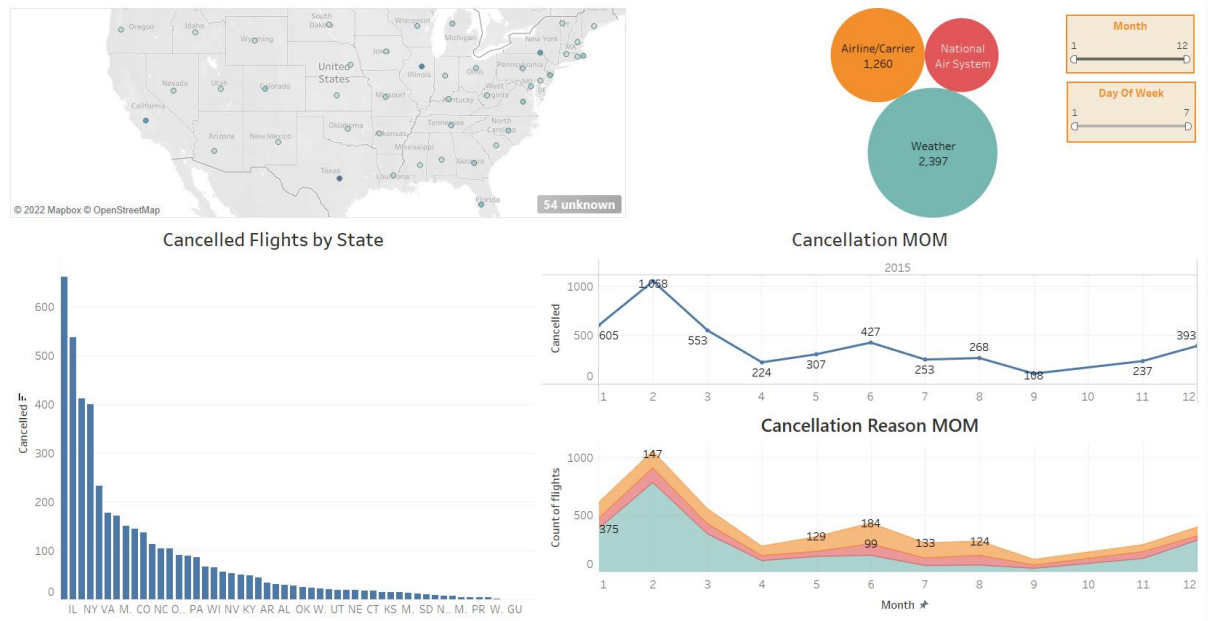


Telling Stories with Data

Using Flights Dataset

Insight 1:



Link:

https://public.tableau.com/views/FlightsCancellationAnalysis/Cancelled?:language=en-GB&:display_count=n&:origin=viz_share_link

Summary:

- **Map:** from this visual we can find that **Texas** State is the worst state in cancellation number of flights as it has (**661** canceled flights), and the second one is **Illinois** with (**537** canceled flights)
- **Packed Bubbles:** from this visual we see that the most cancellation reason is **Weather** with (**2397** canceled flights)
- **Column Chart:** this visual explains number of canceled flights per State.
- **Line Chart:** the visual shows count of canceled flights month over month over year 2015, we find that the worst cancellation occurred in **February** as the number of canceled flights on this month is (**1058** canceled flights) from total flights 22404 which means that almost **5%** canceled from the total flights which is a big number needs to inspect for reasons.
- **Area Chart:** from this visual shows the cancellation reasons breakdown MOM, we find that in **February** (the worst cancellation month) the main reason is **Weather** (**782** canceled flights), then **Airline/Carrier** (**147** canceled flights) and **National Air System** (**129** canceled flights).

Design:

- Used the map as filter in the dashboard.
- Added Month filter to interact with all worksheets in the dashboard.
- Added categorical filter of cancellation reasons which is interactive with the whole dashboard.
- Added Day of Week filter for hierarchy interaction with the month filter.

Resources: NA

Insight 2:



Link:

https://public.tableau.com/views/FlightsDelayDivertedAnalysis/DelayDivertedAnalysis?:language=en-GB&publish=yes&:display_count=n&:origin=viz_share_link

Summary:

- **Bar Chart: Airline Delay** this visual explains count of delayed flights because of Airline per each Airline name, we find that the worst airline in delay is **Southwest Airline CO** with **11660** times of delay out of **59437** total flights for this airline (which represented almost **20%** of total flights).
- **Column Chart: Airline Diverted Flights** this visual explains number of diverted flights per Airline, we can see that **Southwest Airline CO** has the biggest number of diverted flights as (**181** diverted flights).

