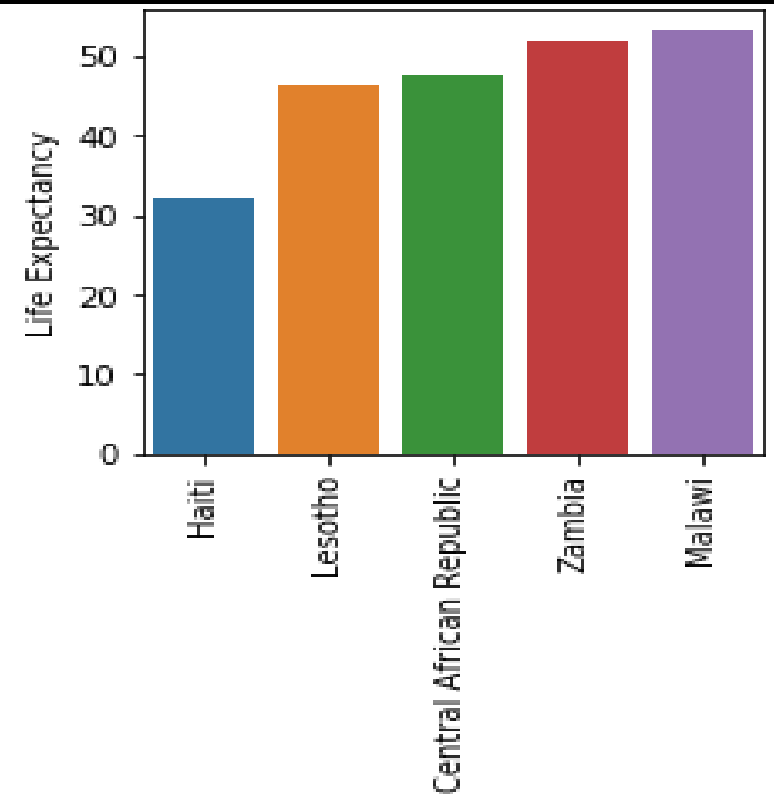
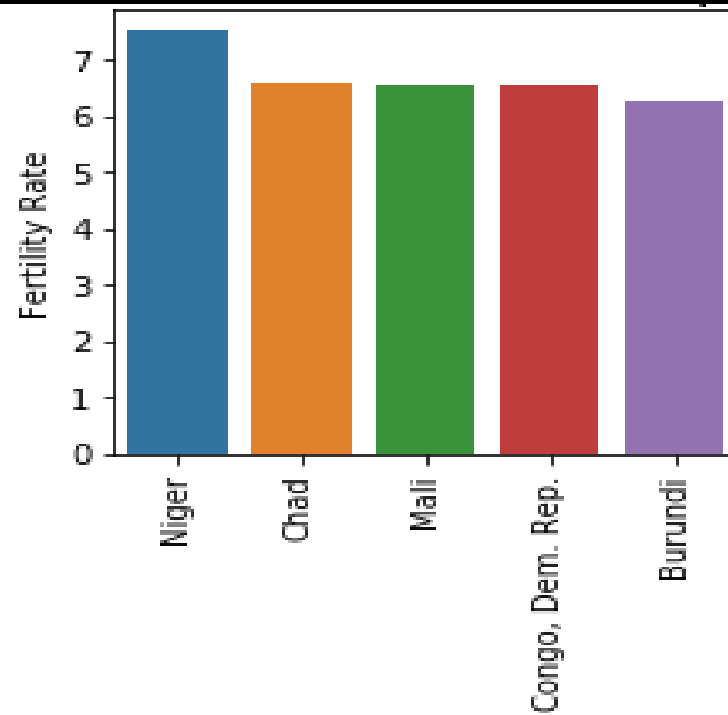
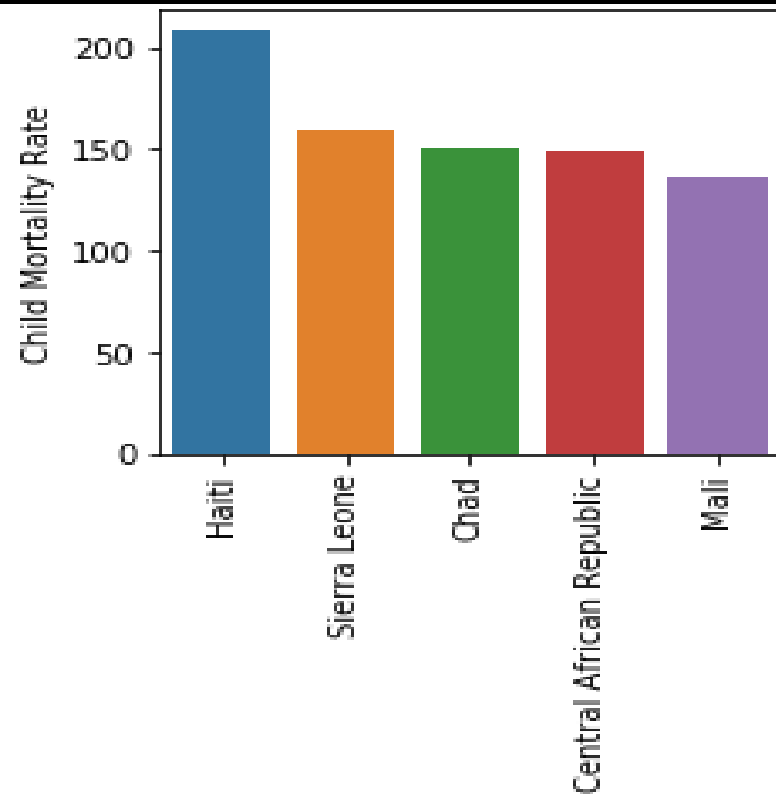


