

Covid Data Visualization (Africa)

Tool used: Tableau

To View this project in Tableau Public:

<https://public.tableau.com/app/profile/ifunanya.obananya/viz/CovidDataVisualizationAfrica/Story1>

About the Dataset

- The dataset contains covid data for continents and data breakdown for different countries in each continent. Records include covid cases, new cases and date reported, deaths, population, vaccinations and others. Data Exploration was done using SQL (Covid Project.Sql). (Data source: <https://ourworldindata.org/coronavirus>)

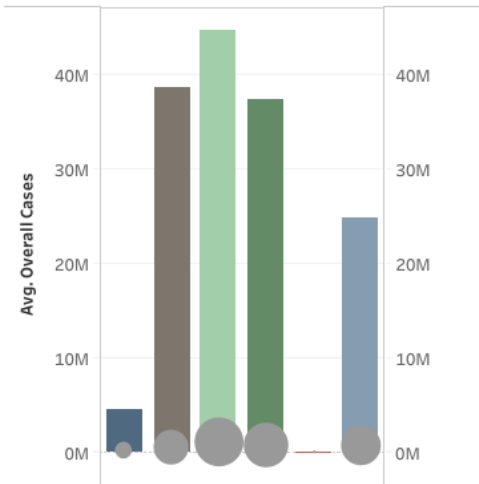
Challenge Prompt (Recommended Analysis)

- What is the total death count and overall covid cases in Africa as compared to other continents?
- Which three countries in Africa were mostly affected in terms of death count and overall cases per population?
- Identify which country has the highest vaccination count and least vaccination count relative to their overall cases.

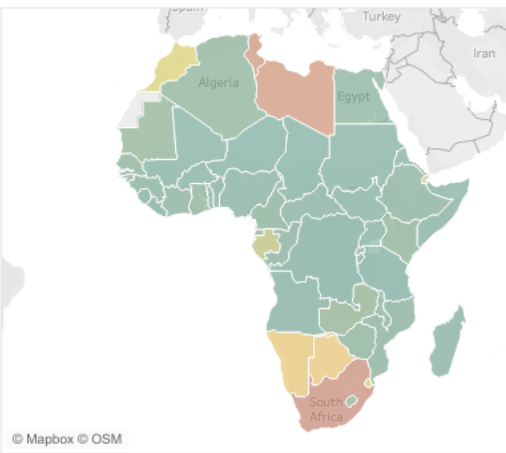
Insights

- Africa had the second least death count and number of covid cases, with Oceania having the least death count and number of covid cases, and Europe having the highest death count and number of covid cases.
- South Africa, Libya and Botswana have the highest infection and death rates.
- Cluster Analysis was done. This showed that Morocco has the highest vaccination count relative to their covid cases while South Africa has the highest covid cases but extremely low vaccination count.

