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Final Project

The data which I have chosen is the life expectancy data which has been collected under the repository of the World Health Organization. This data set has been downloaded from Kaggle.

This data set is related to the health factors for 193 countries in the world, this data only shows the critical factors which had a large effect on the life expectancy, and it is the observation of the trends for the past 15 years.

The original data had 193 countries for analysis and after cleaning, that number has decreased to 152. The original data also had 21 other factors but after cleaning those factors that number has reduced to 5.

The final data has data sets related to life expectancy of people in the country, the names of the countries, the status of those countries i.e., whether the country is a developing of a developed country, it also has the alcohol consumption and finally the percentage expenditure and GDP of the countries.

The below attached link is the data set which I have cleaned:

[Life expectancy.xlsx](https://myunt-my.sharepoint.com/:x:/r/personal/saikaushikkollepalli_my_unt_edu/Documents/Life%20expectancy.xlsx?d=w17f3e6d633294e5ca7d9c166d955fcda&csf=1&web=1&e=eDg3x7)

This link attached is the original data from WHO which I have picked from Kaggle:

[Original Data.xlsx](https://myunt-my.sharepoint.com/:x:/g/personal/saikaushikkollepalli_my_unt_edu/EYAN75cXaVlGlSzL9jw3KREBMNwhEmmHfWCWWDA7shYP6w?email=Vess.Johnson%40unt.edu&e=2azTrv)

This is the Kaggle link to the data set which I have used: <https://www.kaggle.com/datasets/kumarajarshi/life-expectancy-who>

What I am planning to find out with the data:

I would want to find out more on how these factors can affect the life expectancy of the people from different countries and whether these factors play a role in how much a person is expected to live for.

I would also like to find out about how the status of the country can affect alcohol consumption, the GDP, life expectancy and the percentage expenditure of a country and how they are related.

Findings:

The first Sheet shows the comparison of the consumption of alcohol with respect to the status of the country. The findings were that the average consumption of alcohol is higher in developed countries rather than in developing countries. The consumption is 9.8 in developed and it is 3.3 in developing which means that people in developed countries drank 3 times than the people in developing countries. There might be various reasons for this to happen and the most common reason is because of the stress and pressure which people have while working in developed countries.

The second sheet shows the average GDP of a country depending on the status of it.

From the visualization we can infer that a developed country has a higher average GDP that a developing country. The average GDP of a developed country is almost 7 times larger than a developing country. There is dependance of the GDP on the status of the country because developed countries have better technology and better resources.

The third visualization is the status on life expectancy visualization. This shows the average life expectancy of the people living in a country with respect to the status of the country.

We can see that people living in developed countries have higher average life expectancy than people living in developing countries by 12 years. This might be because developed countries have better medical facilities and better awareness of problems.

The fourth sheet is a visualization of the average capital expenditure of a country based on the status of that country. This visualization tells us how much of a drastic difference there is in the average percentage expenditure. A developed country spends almost 10 times more than a developing country. Since, developed countries have higher spending capacity they are just able to spend more than developing countries.

Life expectancy on country is the fifth sheet and visualization, I have taken an example of only a few countries and put that in the visualization because if I would have put all 153 countries in the visualization it would be difficult to see how the average life expectancy changes with regards to country by just looking at it. So, for simplicity purposes this has been done.

The sixth and final visualization shows the GDP of the countries which have been shown in the fifth visualization.

I have made a dashboard for the fifth and sixth visualization so that we can see how the GDP and Life expectancy are related of the countries which have been selected.

We can see that Life expectancy and GDP have no relation at all. For example, the Life Expectancy of Australia is 70.50 and for Iceland it is 79.70 and there is very little difference between the life expectancies but there is a huge difference in the GDP between these countries as Iceland’s GDP is 31813 and Australia’s is 2170.

Conclusions:

From all the visualizations which have been created using the data set we can see that developed countries have a higher value of all the factors which have been analyzed. Having a higher value of all the factors i.e., life expectancy, GDP and expenditure is a good thing for a country to become more advanced and the develop countries are in a right path to become more advanced.

Having a high alcohol consumption is a bad thing as consumption of more alcohol causes many health and psychological problems for the consumer. Regardless of the alcohol consumption of the developed country being high they have a higher average life expectancy compared to developing countries.

The reason being better medical facilities available and better living conditions or many other factors which might cause this to happen.

From the fifth and sixth visualization we can say that the GDP has no relation with the life expectancy of countries as there can be many other factors which might be the reason for the difference in the GDP like the status of the country, the population of the country, the kinds of companies and industries present in the country and many more.

In conclusion I can say that the factors which I have considered in the data set have an impact on the average life expectancy of a person, as if a person was born in a developing country, he or she would have a higher life expectancy than a one born in a developing country.