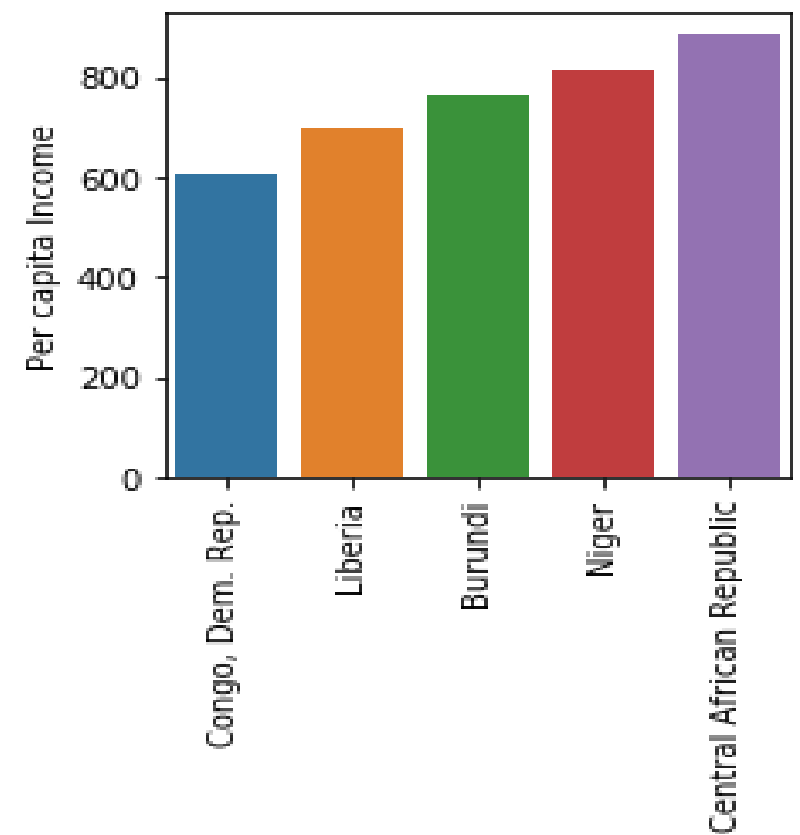
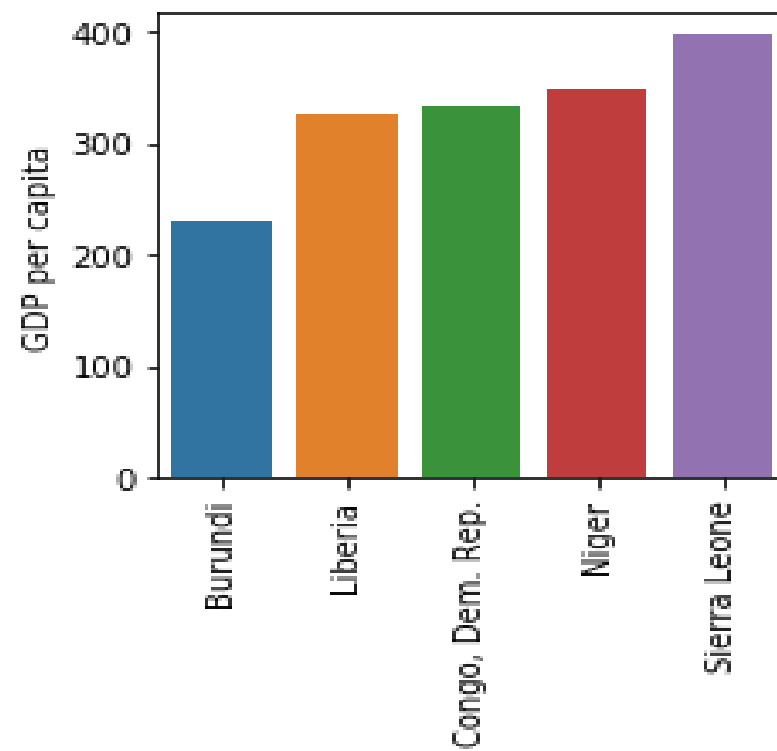
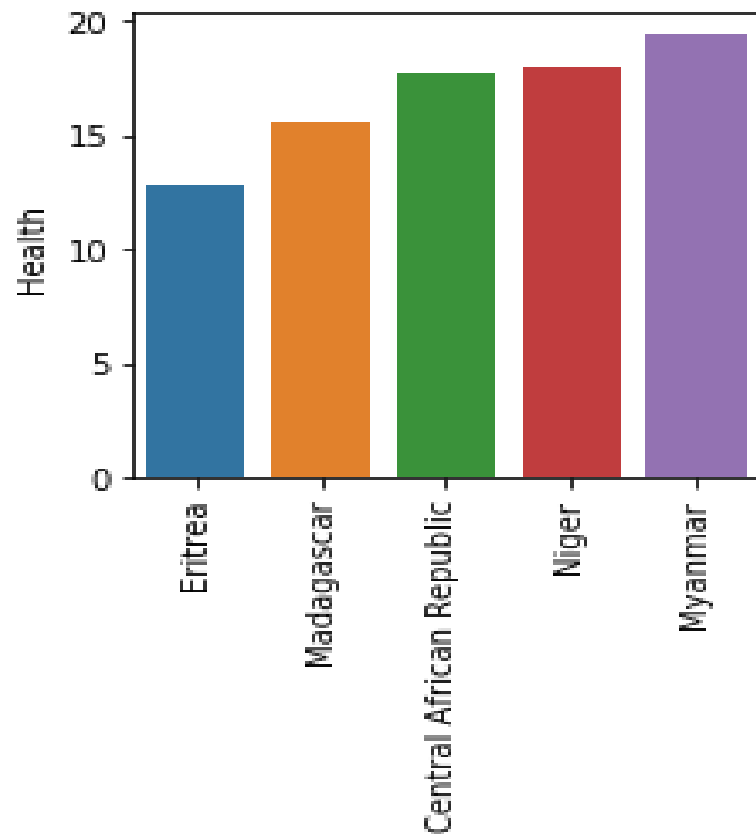


