Health Data Analysis:

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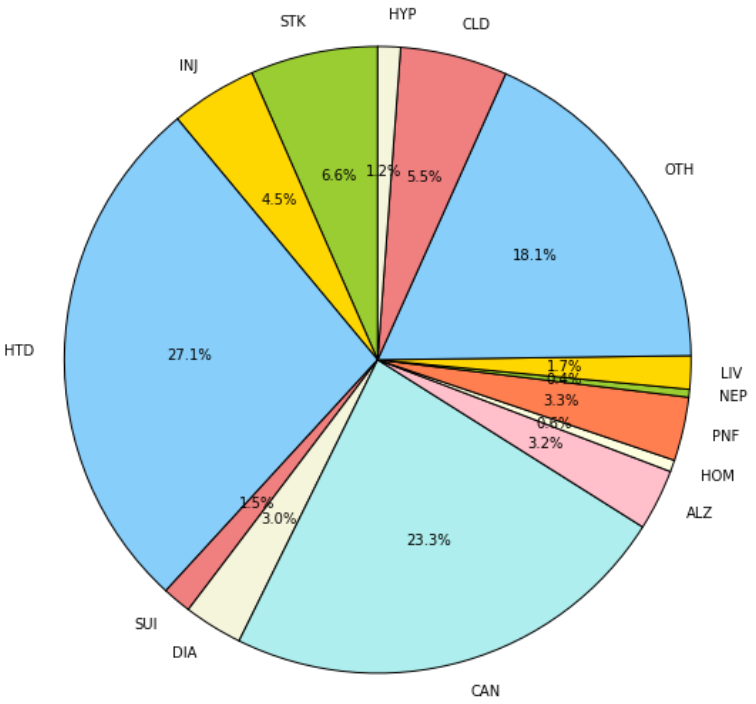
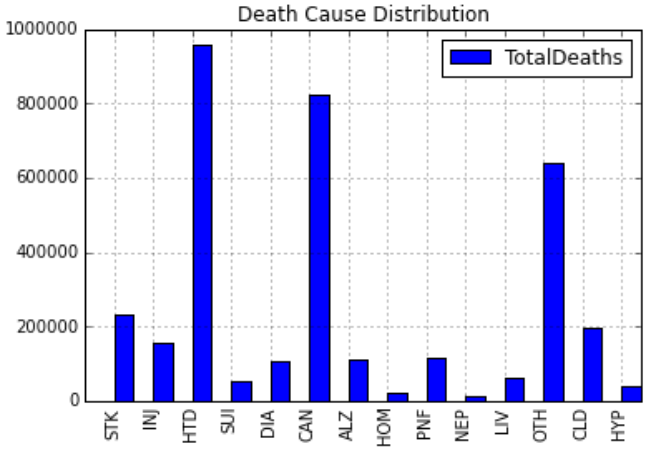
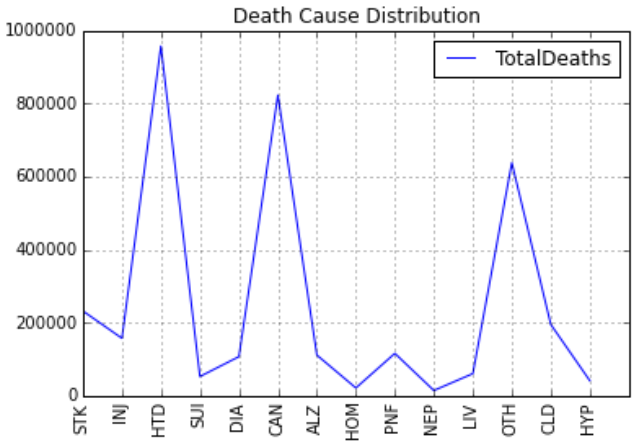
git-hub link: https://github.com/devpoo/DeathCauseAnalysis

Data used for the assignment shows distribution of leading death causes in California from the years 1999 to 2013. I have made an attempt to find insights from the data to understand the distribution based various factors like causes, number of deaths its distribution over year and zip code. I have also tried to see how the trend of death causes has been over years and for different years. IBM Bluemix Apache spark service was used to answer these questions. I have listed the questions and answers answered in the report. Data Sources: http://catalog.data.gov/dataset/leading-causes-of-death-by-zip-code-1999-2013

