

UNLOCKING INSIGHTS INTO THE GLOBAL AIR TRANSPORTATION NETWORK WITH TABLEAU



**Smart
Internz**

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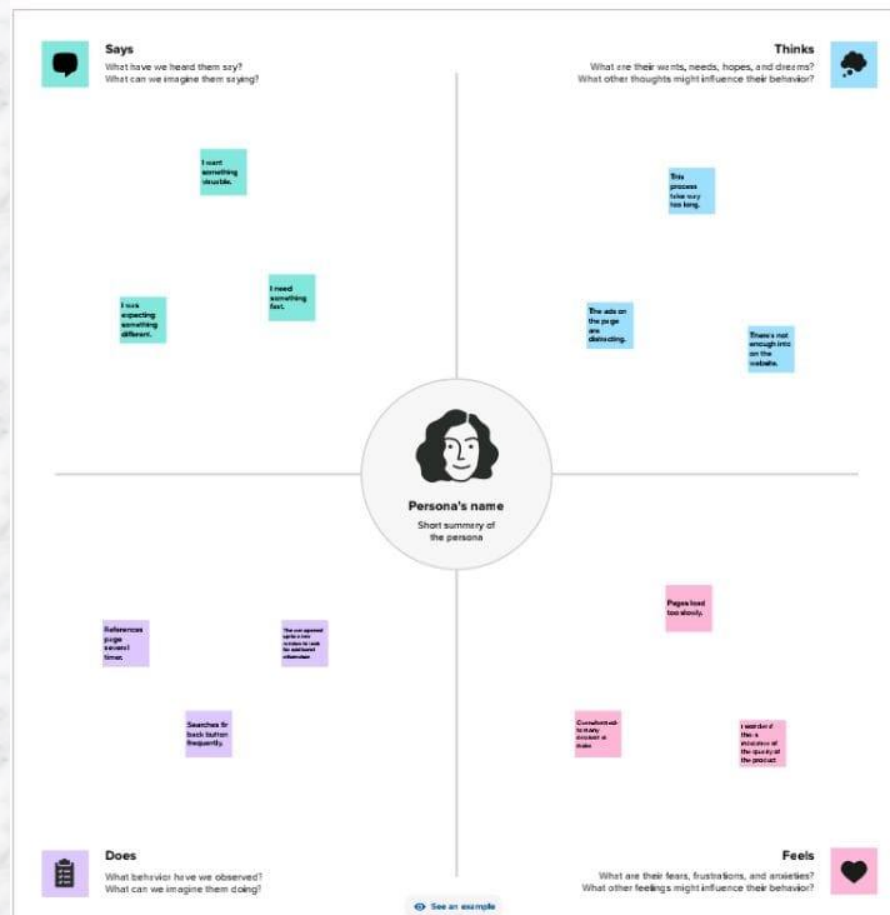
Introduction

- This Project titled “Unlocking Insights into the Global air transportation network with Tableau”. **Air transport network** or air transportation network (ATN) is an example of transport networks and spatial networks. The nodes of the network are the airports and the links represent direct flight routes between two airports. Alternatively, cities can be considered as the nodes with links representing direct flight connection between them. Air transport networks can be defined worldwide as well as for one region or for one airline company; the scale of the network can be global or domestic.

