

Design

Before Feedback:

I have collected the data from Airlines in Us for the year 2008 and have performed analysis using Tableau.

I have done some modifications to the original Data.

1. Created Region as Group to split the data as East and West.
2. Created a Hierarchy by combining Month, Days of the week and Days of Month.
3. Had done some modifications to the Cancellation code by keeping A, B, C and omitting Null and D values in the graph

Design 1: In the First Design, I have used a bar chart to plot Average cancelled rate of Unique Airlines with respect to region. Since we are splitting up with region and plotting individual airlines it is better to use a bar chart.

Design 2: In the Second Design, I have used the line plot to distinguish the difference in number of transactions between each month based on region. Since we are calculating average difference it is better to plot using line chart.

Design 3: We have used line plot to describe the change in pattern of the airlines with respect to month and days of the week. Line Plot is best used when we want to see the pattern.

Design 4: I have used the Horizontal Bar chart to describe the average delay for airlines travelling in different month. There are some airlines which has very minimum delay and flies early than expected.

Design 5: I have plotted two multiple bar charts to understand the pattern between airlines getting cancelled and getting diverted. I can see some interesting patterns between them with the help of bar charts.

Design 6: I have used the scatter plot to find the relationship between distance and diverted. We can see that both correlate with each other in a positive way. Scatter plot is used for finding relationship

Design 7: I have used the bar chart to understand the cancellation delay present in each and every airline. The cancellation code varied for each airline, we can see that efficiently using bar charts.

Design 8: In the Dashboard I have kept average cancelled rate for each airline filtered by month, Day of week and Unique carrier. I have even kept a map showing the destination for each airline, where the shape measures the frequency of transaction.

After Feedback:

I have created a month updated as Calculated field and updated the Quantitative variable as Categorical value.

I have updated the Cancellation code as Categorical Value and Airline code as Words so that it is easy for anyone to look into the specific airlines.

Did the same for Day of the week updated. Created a Calculated field and updated the Quantitative variable as Categorical value.