

Supervisor Meeting 5:

Location: SIS, Meeting Room 4.6

Time: 4:30 PM onwards

Date: 28th March, Friday

1. Shalabh mentioned to Prof. Kam updates based on the last meeting. To look into whether there is a difference between the delay status of shipments across different GE business units. Rikin presented the Cross Tabs BU for the different results obtained from the SPSS analysis
2. Prof explained the importance of using a Mosaic plot. The team has to look into how the tool can be incorporated – the number simply is not the best way to show it – prof helped the team generate a Mosaic plot via JMP Pro. The contingency table generated through JMP is significantly cleaner on JMP as compared to SAS.
3. Looking at measure of associations on JMP, the table shows the results for all of the statistical tests for the Delay Status (Binary) vs. Business Units plot.
4. The thinner lines on the Mosaic plot refer to the Business Units for which there is a smaller volume as opposed, the GEAE and GHC are the ones with much larger shipments. Important to look at this analysis to show through the different years to see whether there were any changes or not
5. Rikin presented to prof the dashboard and how that is a summary report – Prof said that this is a good way to show and it is perfectly fine.
6. Prof Kam recommended using a Mosaic plot instead of bar charts on the Power BI. There are lots of features in the add-ins aspect of Power BI, explore other tools there.
7. Prof and team came to conclusion that statistical tests can potentially be done on JMP Pro and then the visualizations can be done on Power BI.
8. Potential recommendation to DHL – Why cannot tools like HTML interactive be used? – once the visualizations is generated, they can only view the visualization and not see the data. However, for Power BI, it is possible to view the data in the data tab as well
9. Rikin presented the BU report visualization on Power BI, also the backdrop which was the entire step of doing non-parametric tests and why we choose to do those specific tests
10. Conventional representation, people read from left to right – or make a boundary to segregate the two different visualizations and their data. Make the flow correct. Read styles tend to be different. Therefore box out the different visualizations and data
11. Representation of the tests on JMP Pro, upload your SPSS file and do so. The median and analysis results will be shown directly so that can be compared.
12. Rikin mentioned how we wanted to see whether there was a relationship in the delay and flight type (Cargo and Passenger). Follow the same analysis on JMP Pro now. Rikin showed how we only focused our analysis on Cargo and Passenger and excluded the 'Others' category because they were only 5% of the data.
13. Prof mentioned that the project is more or less done, need to focus on the writing of the report and the other deliverables.

14. Prof strongly said to maintain the report in Word Doc, need to see the editorial effort. This needs the individual tracking, individual effort and comments put through from each person.
15. **Current abstract is very general** – there is no clear sections and what kind of analysis we are doing. Now that you have done two tools, mention the mosaic plot, chi-square tests, contingency tables etc – there will be another section on the dashboard design as well. Need to make sure the abstract is less than 300 words. Keep the business overview in one paragraph, keep the other two paragraphs for analysis and dashboard
16. **Literature Review** - Refer to a chapter or book on the kind of statistical analysis that we did. For instance, the non-parametric tests, the contingency analysis etc and do this from a TEXTBOOK not google. Read through and then refer to one or two real life articles for instance medical journal, logistics companies etc which have used these statistical applications previously. Methodology will be case/context specific for this analysis. Mention how these methods help you to do your own analysis

Admin Matters: Slots will be sent out for 12th and 13th April for the USDA. Take up the slots based on what is most convenient