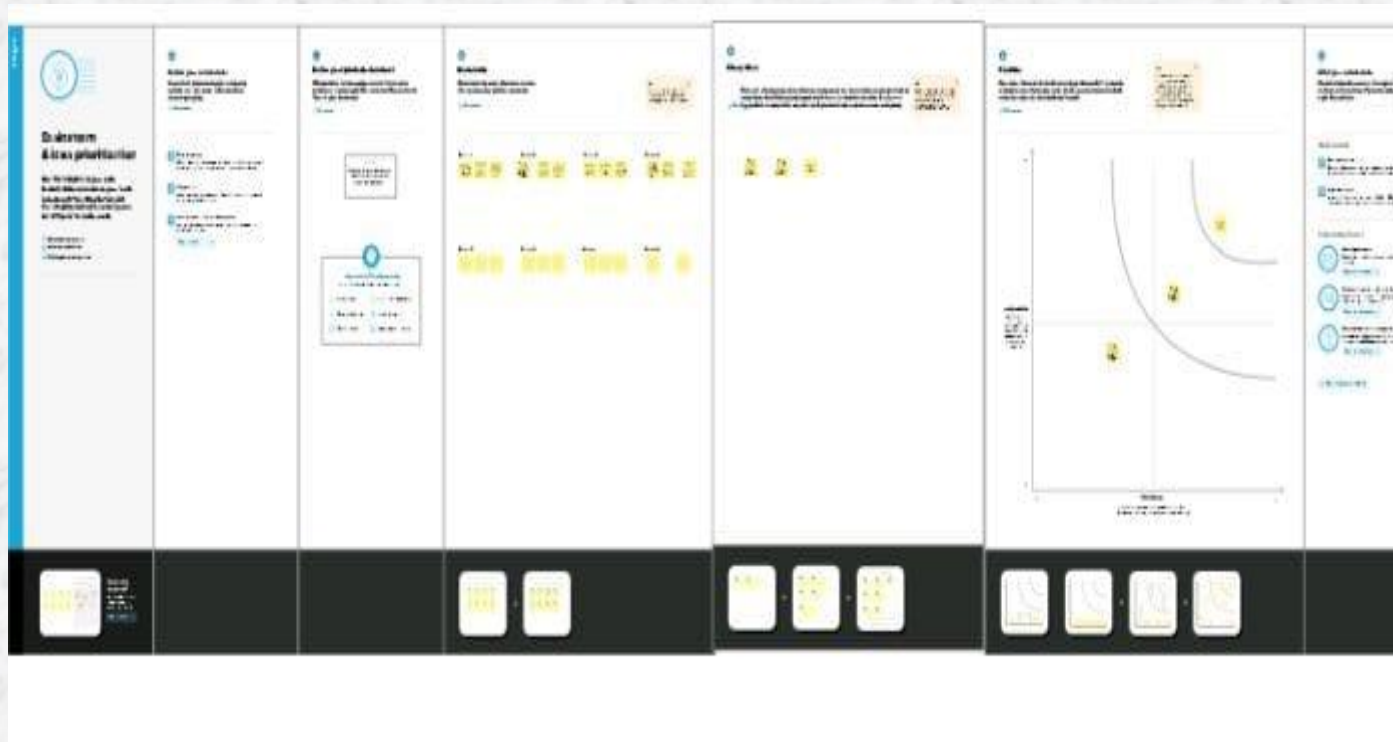
Visualization

- **The available dataset open the door to an array of unique visual depictions. Employing diverse visualization techniques like bar charts, line charts, heat maps, scatter plots, pie charts, maps, and others, provides a versatile toolkit for developing into project performance and efficiency. These visual representations serve multiple functions, including performance comparison, temporal trend analysis, and showcasing the distribution and relationships between variables.**

