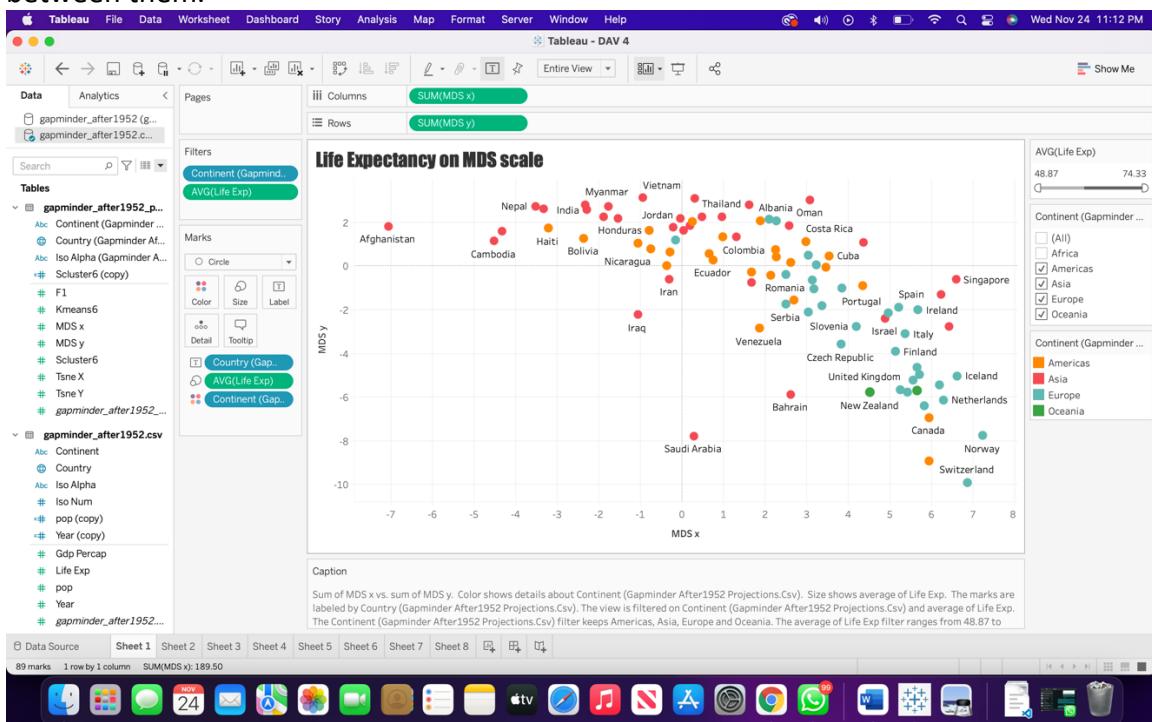


DAV 4:

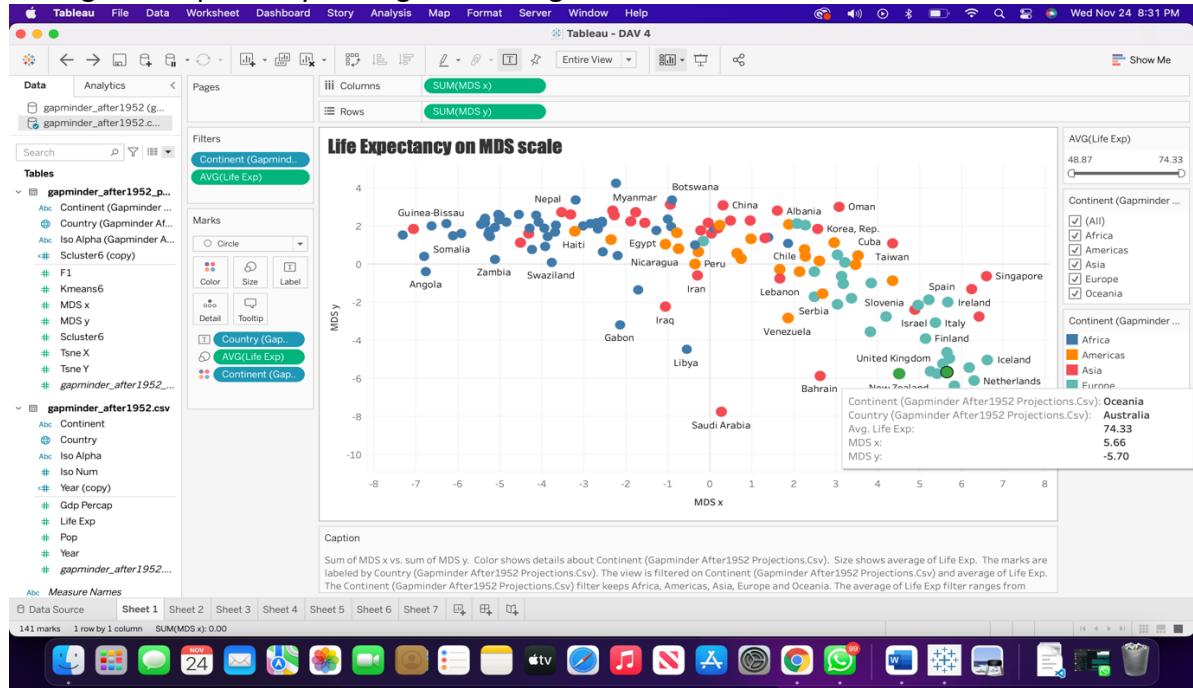
Sheet 1:

- Saudi Arabia and Afghanistan both are countries which are present in Asia but by the graph we can see that even though both have the same life expectancy average: 59.79, both are having different MDS axis units and are present at different locations of the graph. While both are neighboring countries we can see that there is a huge difference between them.

