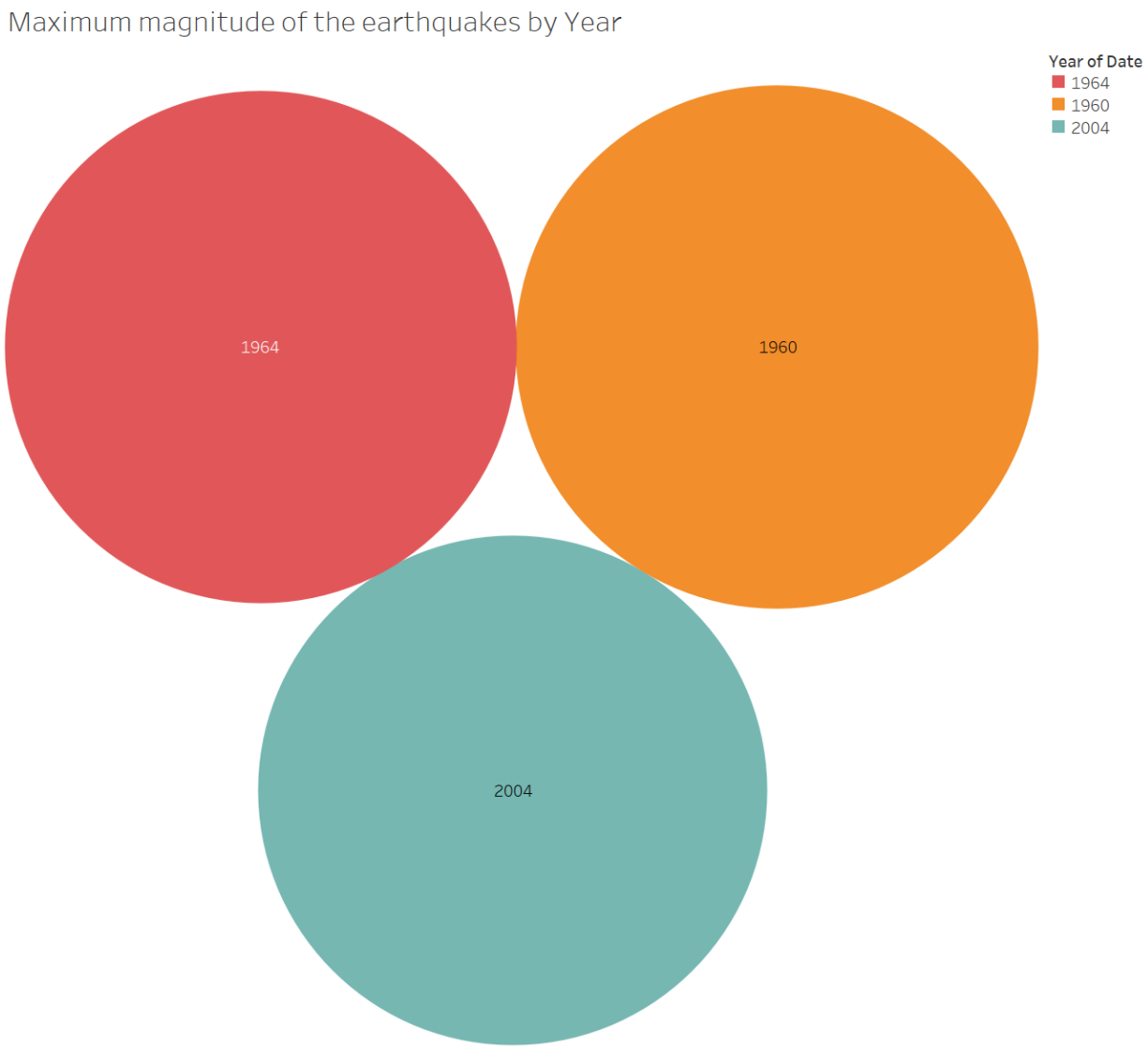
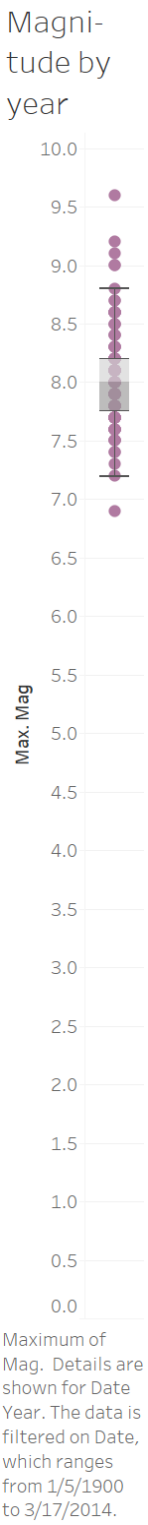
Assignment

