



Infant Mortality Analysis And Visualization with Causes Across Globe For Recent Years

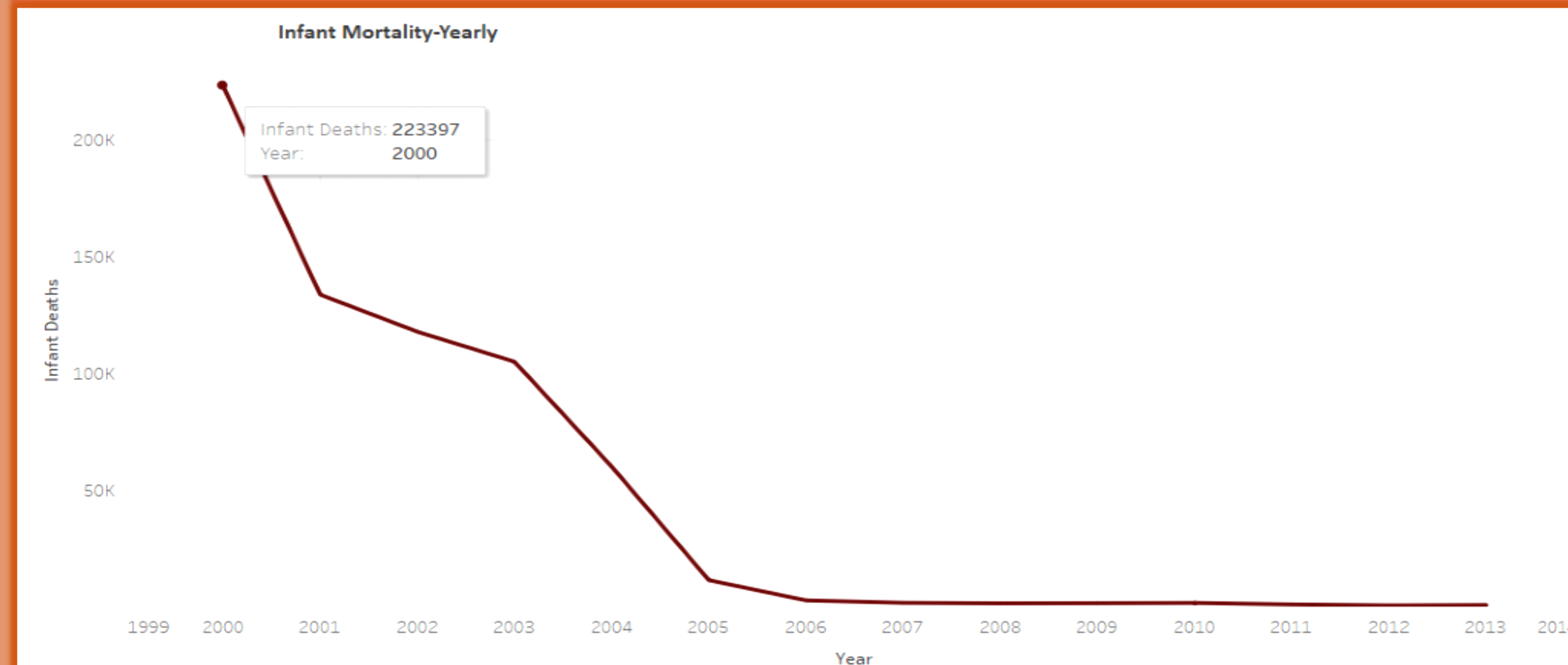
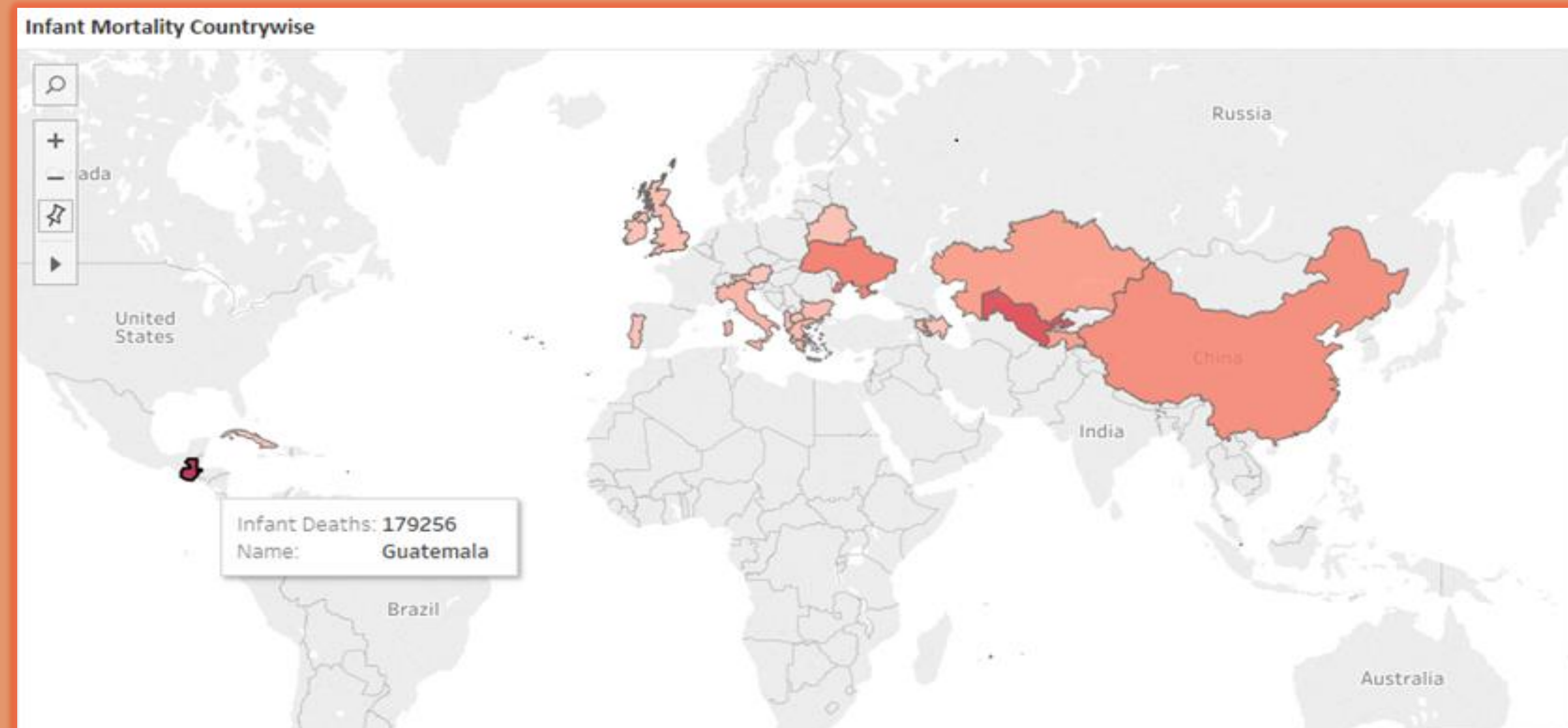
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Abstract

