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Naan Mudhalvan

Project Based

Experiential Learning



PROJECT TITTLE: THE TRAGRDY OF FLIGHT(A COMPREHENSIVE CRASH ANALYSIS)

CATEGORY: DATA ANALYTIC WITH TABLEAU

TEAM MATES:

TEAM ID: NM2023TMID25683
TEAM LEADER: P. PANDIRASA

MEMBERS

1)R.AATHI

2)P.LOGESSWARAN 3)R.MANIKANDAN

The Tragedy Of Flight: A Comprehensive Crash Analysis

INTRODUCTION



1)DEFINE PROBLEM/PROBLEM UNDER STANDING

- We can understand the project title
- How can understand the problem of the tragedy of flight
- How can crash makes them
- 1)Specify the business problem
- 2)Business requirements
- 3)Literature survey
- 4)Social and business impact

Task:1

EMPATHY MAP

- *Says(what are plane crash)
- *Thinks(causes the needs)
- *Feels(fear, frustrations)
- *Does(we can doing them)



Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

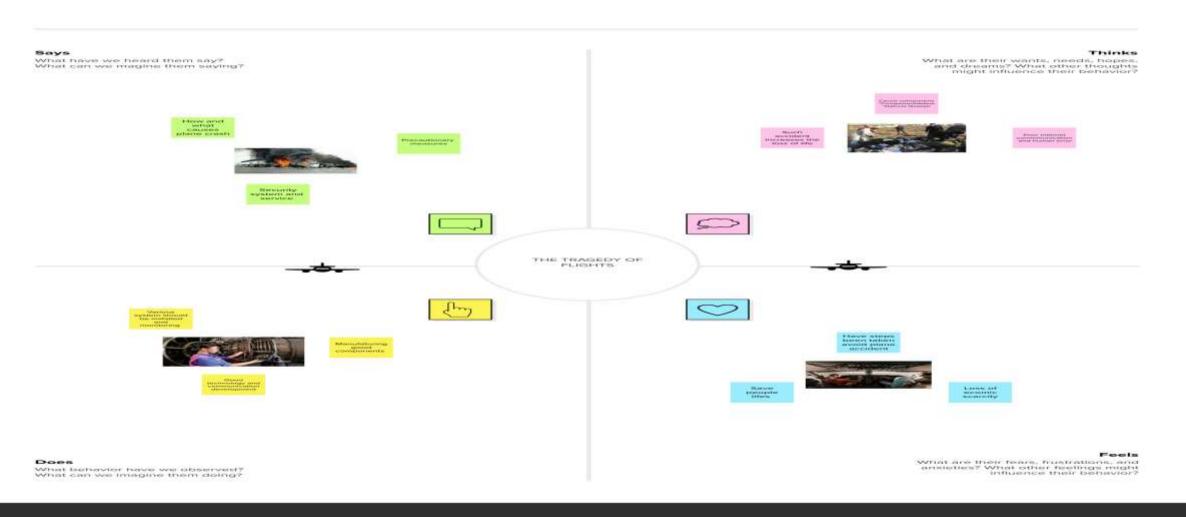
(iii) Share template feedback



Need some inspiration? See a finished version of this template to schedularly your work. Open example

Build empathy

The information you add here should be representative of the observations and research you've done about your users.





* In this task the team leader and team members our ideas was excuted in this way



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

40 minutes to prepare

1 hour to collaborate

2-8 people recommended

[iii] Share template feedback



Need some inspiration?

Bee a finished version of this template to kickets your work.

Open example



Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

① 10 minutes

Open article

- Team gathering

 Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal

 Think about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools
 Use the Facilitation Superpowers to run a happy and productive session.



Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

C 5 minutes

How might we [your problem statement]?





Brainstorm

Write down any ideas that come to mind that address your problem statement.