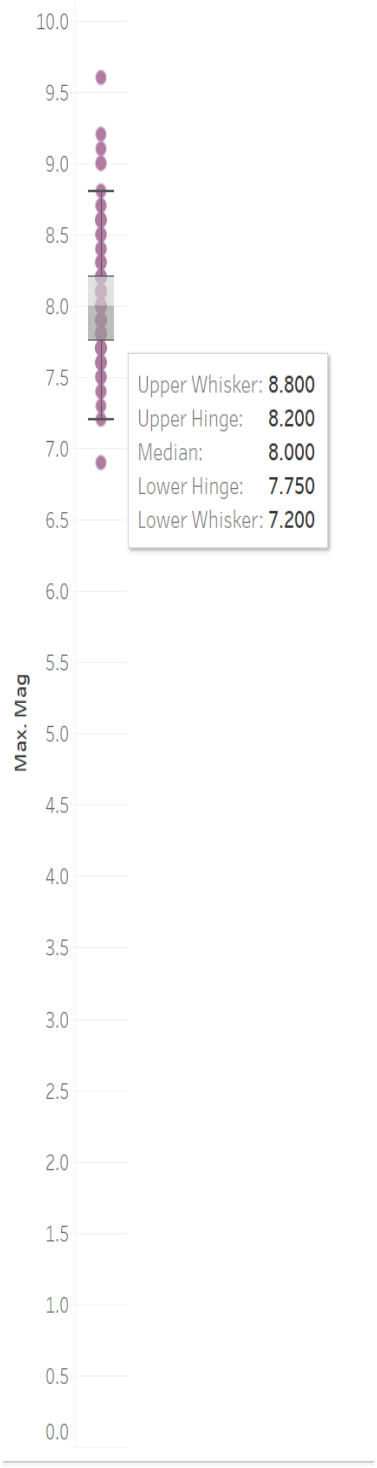
a) Dashboard 1 – Having 2 visualizations. Paste a screenshot.

I. Sheet 1 - Maximum magnitude of the earthquakes by Year – Using Packed Bubbles plot



II. Sheet 2- Maximum magnitude of the earthquakes by Year – Using Box and Whisker Plot





DASHBOARD 1:

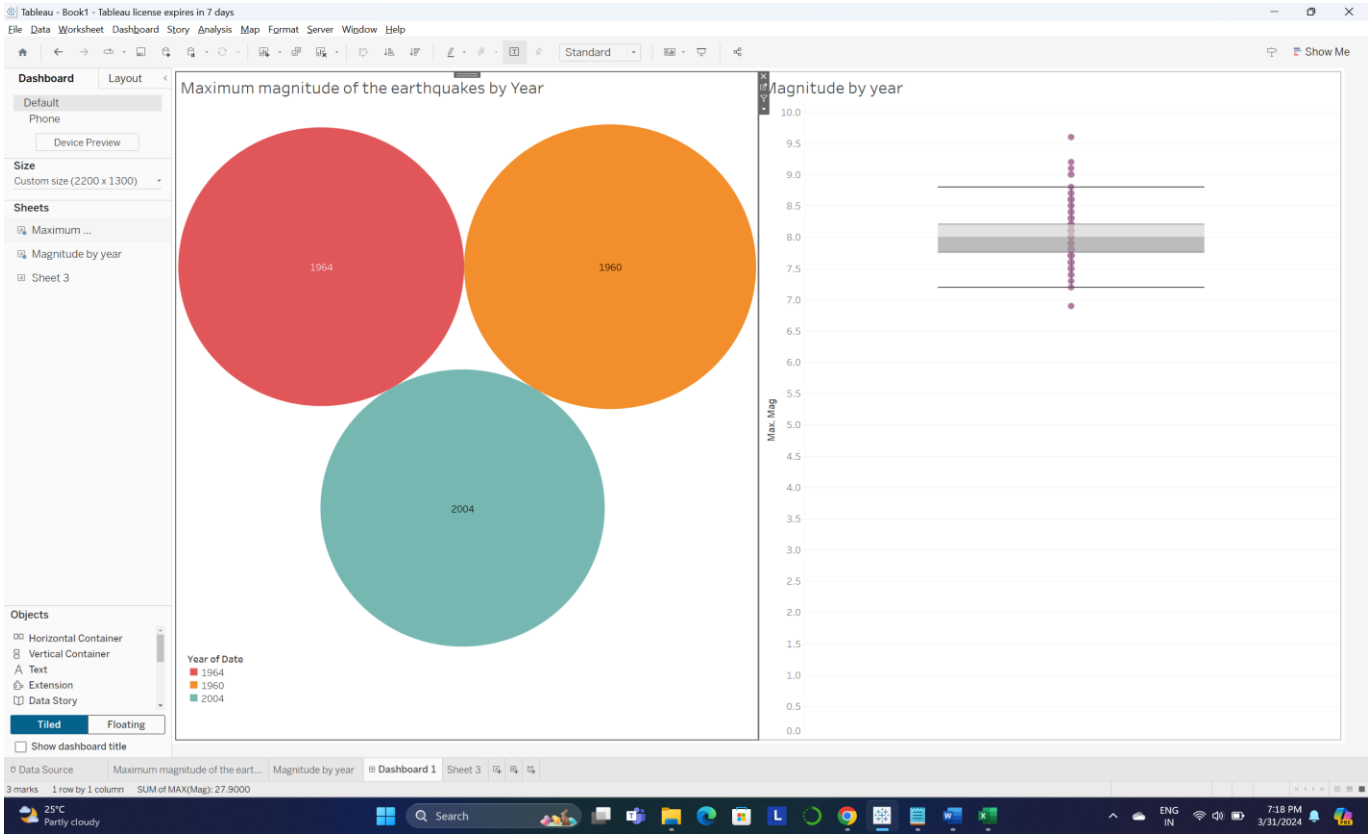
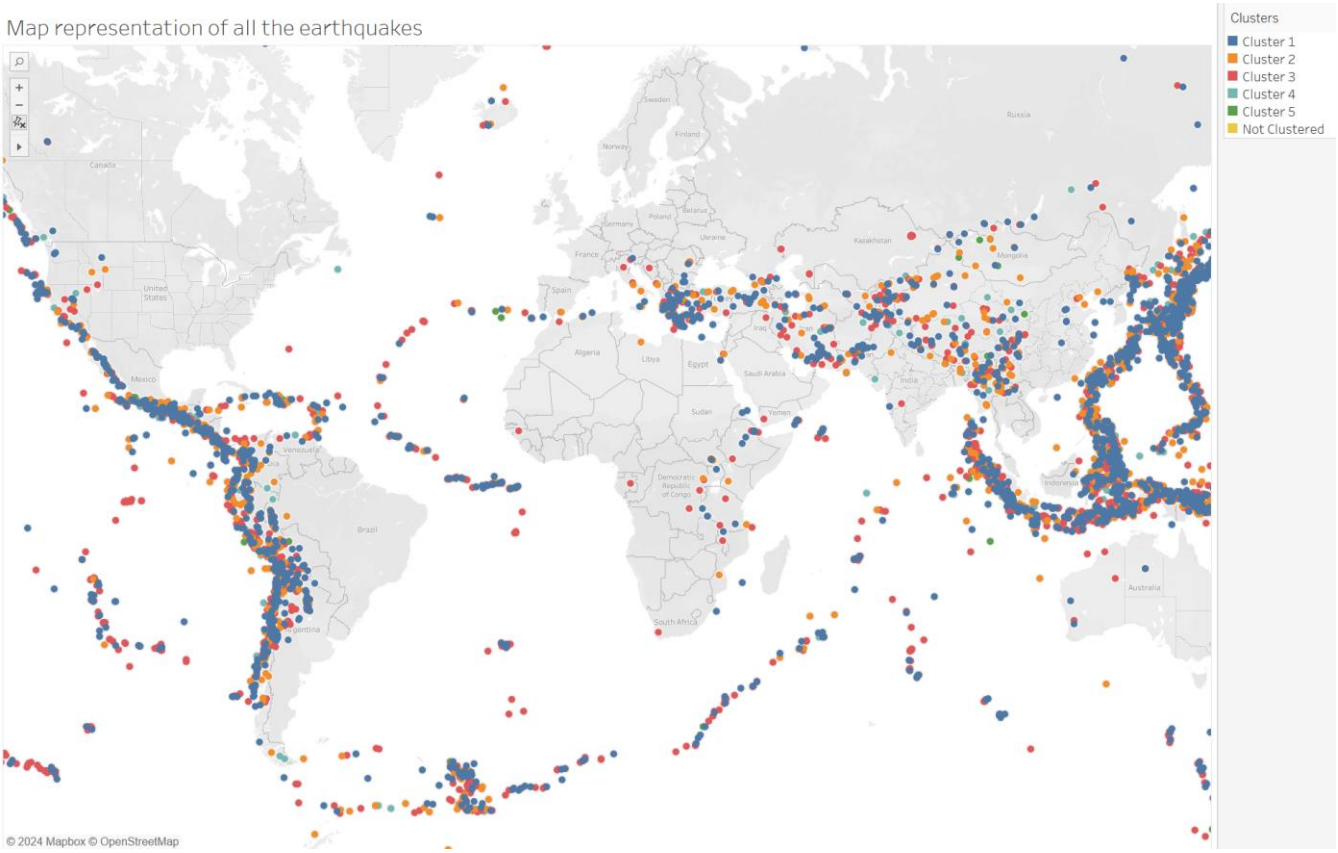
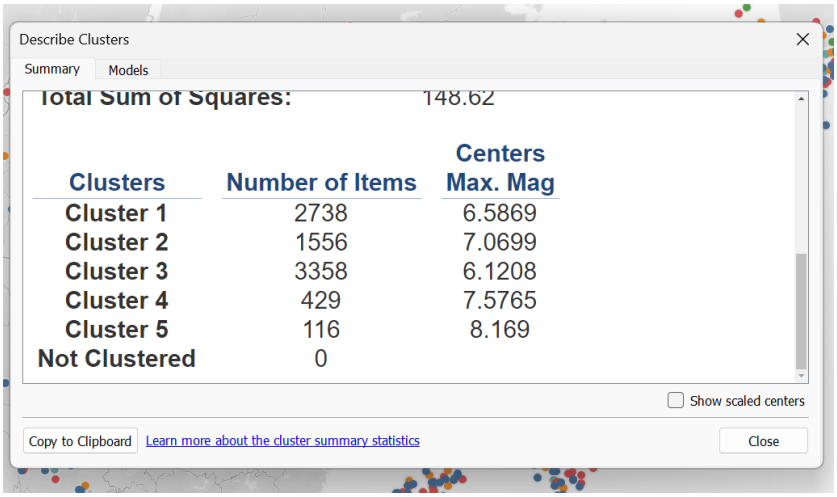


Tableau - Book1 - Tableau license expires in 7 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Dashboard
Layout
Default
Phone
Device Preview
Size
Custom size (2200 x 1300)
Sheets
Maximum ...
Magnitude by year
Sheet 3
Objects
Horizontal Container
Vertical Container
Text
Extension
Data Story
Tiled
Floating
Show dashboard title
Maximum magnitude of the earthquakes by Year
1964
1960
2004
Year of Date
1964
1960
2004
Magnitude by year
Max. Mag
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Data Source
Maximum magnitude of the eart...
Magnitude by year
Dashboard 1
Sheet 3
3 marks
1 row by 1 column
SUM of MAX(Mag): 27.9000
25°C
Partly cloudy
Search
ENG
IN
7:18 PM
3/31/2024

i. Sheet 3 - Map representation of the all the earthquakes and perform cluster analysis

