DSC640_5-3_Infographic_Supporting_Document

AIR TRAVEL & SAFETY

As an important means of transportation, air travel plays a major role in the international and domestic travel. Where it could take for days and moths on the road and in ships, we can reach the destination in hours, and also making the travel possible to unexplored and not reachable territories through land.

On the discussion point of 'Air Travel and safety', recently there are many restrictions imposed by every country because of COVID 19. Even before Corona virus situation, a small incident would cause a lot of media speculations on the reason of the incident. We do see some real incidents happen, recently in 2021 Jan 'The Sriwijaya Air plane 182 - a Boeing 737 - Indonesia ' has crashed and raises technical and security safety Issues.

Before making any allegations on the overall safety of the airline travel, we need to look at the stats to see how the air travel has increased in volume in terms of number of flights, Air Lines and passengers. This increase in volume gives the confidence of Airline industry for further growth in different places and locations.
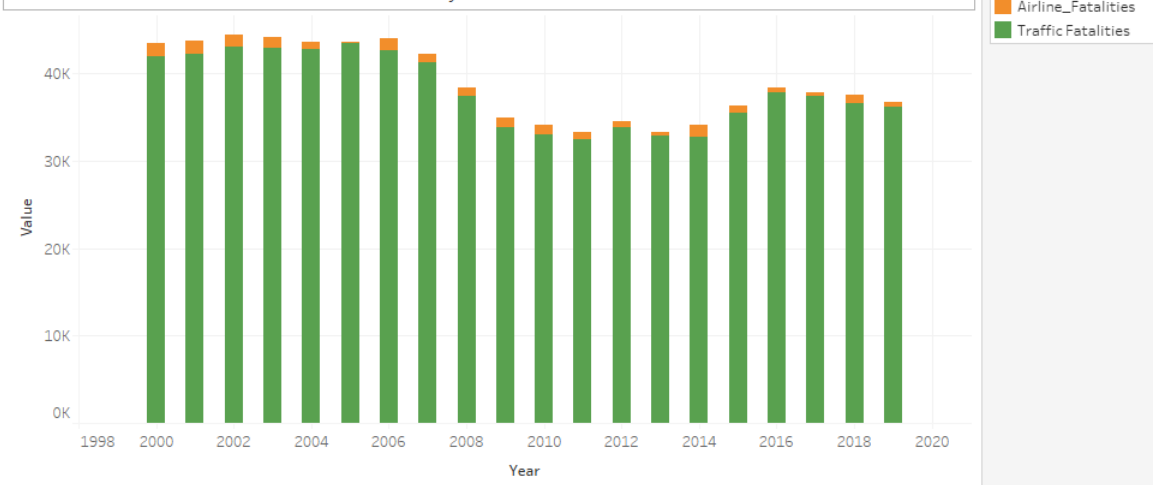
❖ Air travel has become more reliable with many safety measures implemented in the recent years.

❖ Fatal Accidents and number of Fatalities has reduced in half compared to last decade.

❖ While the Airline flight departures has remained fairly consistent, the number of accidents has reduced significantly.

❖ Airline incidents are very low compared to all other type of incidents with in an year.

❖ Increase in profit over years proves the people trust in the air travel which is only going to increases in future.
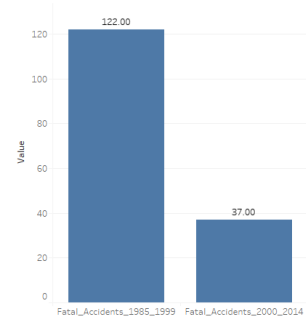

2019 Fetalities by Accident Type
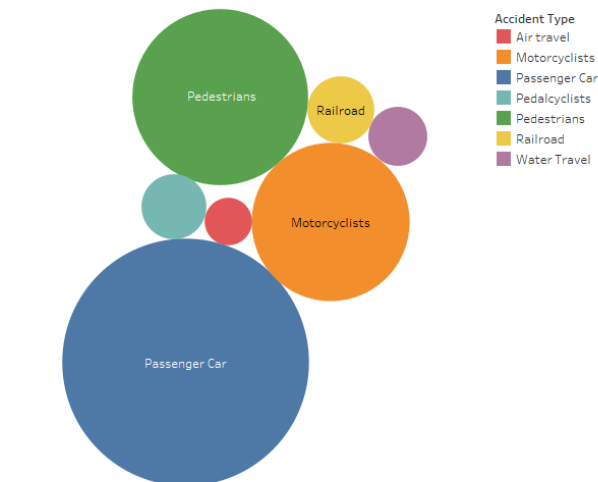
Accident Type. Color shows details about Accident Type. Size shows sum of Count. The marks are labeled by Accident Type.
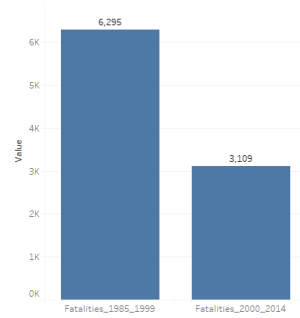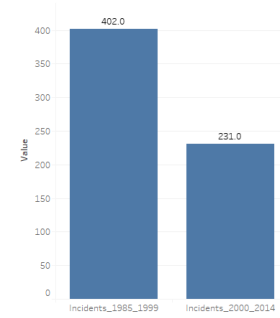
AIR Lines Fatal Accidents
between 1985-1999 and 2000-2014