The research takes Mortality data set downloaded from WHO site through a set of steps that could be seen as a manually executed data pipeline. Analysis is performed on a subset of mortality data from year 2000-2013 for Only Infants across all the Countries listed along with the exact causes of mortality. This analysis will definitely help in understanding the trend and diseases causing infant mortality all over the world and deciding the next steps in healthcare development and drug discoveries to reduce this death rate.

Visualization and Analysis



Background

This project analyses Infant mortality rate across the globe along with the disease information causing it from year 2000-2013. The analysis steps include the processing of raw data from WHO datasets and further cleaning, analysis and visualization across globe along with disease

Methodology

Different steps considered as data pipeline on raw data from WHO

- Reformat the data: The raw txt file of mortality data is to be converted to MongoDB format
- Import the data into MongoDB database for further processing
- Query and Update the data as per the desired criteria for analysis
- Exporting updated collections into json files and using third party tool to convert json to csv
- Visualization and Analysis using Tableau



Conclusion

- Condition “Certain conditions originating in the perinatal period” is the biggest cause of highest infant mortality which is 68,197 across the globe in the time period of 2000-2013
- There are other diseases like diseases like Congenital anomalies, Pneumonia, pregnancy, childbirth and the puerperium which are the next in the list causing major deaths among infants
- “Guatemala” country is with the highest count of Infant Mortality of 179,256 irrespective of causes of deaths
- Rest of the countries have Infant mortalities from 60-179,000 with Ukraine, Uzbekistan showing highest rate of Infant mortalities
- Mortality is decreased to a greater extent from 2000 to 2013 which is really a good news.

References

http://www.who.int/healthinfo/statistics/mortality_rawdata/en/
<https://docs.mongodb.com/manual/tutorial/>
<https://www.tableau.com/learn>