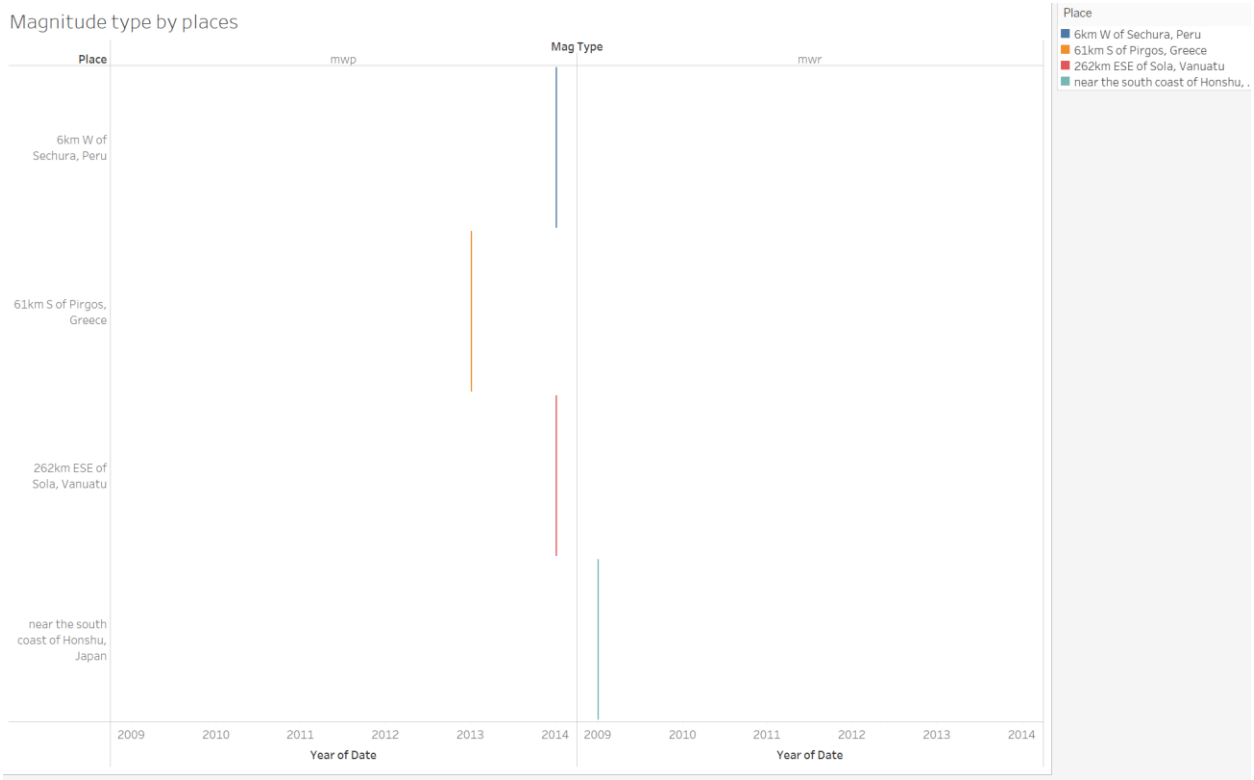


- The cluster which has the highest magnitude is the cluster 5 that is 8.169.