# PCA & CLUSTERING ASSIGNMENT

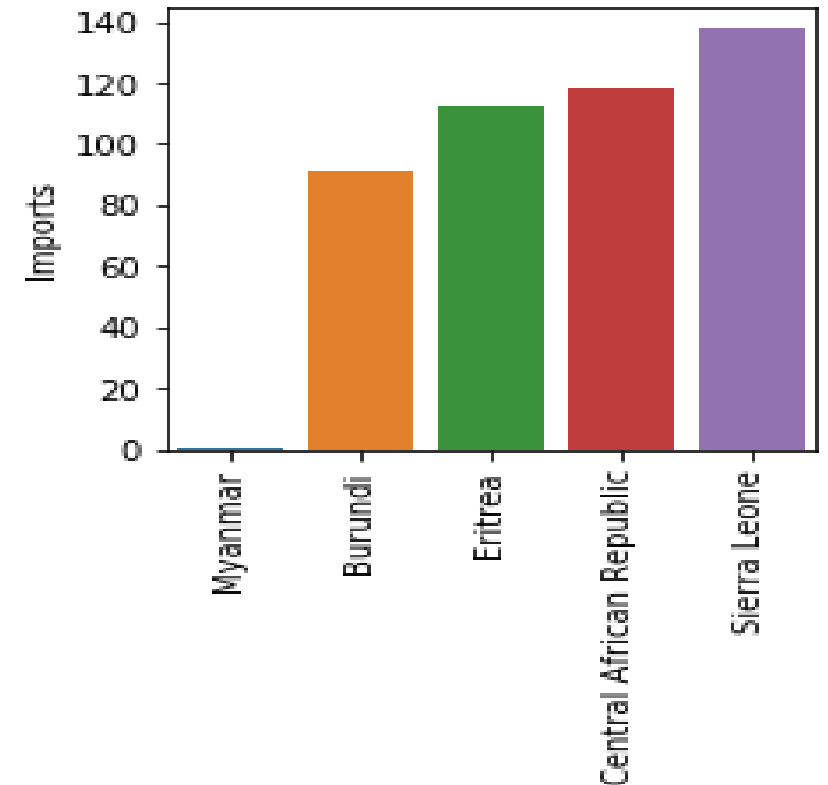
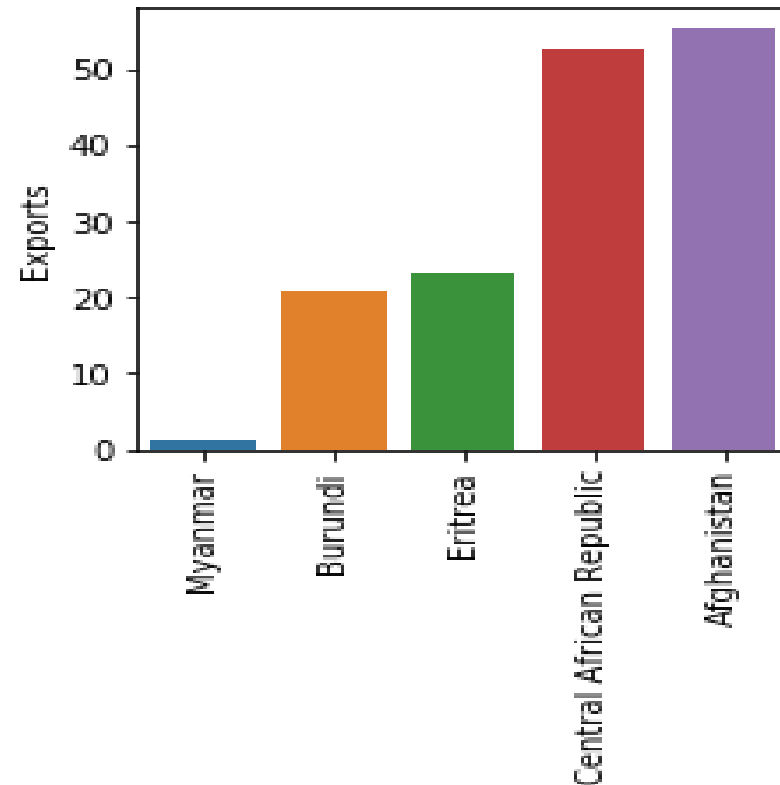
