

Let's HELP

# Business Ask

The funds raised need to be used strategically and effectively on countries that are in the direst need of aid.

The goal is to identify these countries.

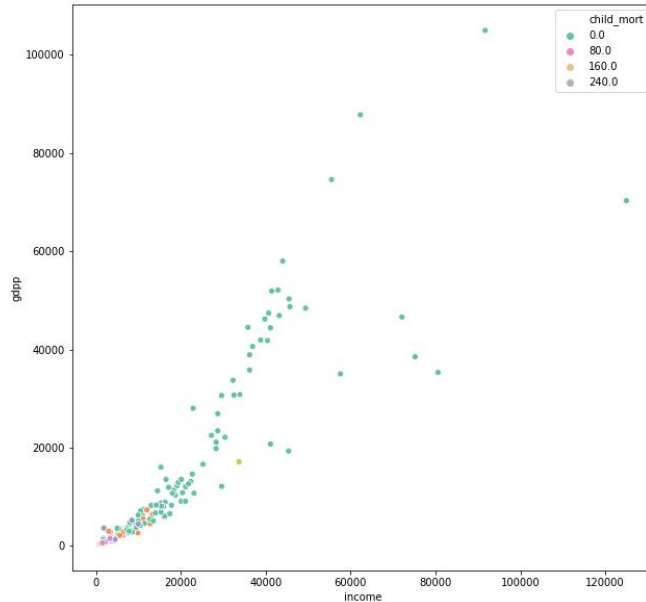
# Business Solution

Categorise the countries using some socio-economic and health factors that determine the overall development of the country.

We will have a look on the lowest 10 countries for each factor.

# Business Solution

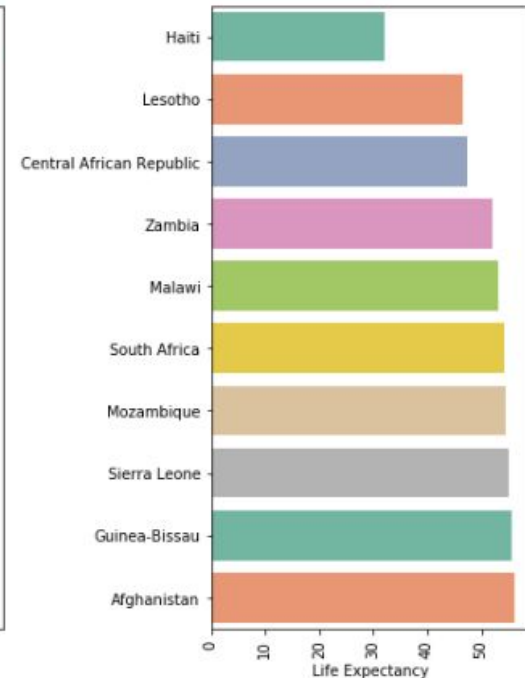
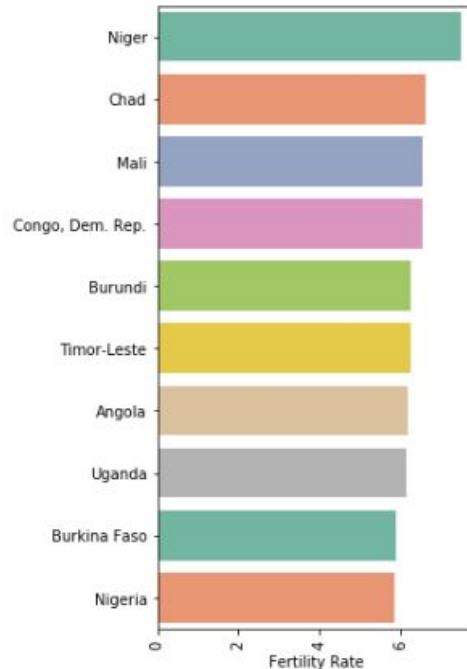
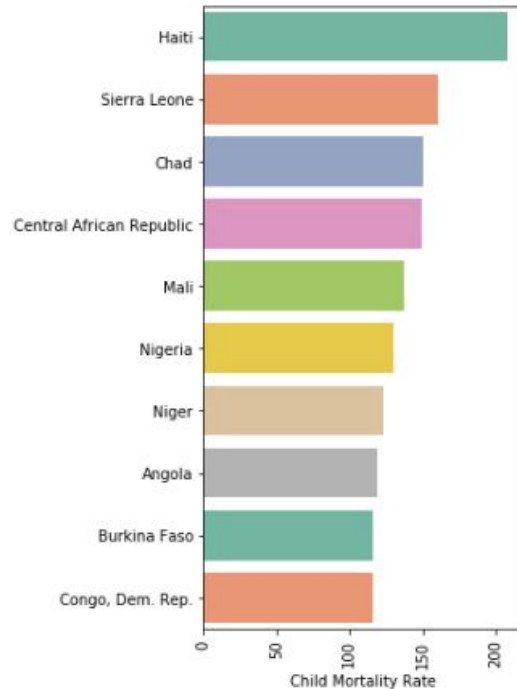
We see the relationship between GDP, income, and child mortality rate.



