Oluwatosin Obalana

Project: Build Data Dashboards

Tableau Visualization Links:

1. Flight Delays and Cancellations
2. US Census Demographic Data
3. YouTube Data US

Flight Delays and Cancellations:

The first graph depicts the many reasons of flight delays. Departure delay is the most common cause, occurring over two million times. The second graph shows volume by flight; all of this is subject to change by the airlines. The third graph illustrates the average airline delay cause by month; we can analyze the pattern of the delay reason over time to determine where it peaks and lowers. The fourth graph depicts the overall number of flights taken during that particular week.
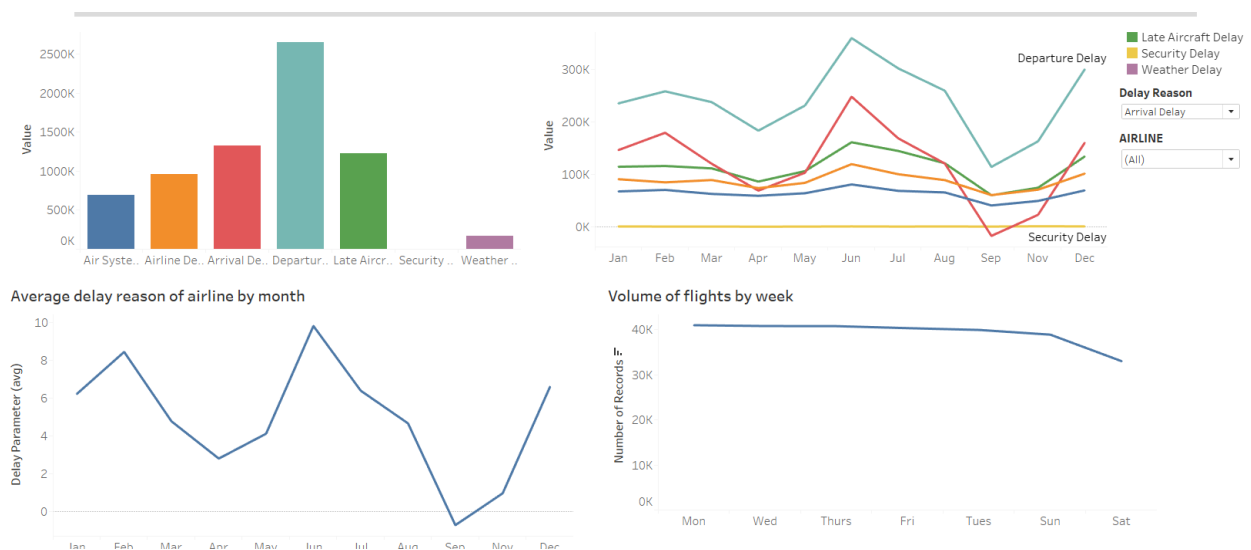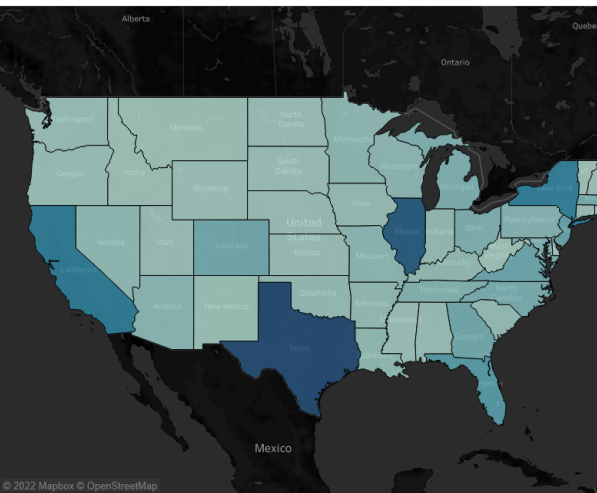
We can observe the average delay cause of airline by month change if we filter by delay reason to see where it peaked and where it was the lowest.
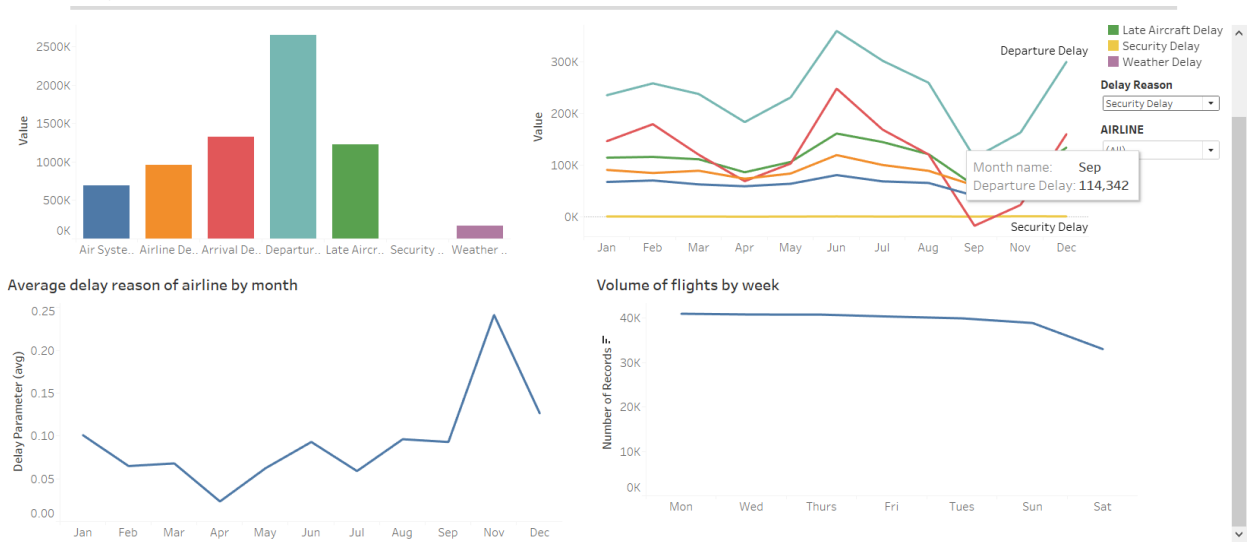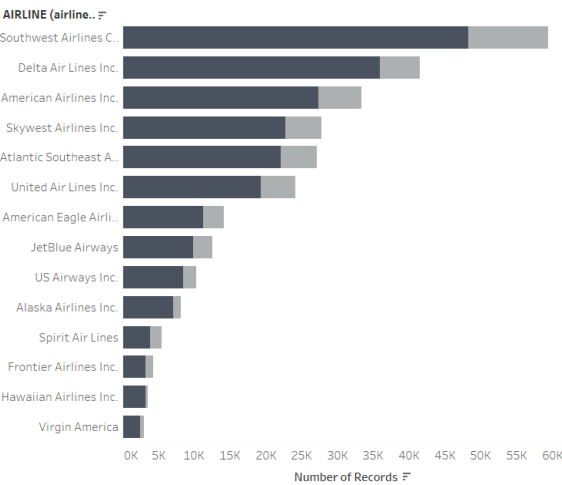

