

PROJECT TITLE: THE **TRAGEDY OF FLIGHT-A** **COMPREHENSIVE** **ANALYSIS**

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1. Introduction:

1.1 Overview

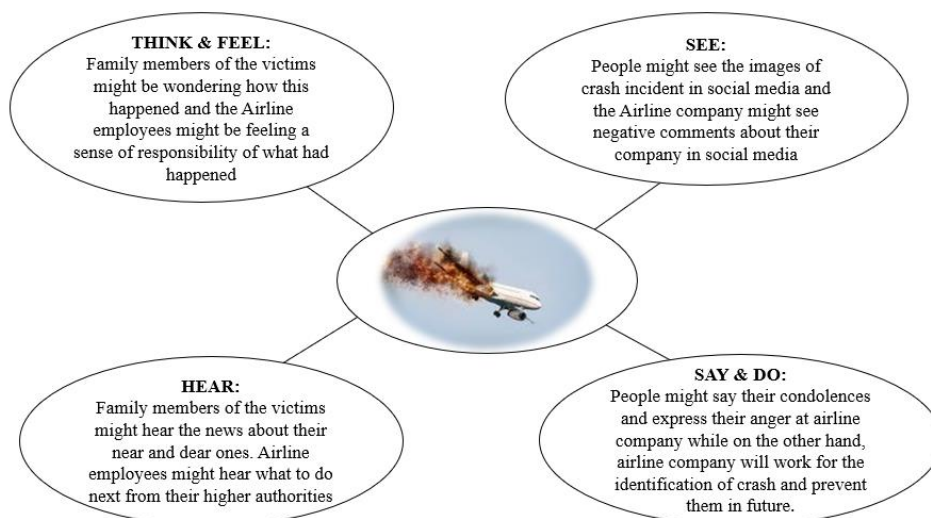
The tragedy of flight refers to the various incidents and accidents that have occurred in the aviation industry, resulting in loss of life, property damage and other significant consequences. In this project, we have prepared and visualized the data, Data Base is connected in MySQL and integrated the same with TABLEAU public and developed website for the same.

1.2 Purpose

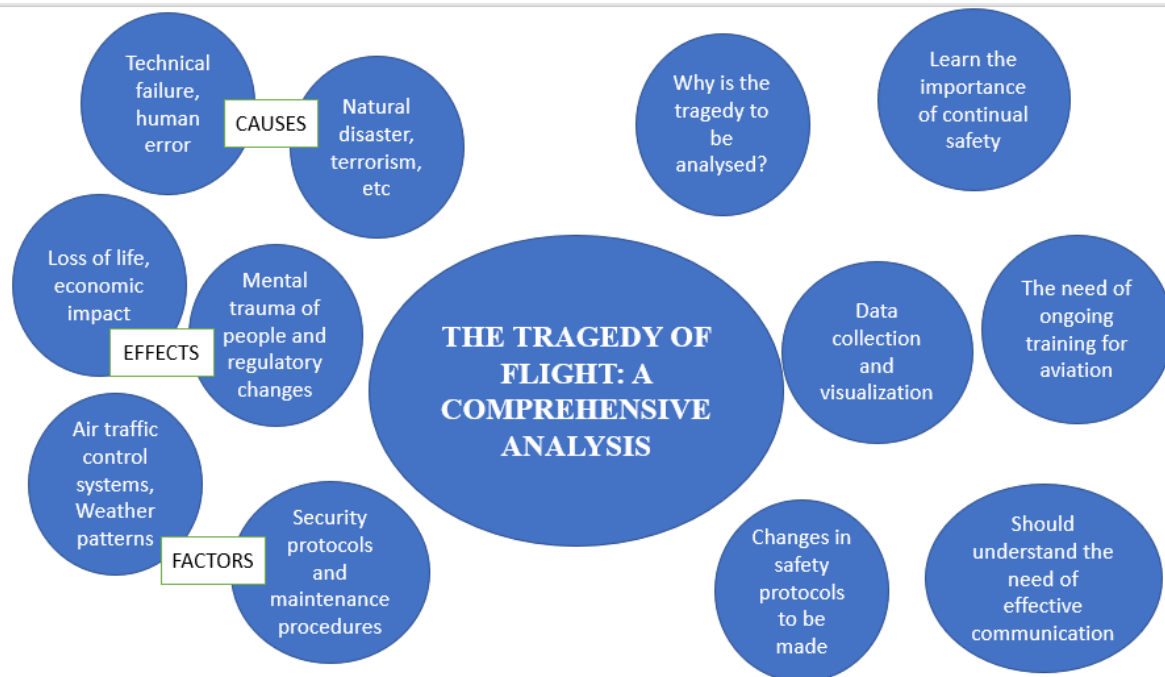
The purpose of analysing flight tragedies is to understand what went wrong during the flight and identify factors that contributed to the accident or incident. The goal of this project is to improve aviation safety by identifying areas where improvements can be made to prevent similar accidents from happening in the future.