It's evident that child mortality rate is high in countries with low GDP and income. These are going to be the countries that need help.

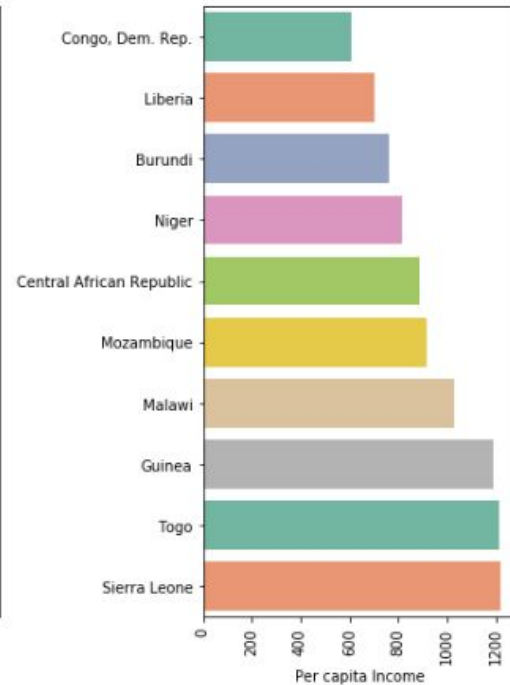
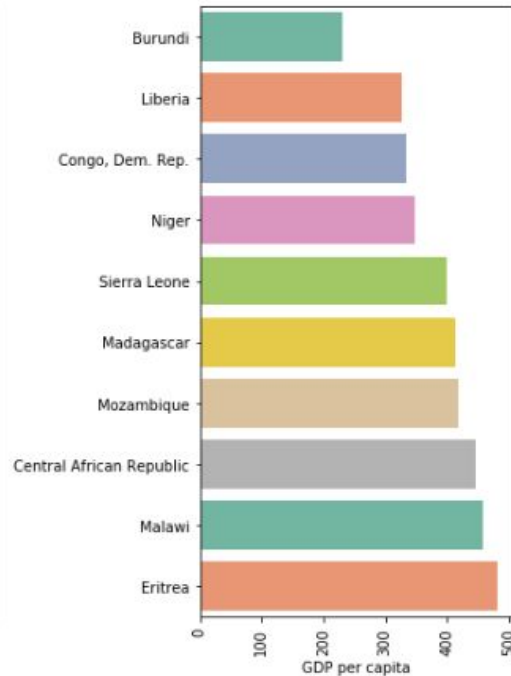
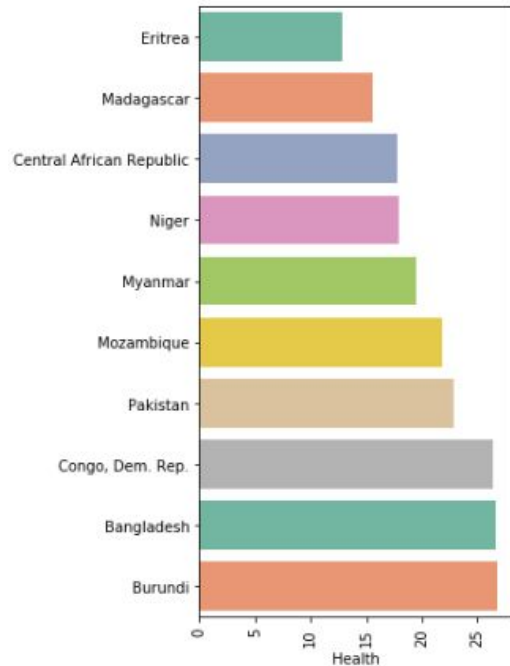
# Business Solution