() 10 minutes

You can select a slicky note and hit the pencil (switch to sketch) (can to start drawing)



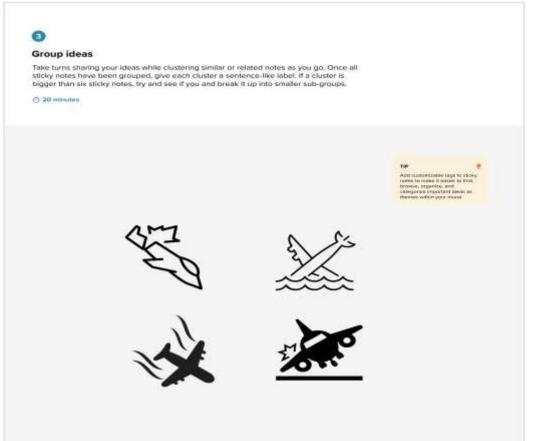




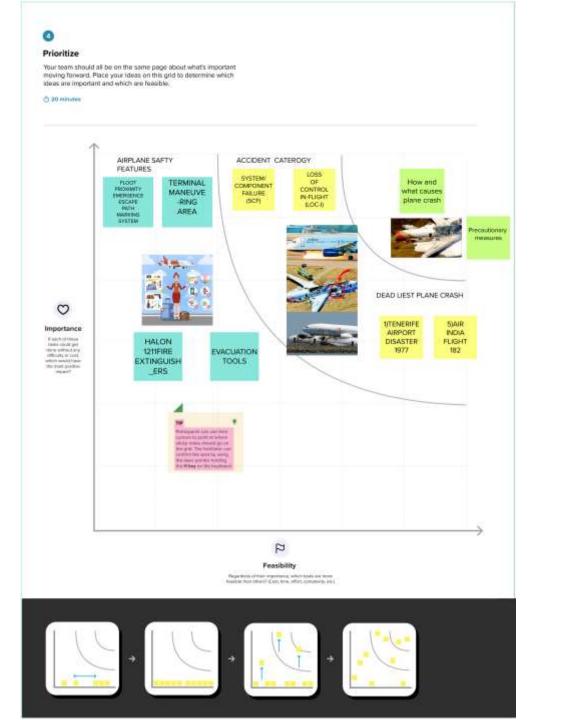


PEATURES









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After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- Share the mural
 - Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- Export the mural

Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward



Strategy blueprint

Define the components of a new idea or strategy.

Open the template ->



Customer experience journey map

Understand customer needs, motivations, and obstacles for an experience.

Open the template ->



Strengths, weaknesses, opportunities & threats

identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template ->

(iii) Share template feedback

2)DATA COLLECTION&EXTRACTION FROM DATABASA

- COLLECT THE DATA SET(go to work space collect data for download)
- UNDERSTAND THE DATA
- STORING DATA IN DB& PERFORM SQL OPERATION
- CONNECT DB WITH TEBLEAU

*In this way we can save the dataset for pdf format so we can copy to the dataset for computer in pdf form and include the pdf form for tebleau



3) Data PREPARATION

PREPARE THE DATA FOR VISULIZATION
 *gathering the information for dataset
 *colud find the topic for dataset