2. Problem definition and design thinking:

2.1 Empathy map



2.2 Ideation and Brainstorming map



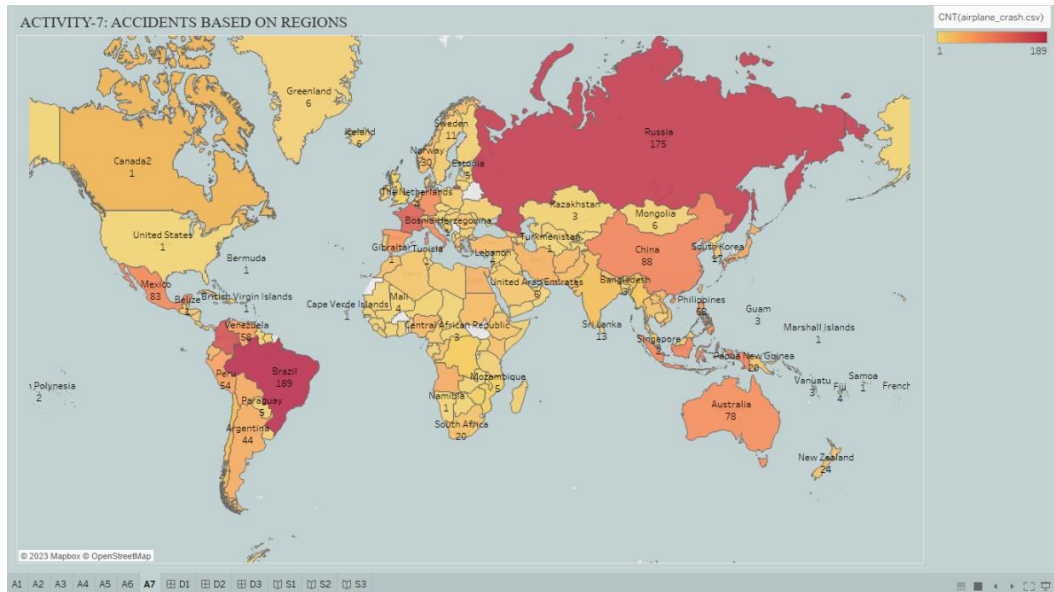
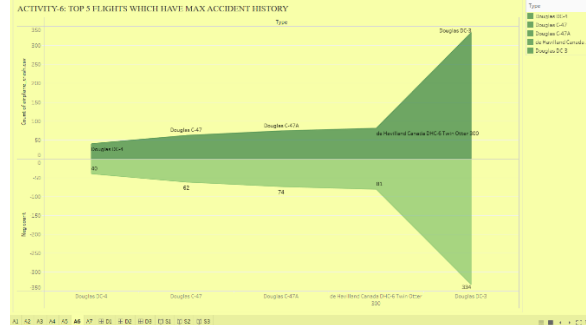
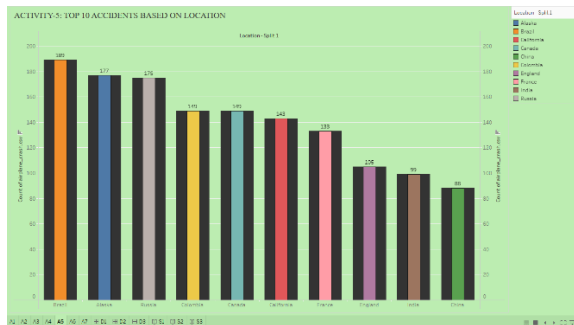
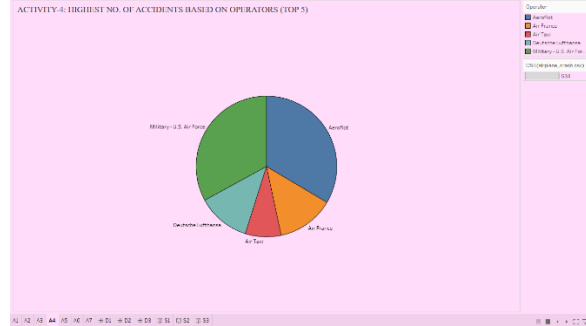
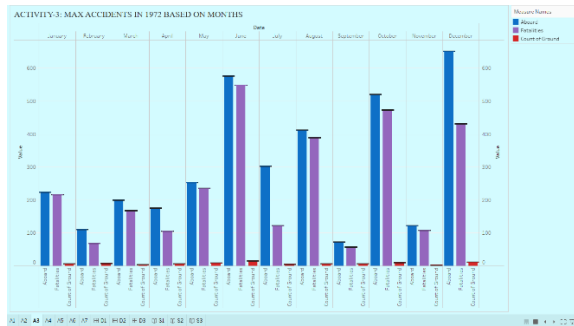
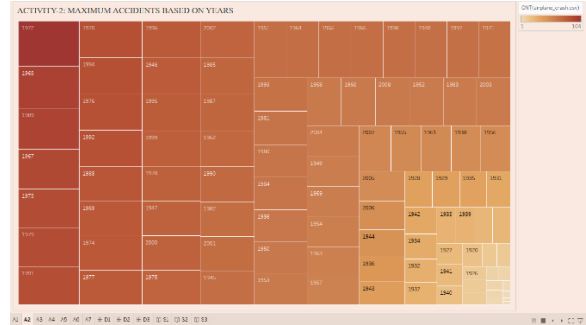
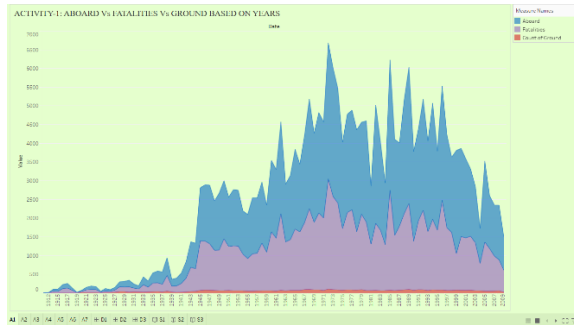
3. Result:

3.1 Worksheets, dashboard and story

Below are the seven worksheets from TABLEAU representing the following activities:

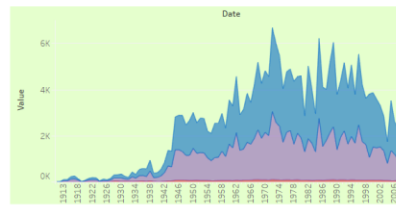
- i) Comparing Aboard vs Fatalities vs Ground
- ii) Max accidents based on years
- iii) Accidents happened in 1972 (MAX ACCIDENTS) based on months
- iv) Highest No. of accident happened by Operators
- v) Top 10 locations which had more accidents
- vi) Top 3 flights which have max accident history
- vii) Accidents based on regions

Followed by this, we have attached the screenshots of the dashboard and stories developed for this project.

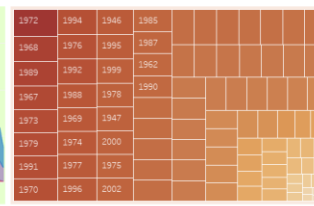


Dashboards:

ACTIVITY-1: ABOARD Vs FATALITIES Vs GROUND BASED ON YEARS



ACTIVITY-2: MAXIMUM ACCIDENTS BASED ON YEARS



Count of airplane_crash.c...

1 104

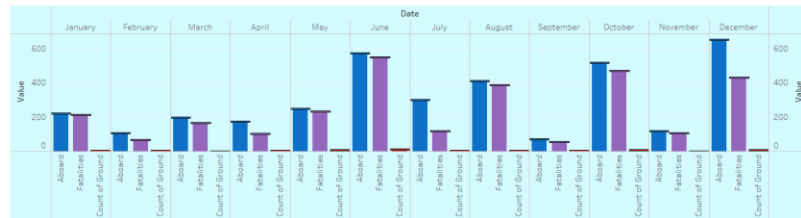
Measure Names

Aboard

Fatalities

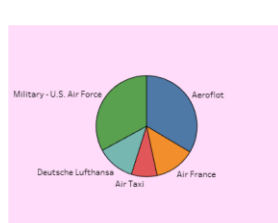
Count of Ground

ACTIVITY-3: MAX ACCIDENTS IN 1972 BASED ON MONTHS

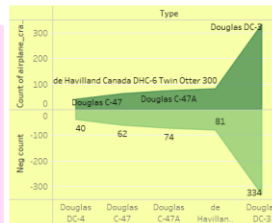


A1 A2 A3 A4 A5 A6 A7 D1 D2 D3 S1 S2 S3

ACTIVITY-4: HIGHEST NO. OF ACCIDENTS BASED ON OPERATORS (TOP 5)



ACTIVITY-6: TOP 5 FLIGHTS WHICH HAVE MAX ACCIDENT HISTORY



Location - Split 1

Alaska

Brazil

California

Canada

China

Colombia

England

France

India

Russia

Operator

Aeroflot

Air France

Air Taxi

Deutsche Lufthansa

Military - U.S. Air For..

