PLOT-A-THON

AIR LINES DATASET

Submission Link: https://forms.gle/2Nkty2STt2na6Mzz7

Instructions:

- Merge the files and pre-process the database.
- Create visuals based on the following questions.
- The Visualization output should be in pdf format.
  - There should be creativity in the visuals.
  - The logical questions should be solved.
  - There should be an explanation for each visual.
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Preprocessing Task:

The candidate will be required to:

1. Merge all three datasets based on appropriate keys.

2. Handle missing values.

3. Standardize columns.

4. Generate derived columns.

Visualization Questions (5 Questions):

1. Plot the distribution of active vs. inactive airlines.
2. Show the top 10 countries with the highest number of airlines.
3. Create a heatmap of the most common routes between source and destination airports.
4. Show a bar chart of the top 5 cities with the most airports.
5. Generate a geographic scatter plot of airports based on latitude and longitude, coloured by country.