The map depicts the number of cancelled flights per state, with Texas having the highest number. This map can be used to filter airlines based on their on-time performance to see which ones are the best in each state. An airline arrival that is deemed on time is one that happens within 15 minutes of the planned arrival time. The schedule is the basis of the airline's consumer proposition.
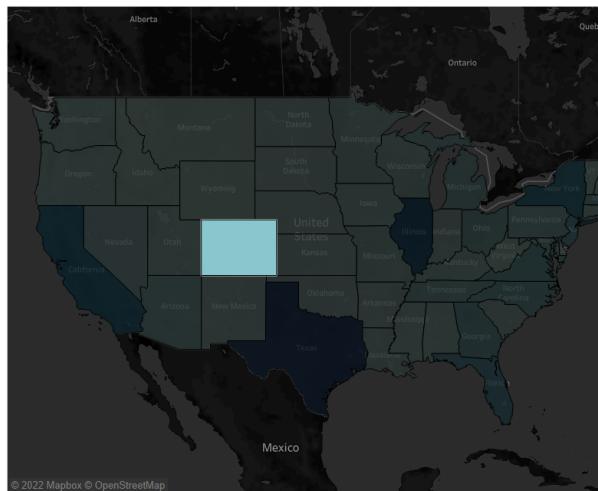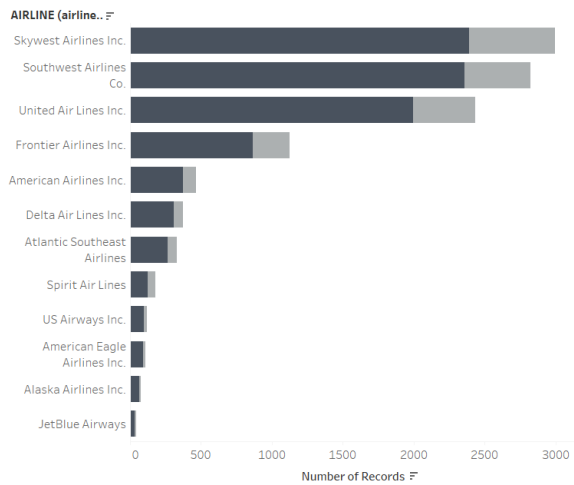