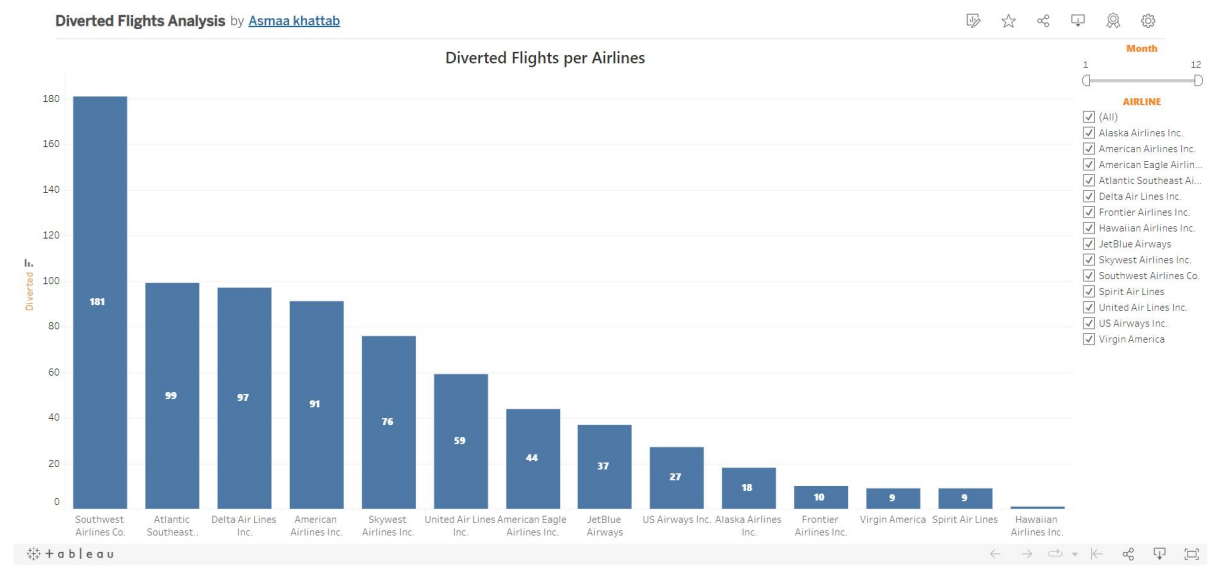
- **Bar Chart: Airport Departure Delay** this visual explains count of delayed flights because of Airport Departure per Airport, we see that **Hartsfield-Jackson Atlanta International Airport** is the worst in delay as it caused delay for **19925** times.
- **Bar Chart: Airport Arrival Delay** this visual explains count of delayed flights because of Airport Arrival per Airport, we see that **Hartsfield-Jackson Atlanta International Airport** is the worst in delay as it caused delay for **17877** times.

Design:

- Added Month filter to interact with all worksheets in the dashboard.
- Added Airline filter to interact with all worksheets in the dashboard.

Resources: NA

Insight 3:



Link:

https://public.tableau.com/views/DivertedFlightsAnalysis/DivertedFlights?:language=en-GB&publish=yes&:display_count=n&:origin=viz_share_link

Summary:

- **Column Chart: Airline Diverted Flights** this visual explains number of diverted flights per Airline, we can see that **Southwest Airline CO** has the biggest number of diverted flights as (**181** diverted flights).

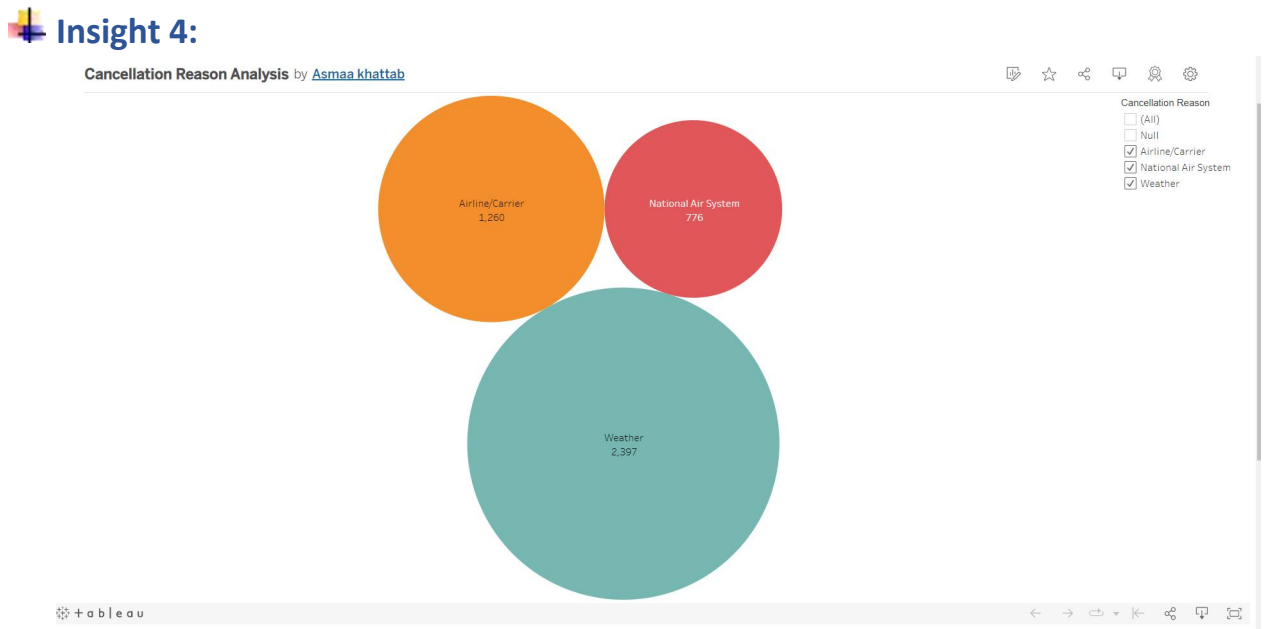
Design:

- Put **Airline Name** in columns and **Diverted** in rows aggregated as **Sum**.
- Use Airline names as filter and month also as filter.

- Put the diverted sum in Marks as labels.

Resources: NA

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Link:

https://public.tableau.com/views/CancellationReasonAnalysis_16627926397770/CancelReasons?:language=en-GB&publish=yes&:display_count=n&:origin=viz_share_link

Summary:

- **Packed Bubbles:** from this visual we see that the most cancellation reason is **Weather** with (2397 canceled flights).

Design:

- Put **Cancellation Reason** in Marks as colors.
- Put flights count in Marks as size and as label.
- Put cancellation reason and flights count in Marks as tool-tip.
- Use Cancellation Reason as categorical filter.
- Use month as filter to interact with the whole dashboard.

Resources: NA