**Assignment 4- Animated Visualizations**

Course: 6380.003

Name: Anamika Das

Net ID: axd240045

**Q1) Take a full screenshot that shows you have successfully placed the Airline logo in the My Tableau Repository > Shapes > Airplane folder.**

A screenshot of a computer

AI-generated content may be incorrect.

**Q2) Take a full screenshot that shows you have successfully imported the data source, renamed the workbook and you are present in Sheet 1**

A screenshot of a computer

AI-generated content may be incorrect.

**Q3) Take a full screenshot of the data pane post creation of the 3 calculated fields.**

A screenshot of a computer

AI-generated content may be incorrect.

**Q4) Take a full screenshot of the resulting visualization on the screen**

A screenshot of a computer

AI-generated content may be incorrect.

**Q5) Take a screenshot of the resulting visualization**

A screenshot of a computer screen

AI-generated content may be incorrect.

**Q6) Take a screenshot of resulting visualization at sequence 120. Explain in writing which hub are Delta Airlines flights travelling to? Explain in writing what would happen if there is an operations failure for Southwest Airlines in any of the routes.**

Answer: Delta Airlines flights are traveling to the **Georgia hub**.

If there's an operational failure in Southwest's point-to-point network, it could cause significant flight delays or cancellations, as there are fewer alternative routes compared to a hub-and-spoke system. This can create a ripple effect, affecting other flights and disrupting passengers' connections. The airline might face challenges in recovery, leading to longer wait times, potential resource shortages, and possible financial losses due to rebooking, compensation, and customer dissatisfaction.

Below is the screenshort :

A screenshot of a computer screen

AI-generated content may be incorrect.

**Q7) Take a full screenshot of new worksheet created**

A screenshot of a computer

AI-generated content may be incorrect.

**Q8) Explain in writing what the MAKEPOINT and MAKELINE function does.**

Answer: The **MAKEPOINT** function creates a point (or geographic coordinate) based on a set of latitude and longitude values. The result is a geographic point that Tableau can use for mapping and spatial analysis.

The **MAKELINE** function creates a line between two geographic points by using the **MAKEPOINT** function to define the start and end points. The result is a line object that can be used for visualizing routes or paths between two locations.

**Q9) Take a full screenshot of the worksheet. Answer in written which field is tracking time and helping us with the animation.**

A screenshot of a computer screen

AI-generated content may be incorrect.

Clock field is tracking time and helping us with the animation.

**Q10) At approximately what time of the day, there is least activity in Southwest Airlines. Give your answer in writing. Paste a full screenshot as well.**

At approximately 10.30am, there is least activity in southest airlines.

A screenshot of a computer screen

AI-generated content may be incorrect.

**Q11) At approximately what time of the day, do you see the network in east coast region is very dense and network in west coast is very minimal. Give your answer in writing. Paste a full screenshot as well.**

Approximately at 1.30pm, east coast is very dense and west coast is nimimal network trafic.

A screenshot of a computer screen

AI-generated content may be incorrect.

**Q12) On Dec 15, 2022 at 4:35 PM, identify the ISO-Regions in Southwest Airlines where connectivity is the strongest. Name at least 2 regions**

Answer: US-IL, US-TX, US-CA ISO-Regions.

**Q13) Mention 3 ISO Regions where you see hubs for Delta Airlines. Paste a full screenshot that supports your answer.**

Answer: US-GA, US-NY, US-CA, US-MN ISO-Regions are hubs of Delta Airlines.

**A screenshot of a computer

AI-generated content may be incorrect.**

**Q14) At approximately what time of the day, do you see the Delta network in east coast region is very dense and network in west coast is very minimal. Give your answer in writing. Paste a full screenshot as well.**

A screenshot of a computer

AI-generated content may be incorrect.

Approximately at 1.35pm, east coast is very dense and west coast is nimimal of Delta.

**Q15) At approximately what time of the day, do you see the very less activity in Delta flights. Give your answer in writing. Paste a full screenshot as well**

At approximately 10.35am, there is least activity in Delta flights.

A screenshot of a computer screen

AI-generated content may be incorrect.