



WORKPLACE FATALITIES, 2012

By Rida Jawwad

INTRODUCTION TO DATA

The data was about the workplace fatalities, injuries and penalties in the states of the US. We were supposed to explore data and find insights.

DETAILS ON THE QUESTIONS EXPLORED

Just answered the questions which were given in the project's requirements which are the following:

- Which program has the highest rate of fatalities
- Which state with the program has the highest number of injuries
- Relationship between rate of fatalities and avg. of years to inspect each workplace once

INSIGHTS HIGHLIGHTED

- Minimum number of workplace fatalities occurred in the year 2012 is **8**.
- **536** is the greatest number of workplace fatalities occurred.
- Average number of workplace fatalities is **92.34**.
- **Federal program** had the highest rate of fatalities and the highest number of injuries in the year 2012.
- In federal program, **California** had the highest number of injuries and in state program, **Texas** had the highest number of injuries.
- There should be the relationship between the rate of fatalities and the average of years to inspect each workplace once because I believe **the more years it will take to inspect a workplace once, the greater the number of fatalities will occur**.
- In some states, the inspectors were taking more time to inspect each workplace once maybe because there would be more workplaces present as compared to other states, or maybe there would be any other reason for it, however my point is that, **had there been more inspectors, the lesser fatalities would have occurred**.

FEATURES USED IN POWER BI

- Slicer
- Transform Data
 - Splitting columns
 - Changing data types
 - Removing total row and empty rows
 - Removing useless columns
 - Making first row, header.
 - Renaming columns
- Visualizations like pie chart, tree map, card, scatter chart, histogram (imported from AppSource)

INFORMATION FROM ANALYTICS STORYTELLING APPLIED

- Removed borders
- Embraced white spaces
- Reduced text
- Used charts instead of matrices
- Used legends in the charts where appropriate
- Used pre-attentive attributes such as color, size in the texts

IDEAS FOR FUTURE IMPROVEMENT OF THE PROJECT

- The data was very limited like we had the data for the year 2012 only. We should be given more data for the better insights
- Some records were missing for some of the states for e.g., Number of injuries for Florida was missing.
- Penalties data was from the year 2013, which is not appropriate
- I believe, a column for number of workplaces should also be there