The lowest 10 countries with regards to child mortality rate, fertility rate, and life expectancy:



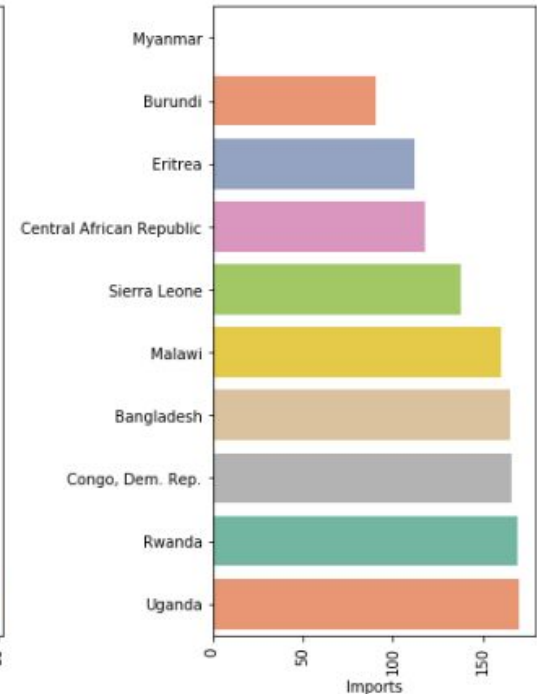
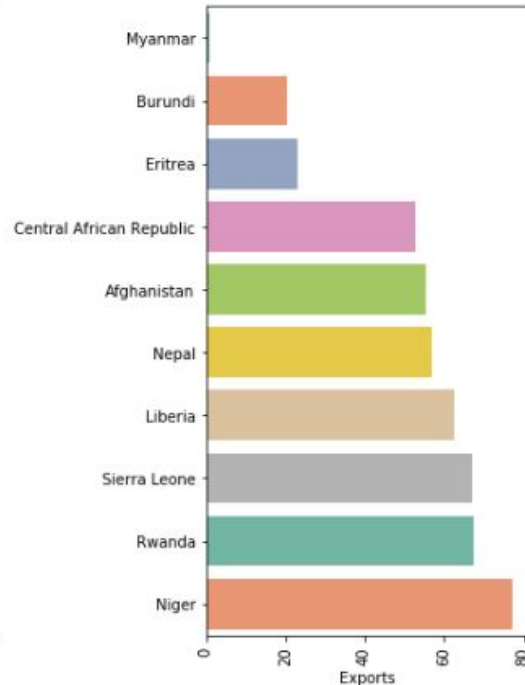
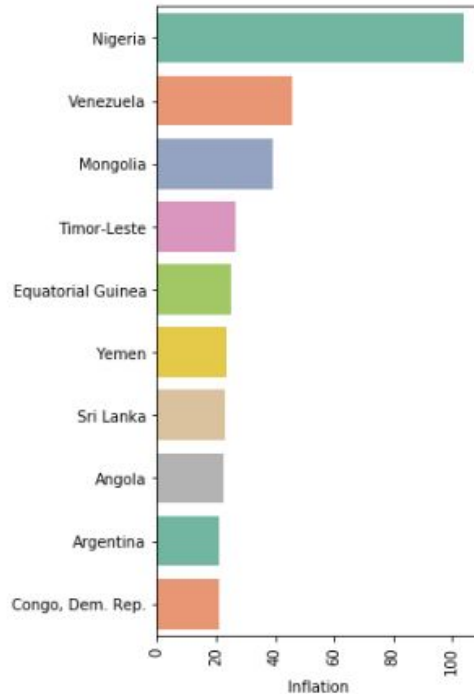
# Business Solution

The lowest 10 countries with regards to health, GDPP, and income



# Business Solution

The lowest 10 countries with regards to inflation, exports, and imports:



# Business Solution

We'll use these countries to form clusters based on the socio-economic factors.