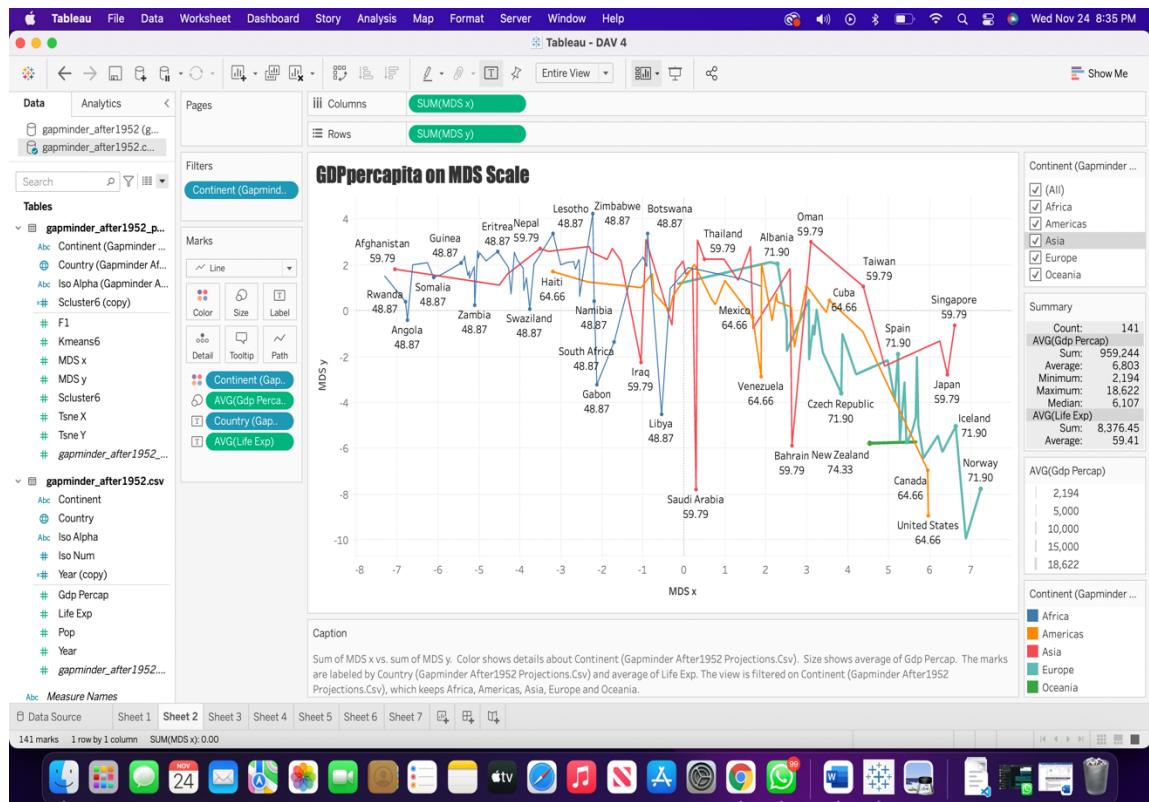


- Egypt and Saudi Arabia are neighboring countries, still in different continents, they have average life expectancy difference of nearly 10 years. Being Gulf countries they both have almost similar conditions of living but still the life expectancy is very different. This states that Saudi Arabia has better medical resources and climatic conditions than Egypt.
 - From the MDS scaling, it is observed that East most countries like China, Singapore, Hong Kong, Japan have the same life expectancy but we notice that even Israel lies besides those countries and has the same life expectancy. Israel is located far away from these countries having way more different climatic conditions, population and medical resources still it has the same life expectancy amongst the Eastern countries.