A	- 8		D	E	- F	G	Н.
Date	Location	Operator	Route	Type	Aboard	Fatalities	Ground
09/17/190	Fort Myer	Military -	Demon	str Wright Fly	2	1	0
**********	AtlantiCit	Military -	Test flig	tht Dirigible	5	5	0
*********	Victoria, E	Private		Curtiss sea	1	1	0
********	Over the !	Military -	German	Na Zeppelin I	20	14	0
10/17/191	Near Joha	Military -	German	Na Zeppelin I	30	30	0
********	Tienen, Be	Military -	German	Na Zeppelin I	41	21	0
********	Off Cuxha	Military -	German	Na Zeppelin I	19	19	0
07/28/191	Near Jami	Military -	German	Ar Schutte-L	20	20	0
09/24/191	Billericay,	Military -	German	Na Zeppelin I	22	22	0
********	Potters Ba	Military -	German	Na Zeppelin I	19	19	0
11/21/191	Mainz, Ge	Military -	German	Ar Super Zep	28	27	0
11/28/191	Off West I	Military -	German	Na Zeppelin I	20	20	0
*********	Near Gent	Military -	German	Ar Airship	20	20	0
03/30/191	Off North	Military -	German	Na Schutte-La	23	23	0
05/14/191	Near Texe	Military -	German	Na Zeppelin I	21	21	0
06/14/191	Off Vliela	Military -	German	Na Zeppelin I	24	24	0
08/21/191	Off weste	Military -	German	Na Zeppelin I	18	18	0
10/20/191	Near Lune	Military -	German	Na Zeppelin I	18	18	0
********	Over the !	Military -	German	Na Zeppelin I	23	23	0
***************************************	Off Helgo	Military -	German	Na Zeppelin t	22	22	0
********	Ameland	Military -	German	Na Zeppelin I	19	19	0
12/16/191	Elizabeth,	US Aerial	Mail Sen	vic De Havilla	1	1	0
05/25/191	Cleveland	US Aerial	Mail Ser	vic De Havilla	1	1	0
07/19/191	Dix Run, P	US Aerial	Mail Ser	vic De Havilla	1	1	0
*********	Newcastle	Aircraft Tr	ansport	an De Havilla	1	1	0

4) Data VISUALIZATION

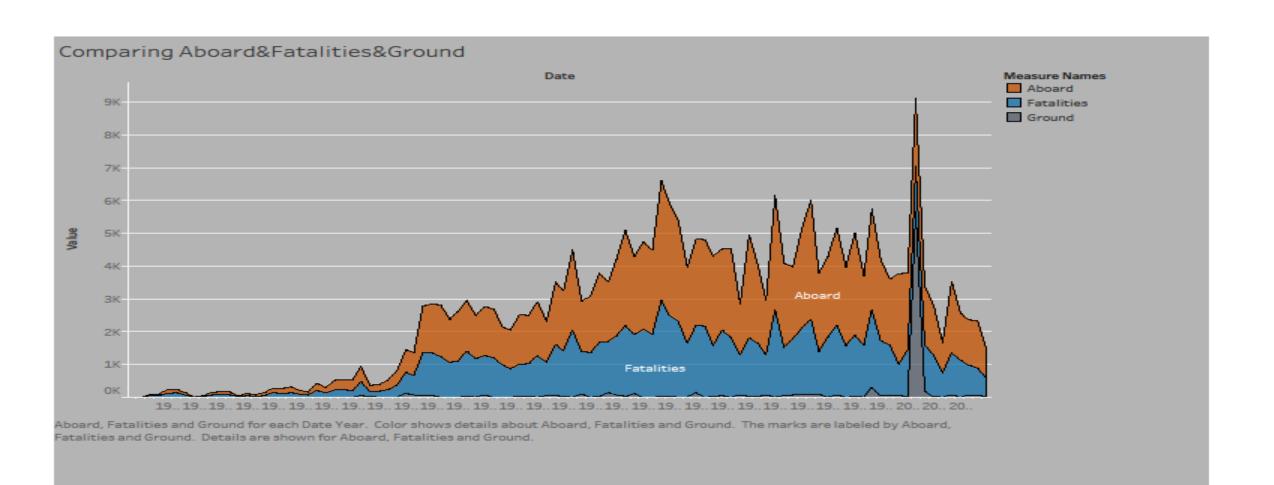
- The process of creating graphical representations of data in order to help people understand and explore the information
- Visual elements such as charts, graphs, and maps
- Can help people quickly identify patterns, trends outliers in the data



TASK:SHEET

- I) COMPARING ABOARD & FATALITIES & 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