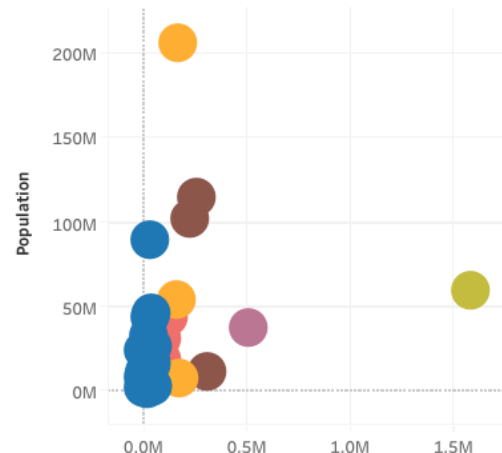
Africa VS World



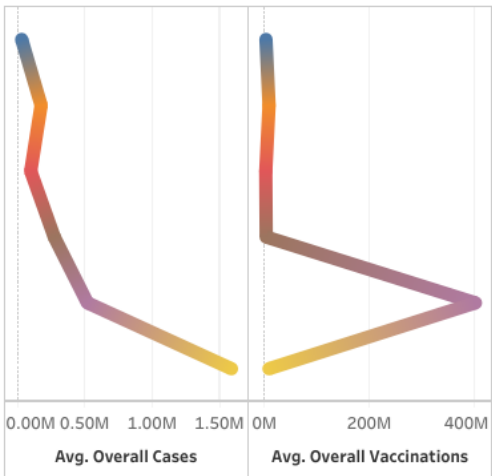
Map



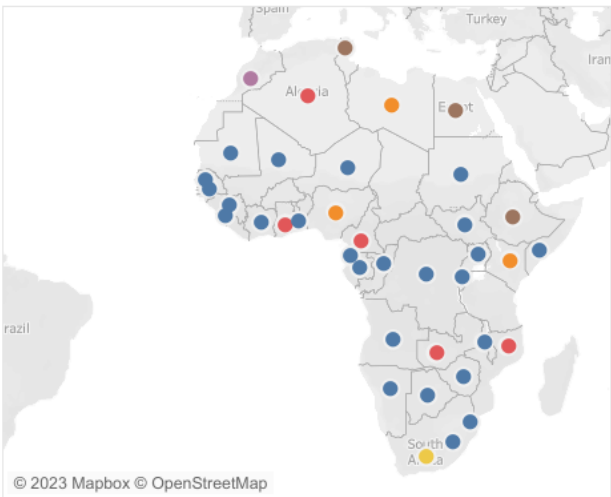
Cluster Analysis Graph



Cases & Vacc Cluster Rship



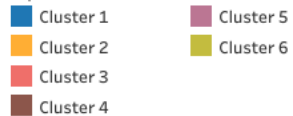
Clusters on Map



Continent



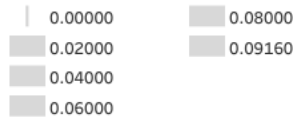
Pop Clusters



Infection Rate



Death Rate

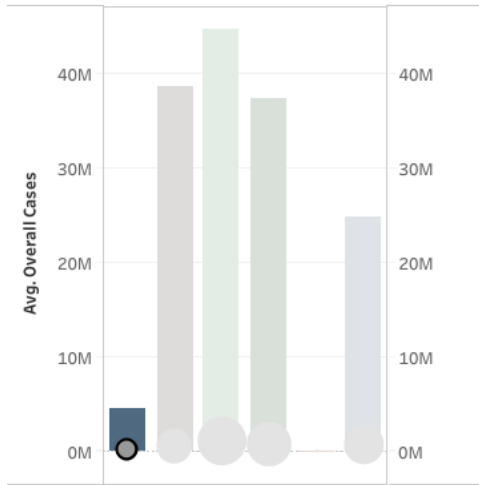


Covid Data for different countries in Africa.

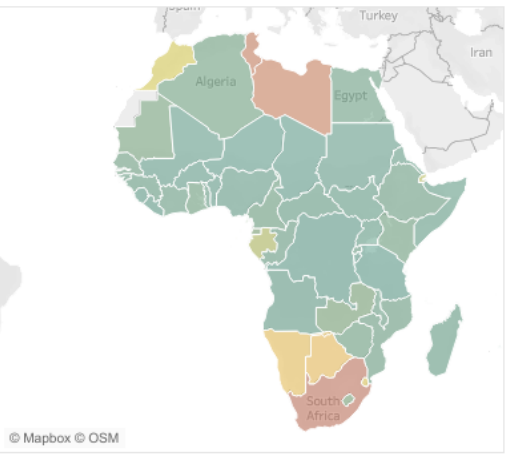
The barchart shows the Infection and Death rate of Africa as compared to other continents

The map shows infection rate across African countries with South Africa and Libya having the highest rates.