Clicking on **"Colorado"** to reveal the airline on time performance, we can see that Skywest airline inc has the best on time record in that state.
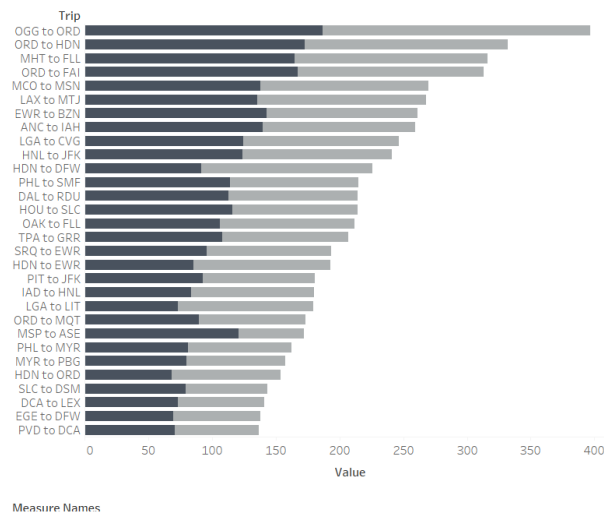
Cancelled flights by states


Airline on time performance

The first graph shows the top 30 routes with the highest arrival and delay periods, while the second graph shows the average distance traveled by each route. The route is created by combining the origin to the destination airports.

**Top 30 route with the highest arrival & departure delay time**

Top 30 routes with the highest average distance
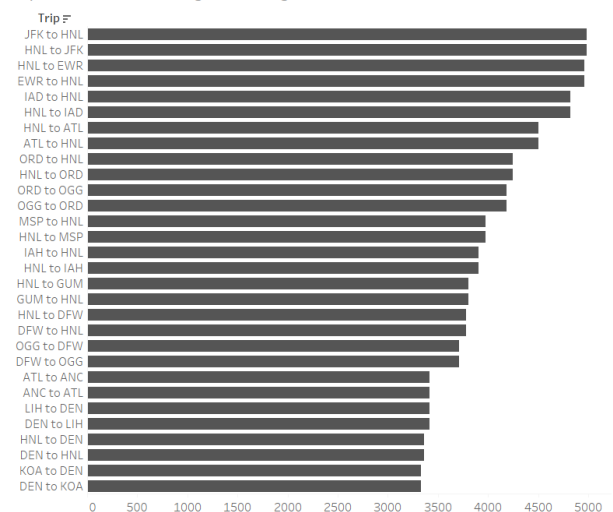
A p-value of 0.05 indicates that there is only a 5% probability that the data from your sample occurred by chance, indicating that there is a significant correlation between x and y. If the P-value is less than the level of significance (0.05). The correlation is statistically significant, we conclude. or, to put it another way, "we infer that there is a linear relationship between x and y at the level." The relationship between cancelled flights and airline delays is strong and linear, as evidenced by r-squared and p-value values less than 0.0001.
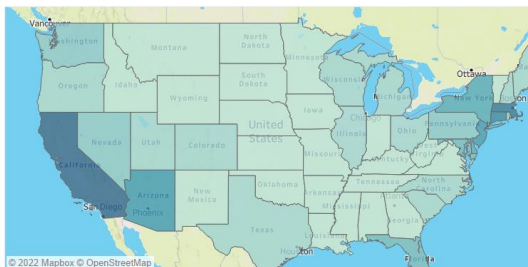
Relationship between distance and delay