Count of airplane_crash.c...

534

ACTIVITY-5: TOP 10 ACCIDENTS BASED ON LOCATION



A1 A2 A3 A4 A5 A6 A7 D1 D2 D3 S1 S2 S3

ACTIVITY-7: ACCIDENTS BASED ON REGIONS

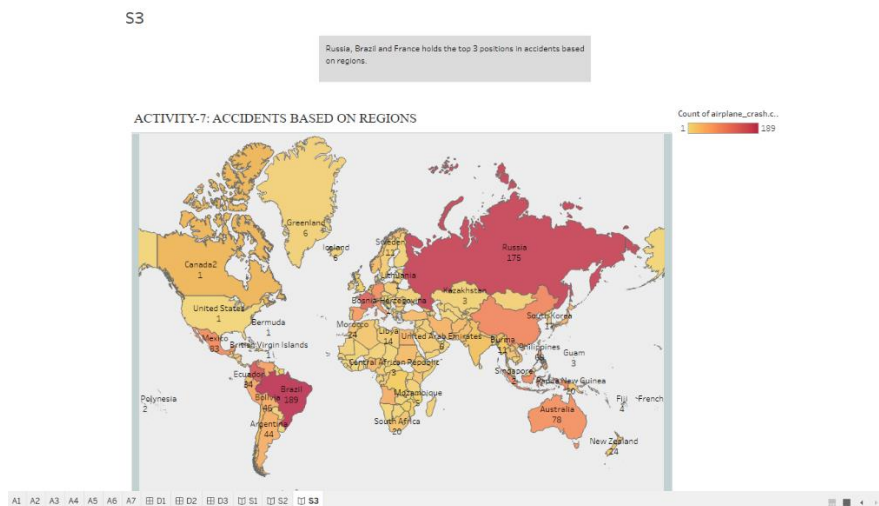
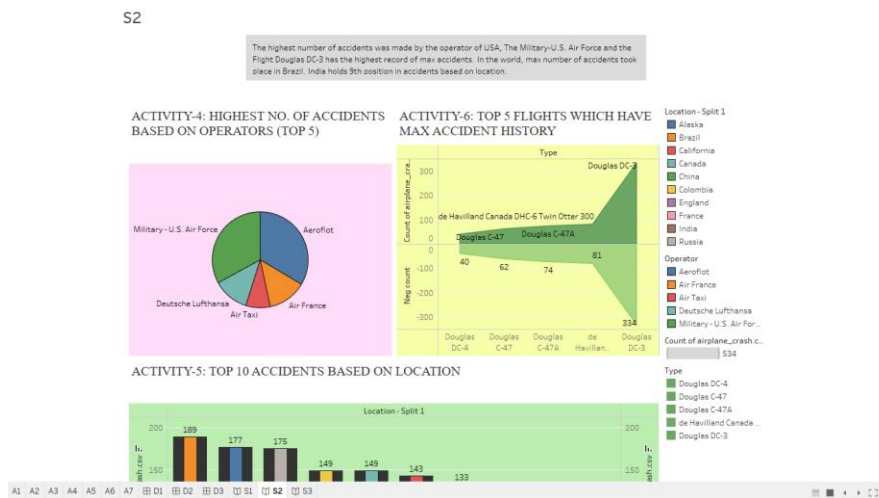
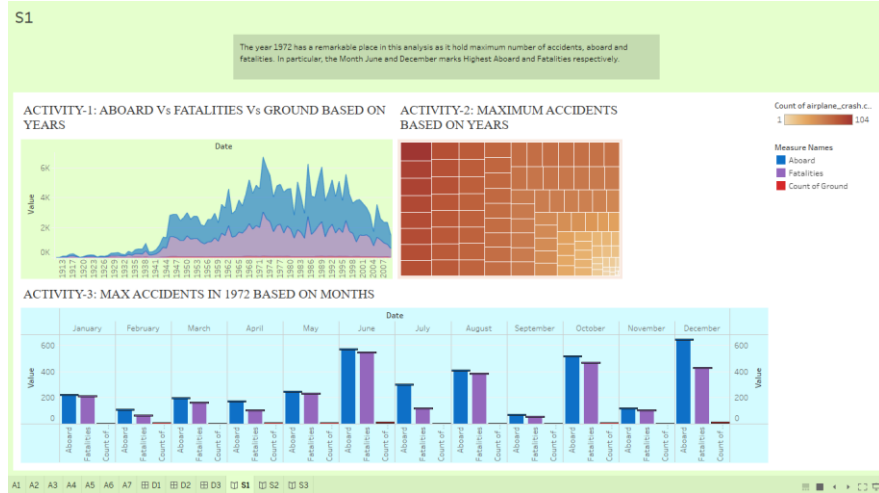


