

Tableau Story – Flight Data By <http://stat-computing.org>

Summery:

I am working in Airlines sector working at Saudia Airlines as Web app Developer and I saw same this data set every day so I decide to work with this data set to flight for 2008 so there are many of questions like what number of flights over each month? What the greatest number of the trip based on a weekday? Or what is most company have the highest travel hours? or did the subdual time of departure meet the actual time is there is any outliers? a lot of question make it in my story let us dig deep and saw how to answer this question in my story, And here what I am finding:

1. the airline company that has more flight not allows have more trips.
2. the company have a lot of delays the people not interesting to jump on them a flight they have less flight.
3. CA have a lot of trips I think people of CA love travel over countries or there have a lot of relations over other states and the New year and Christmas Day have the highest number of flights over the years.

Design:

1. I join airport data and airlines company with flight data.
2. Create new field like as AirTimeHours to convert air time to hours instead of minutes.
3. Use Latitude and longitude to represent a number of flight based on states of America.
4. Create new Field to identify the delay reason because there is no field for that just delay time in minutes which is not useful for the present the most reason of delay.

```
IF [Carrier Delay] != "0" THEN "A"  
ELSEIF [Weather Delay] != "0" THEN "B"  
ELSEIF [NAS Delay] != "0" THEN "C"  
ELSEIF [Security Delay] != "0" THEN "D"  
ELSE ""  
END
```

5. I use the allies to change the latter of cancel to use real cause of cancel.
6. I use the group for filter the weekday Name rather than a number of days.
7. I use summation and average and count most of the aggregation methods to make the visualization more realistic.
8. Use multiple charts to illustrate some points and make it more clear for people.
9. I chose line map graph for we can find easily the biggest states they have highest number of trip after that I use line chart to check the tiring of growth for number of trips over year also histogram to be insure what is beigest states that have more flight what is lowest one.
10. In second slide I try to check multiple things related to airlines companies so I use histogram to identify the highest and lowest number of aircrafts belong to companies and I was wandering about most cause of cancel so I use bar and pie chart and what worst airline that have a lot number of cancel I use multi histogram.
11. I use scatter plot to check if there correlation between schedule and actual time for arrival and departure

Feedback:

1. I use scatter plot to check if there is any outliers between actual and schedule time for arrival and departure
2. I discuses with one expert in my field to check with him what is most reason for cancel flights.

Tableau graph

Initial Version

https://public.tableau.com/profile/faial3636#!/vizhome/Flights_init/count_flight_vs_month

Final Version

https://public.tableau.com/profile/faial3636#!/vizhome/Flights_Final_0/Story2