

ISQS 6337 – Scripting Languages Group Project

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Project Title: Analysing the Flight Delays and providing insights to passengers for better planning their travel

Team Members: Chandu Yerragopu, Saran Balasubramaniam, Wen Xie (Y-Team)

List of Questions planned to be investigated:

- i. How many flights were there for each day of the week?
- ii. How many of the tail codes are not listed?
- iii. Which week had the highest proportion of flights that were late? Is this result significant?
- iv. Which day of the week is best for minimizing departure delays for customers?
- v. Which time of day is best for minimizing departure delay?
- vi. Which is the best day of the week to fly?
- vii. Which is the best day of the month to fly?
- viii. Which combination of arrival and departure airports is associated with the minimum and maximum delays?
- ix. How much do weather delays contribute to arrival delay?
- x. What are the variables that contribute to arrival delays?

Planned Data Sources:

We have obtained data from the below website:

<http://www.rdatasciencecases.org>

Ideas for Planned Analysis:

A clear understanding of data, cleaning of the data, identifying the key columns that help us in answering the above questions, importing the data to R/Python, using the built-in functions and libraries for analysis.

Expected Results:

Answers for all the above questions along with a graphical diagrams and analysis that support the analysis. We will try to best answer the questions by providing the optimal solutions possible.