# Arline Safety Final Presentation

Goal of this exercise is to prepare a final presentation discussing the airline safety in terms of data.

## Data Sources:

1. Main data: Airline Safety

Data for 56 airlines that were in the global top 100 as of December 2012 and which have operated continuously since Jan. 1, 1985.

|  |  |
| --- | --- |
| **Column** | **Details** |
| airline | Airline (asterisk indicates that regional subsidiaries are included) |
| avail\_seat\_km\_per\_week | Available seat kilometers flown every week |
| incidents\_85\_99 | Total number of incidents, 1985–1999 |
| fatal\_accidents\_85\_99 | Total number of fatal accidents, 1985–1999 |
| fatalities\_85\_99 | Total number of fatalities, 1985–1999 |
| incidents\_00\_14 | Total number of incidents, 2000–2014 |
| fatal\_accidents\_00\_14 | Total number of fatal accidents, 2000–2014 |
| fatalities\_00\_14 | Total number of fatalities, 2000–2014 |

Data Details:

1. Supplemental data: Auto Fatalities

Data showing number of people killed and injured in fatal collisions.

|  |  |
| --- | --- |
| **Colum** | **Details** |
| Year | Year of incident |
| Killed | Number of fatalities |

Data Details:

1. Supplemental data: Airline Fatalities

Data showing number of people killed in fatal crashes.

|  |  |
| --- | --- |
| **Column** | **Details** |
| Year | Year of incident |
| Fatalities | Number of fatalities |

Data Details:

1. Supplemental data: Combined Fatalities

Data showing the number of people killed due to both auto and airline crashes in an year.

|  |  |
| --- | --- |
| **Column** | **Details** |
| Year | Year of incident |
| Fatalities | Number of fatalities |
| Category | Category of the crash - airline/auto |

Data Details:

## Executive Summary Details:

### Overview:

I have used power point presentation to prepare the final presentation video. I have considered the primary goal to show the trend of the airline crashes to show that the airline travel is safe today compared to early days of airline travel. I have also used auto crash data to show how low the airline crash fatalities are compared to the auto crash fatalities.

Below are details about several statistics included in the presentation. (used from previous exercises)

1. 3 bar charts - I have used bar charts to show the trend of airline fatalities as well as the top 5 airlines with more number of fatalities and incidents.
2. Four metric cards - These are used to reflect the average number of fatalities and incidents happened per year as well as the total number of fatalities and incidents happened from auto crashes compared to the number of fatalities and incidents happened for airlines.
3. Two Funnel charts - I have used these to show the relation between the fatalities before 2000 vs, fatalities after 2000, and fatal incidents before 2000 vs. fatal incidents after 2000, to show that the auto fatalities count didn’t reduce much in recent years, whereas the airline fatalities have reduced by a big factor in recent years.

## References:

* airline\_fatalities.xlsx - Downloaded from <http://www.baaa-acro.com/statistics/death-rate-per-year>, found from one of the supporting links provided.
* auto\_Fatalities.XLS - Downloaded from <https://cdan.nhtsa.gov/SASStoredProcess/guest>, found from one of the supporting links provided.