**Exercise 2 : Earth Quake and Geo Spatial Data Analysis from the Year 1900 – 2013**

Before even starting, install Tableau public software and create your Tableau Public profile and save your workbooks on that platform. This is the first step to project your Tableau skills

Dataset summary (source tableau) : Magnitude 6 + earthquakes from year 1900 to 2013

Scenario:

Imagine you are a data analyst at an Insurance company trying to gain insights on major earthquakes and determine their hotspots in each continent. This analysis using historical data on earthquakes would enable you to develop insurance products suitable for the customers living in these active regions.

**Learning Objective: Data Visualization Fundamentals**

1. **Create a geographical visualization to plot all earthquakes that occurred between 1900 and 2013. Identify the location and magnitude of each earthquake?**
2. **Using a scatter-plot and try to address tasks below**
   * **Is there a correlation between Depth and Magnitude variables for occurrences of (>7 magnitude on Richter scale) mega earthquakes?**
   * **How can we segment data using Tableau and plot the relationship between these variables?**
3. **Which country or continent had highest occurrences of greater than 7 magnitude earthquakes on Richter scale?**

Hint: Use a Lasso or Rectangular or Radial selection tool in Tableau to manually select individual marks (data points) in your visualization. After selecting the data points, export them to an excel file.

**Reference for data selection tools:**

**onlinehelp.tableau.com/current/pro/desktop/en-us/inspectdata\_selectiontools.html**

1. **Finally prepare a dashboard and storyline summarizing your analysis on earthquakes and their occurrences in various places of the earth (with focus on countries and continents which are active spots for earthquakes). This aim of this report is to communicate these insights to other stakeholders in a visually appealing format.**