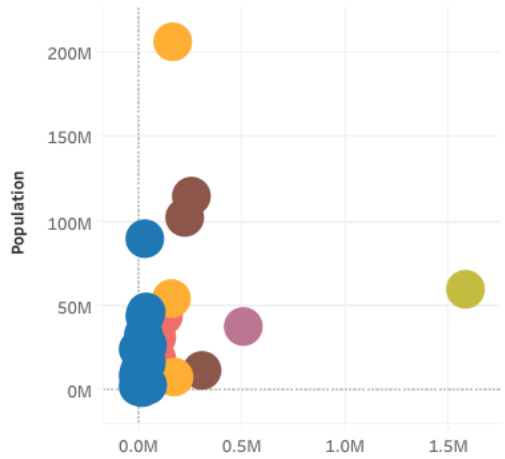
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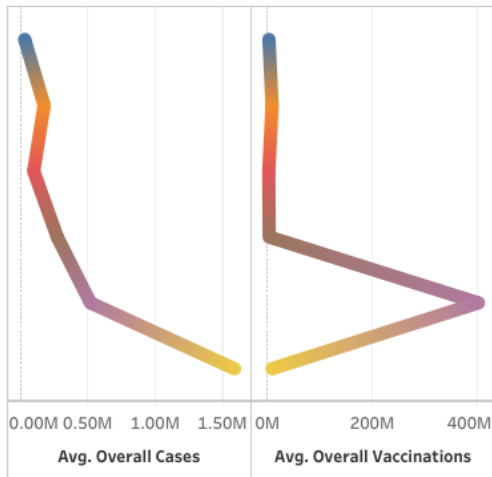
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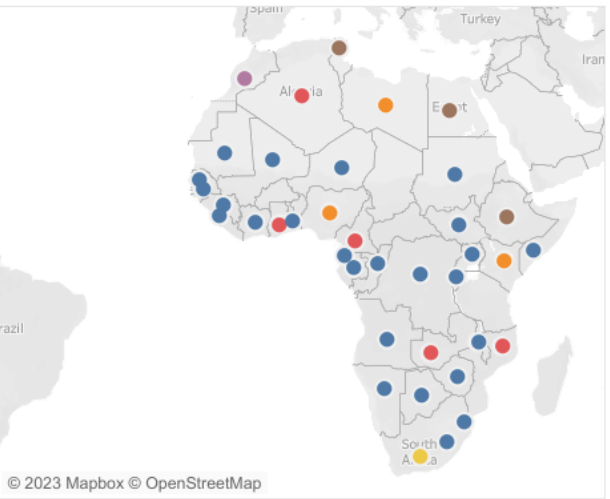
Cluster Analysis Graph



Cases & Vacc Cluster Rship



Clusters on Map



Continent

- Africa
- North America
- Asia
- Europe
- South America
- Oceania

Pop Clusters

- Cluster 1
- Cluster 2
- Cluster 3
- Cluster 4
- Cluster 5
- Cluster 6

Infection Rate

0.001 2.666

Death Rate

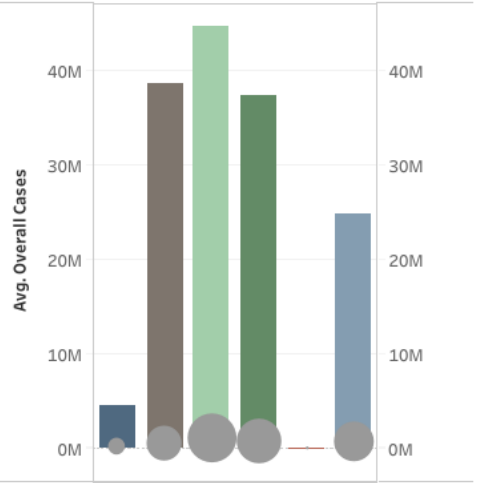
- 0.00000
- 0.02000
- 0.04000
- 0.06000
- 0.08000
- 0.09160

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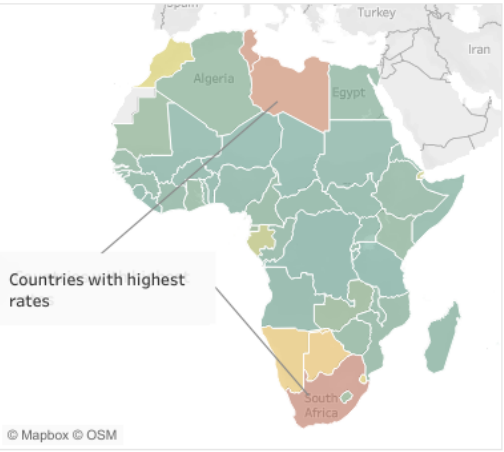
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Cluster Analysis done to ascertain if countries with high covid count corresponds to those with high vaccination count.