I) COMPARING ABOARD & FATALITIES & GROUND



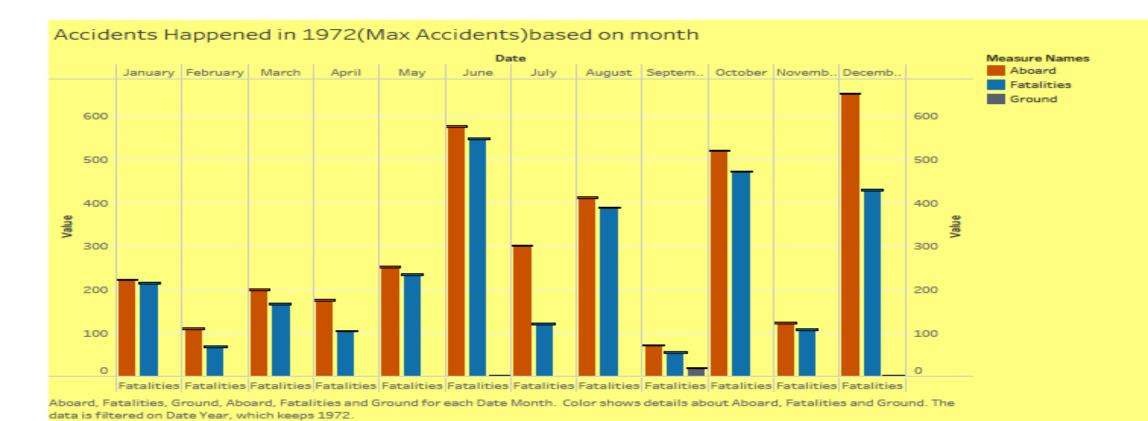
II) MAX ACCIDENTS BASED ON YEARS

Max Accidents Based on Years

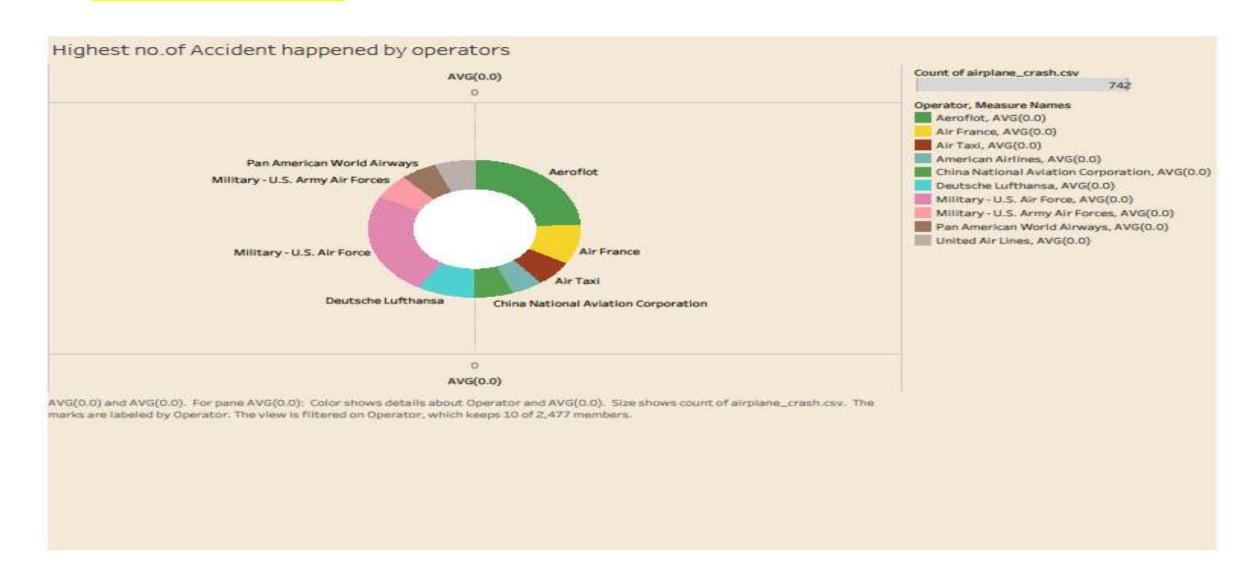
1972	1994	1946	1985	1965	1966	1998		1948	1997	1971	1993	Count of
1968	1976	1995	1987									
Salah (190			Section 2	1981	1980	1984	1984	1986	1950	1953	1958	
1989	1992	1999	1962									
	1988	1978	1990	1960	19	49 1	1959	195	4 196	3 195	2007	
1967	1300		1982	2008								
1973	1969	1947			19	55		2006	1944	1936		
	1	77	2001	1952		22						
979	1974	2000	1945	1983	19	61		1929	1934		-	
	- Alexandra	September 1		1303	19	38			1932			
1991	1977	1975	1951	2003	10	56		1935	1937	20		
	Townson .							1931			The second	
1970	1996	2002	1964	2004	20	05	ı	1942	-	-1		-2