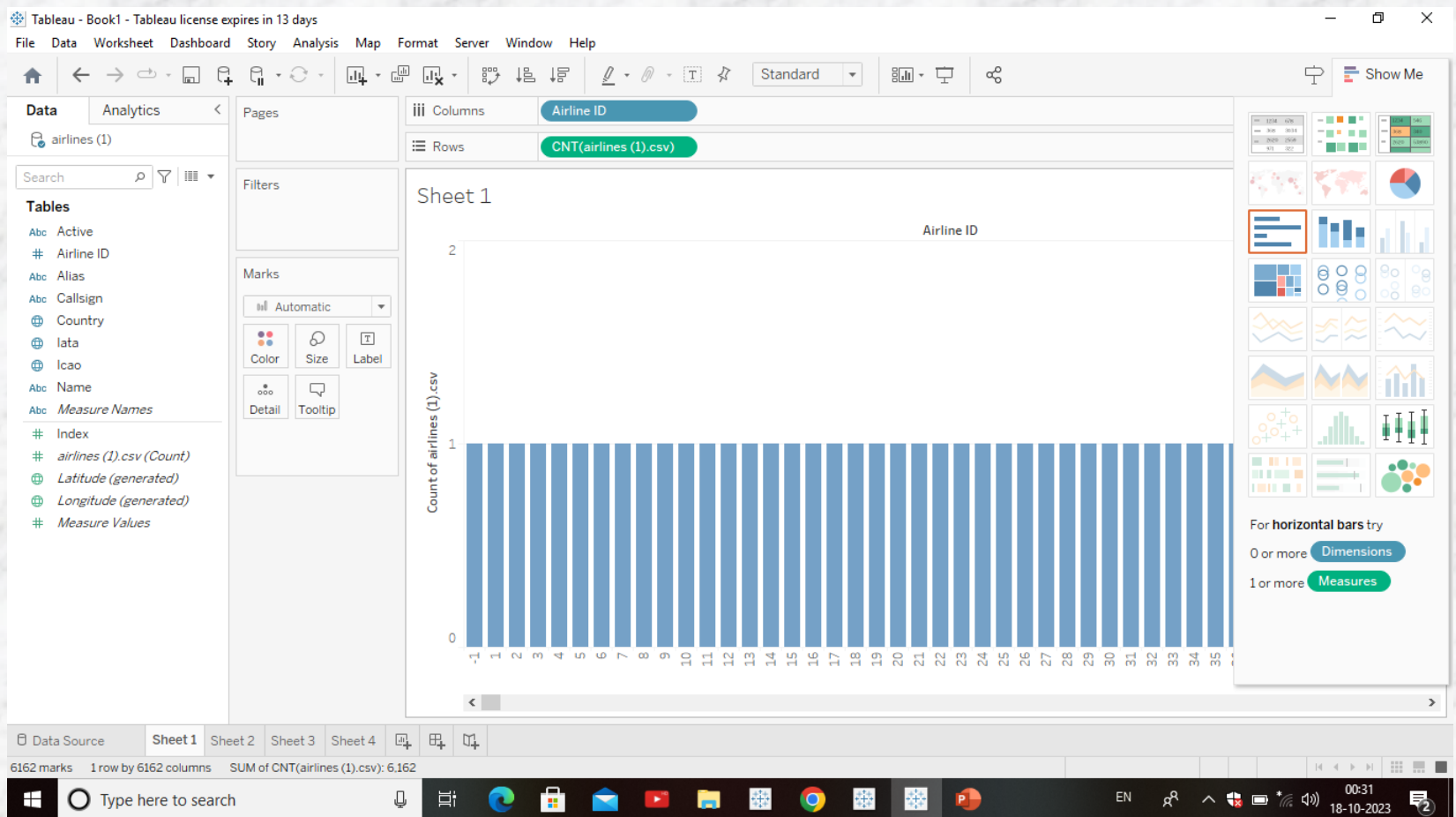
Empathy map



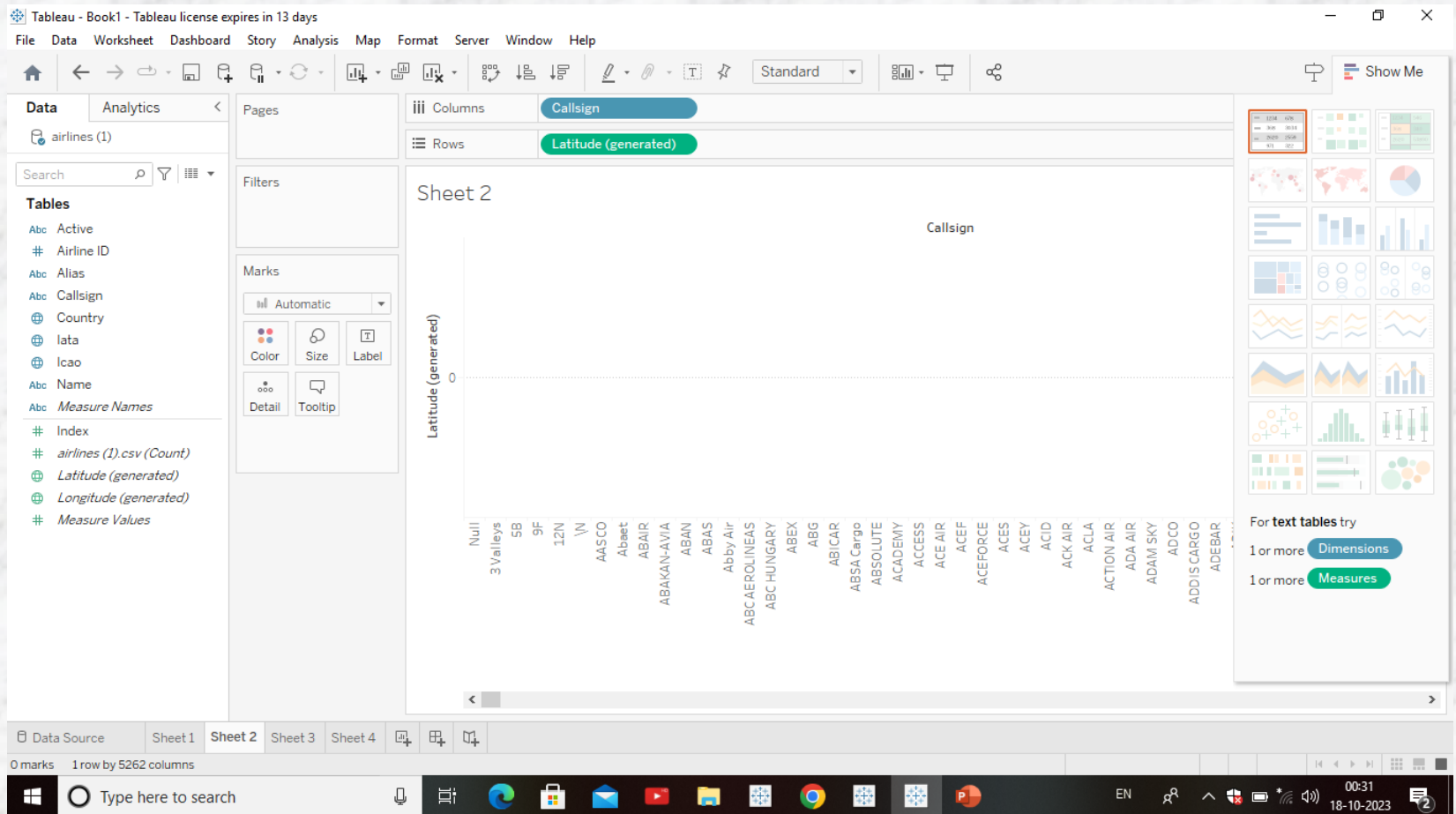
Brainstorming Map



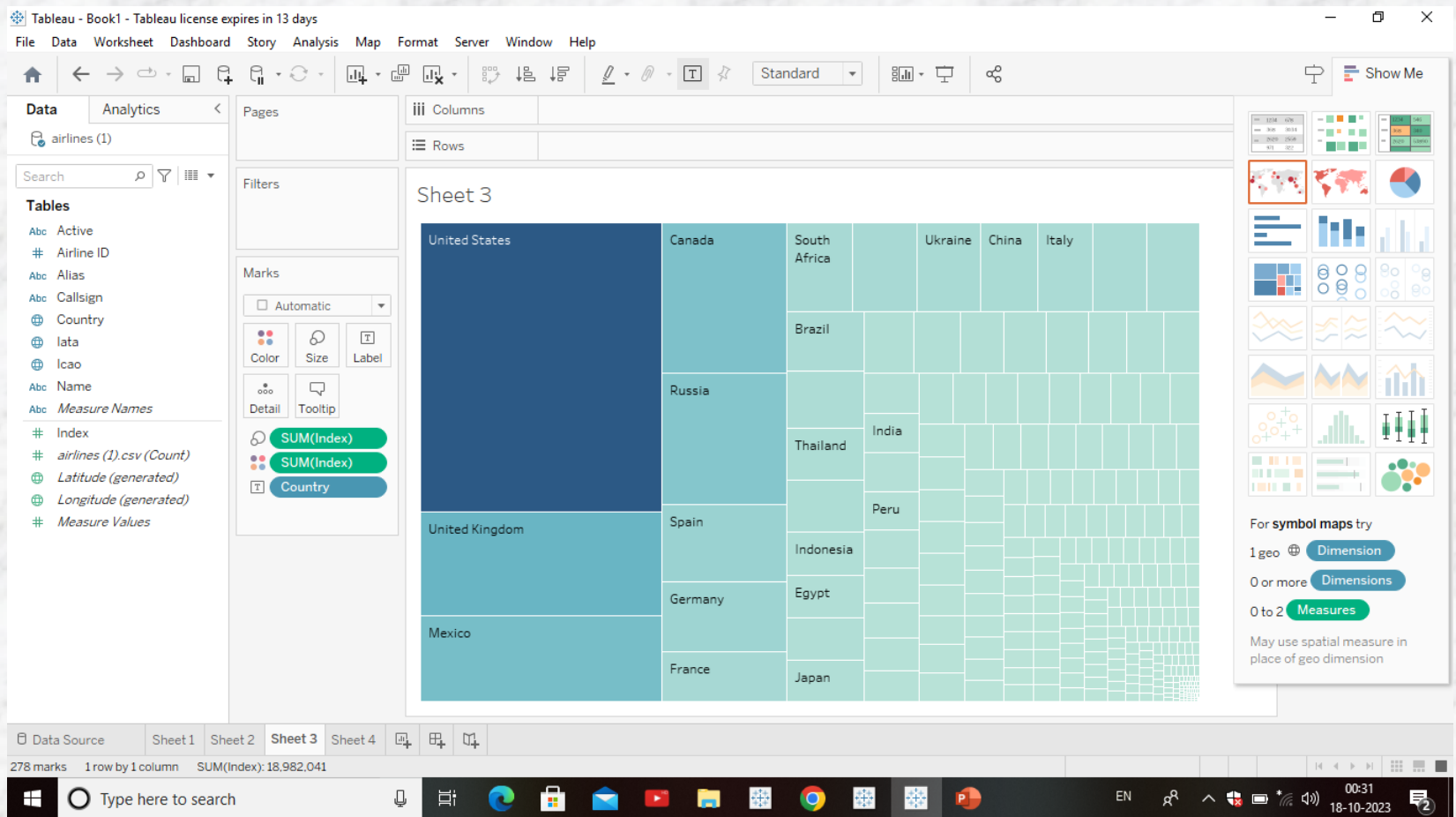
Air Transportation Network



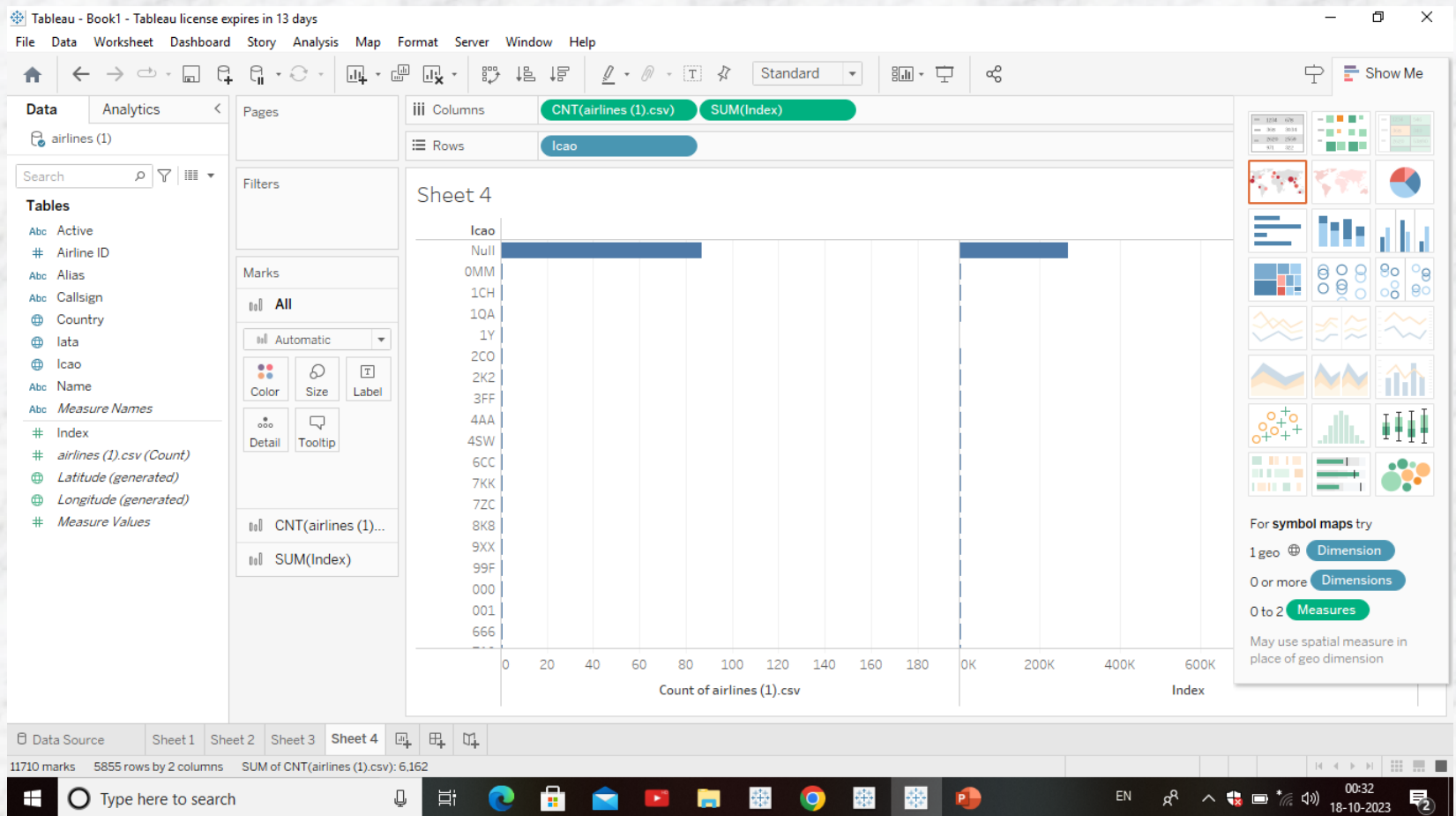