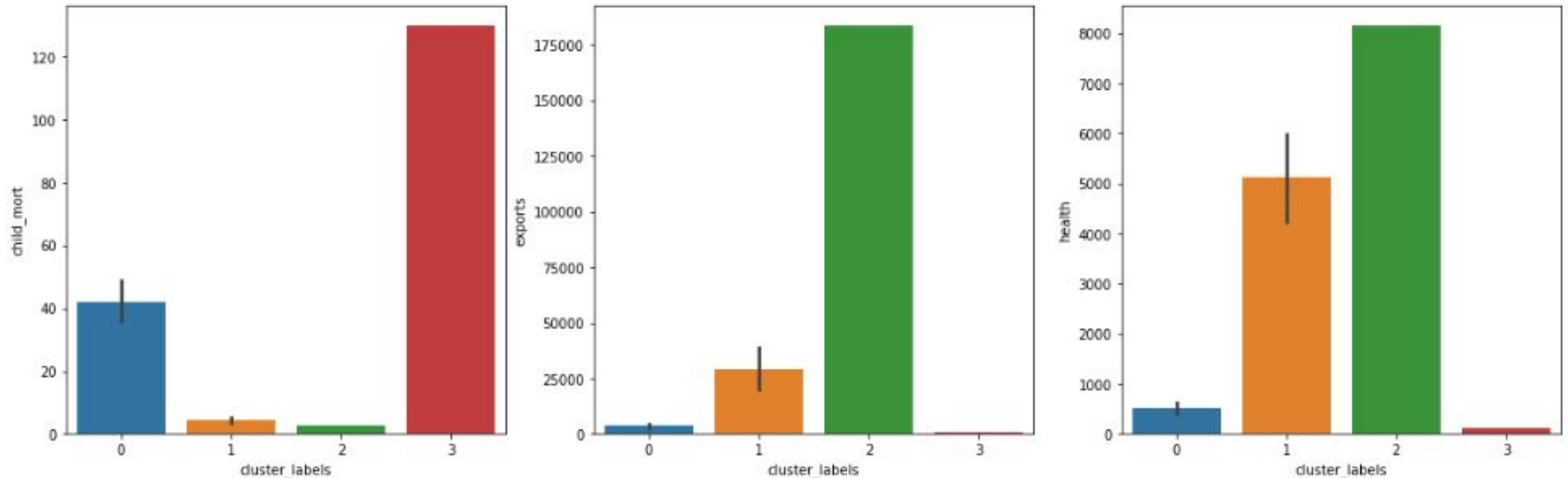
The countries with maximum similarities and differences will form a cluster.

We'll identify these clusters and choose the countries that require monetary assistance.



# Business Solution

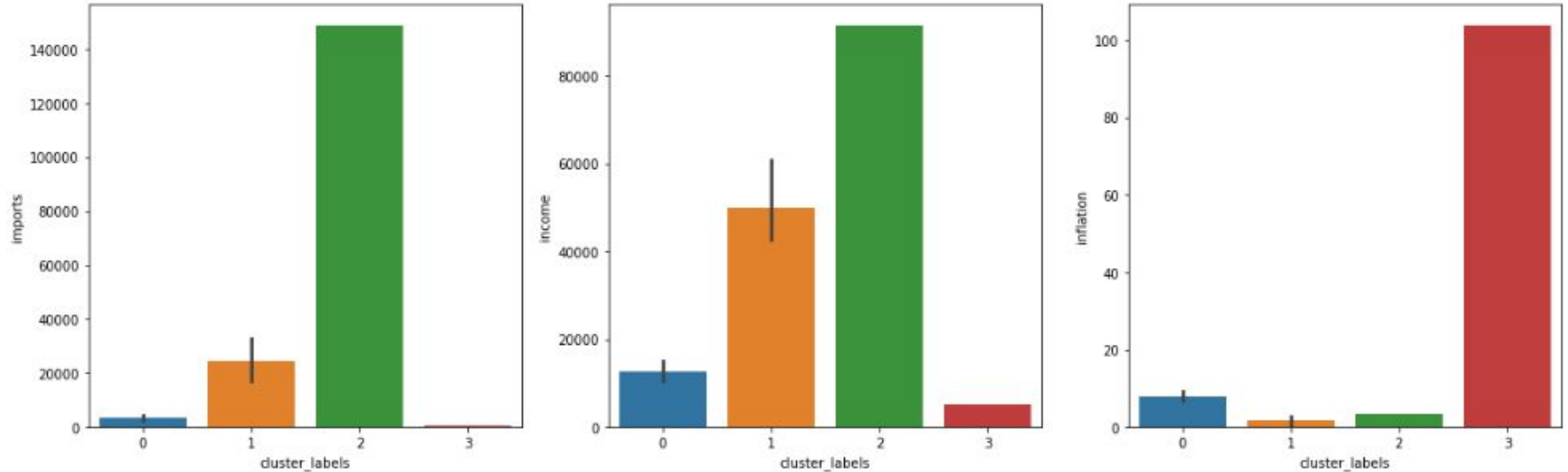
Clusters based on child mortality, exports, and health.