Date Year. Color shows count of airplane_crash.csv. Size shows count of airplane_crash.csv. The marks are labeled by Date Year.

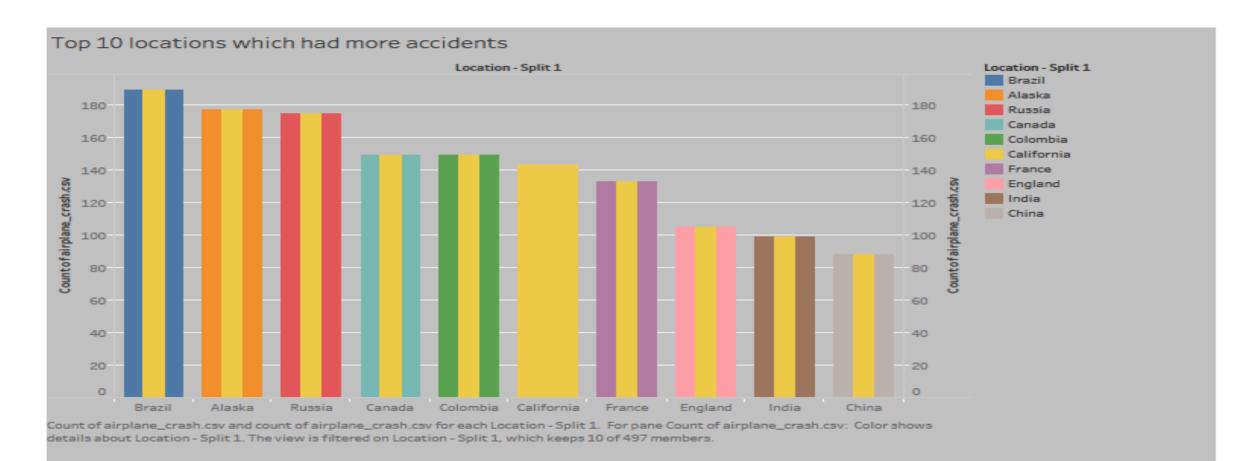
III) ACCIDENTS HAPPENED IN 1972(MAX ACCIDENTS) BASED ON MONTHS



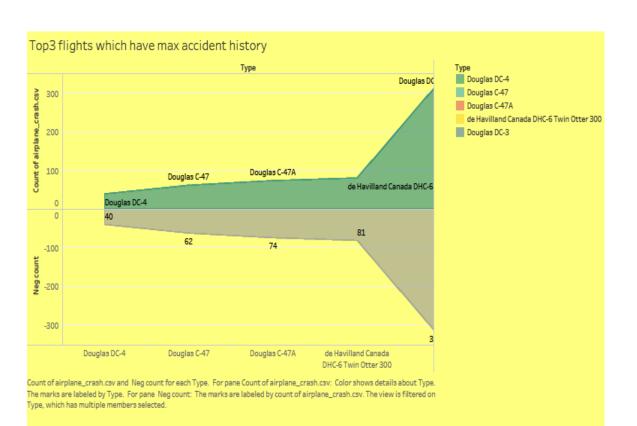
IV) HIGHEST NO.OF ACCIDENT HAPPENED BY OPERATORS