122.00

37.00

Value

Fatal_Accidents_1985_1999   Fatal_Accidents_2000_2014

AIR Lines Fatalities
between 1985-1999 and 2000-2014

6,295

3,109

Value

Fatalities_1985_1999   Fatalities_2000_2014

AIR Lines Incidents
between 1985-1999 and 2000-2014

402.0

231.0

Value

Incidents_1985_1999   Incidents_2000_2014

AIR Line Accidents and Fatalities by Year

Accidents

Airline_Fatalities
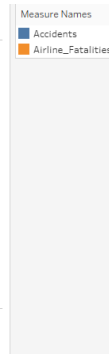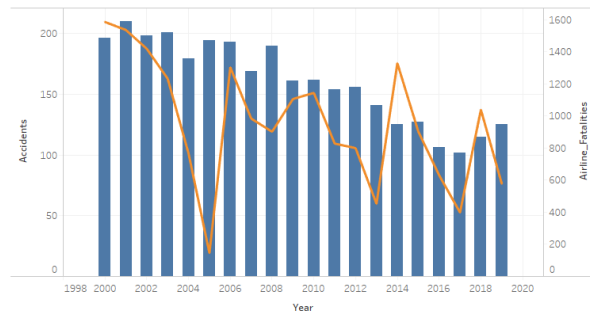
Year

Traffic vs Airline - Accidents vs Fatalities

Value
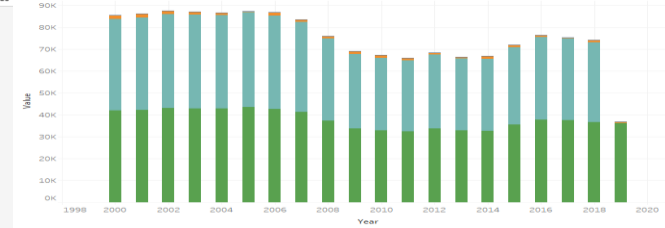
Year

The plots of Accidents, Airline_Fatalities, Fatalities and Traffic Fatalities for Year. Color shows details about Accidents, Airline_Fatalities, Fatalities and Traffic Fatalities.