Departure Delay = 0.011702*Distance + 583.19
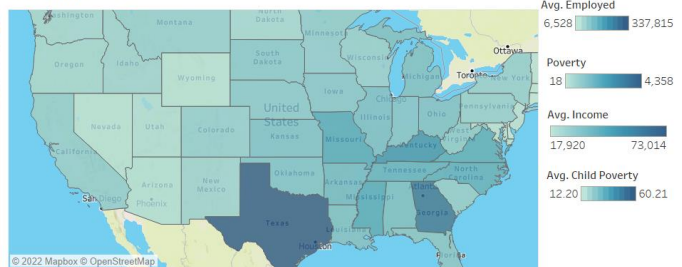R-Squared: 0.831226
P-value: < 0.0001
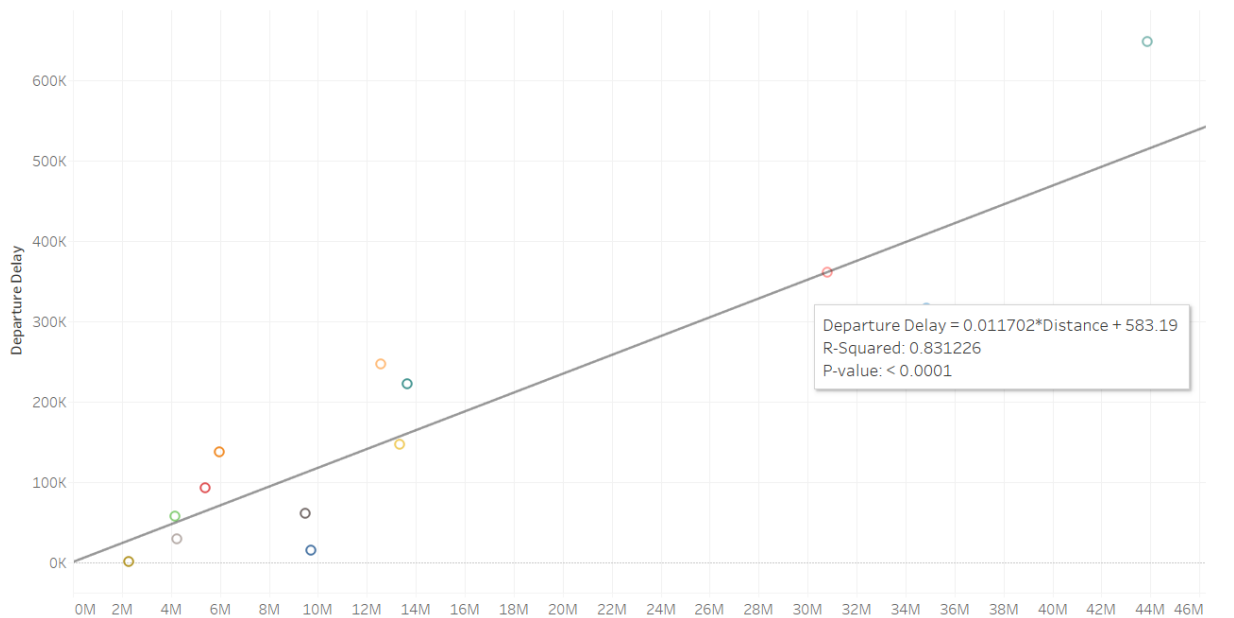
US Census Demographic Data:

California has the most employed individuals per state, whereas Texas has the greatest average number of poverty per state, New Jersey has the most income per state, and Mississippi has the worst child poverty per state.
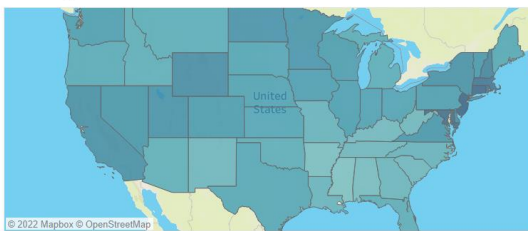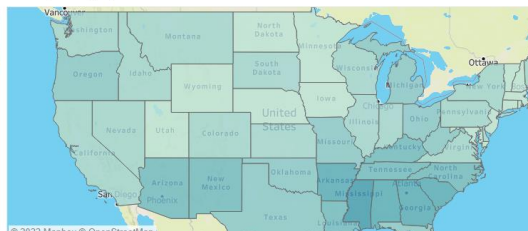