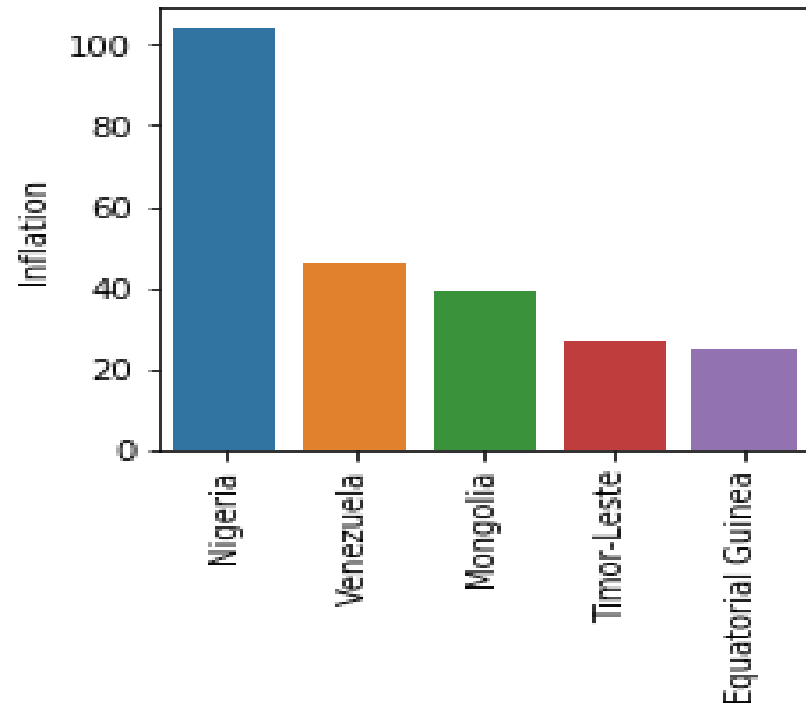
Following are the countries which have high CHILD MORTALITY RATE, FERTILITY RATE and LIFE EXPECTANCY