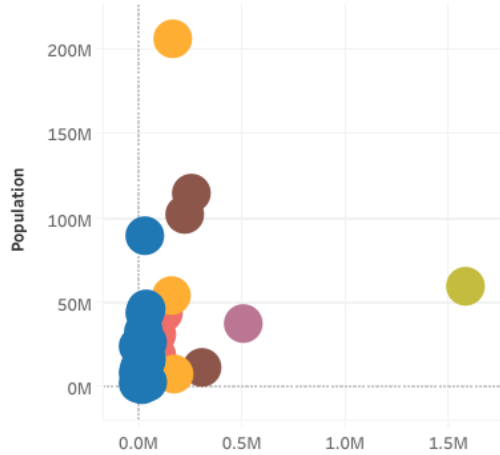
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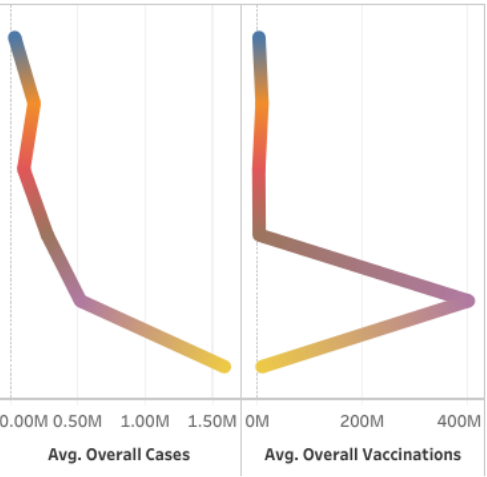
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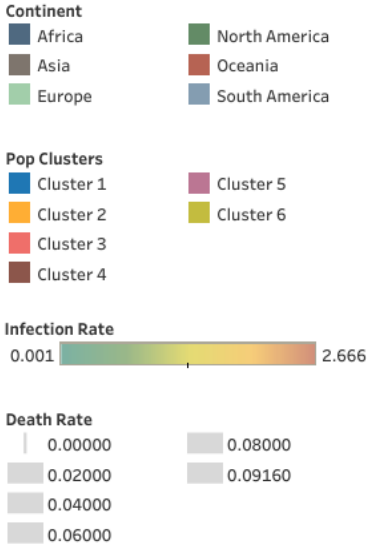
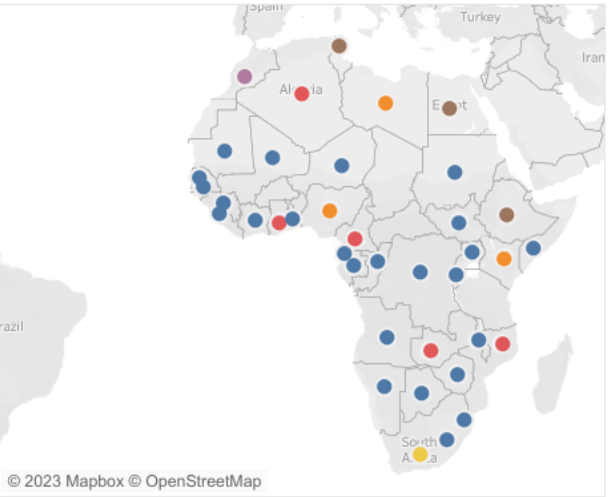
Cluster Analysis Graph