Distribution of Death Causes from 1999-2013

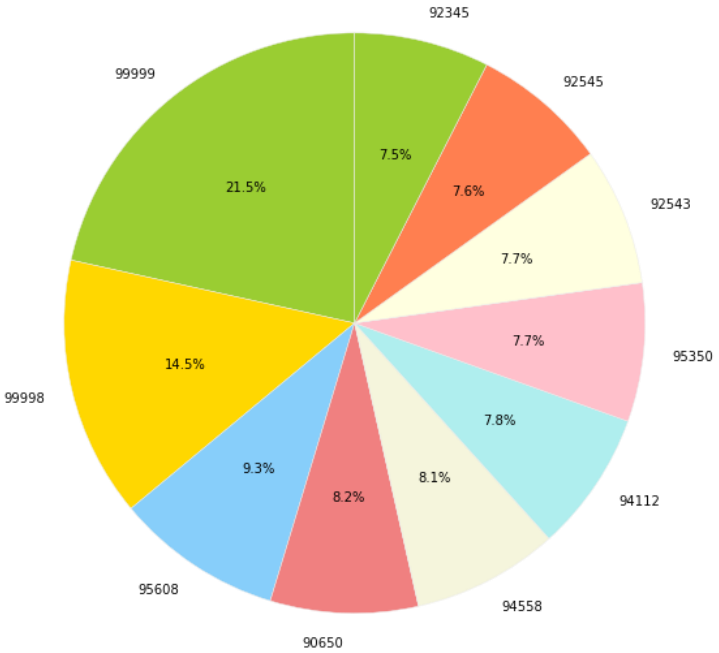


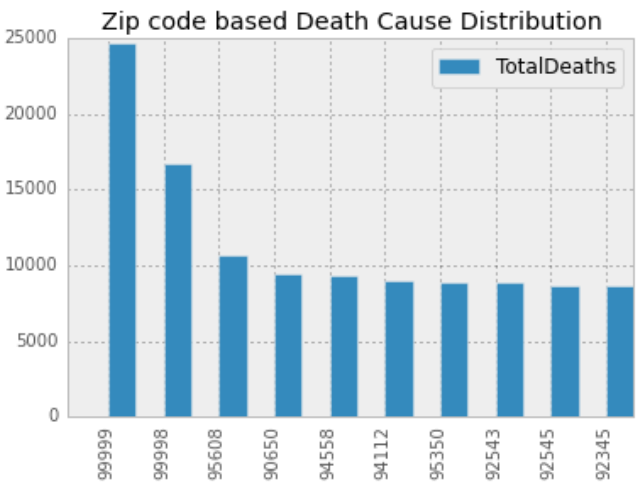


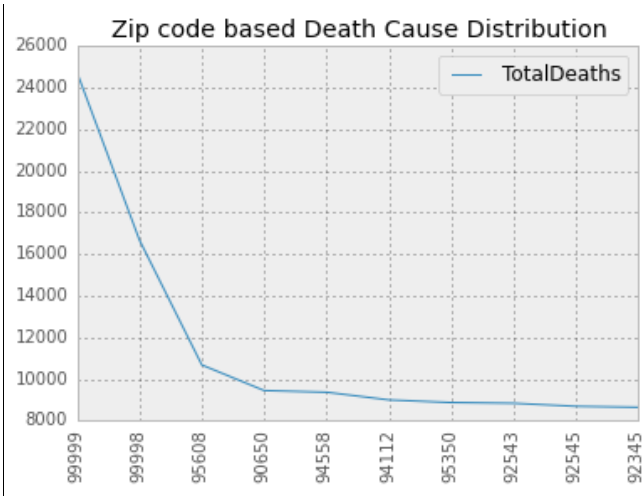


The above figures show that the HTD, OTH and CAN have been the major causes for death.