 - On scaling the MDS axis more to a point where we see those countries having average life expectancy of 74.33 years. We get few countries and through the graph we can analyze that most of the countries are from Oceanic continent. We can say that people of Australia and New Zealand has a better life exposure than other countries from the world. We can draw a conclusion that countries belonging to Oceanic Continent have better

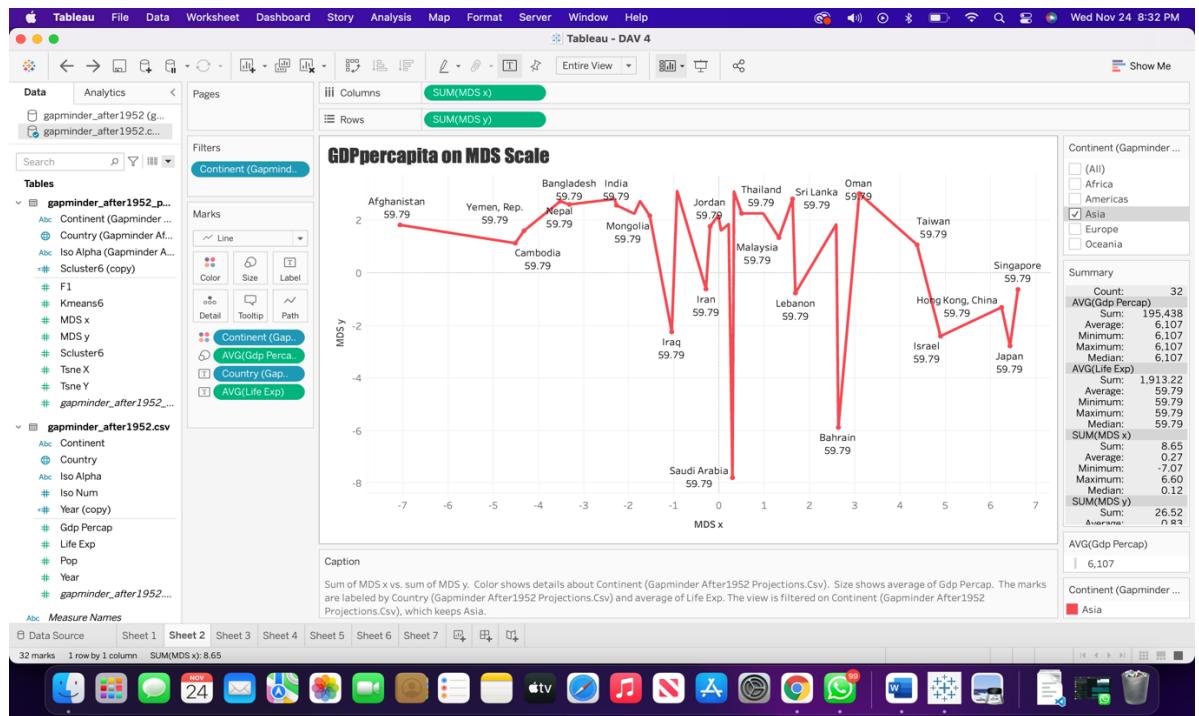
medical equipments, better facilities, suitable climatic conditions which makes the average life expectancy the highest amongst other countries.