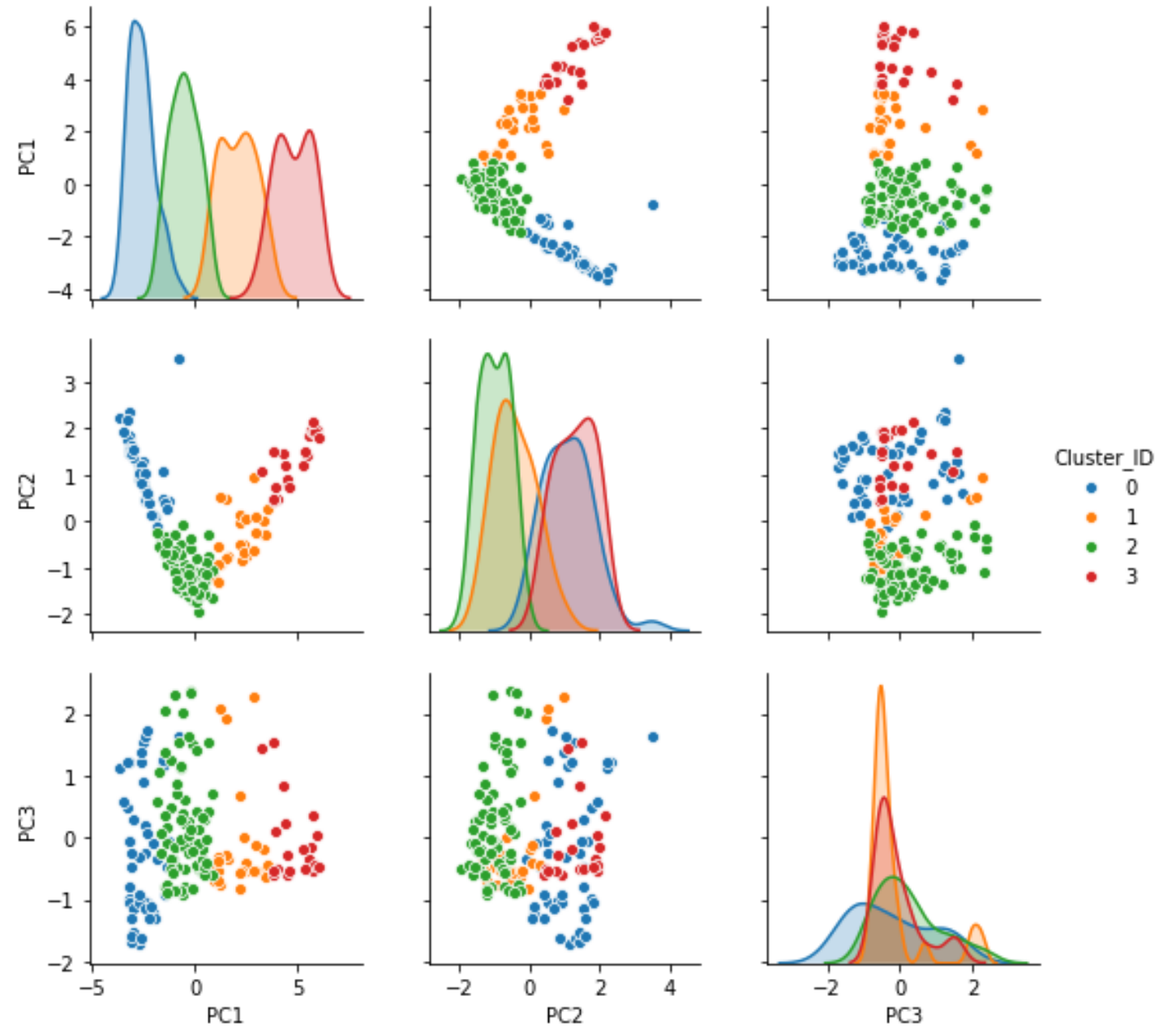
Following are the least or bottom countries in HEALTH, INCOME and GDP aspects.