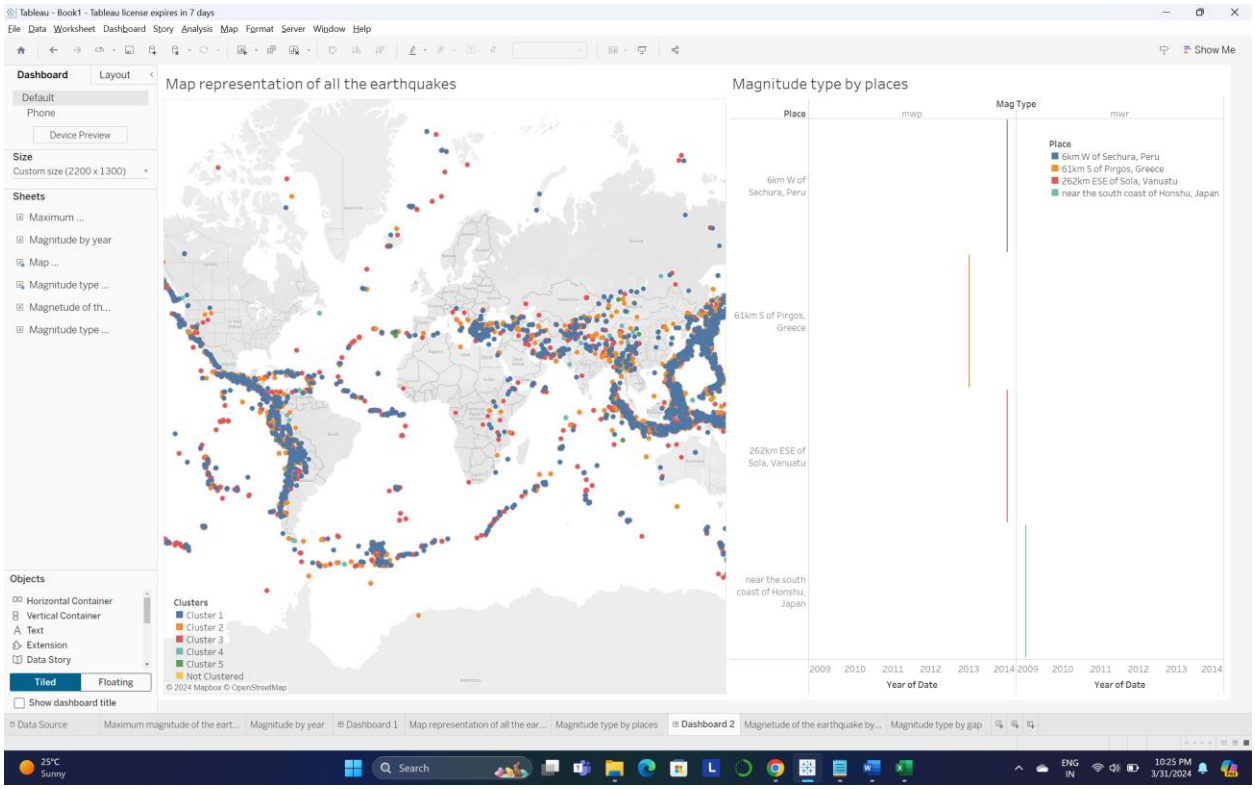


ii. Sheet 4- Places where Magnitude Type is ‘mwr’ or ‘mwp’ (select both types)

Gantt chart visualization of places where Magnitude type is ‘mwr’ or ‘mwp’

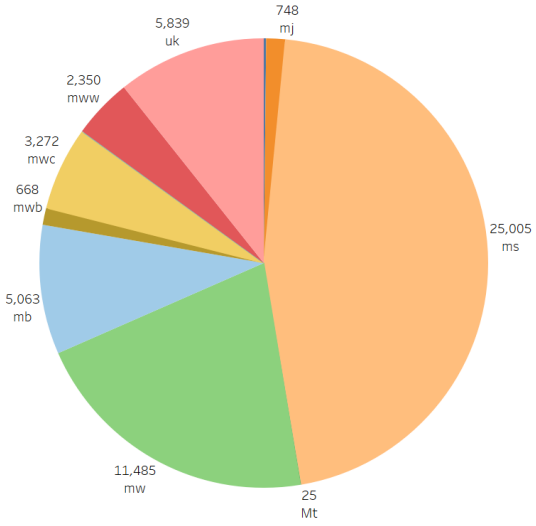


Dashboard 2:



Sheet 3: Pie chart showing the magnitude of the earthquakes by the magnitude type.

