

## Airlines Cancellation Summary

The Data Source I have used is the airline system from the year 2008. I was able to visualize the unique carrier airlines with respect to its delay parameters and cancellation parameters. The information I obtained from this analysis gave me a clear prospective regarding airlines and their schedule. There were some hidden patterns where the airlines are quite busy and had more delays compared to others. This pattern varied for different months and days. From this Analysis, I have learnt some interesting facts about airlines and its behavior. We can also perform some other analysis if we had the price variable, which could help us to predict the value of price with respect to month and airlines.

From Fig 1: We can see that there is more cancellation in the east side compared to west. MQ and YV leads the graph. From the Fig 2: From both Region we can see that March month leads the difference with 6 - 9 % compared to others and leads the graph. From the Fig 3 we can analyze that most of the airlines travel with consistency with respect to distance, but we can see a dip during Saturday compared to others. From the Fig 4 American and United airlines has most delay compared to others and December is one of the busiest months with more delays. Fig 5 suggests that F9 is one of the best airlines which get cancelled and diverted less often. Fig 6 Shows the Correlation part in which we can see that distance travelled and diversion is positively correlated. If distance increases the possibility of getting diverted also increases. In Fig 7 most delay occurred due to but Carrier and Weather delay. From this we can say that the questions have been answered and dashboard is created to analyze the airlines with respect to destination port, filtered by month, days and airlines itself.