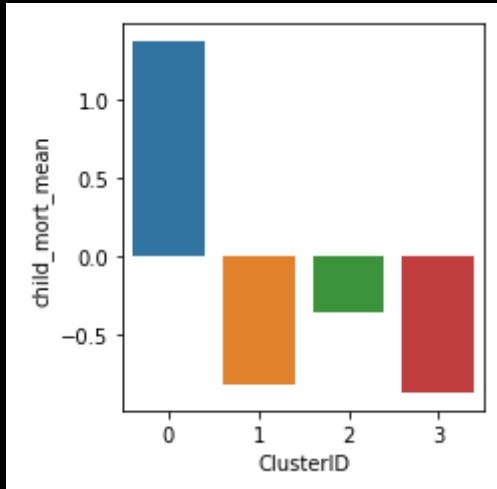


- Inflation shows top 5 countries in that aspect
- Imports and exports shows the bottom or least countries from their aspects.

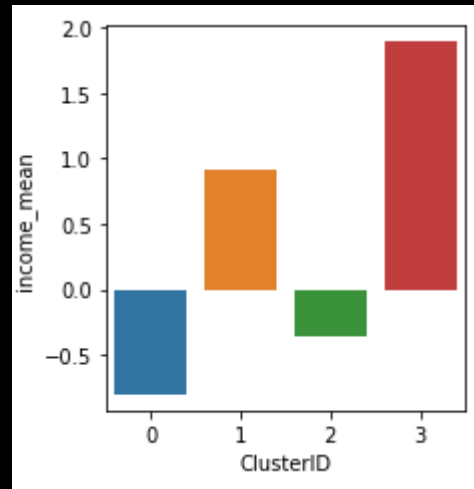


The scatter plots in the fig. shows the behavior of all the clusters with respect to the other clusters

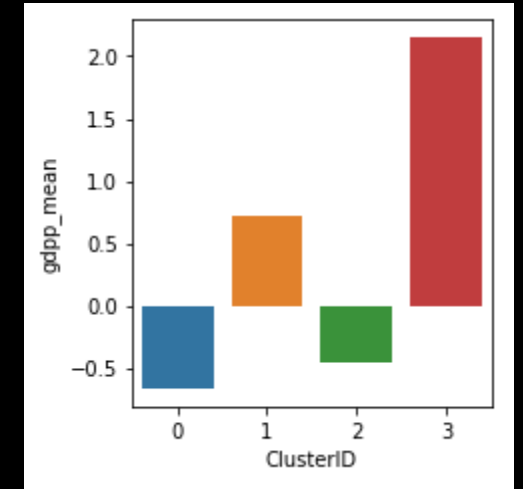




- Cluster '0' have the highest and cluster '3' have the lowest child mortality rates