A1 A2 A3 A4 A5 A6 A7 D1 D2 D3 S1 S2 S3

Count of airplane_crash.c...

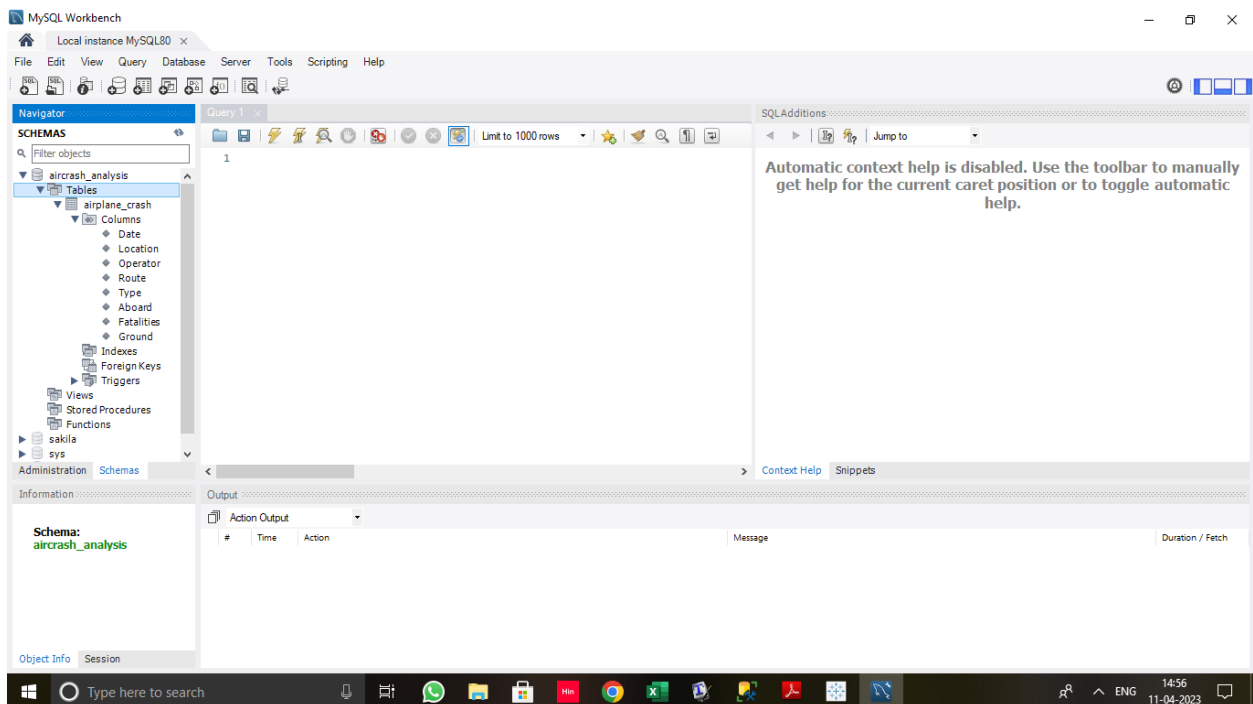
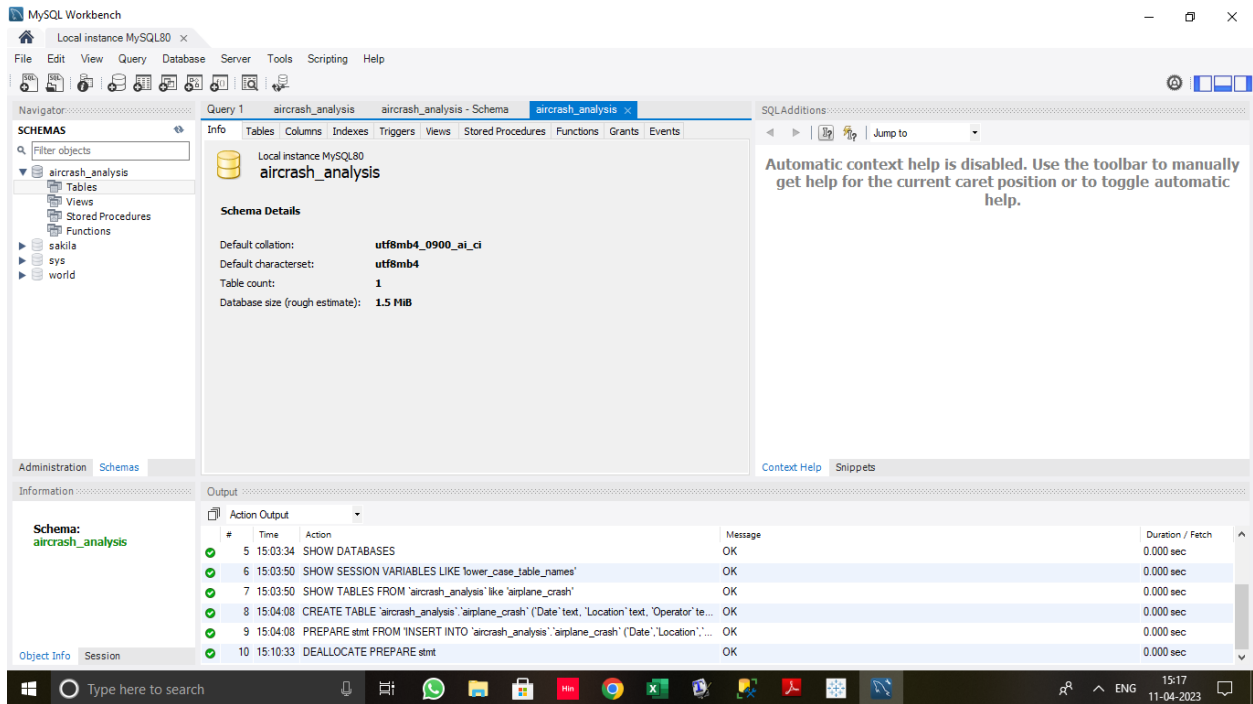
1 189