Magnetude of the earthquake by the magnetute type



Mag

54,567

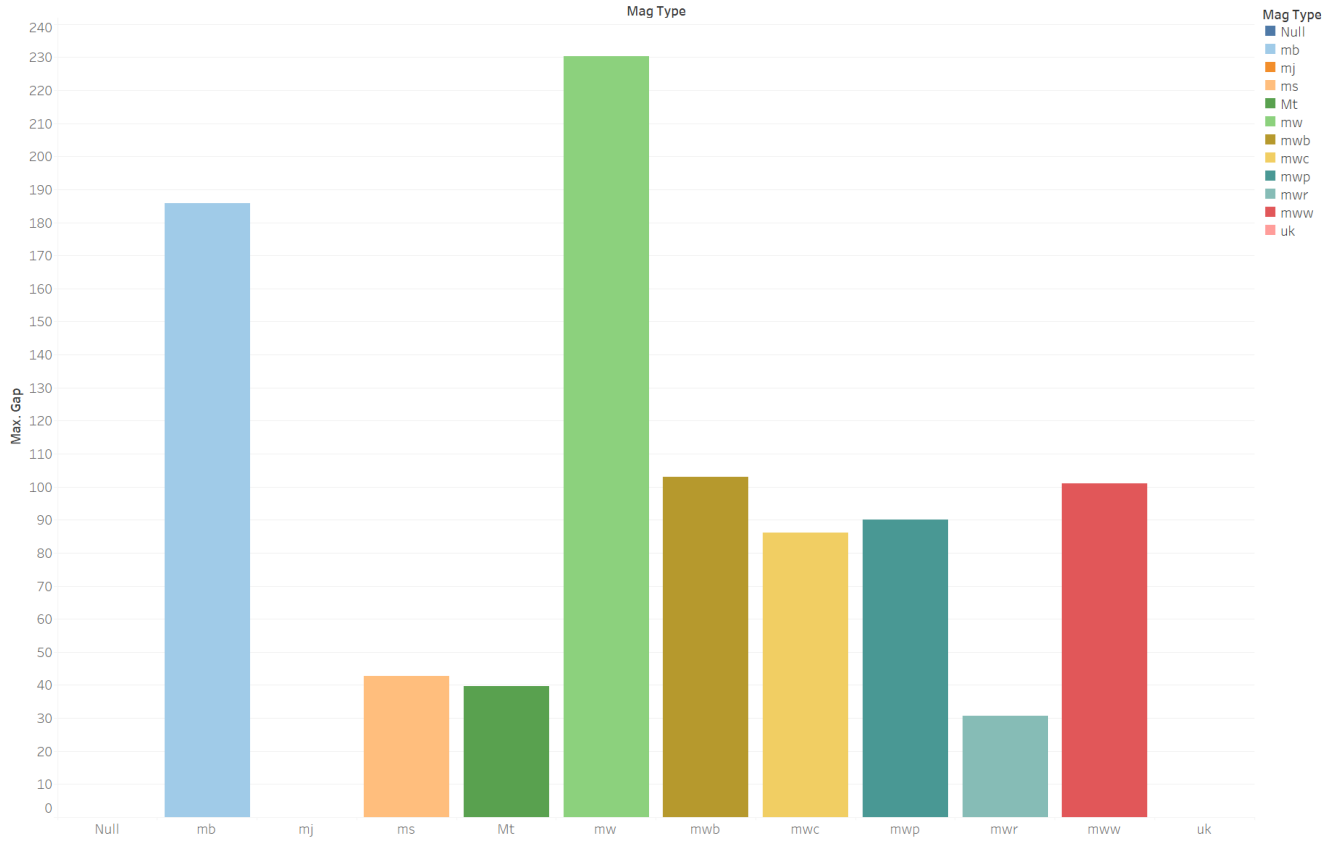
Mag Type

- Null
- mj
- ms
- Mt
- mw
- mb
- mwb
- mwc
- mwp
- mwr
- mww
- uk

Sum of Mag and Mag Type. Color shows details about Mag Type. Size shows sum of Mag. The marks are labeled by sum of Mag and Mag Type.

Sheet 4: A Bar plot showing the magnitude type by the amount of gap.

Magnitude type by gap

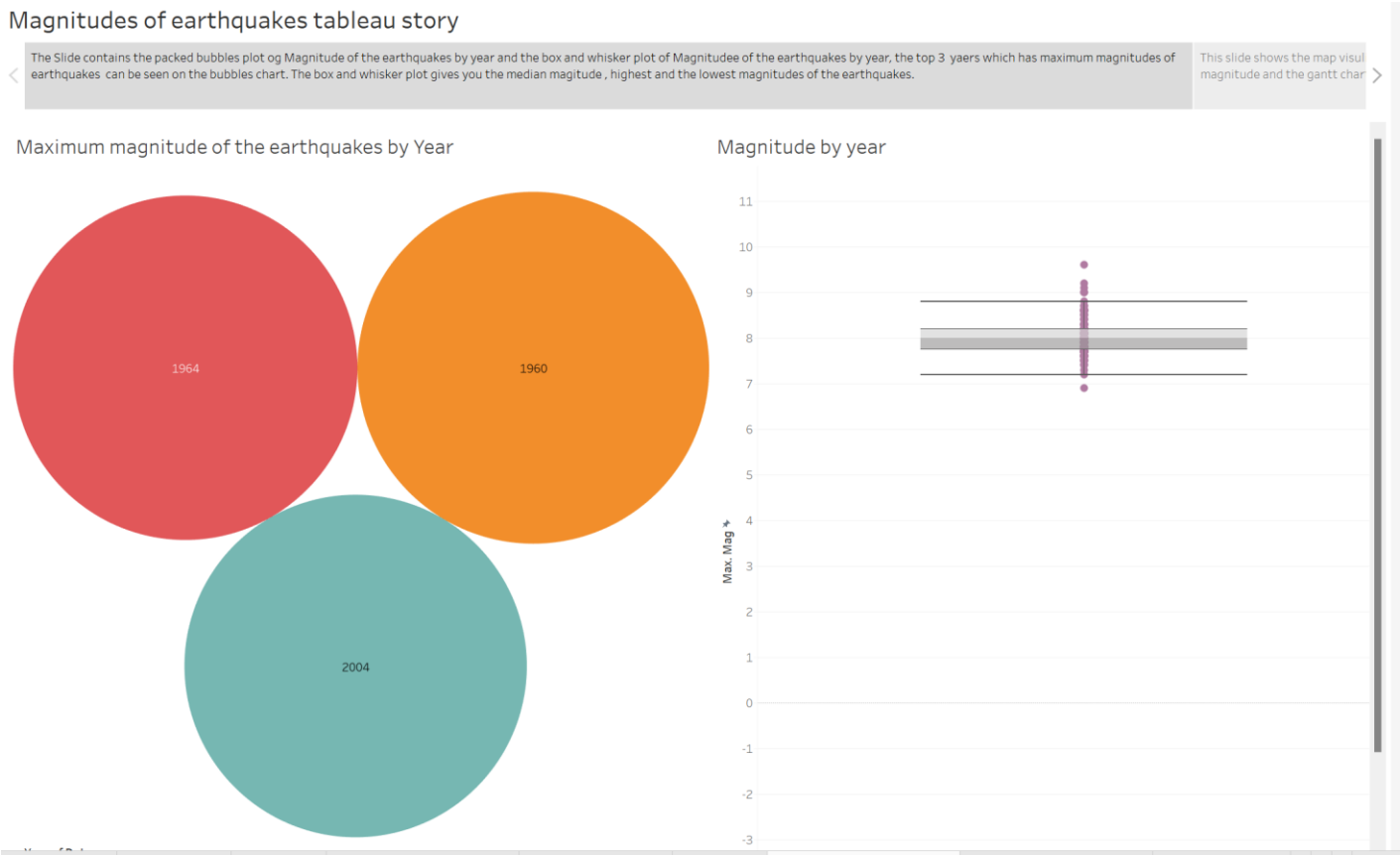


Maximum of Gap for each Mag Type. Color shows details about Mag Type.