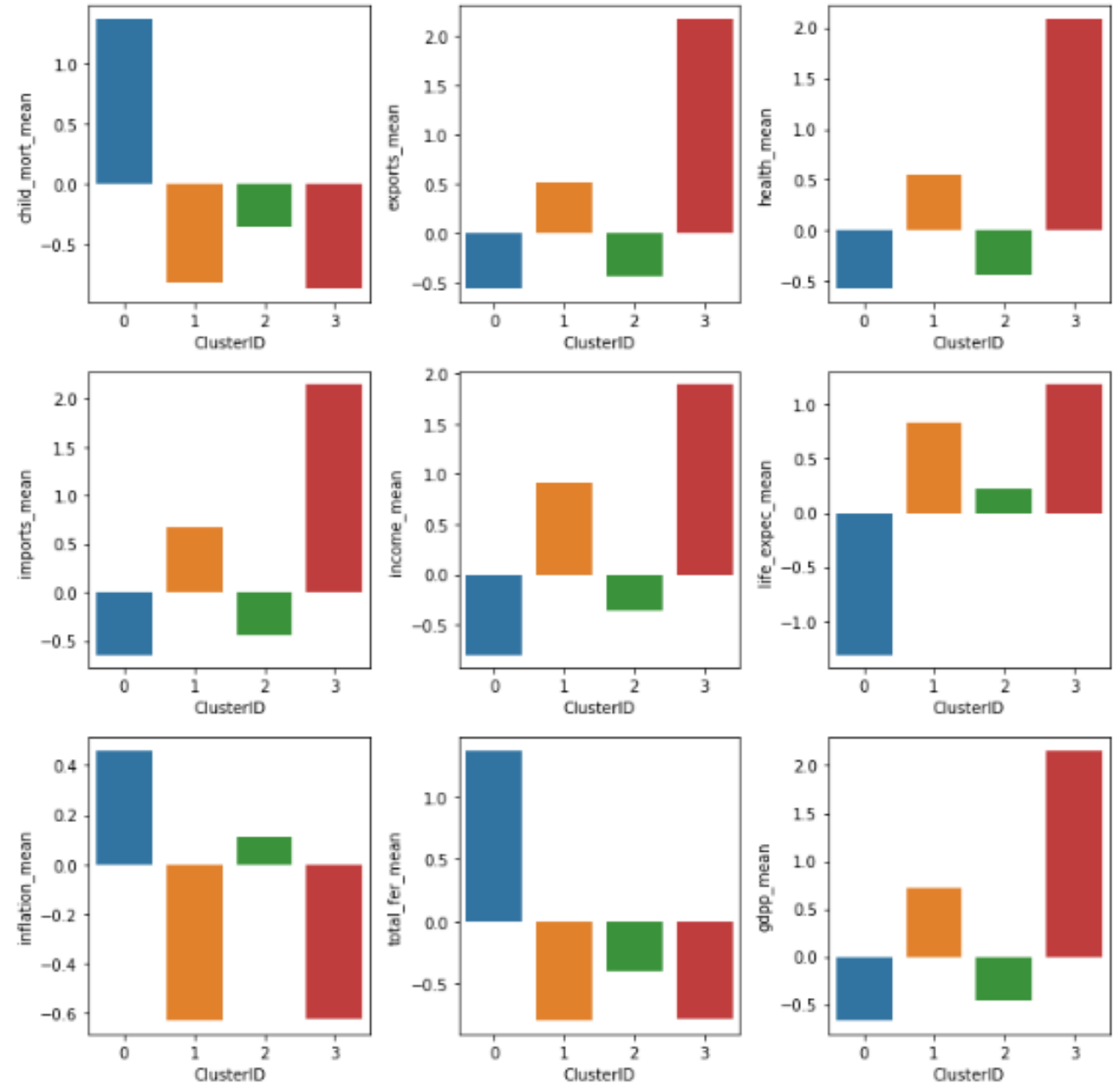


- Cluster '0' has the lowest and cluster '3' have the highest income mean



- Cluster '0' have the lowest and cluster '3' have the highest GDP mean

The fig. shows the overall Means of each aspect with respect to every cluster





*Following are the countries obtained by  
K-means clustering which requires support  
from the NGO*

**'Afghanistan', 'Angola', 'Benin', 'Botswana', 'Burkina Faso', 'Burundi', 'Cameroon',  
'Central African Republic', 'Chad', 'Comoros', 'Congo, Dem. Rep.', 'Congo, Rep.',  
"Cote d'Ivoire"  
'Equatorial Guinea', 'Eritrea', 'Gabon', 'Gambia', 'Ghana', 'Guinea', 'Guinea-Bissau',  
'Haiti', 'Iraq', 'Kenya', 'Kiribati', 'Lao', 'Lesotho', 'Liberia', 'Madagascar', 'Malawi',  
'Mali' 'Mauritania', 'Mozambique', 'Namibia', 'Niger', 'Nigeria', 'Pakistan', 'Rwanda',  
'Senegal', 'Sierra Leone', 'Solomon Islands', 'South Africa', 'Sudan', 'Tanzania',  
'Timor-Leste', 'Togo', 'Uganda', 'Yemen', 'Zambia'**





THANK YOU