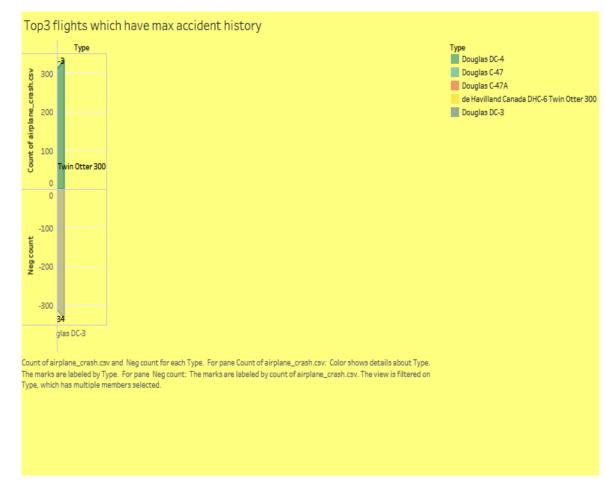


V) TOP 10 LOCATIONS WHICH HAD MORE ACCIDENTS



VI) TOP 3 FLIGHTS WHICH HAVE MAX ACCIDENT HISTORY





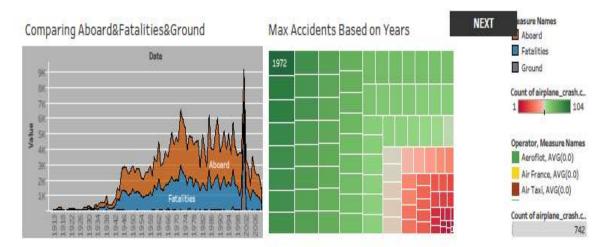
VII) ACCIDENTS BASED ON REGIONS



Map based on Longitude (generated) and Latitude (generated). Color shows count of airplane_crash.csv. The marks are labeled by Location - Split 1 and count of airplane_crash.csv. Details are shown for Location - Split 1.

5)DASHBOARD

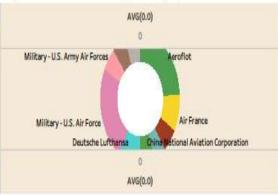
- They can be used to track key performance (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables
- A dashboard is graphical user interface (GUI) that displays information and data in an organized easy-to-read format
- Such as business, finance, manufacturing, healthcare, and many industries used them



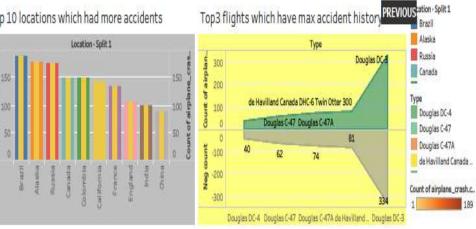
Accidents Happened in 1972 (Max Accidents) based on month



Highest no. of Accident happened by operators



Top 10 locations which had more accidents



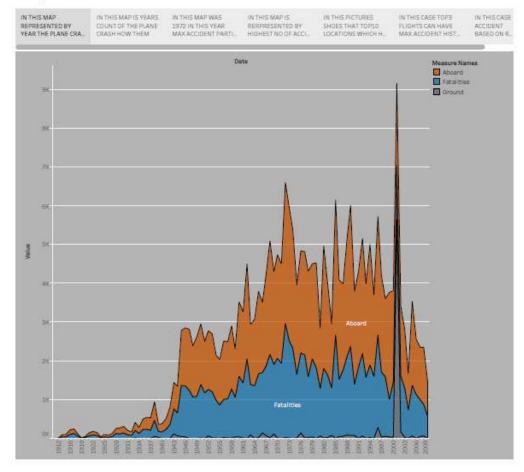
Accident based on Regions



6)STORY

• In an established systematic fashion that enables one to answer started research questions, test hypotheses, and evaluate outcomes and generate insights from the data