Employed people by states

Poverty by states

Income by states

Child poverty by states

Avg. Employed
6,528 — 337,815

Poverty
18 — 4,358

Avg. Income
17,920 — 73,014

Avg. Child Poverty
12.20 — 60.21

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The relationship between unemployment and poverty is strong because the p-value is less than 0.05; the same is true for the relationship between income and poverty and income per capita, unemployment and child poverty; the exception is the relationship between employed and poverty, which is weak because the p-value is greater than 0.05.
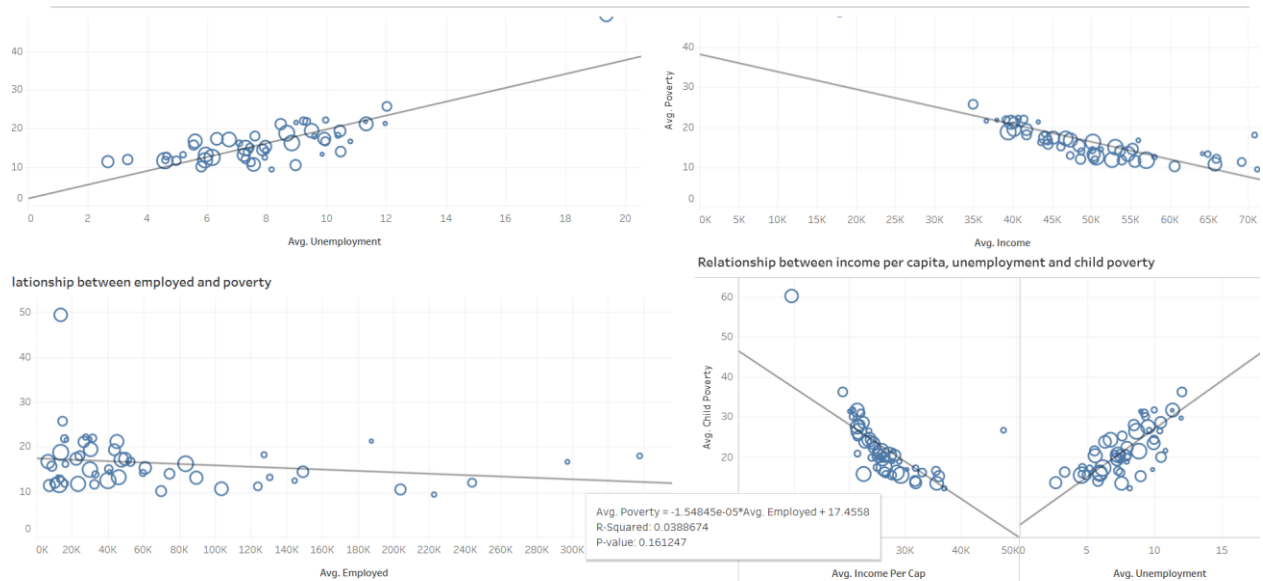