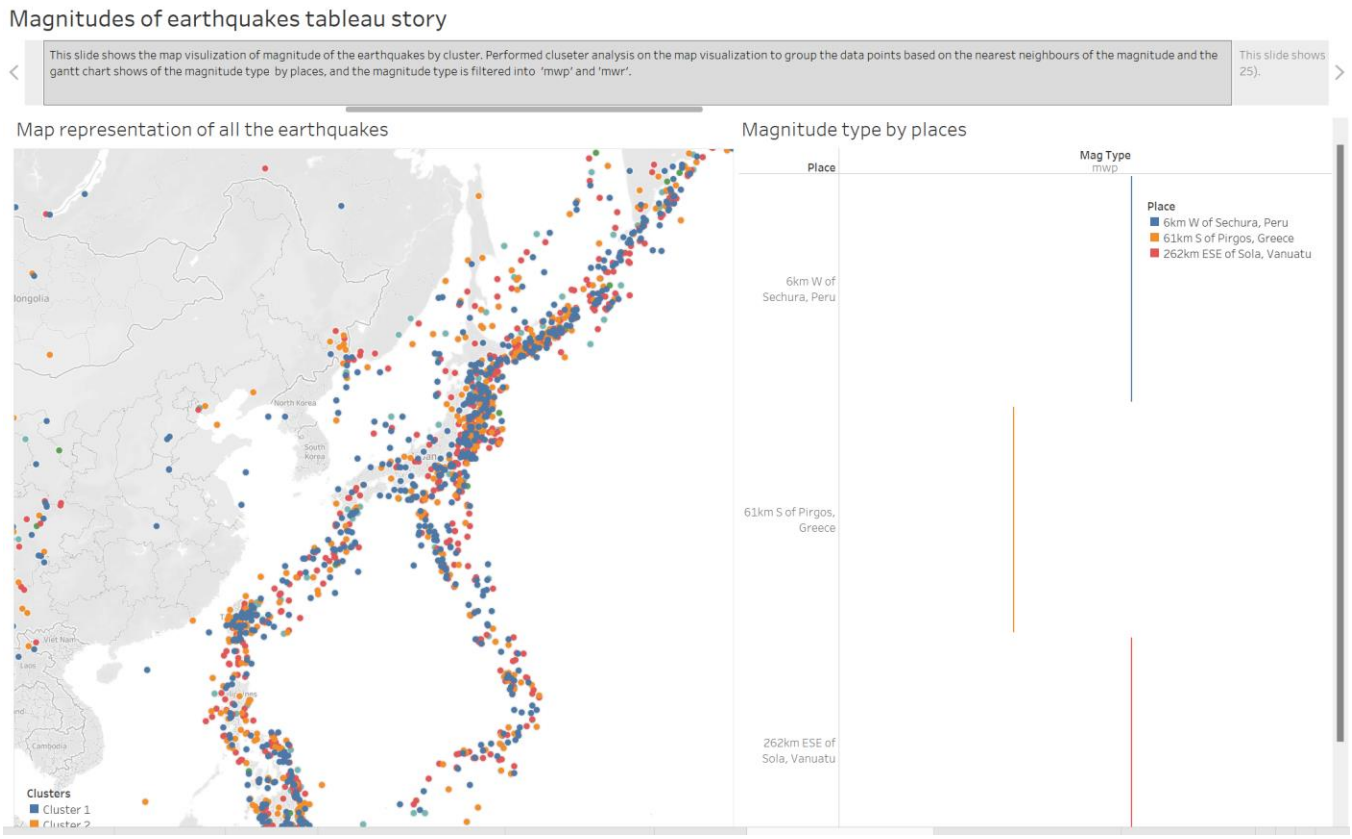
Story:

- **Created a story using all the visualizations**

Slide 1:



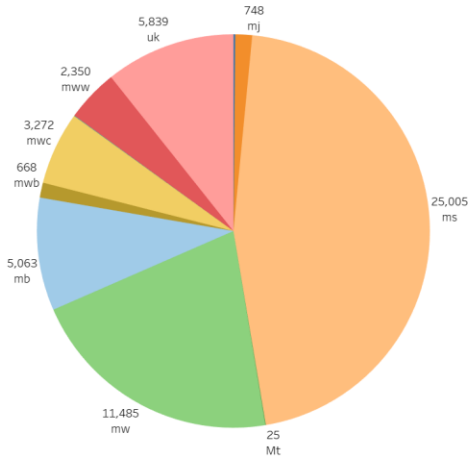
Slide 2:

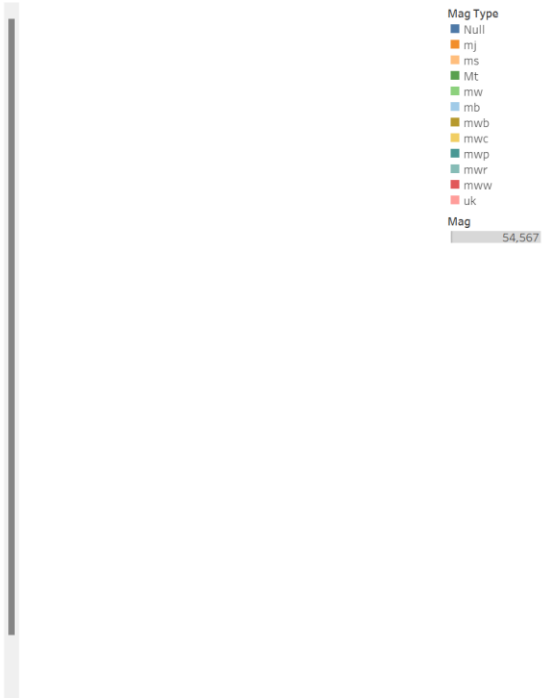

Magnitudes of earthquakes tableau story
This slide shows the map visulization of magnitude of the earthquakes by cluster. Performed cluseter analysis on the map visualization to group the data points based on the nearest neighbours of the magnitude and the gantt chart shows of the magnitude type by places, and the magnitude type is filtered into 'mwp' and 'mwr'.
This slide shows 25).
Map representation of all the earthquakes
Clusters
Cluster 1
Magnitude type by places
Place
Mag Type
mwp
6km W of Sechura, Peru
61km S of Pirgos, Greece
262km ESE of Sola, Vanuatu
Place
6km W of Sechura, Peru
61km S of Pirgos, Greece
262km ESE of Sola, Vanuatu

Slide 3:

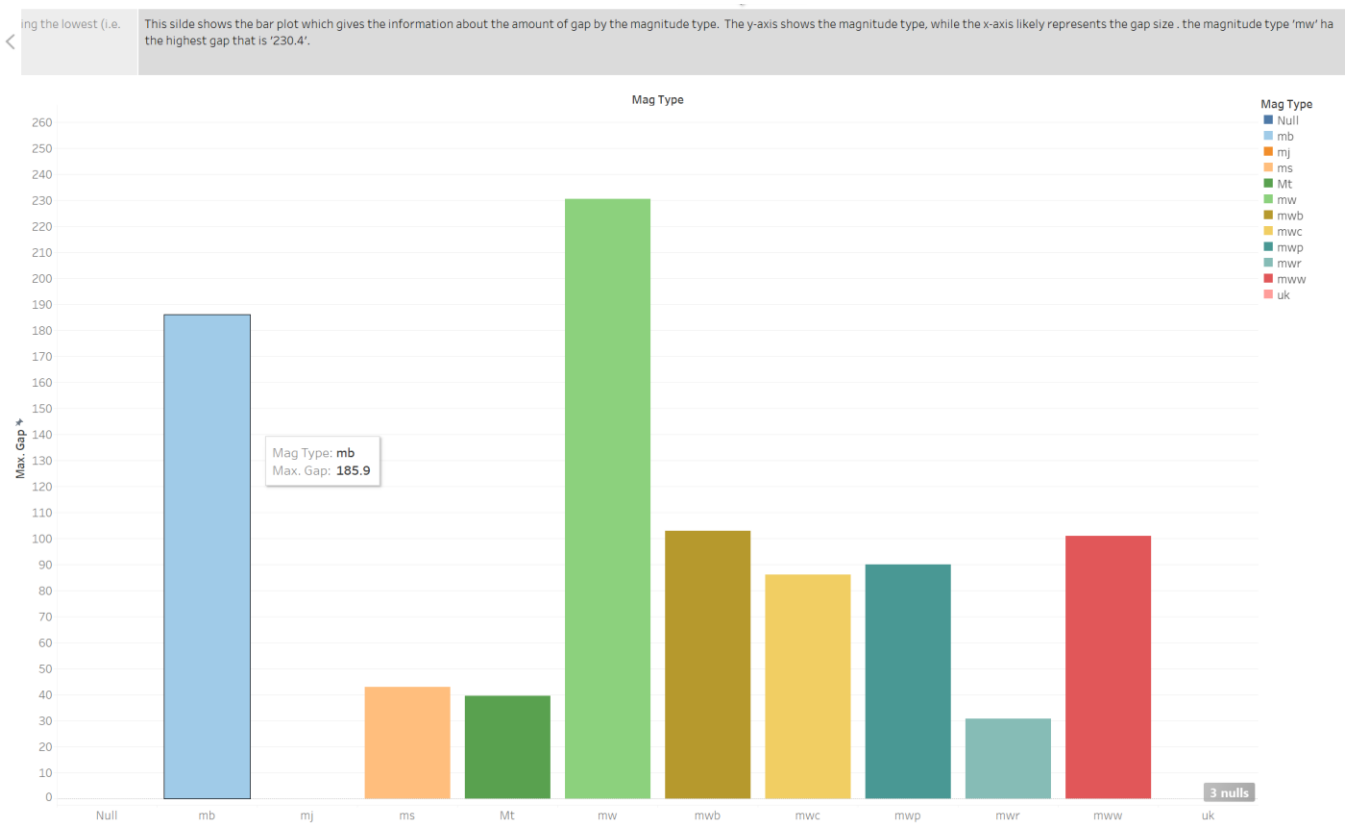
Magnitudes of earthquakes tableau story

ınd the | This slide shows the Pie chart visulization of the magnityde of the earthquakes bt the magnitude type. The magnitude type 'ms' has the hioghest magnitude (i.e. 25,005) and the magnitude type 'mt' being the lowest (i.e. 25). | This silde





Slide 4:


ing the lowest (i.e.
This silde shows the bar plot which gives the information about the amount of gap by the magnitude type. The y-axis shows the magnitude type, while the x-axis likely represents the gap size . the magnitude type 'mw' ha the highest gap that is '230.4'.
Mag Type
Mag Type
Null
mb
mj
ms
Mt
mw
mwb
mwc
mwp
mwr
mww
uk
Max. Gap
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Mag Type: mb
Max. Gap: 185.9
3 nulls
Null
mb
mj
ms
Mt
mw
mwb
mwc
mwp
mwr
mww
uk