IN THIS MAP REPRESENTED BY YEAR THE PLANE

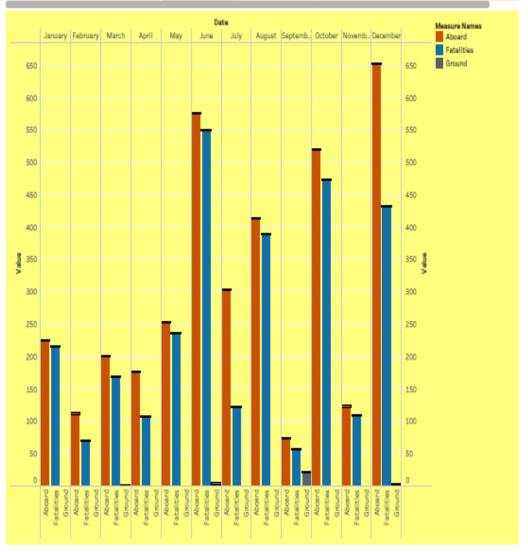


IN THIS MAP IS YEARS COUNT OF THE PLANE CRASH HOW THEM

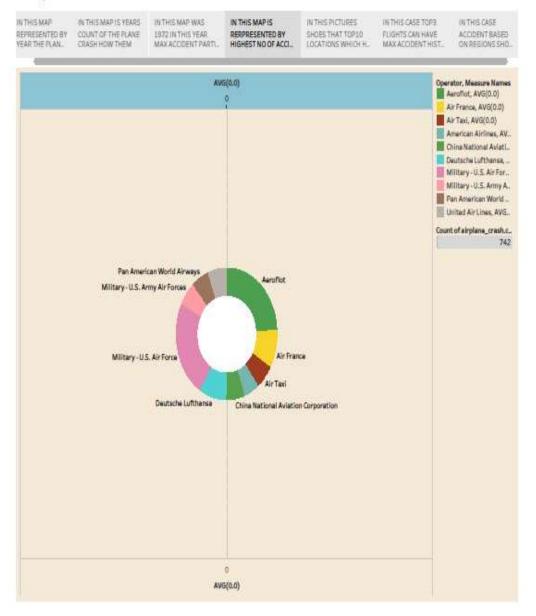


IN THIS MAP WAS 1972 IN THIS YEAR MAX ACCIDENT



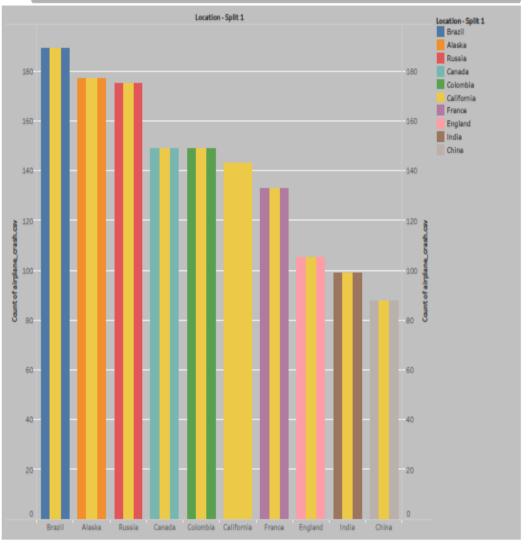


IN THIS MAP IS RERPRESENTED BY HIGHEST NO OF ACCIDENT HAPPENED BY OPERATOR

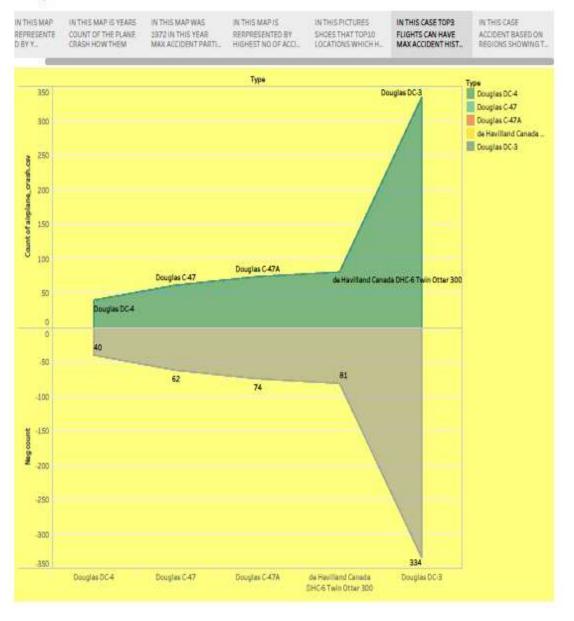


IN THIS PICTURES
SHOWS THAT
TOP10 LOCATIONS
WHICH THERE
ACCIDENT PLACES



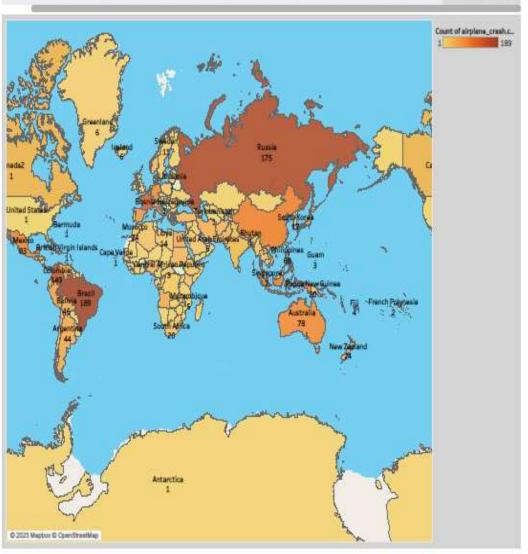


IN THIS CASE TOP3 FLIGHTS CAN HAVE MAX ACCIDENTN



IN THIS CASE ACCIDENT BASED ON REGIONS SHOWING



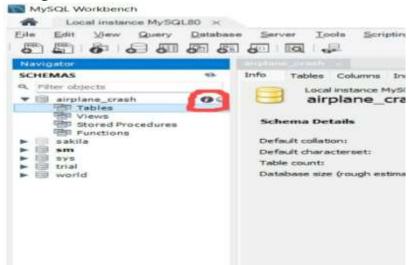


7) PERFOMANCE TESTING

*Amount Of Data Rendered DB

• The amount of data that is rendered to a database depends on the size of the dataset and the capacity of the database to store and retrieve data.

Open the MySQL Workbench, go to the database then click to expand the tables, select the table and click on (I) button to get the information related to table such as column count, table rows etc.



7)PERFOMANCE TESTING

*No Of Calculation Fields

Tables Date Location Location - Split 1 Location - Split 1 (co... Operator Abc Route Type Abc Measure Names Aboard Calculation1 Calculation2 =#= Fatalities Ground Negative sum Sum_Of_accidents airplane_crash (Cou... Latitude (generated) Longitude (generated) Measure Values

7) PERFOMANCE TESTING

*No Of Visualizations/ Graphs

- 1. Comparing Aboard vs Fatalities vs Ground
- 2.Max accidents based on years
- 3.Accidents happened in 1972 (MAX ACCIDENTS) based on months
- 4. Highest No. of accident happened by Operators
- 5.Top 10 locations which had more accidents
- 6.Top 3 flights which have max accident history
- 7. Accidents based on regions

8)Web Integration

Publishing helps us to track and monitor key performance metrics, to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others Publishing dashboard and reports to tableau public

Step 1: Go to Dashboard/story, click on share button on the top ribbon

Step 2: Once you click on connect it will ask you for tableau public user name and password

9) Project Demonstration & Documentation

*Record Explanation Video For Project End To End Solution

 Record explanation Video for project end to end solution

*Project Documentation-Step By Step Project Development Procedure

 Project Documentation-Step by step project development procedure

THANK YOU