Story:



3.2 Database connectivity

Below are the screenshots of connecting the database with MySQL.



4. Advantages and Disadvantages of the project:

Advantages

- A thorough analysis of a flight tragedy can help in identifying the root cause of the accident and helps in preventing those mistakes in future.
- Analysis of this project helps in enhancing aviation safety\
- Improves emergency response
- Enhances public trust
- Furthermore, such analysis plays a crucial role in legal proceedings such as determining liability and compensation for victims and their families.

Disadvantages

- Flight tragedy analysis can be emotionally taxing
- This analysis can be a lengthy process
- There are multiple factors involving in this incident
- In some cases, it is difficult to collect the data sources and may lack accuracy.

5. Applications:

The analysis of flight tragedies provides valuable insights into the causes of accidents, which can be used to improve aviation safety.

This analysis helps to identify the design flaws and weaknesses in aircraft systems which can be improved to enhance safety.

It can be helpful developing better training programmes and protocols for pilots, improving their skills and thus reducing the aviation accidents.

Overall, the flight tragedy analysis plays a crucial role in improving aviation safety and preventing future accidents.

6. Conclusion:

Investigations into the cause of flight tragedies are critical to identify any errors or faults in the system and implementing measures to prevent similar incidents from occurring in the future. The aviation industry has made significant progress in improving safety over the year, and incidents such as by this analysis.

7. Future scope:

- The use of advanced analytic tools helps in reducing the aviation accidents.
- Real time monitoring ensures in detecting the potential safety issues and prevent accidents before they occur.
- The incorporation of new technologies such as drones, advanced sensors and autonomous systems can help in improving safety.

8. Appendix:

https://public.tableau.com/views/THE_TRAGEDY_OF_FLIGHT_A_COMPREHENSIVE_ANALYSIS/A2?:language=en-US&:display_count=n&:origin=viz_share_link

<https://airplanecrashanalysis.nicepage.io/?version=ca9a37ef-6552-499b-af48-fc6cdc011af3>

https://drive.google.com/file/d/100BGeu7BL8f_0qnv1YI_08v9-EE_jGbr/view?usp=drivesdk