West Virginia has the greatest average mean commute, while Puerto Rico has the highest average poverty. California has the most population, and it is a white denominated country, as seen in graph 3. Clicking on the map will indicate the degree of each possible race in the state.
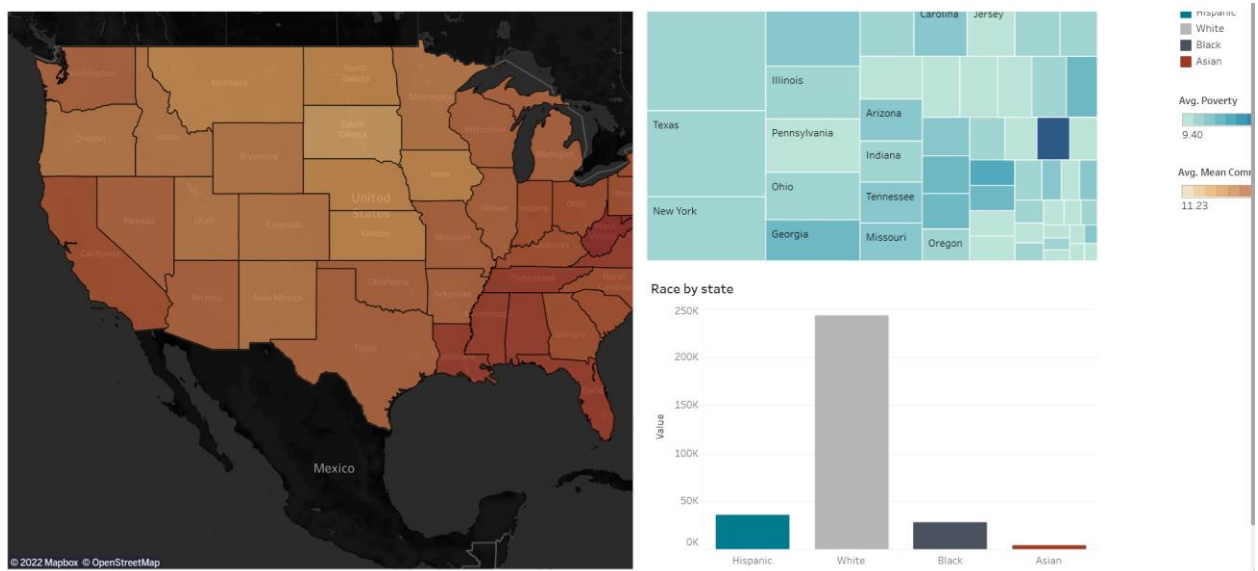
Clicking on "Arizona" will display the interactivity of the state's different races.
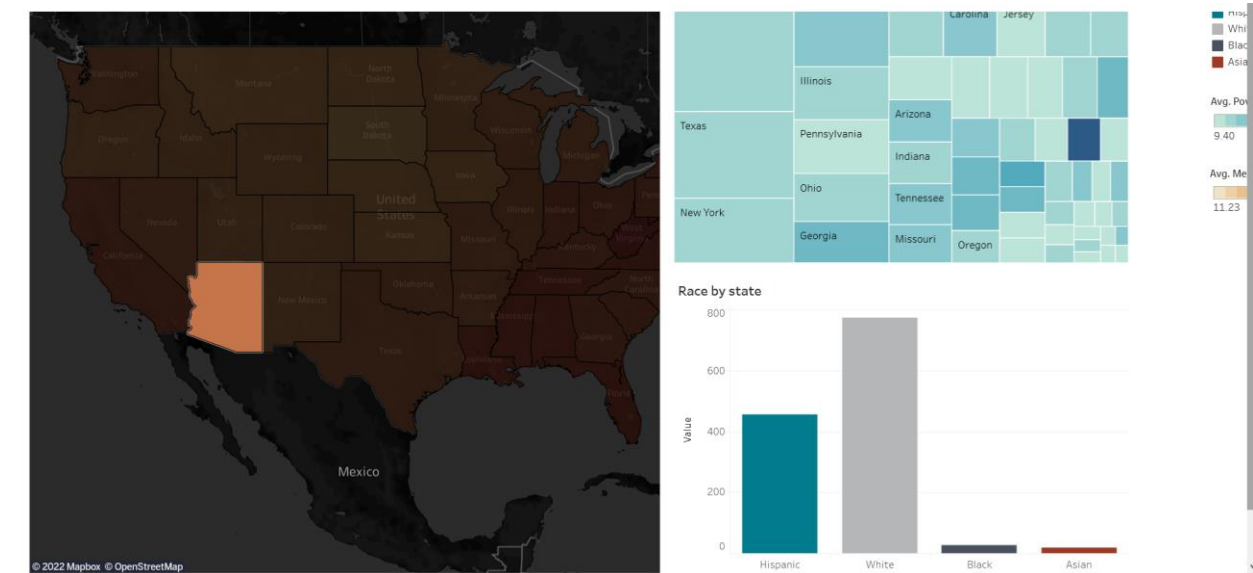
The first graph depicts the number of men and women in each state, with California having the highest number, while the second graph depicts various modes of transportation, with driving being the most common in most states.
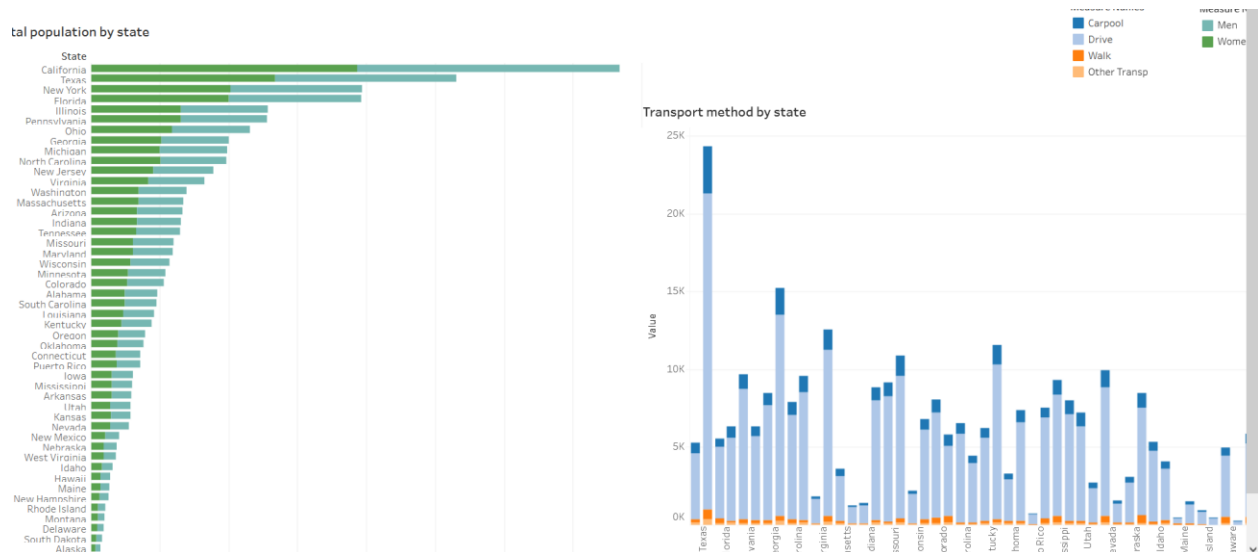
YouTube Data US:

Florida has the most views per state; you can check the total likes, category views, and total dislikes for each state by clicking on the map

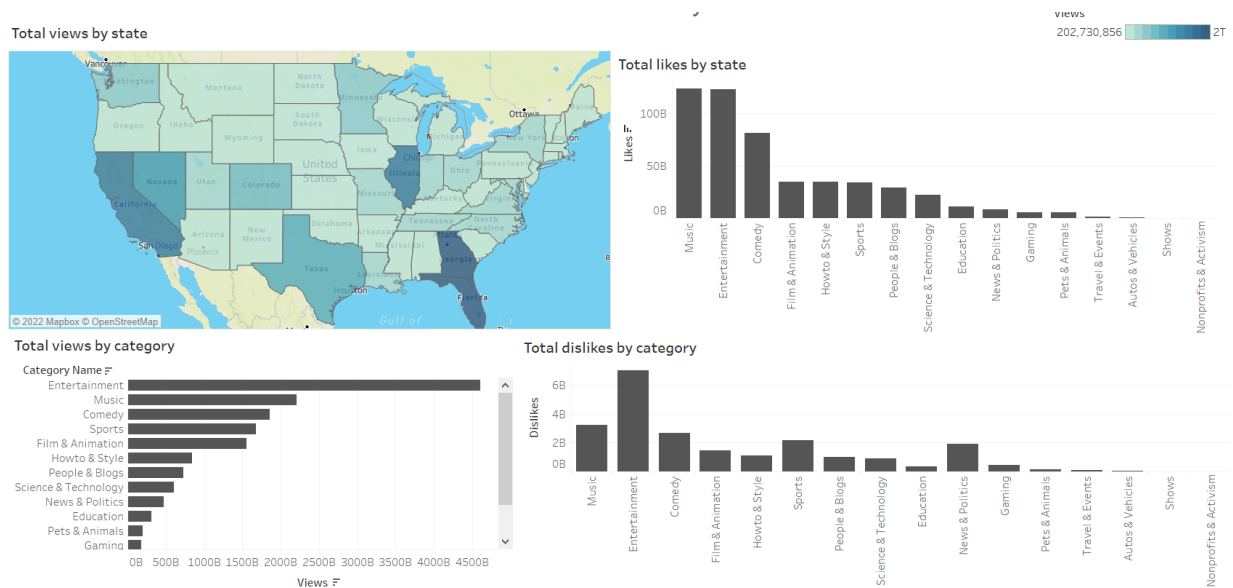Total views by state — Total likes by state — Total views by category — Total dislikes by category

You may see the interactivity of the amount of likes, dislikes, and views if you pick Nevada. This can assist in determining what to show in specific states, resulting in increased revenues.

State: WA
Views: 553,983,132,789
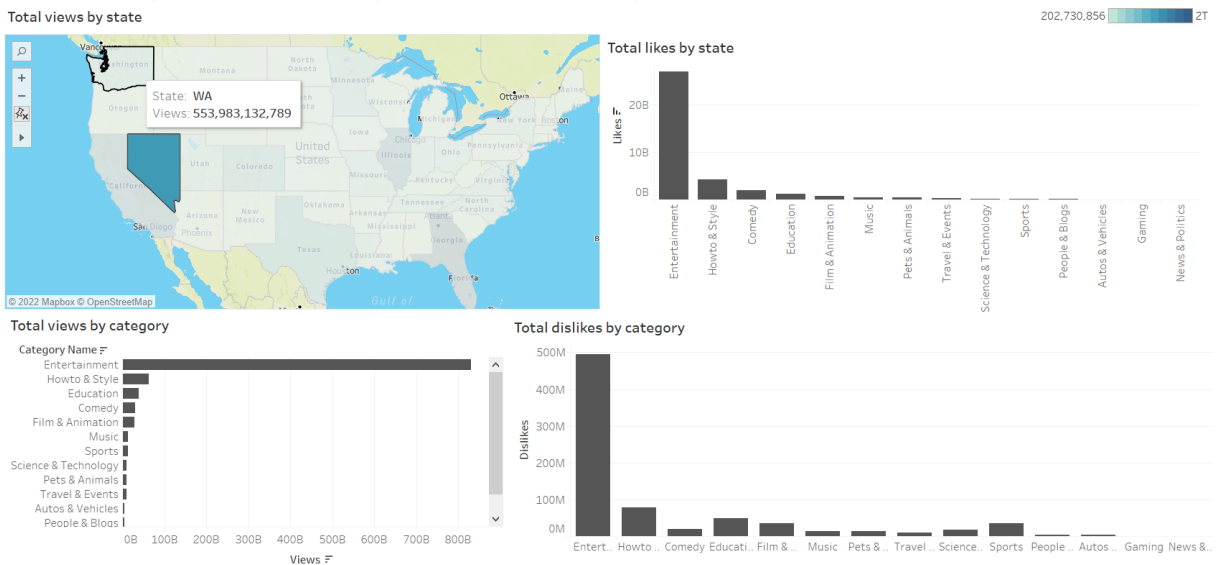
I looked at the top 20 most popular titles by likes and saw that Red Velvet had the most, then I looked at its trending period and discovered that it peaked on April 18, 2002, and I also looked at the publish time trends to see that it was improving.