The fourth cluster, `cluster_labels=3`, signifies the countries with high child mortality rate, less exports, less health spending per capita.

# Business Solution

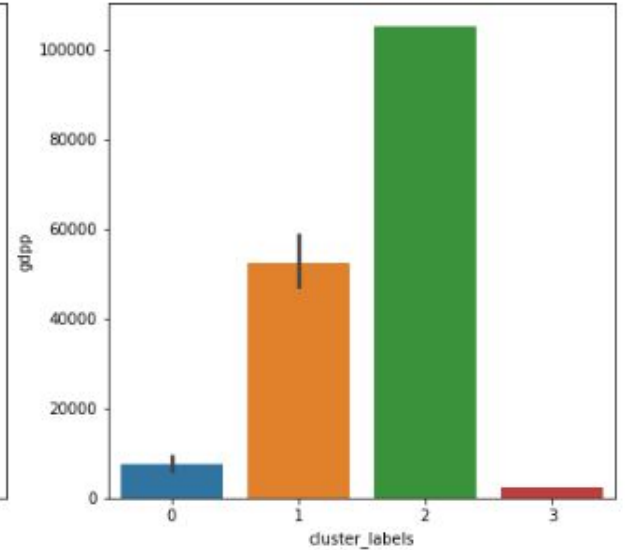
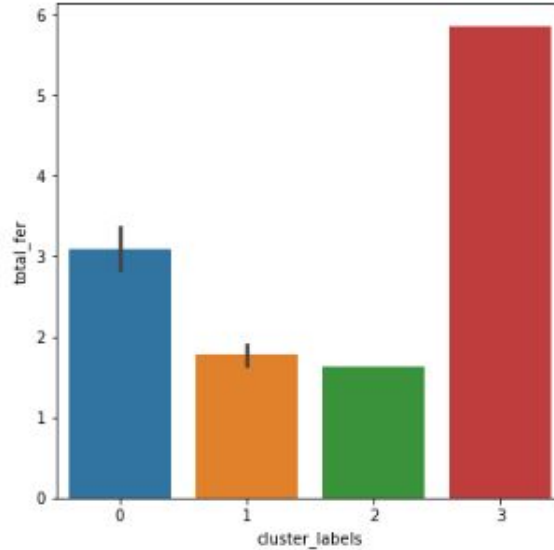
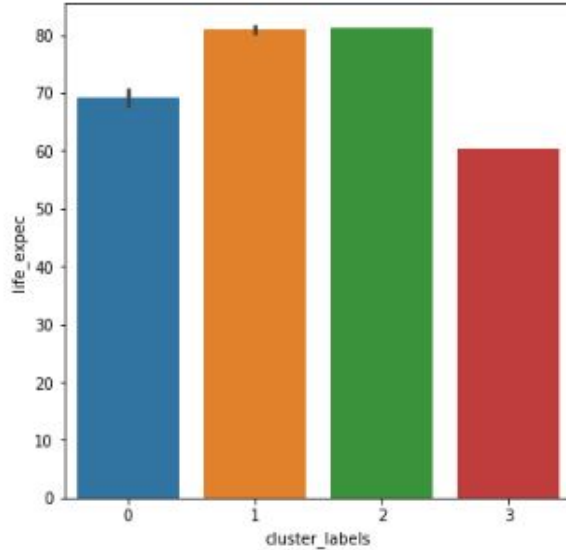
Clusters based on imports, income, and inflation.



Even in this case, the fourth cluster, `cluster_labels=3`, signifies the countries with low imports per capita, low income, but high inflation rate.

# Business Solution

Clusters based on life expectancy, total fertility, and GDPP.



Same story here, the fourth cluster, `cluster_labels=3`, signifies the countries with low life expectancy, high fertility rate, but low GDPP.

# Business Result

Based on cluster profiling, the top 10 countries that require monetary assistance are as follows:

1. Burundi
2. Liberia
3. Democratic Republic of the Congo
4. Niger
5. Sierra Leone
6. Madagascar
7. Mozambique
8. Central African Republic
9. Malawi
10. Eritrea