Measure Names
Accidents
Airline_Fatalities
Fatalities
Traffic Fatalities
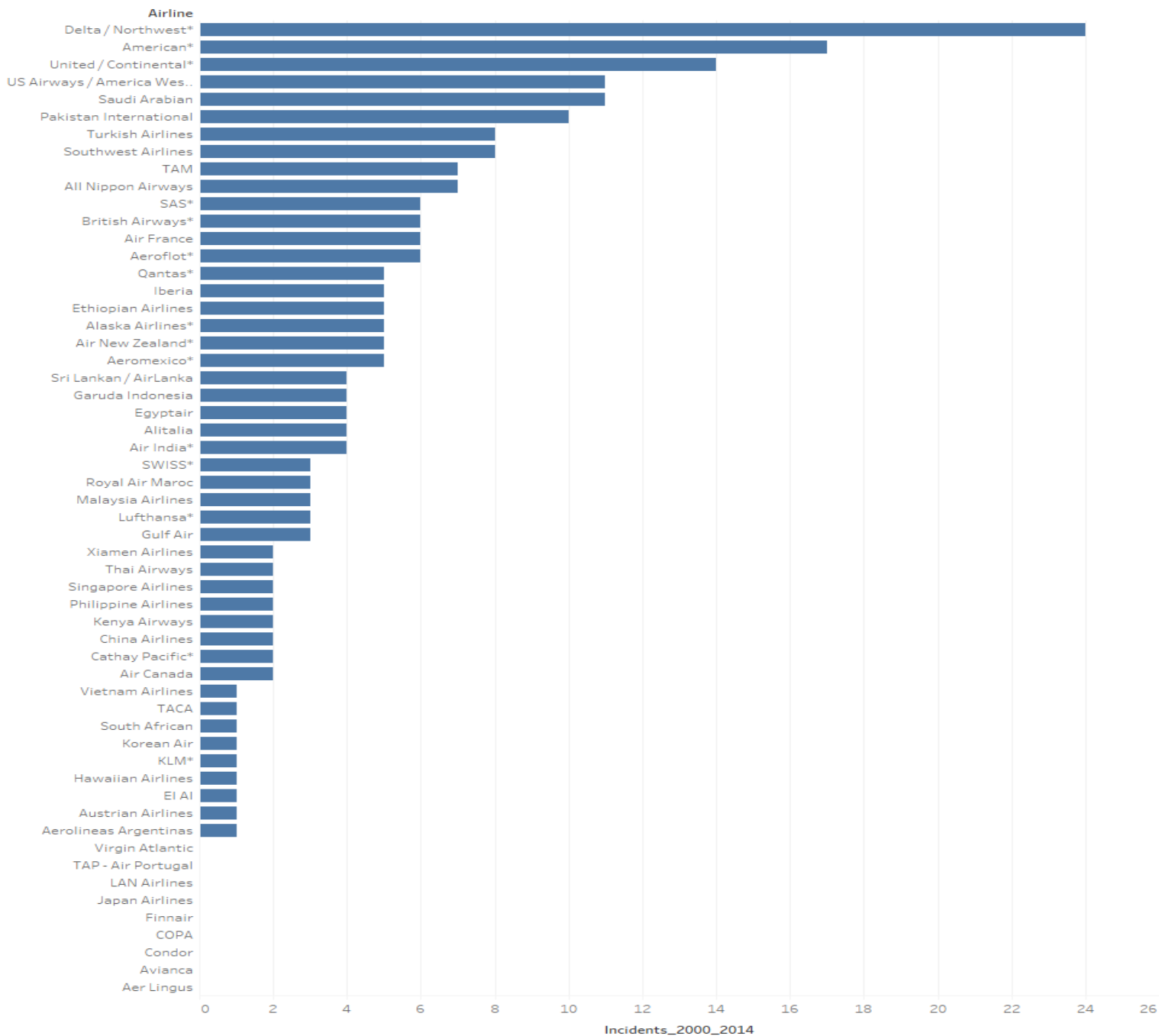
Airline Occupancy vs Accidents vs Fetalities