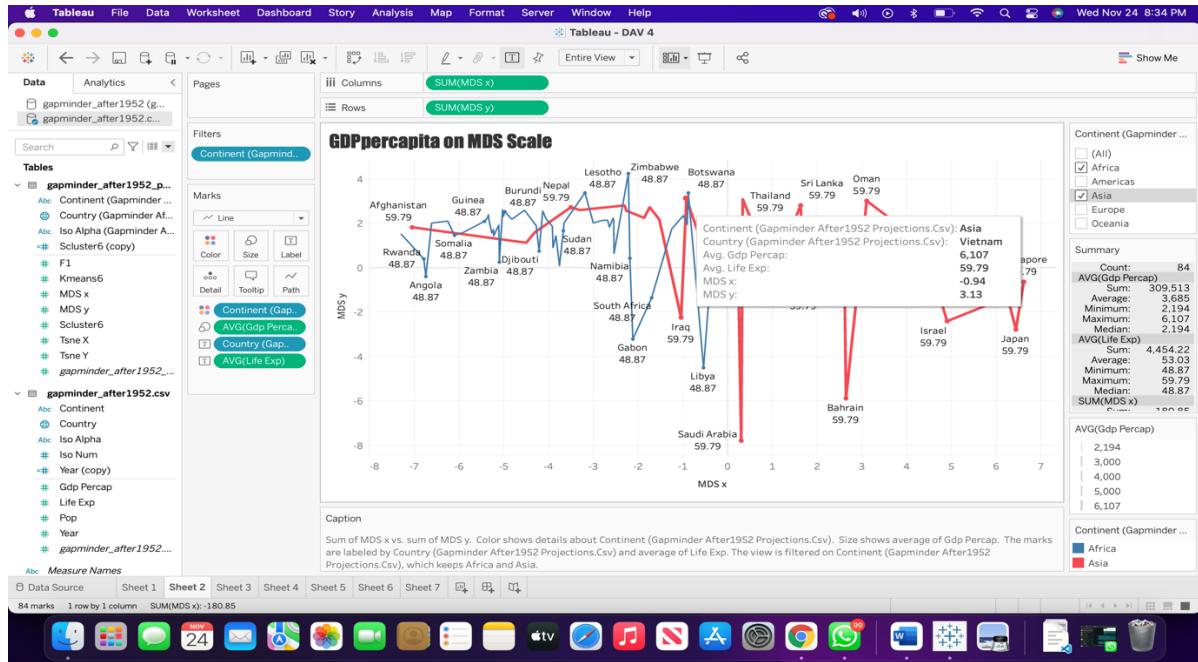
Sheet 2:



- On the MDS scale we see that Afghanistan and Singapore have same GDPpercapita but we observe that Singapore lies on the positive x-axis of MDS scale and Afghanistan lies on the negative side of the MDS scale of x-axis. We analyze that even though both countries have same average GDPpercapita, Singapore has much better facilities and life resources than Afghanistan.



