Project Build Dashboards - Flight Delays and Cancellations

Note :

- First I Loaded The Flight.Csv Data and Decided To Inner Join The Airline.Csv "Iata Code " WIth The "Flight Airline " .

- Then I Decide also To Inner Join "Flight Destination " From The Flight.Csv With Airport.Csv "Iata code" To Get an attached Results .

Question1 :

Which airlines or airports have the worst delays or which destinations and arrival destinations have the most delays ?

I made a calculated Field with summation of all Delays to Know The Total Delays Factor for Each Place .

From This Chart View :

https://public.tableau.com/app/profile/ahmed5507/viz/Whichairlinesorairportshavetheworstdelays-ChartView/Sheet2

Also we can Take another look fromThis map View with a Delay Slider:

https://public.tableau.com/app/profile/ahmed5507/viz/Whichairlinesorairportshavetheworstdelays-MapView/Sheet1?publish=yes

Summary : As we can see, "chicago o'hare international airport" as a Destination airport Have The Highest Delays in Total of   "601.455" Delay.

Design Explanation : I Decide to Make a first a chart View cause it's easier to see each Airport On Char to decide visually who has The highest Delays ,Then I decide to attach it with a map view with a slider so That you can change The delays Rate and see it for each City /State .

Resources : N/A

Question 2 :

What causes delays?

In this Horizontal Bar view :

https://public.tableau.com/app/profile/ahmed5507/viz/Whatcausesdelays-horizontalbarsView/Sheet4?publish=yes

Or in This colored bar view :

https://public.tableau.com/app/profile/ahmed5507/viz/Whatcausesdelays_16547555022250/Sheet3?publish=yes

Summary : we Can Note That The most common cause for Delays is a " Departure Delay"Type as we can see in Horizontal bar view , That maybe Delay number vary from month to another but The Departure Delay is still The most common Delay Type in almost all Airports , also in rare cases it can be change from airport to another but its still The dominant factor for delays .

Design Explanation : This was actually a hesitated Choice but ithink in The last ,That horizontal bars or colored bars depending on what colors you want is still an acceptable choice For variety shows like Delays Types with a color .

Resources : N/A

Question 3 :

What are The flight numbers and aeroplanes with Highest Delays for every Airport ?

From This Bars :

https://public.tableau.com/app/profile/ahmed5507/viz/WhatareTheflightnumbersandaeroplaneswithHighestDelays/Sheet5?publish=yes

Summary : We can Know what Flights and airplanes exactly are related For Those Delays to help us Fix Those Problems in The future or even evade specific circumstances .

Design Explanation : horizontal bars with a filter for every airport To make a good use of The airport you want instead of searching all around .

Resources : N/A

Dashboard :

Summary : This DashBoard will make it easier to search side by side in every aspect for from The map for every airport in every State That Have High Delay Time, and by choosing The Airport you want will give you and info of what state That Airport and what Total Delay , Flight Number and Airplane of That Flight .

Design Explanation : a Mix of states map and Delays Types Bars is with side Filter is considered a customizable option for the attached results .

Resources : N/A

Story:

https://public.tableau.com/app/profile/ahmed5507/viz/ProjectBuildDashboards-FlightDelaysandCancellationsStory/Story1?publish=yes

Summary : The Story begins with what are Those Destination Airports with The highest Delays , Then it Goes to what are Those Type of Causes That Led to Those Delays and Finally what are The Flight Numbers and airplanes Associated with Those Delay issues .

Design Explanation : The map is easiest way and a better way for viewer to control How much Those Delays with reflection to their state and airport , Then as i stated before That i decided to choose The colored bars for a variety of Delays types With each one has a color , Finally those Delays ,airports, airplanes and Flight Numbers associated to its better to control it with Filter and a bar to view Each one of them with all details .

Resources : N/A