Top 20 title by likes

title (TagsTrans.. ⌐

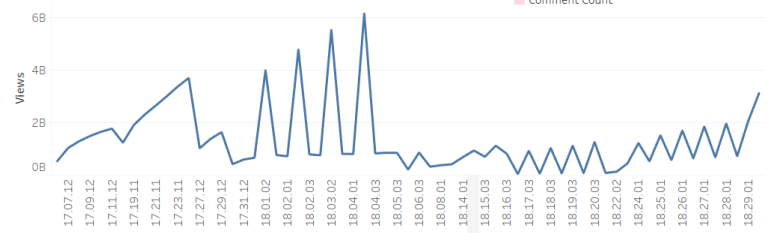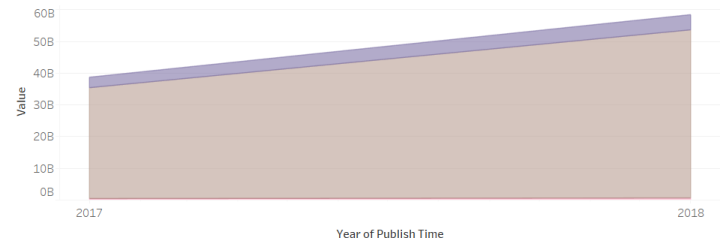|	
Red Velvet 레드벨벳 ..	
Marvel Studios 10th ..	
NCT 127 엔시티 127 '..	
Football vs Soccer Tr..	
THRIFTING BRANDS!..	
j-hope 'Airplane' MV	
Eminem - Walk On W..	
Legion | Season 2 - O..	
Red Velvet 레드벨벳 ..	
DOING MAKE UP WI..	
EXO 'Electric Kiss' M..	
World's Longest LEG..	
Best of 2017 | Dude ..	
YouTube Rewind: Th..	
[STATION] SMTOWN.	
Marvel Studios' Ave.	
Eminem - River ft. E..	
Red Velvet 레드벨벳 ..	
Real Life Trick Shots ..	
All Sports Golf Battl..	

0B 1B 2B 3B 4B 5B 6B 7B 8B
Likes ⌐

Red velvet trending period

Likes
Views
Dislikes
Comment Count

Publish Time trend for Red Velvet

2017 → 2018
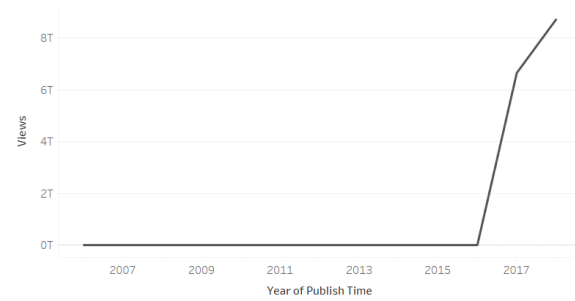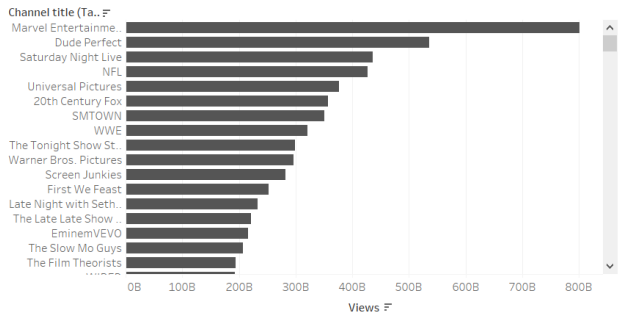Year of Publish Time

The total views published by time began to rise in 2016, with the most popular tags being marvels entertainment and Atlanta having the most tags per city.

Total views by publish time

Year of Publish Time

Most viewed tags

Channel title (Ta.. ⌐

Marvel Entertainme..	
Dude Perfect	
Saturday Night Live	
NFL	
Universal Pictures	
20th Century Fox	
SMTOWN	
WWE	
The Tonight Show St..	
Warner Bros. Pictures	
Screen Junkies	
First We Feast	
Late Night with Seth..	
The Late Late Show ..	
EminemVEVO	
The Slow Mo Guys	
The Film Theorists	

0B 100B 200B 300B 400B 500B 600B 700B 800B
Views ⌐

Number of channels by city

City