Zip based distribution of death causes from 1999-2013

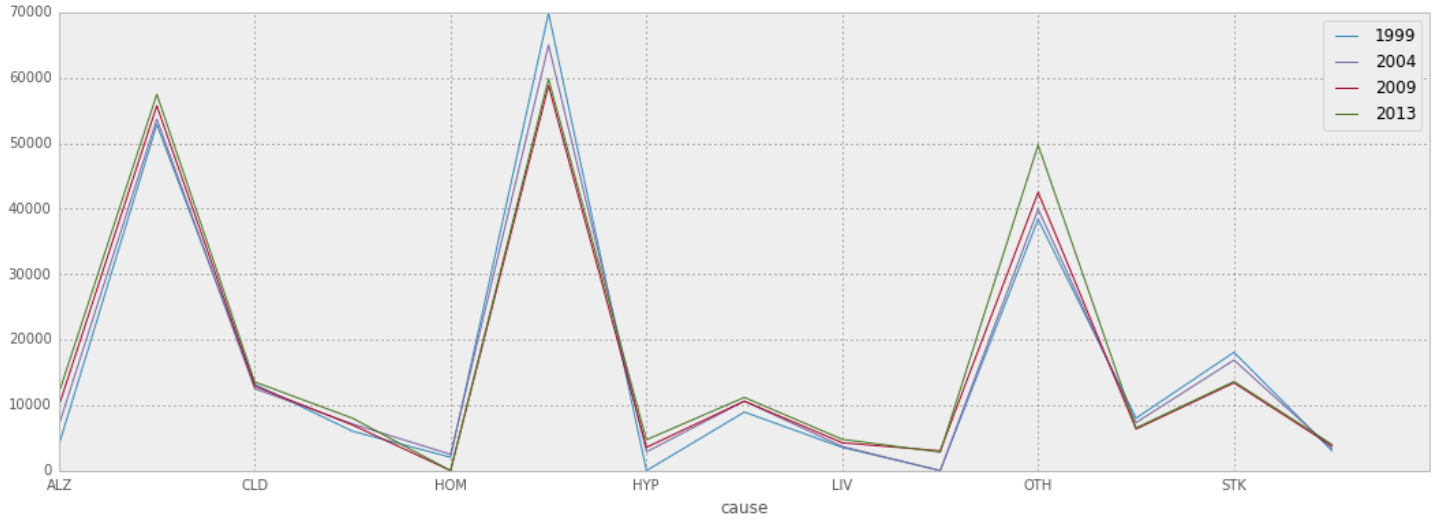






Zip Codes with highest mortality rate

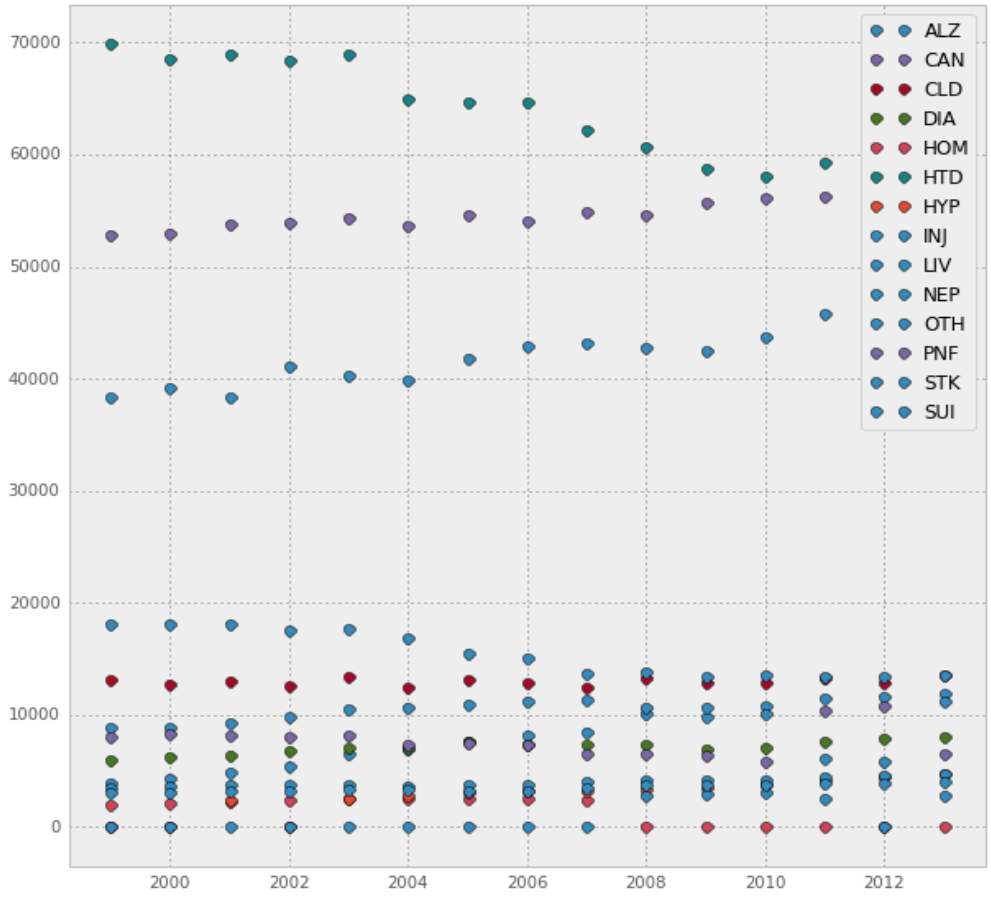
10 Zip codes with highest mortality rate were used to plot the data. Zip code 99999 has the highest mortality rate over given years.



The above line chart depicts the trend of Death Rate over different causes with an interval of 5 years (4 in case of last interval). OTH shows a rise with every year.

Scatter plot for death cause based distribution:

The scatter plot below shows the death causes spread over years. With this trend, the ALZ shows a decreasing rate.



Scatter plot for zip code based death cause distribution:

The scatter plot of zip based distribution of deaths due to different causes is plotted below.