Team-Y (Chandu, Saran, Wen)

Analyzing the Flight Delays and providing insights to passengers for better planning their travel

Executive Summary

Reasons for choosing this topic:

There are two major reasons for why we chose this topic. The first reason is that the flight delay is a common phenomenon in our life and analysis of this problem can help us better arrange our trip. The second reason is that the data set of the flights delay information can be found online and the data relationship behind the data is clear and analysable.

Purposes and Goals of the project:

We have four main purposes of the project. First is to analyze the flight departure and delay data obtained from airports in United States. Second is to ask logical questions and then obtain answers for the same by using various functions in R. Third is to support the above answers by providing visualizations. And the final purpose is to help passenger better decide on which is the best day and time to travel.

Progress of the project:

We have followed five steps of progress to finish our project. Firstly, we found the origin dataset of flight information and removed the unnecessary columns. Secondly, we confirmed several problems to solve and talked about the way we use to solve them. Thirdly, we used R and packages in R to draw graphs to show the data relationship behind the problem and help us get the conclusion of each problem based on those visualizations. Fourthly, we Collected and organized the code and visualization graphs we made in a word file. Lastly, we build a ppt file and finish our project based on the summary word file.

Results of the project:

We answered several practical problems we listed by giving graphical diagrams and analysis that support the analysis. And we tried to best answer the questions by providing the optimal solutions possible.