Cases & Vacc Cluster Rship



Clusters on Map

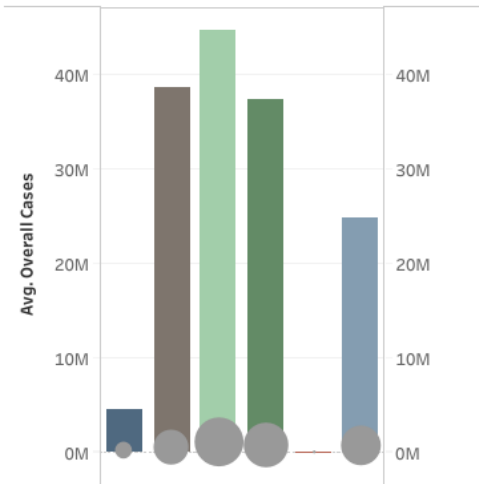


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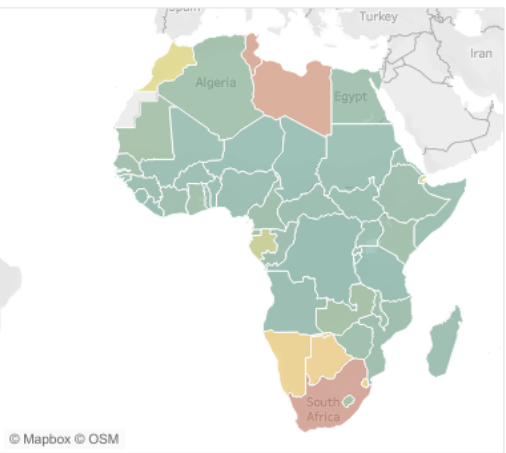
Cluster Analysis done to ascertain if countries with high covid count corresponds to those with high vaccination count.

Cluster 5 represents countries with relatively low covid cases but the highest vaccination count.

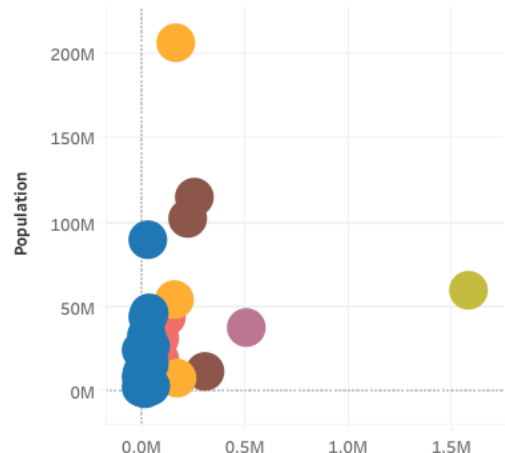
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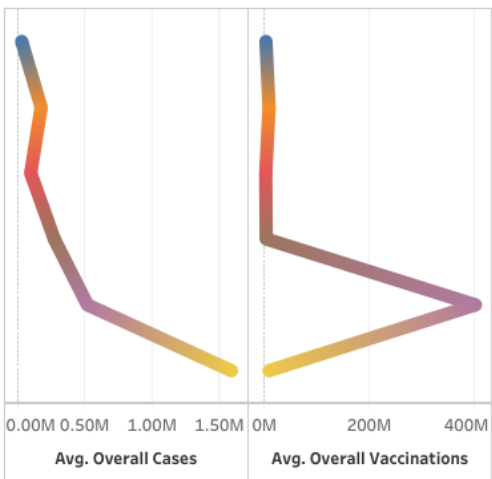
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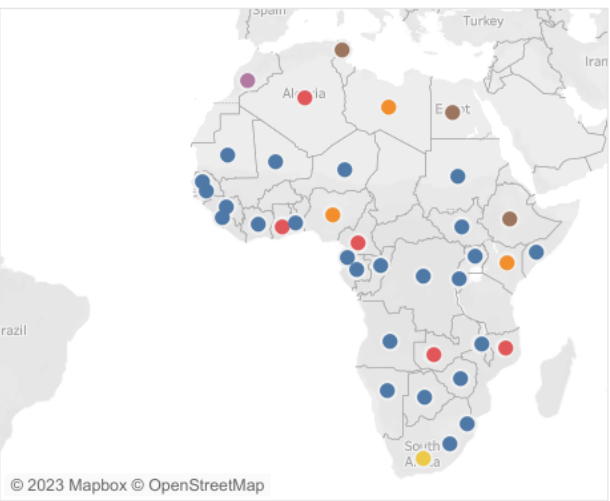
Cluster Analysis Graph