Value
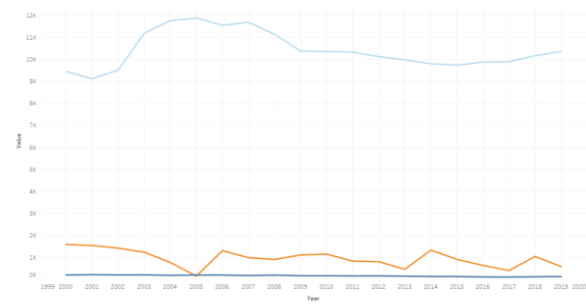
Year

The trends of Accidents, Airline_Fatalities and Approx Departures for Year. Color shows details about Accidents, Airline_Fatalities and Approx Departures.
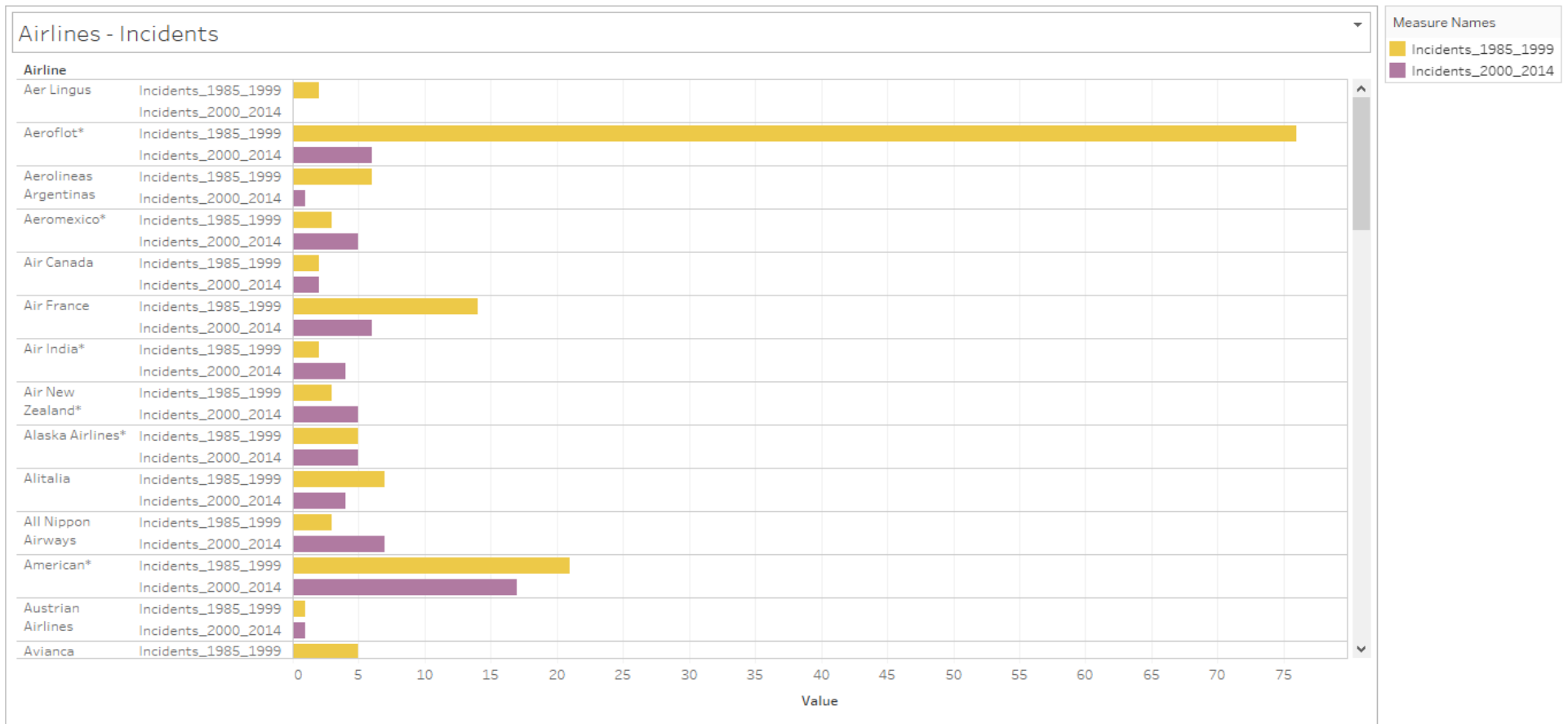
Measure Names
Accidents
Airline_Fatalities
Approx Departures

Airline Net Profit by Year

Net Profit ($MM)

Year

Airlines - Incidents

Airline

Airline	Incidents
Delta / Northwest*	24
American*	17
United / Continental*	14
US Airways / America Wes..	11
Saudi Arabian	11
Pakistan International	10
Turkish Airlines	8
Southwest Airlines	8
TAM	7
All Nippon Airways	7
SAS*	6
British Airways*	6
Air France	6
Aeroflot*	6
Qantas*	5
Iberia	5
Ethiopian Airlines	5
Alaska Airlines*	5
Air New Zealand*	5
Aeromexico*	5
Sri Lankan / AirLanka	4
Garuda Indonesia	4
Egyptair	4
Alitalia	4
Air India*	4
SWISS*	3
Royal Air Maroc	3
Malaysia Airlines	3
Lufthansa*	3
Gulf Air	3
Xiamen Airlines	2
Thai Airways	2
Singapore Airlines	2
Philippine Airlines	2
Kenya Airways	2
China Airlines	2
Cathay Pacific*	2
Air Canada	2
Vietnam Airlines	1
TACA	1
South African	1
Korean Air	1
KLM*	1
Hawaiian Airlines	1
El Al	1
Austrian Airlines	1
Aerolineas Argentinas	1
Virgin Atlantic	
TAP - Air Portugal	
LAN Airlines	
Japan Airlines	
Finnair	
COPA	
Condor	
Avianca	
Aer Lingus	

Incidents_2000_2014

Incidents_2000_2014 for each Airline.

Reference:

Airline Safety: https://github.com/fivethirtyeight/data/tree/master/airline-safety
Traffic Fatalities: https://en.wikipedia.org/wiki/Motor_vehicle_fatality_rate_in_U.S._by_year
Net Profit: https://www.airlines.org/dataset/annual-results-u-s-passenger-airlines/#
Airline Accidents: List of accidents and incidents involving commercial aircraft - Wikipedia
Transportation: Transportation Fatalities by Mode | Bureau of Transportation Statistics (bts.gov)

Github repo: bgaggainpali/DSC640_Data_Presentation_And_Visualization (github.com)