Global air insights with tableau



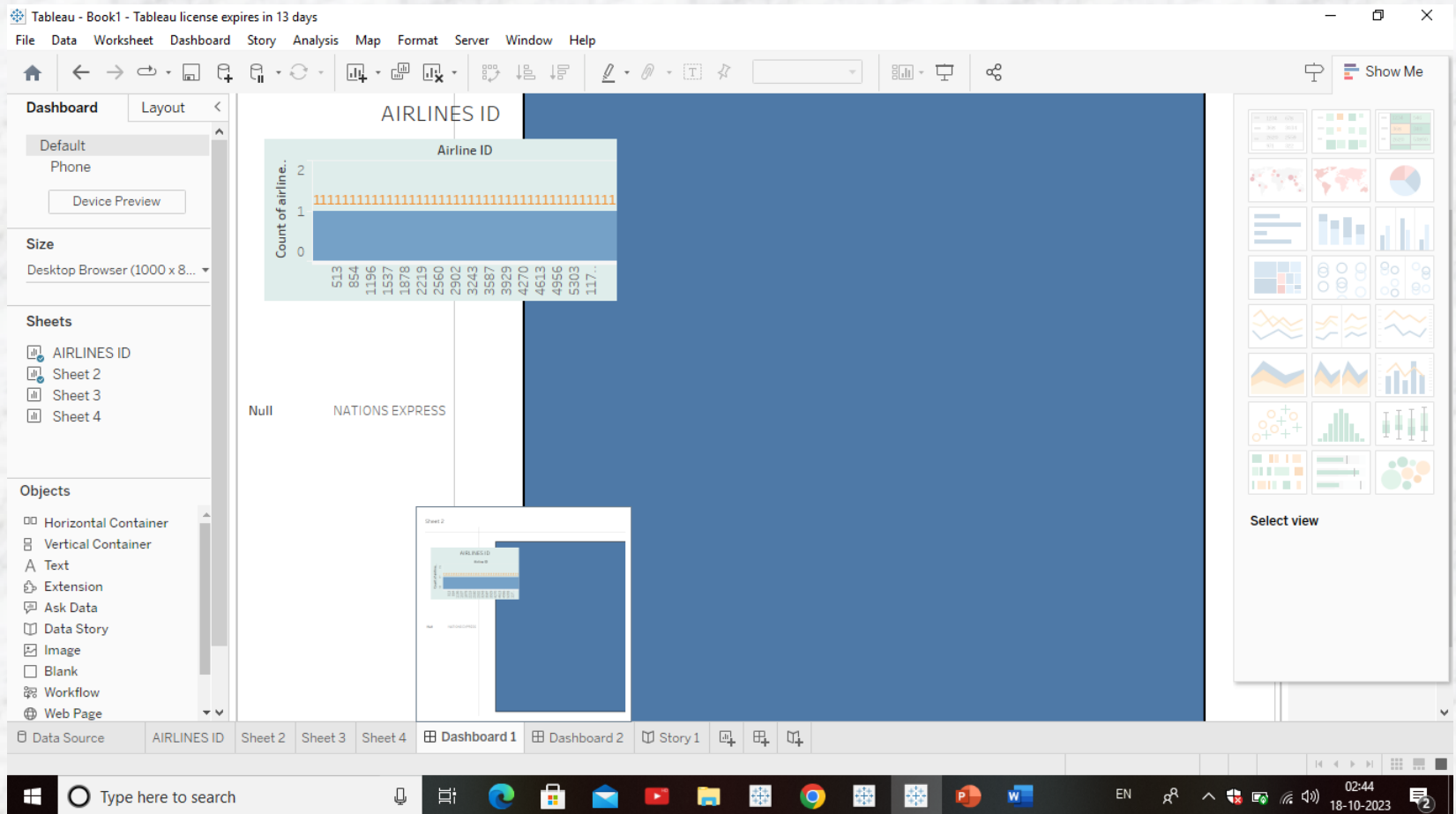
Transportation



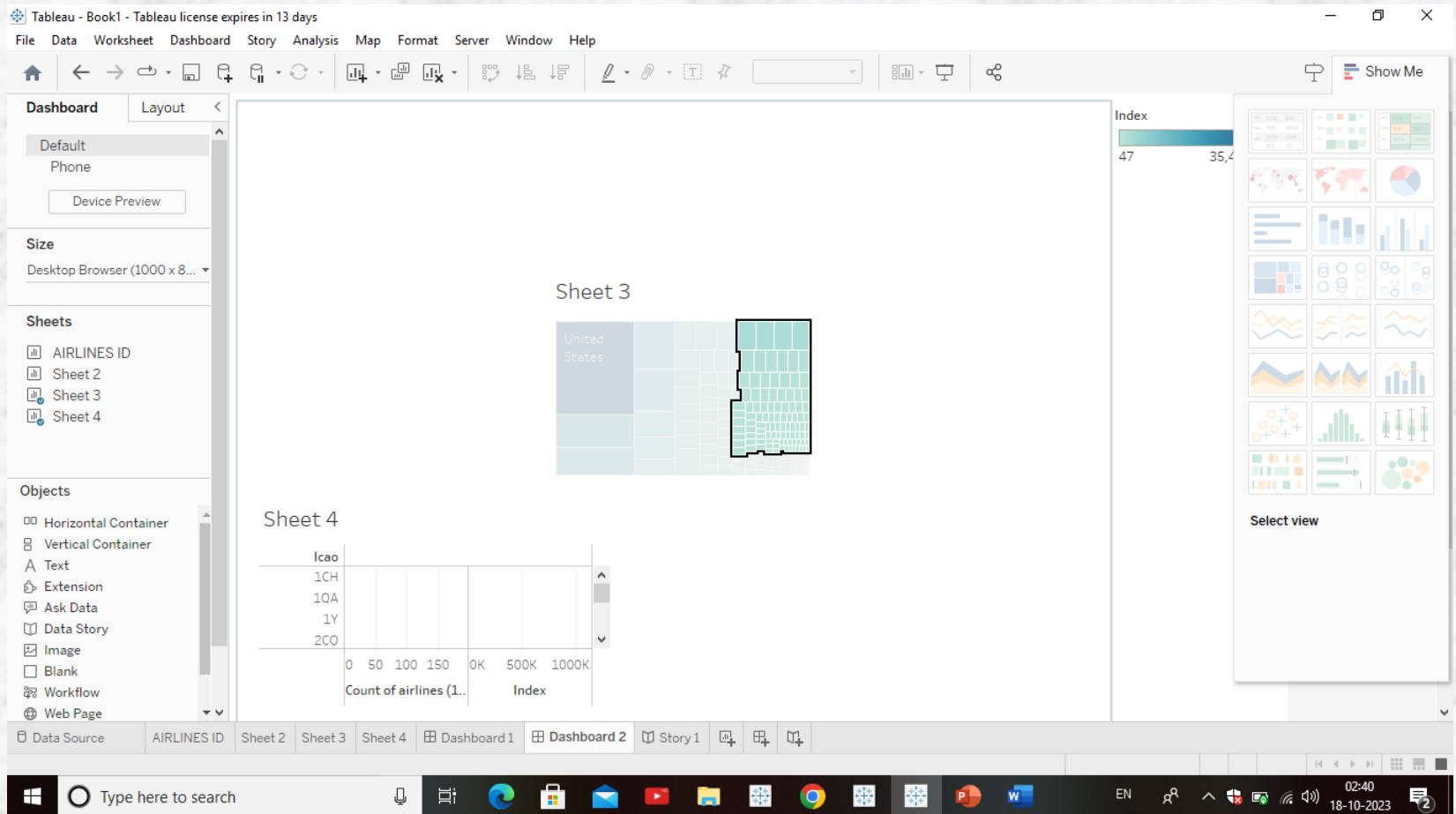
Unlocking Insights



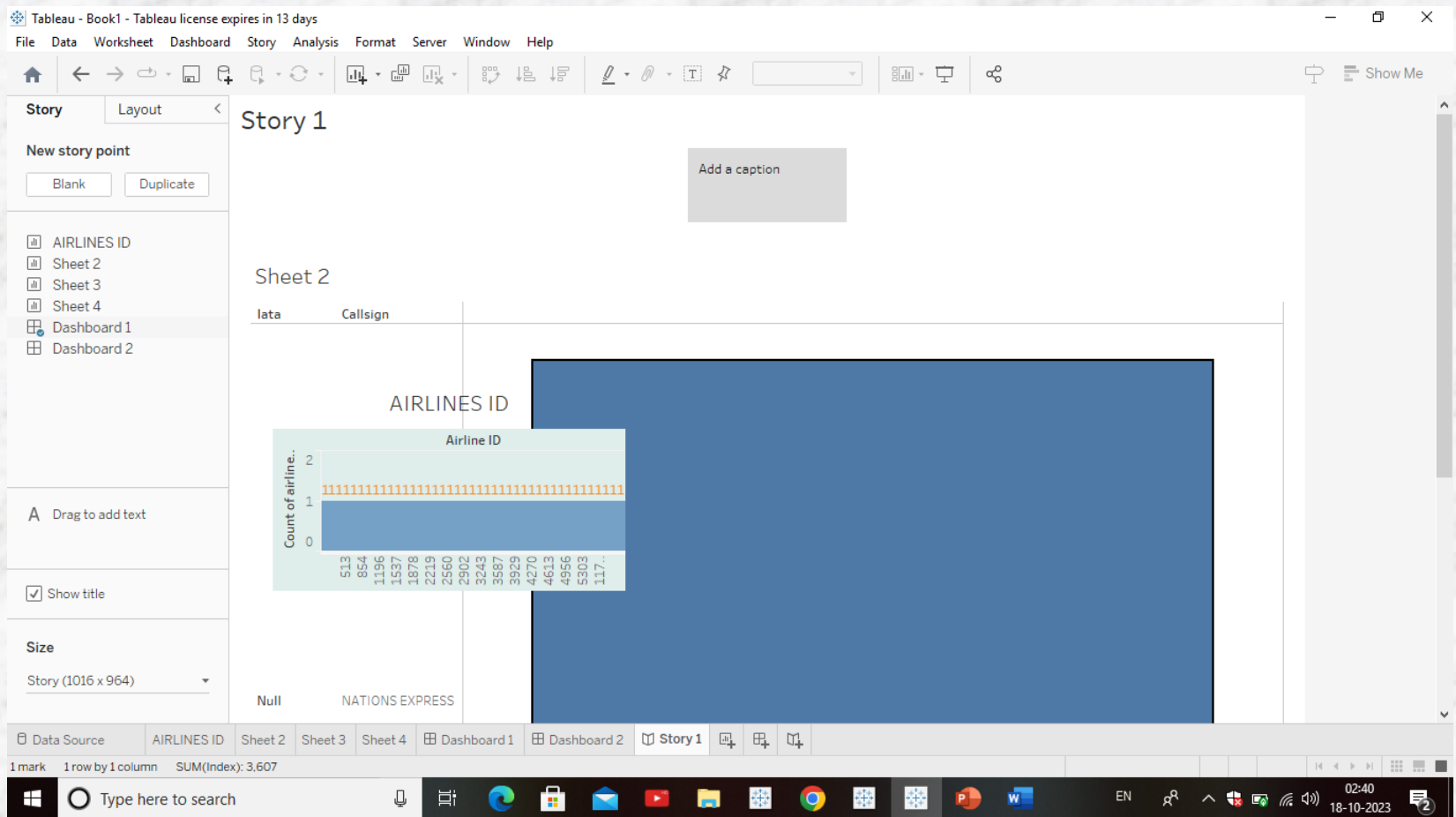
Dashboard 1



Dashboard 2



Story



Conclusion

- The "Unlocking Insights" project successfully utilized Tableau to analyze spending behavior. This paper reveals the existence of alternative pair in the defined as a pair is defined as a pair of airports that, if one of them is closed, the other one take over part of its traffic load. We find these pairs of airports important as the network performance will not be affected largely if only one airport in an alternative pair will worsen the network performance significantly, as no other airports can.

Future Scope

- The future scope of Unlocking Insights using Tableau is likely to be characterized by advancements in AI, real-time analytics, data security, and improved user experiences. As the field of data visualization and analytics continues to evolve, Tableau is poised to play a crucial role in empowering organizations with actionable insights for strategic air transportation

Thank You