- According to MDS scale we observe that GDPpercapita of India and Myanmar is same but the actual fact is India has a huge population than Myanmar and income rate of India is much higher than Myanmar, still having the same average GDPpercapita is a good sign for a country like Myanmar.
- Looking at the 2 countries Botswana and Vietnam. Botswana has an average GDPpercapita of 2,194 and Vietnam has 6,107. I analyze that Vietnam has far more better average GDPpercapita than Botswana but they are still plotted on the MDS scale besides eachother. This concludes that Botswana has some factors other than GDPpercapita to be plotted next to Vietnam.



- We can see that Yemen republic and Bahrain are 2 Asian countries which has same average GDPpercapita but on the MDS scale they lie poles apart, like Yemen republic lies on the 2nd quadrant and Bahrain lies in the 4th quadrant.

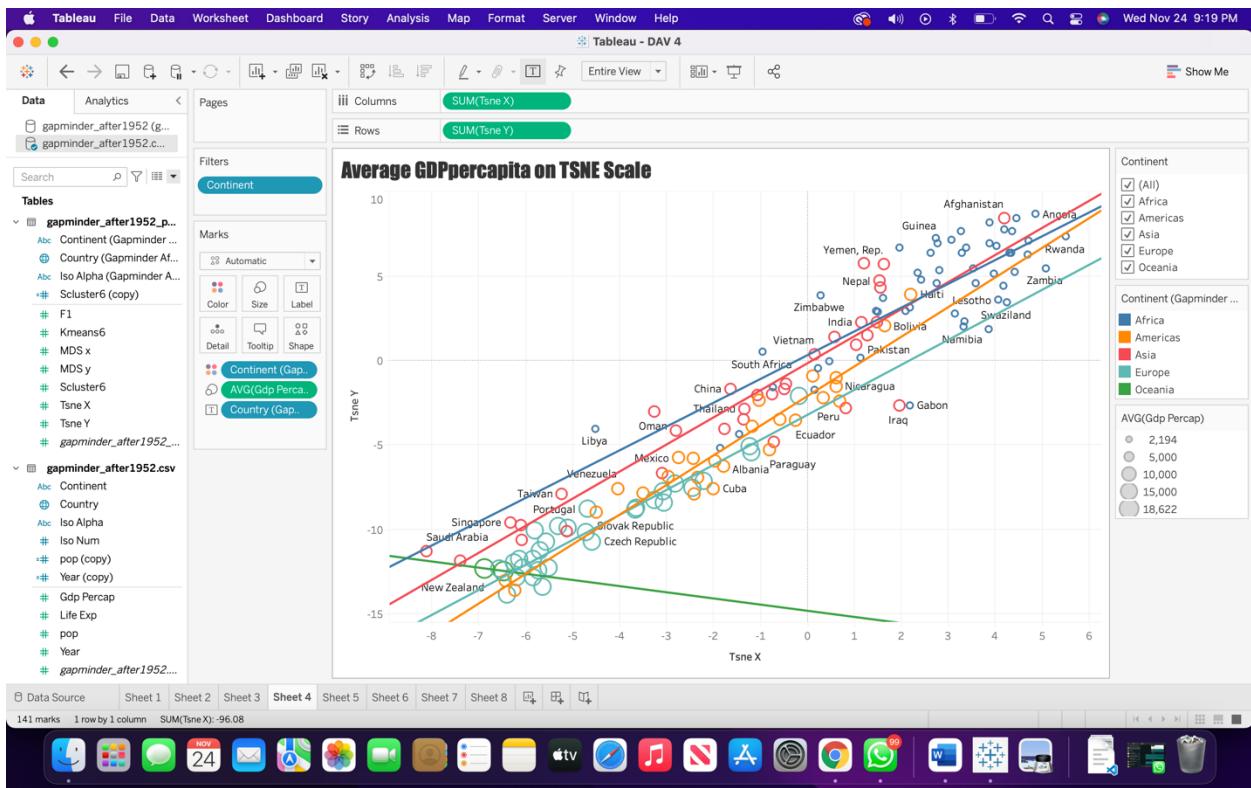
Sheet 4:

- According to the chart, we see the trend lines of all the TSNE plotted countries, colour arranged on the basis of continent and used trend lines to see which continent has better trend line for sum of GDPpercapita. We analyzed that Asia has the trend line going up than other continents. If we try to make a list then:

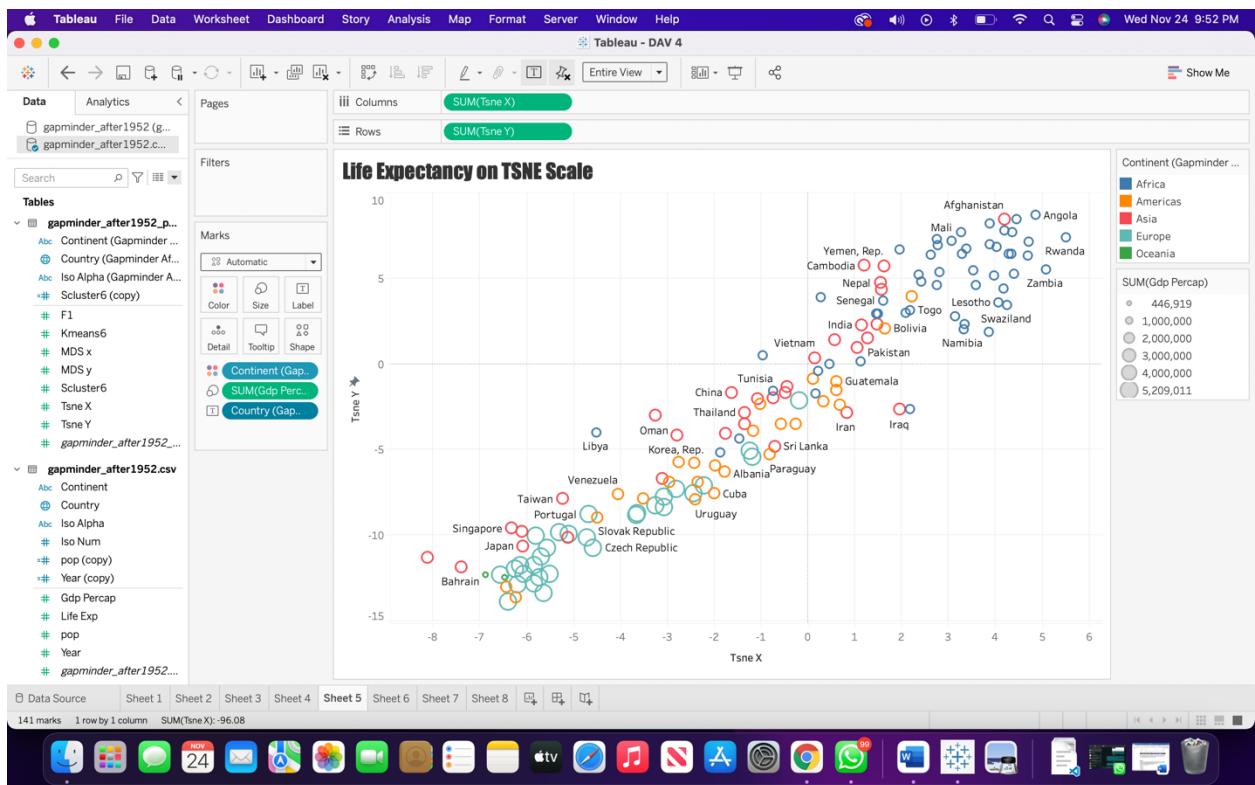
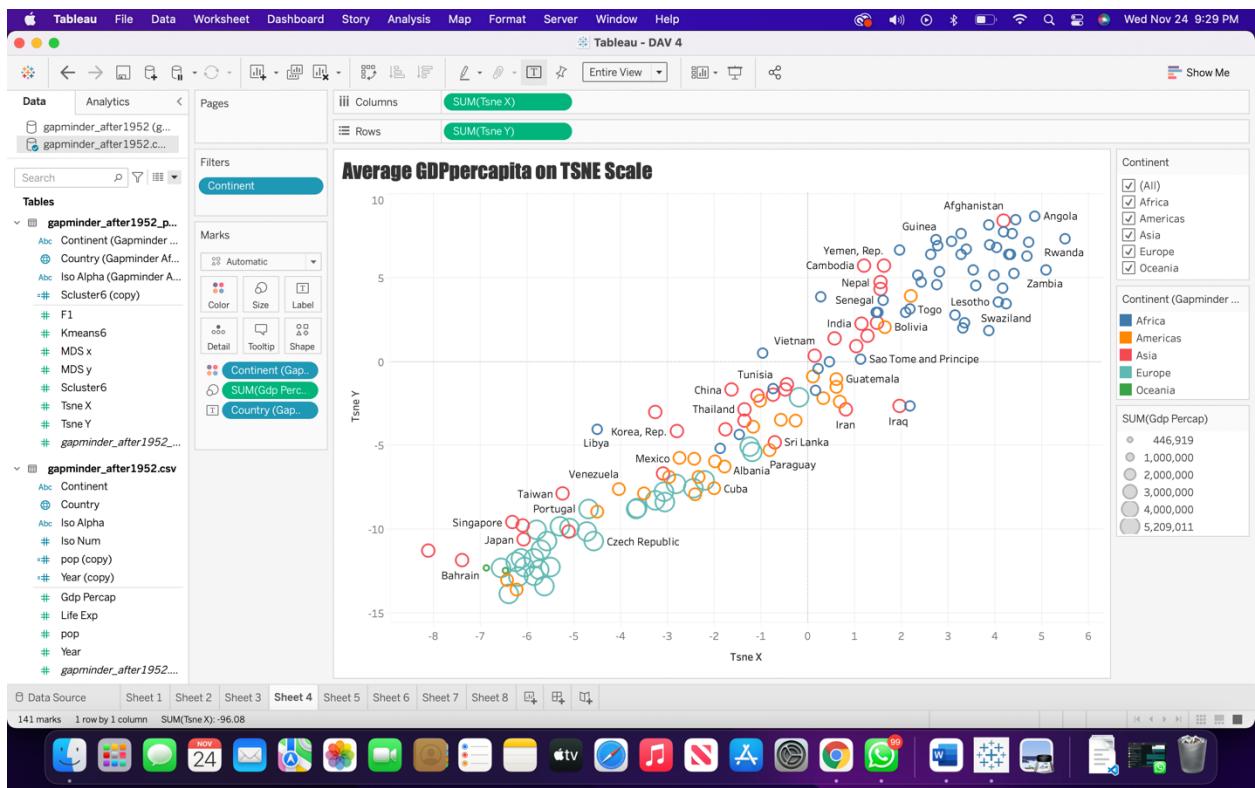
The following is the ranking:

- 1) Asia
- 2) Africa
- 3) America's
- 4) Europe
- 5) Oceania

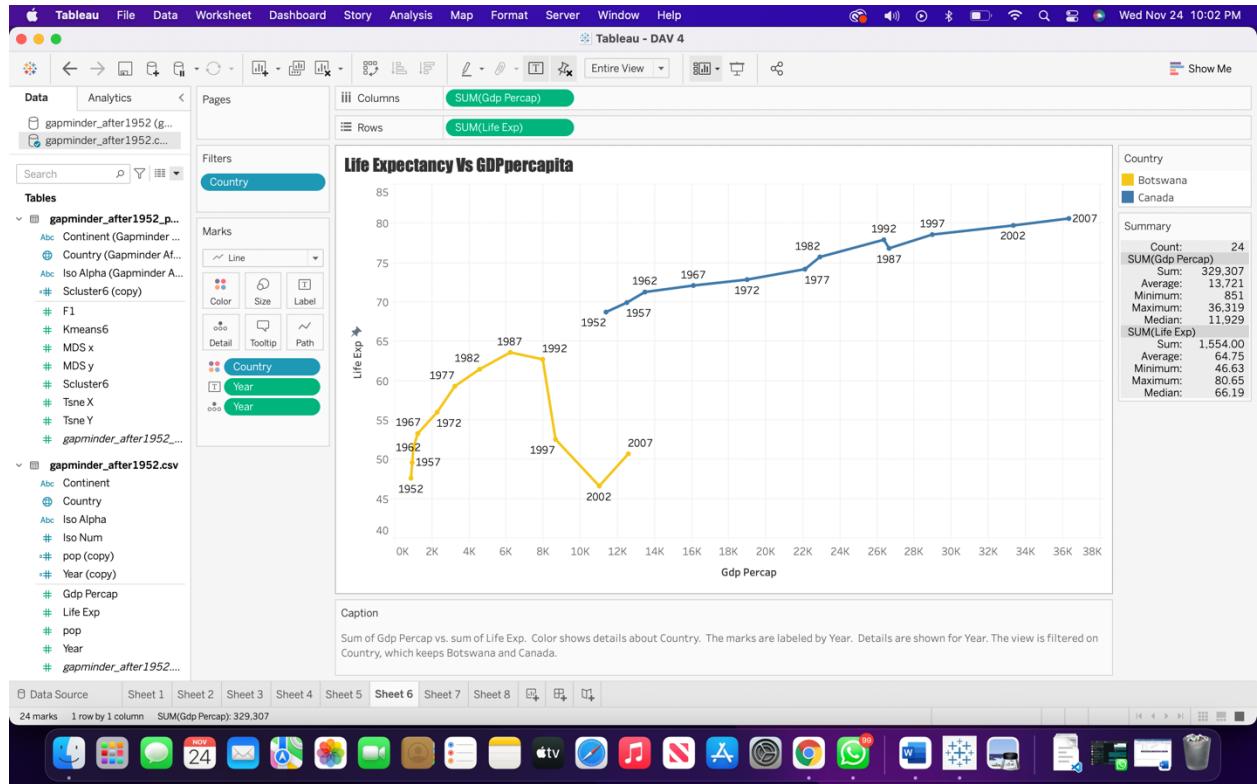
We see that the trend line of Oceania is going down rather than going up like other countries.



- We can see that Afghanistan is the only Asian country which lies at the top of the chart besides African countries in the 1st quadrant of the TSNE scale. Angola has less average GDPpercapita than Afghanistan still it is above.
- We see 2 countries from different continents but plotted very closely to each other on the TSNE scale. Iraq and Gabon. Iraq is an Asian country with average GDPpercapita of 6,107 and Gabon is an African country with average GDPpercapita of 2,194. It implies that on TSNE scale although they both have a huge GDPpercapita difference they are plotted next to eachother ,which means their TSNE plot points are very similar.
- We observe that African countries are mostly plotted in the 1st positive quadrant of TSNE scale and has very good factor than other countries from different continents.



Sheet 5:



- We observe that Botswana has a sharp decrease in life expectancy from 1992 to 1997 and from 1997 to 2002. While the GDPpercapita has increased every interval.
- The graph of Botswana is increasing from 1952 till 1992 and there is a steep decline.
- The GDP graph for both the countries is increasing and more increasing for Canada. The growth it has shown from 1952 to 2007 is phenomenal.
- According to the graph we can see that the life expectancy of Canada in 1952 is nearly 68 whereas Botswana has a life expectancy of 48. We see a huge difference in the quality of life in both the countries. The Life expectancy has increased for Canada since 1952 linearly.
- The GDPpercapita for Canada increased with a rapid growth from 1952 but the life expectancy decreased by a bit from 1987 to 1992