Cases & Vacc Cluster Rship



Clusters on Map



Continent



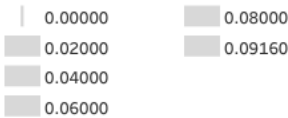
Pop Clusters



Infection Rate



Death Rate

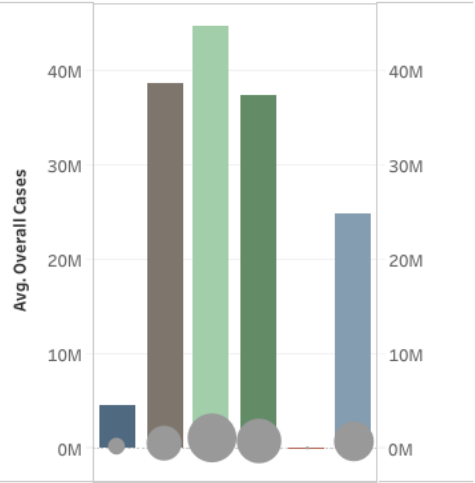


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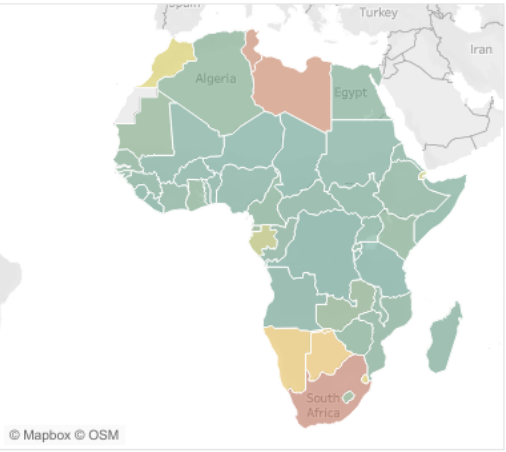
Cluster 5 represents countries with relatively low covid cases but the highest vaccination count.

Cluster 6 represents countries with extremely high covid count but relatively lower vaccination count.

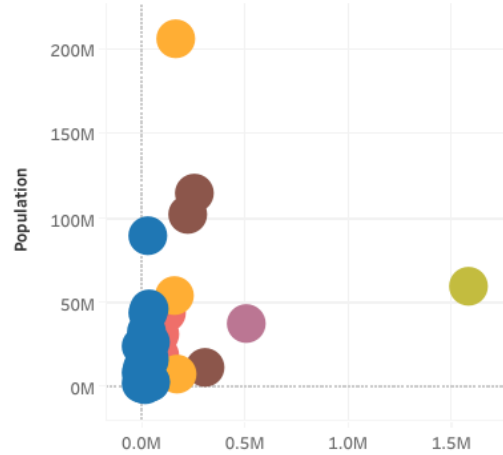
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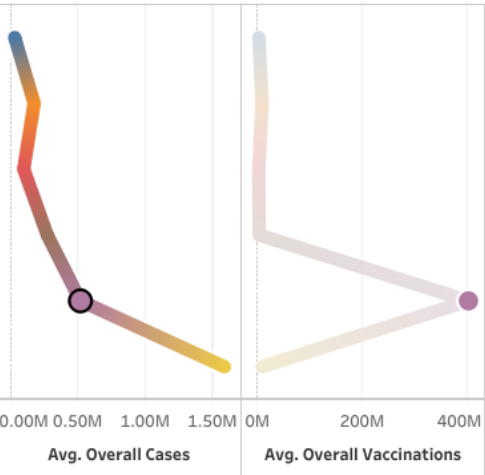
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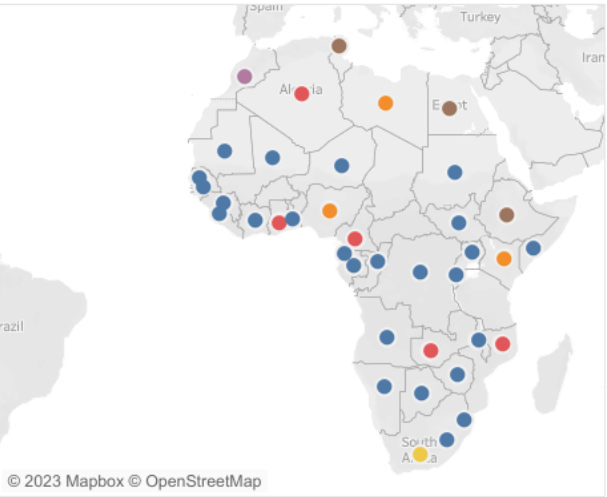
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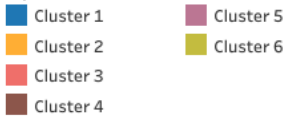
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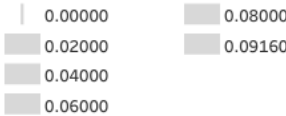
Pop Clusters



Infection Rate



Death Rate

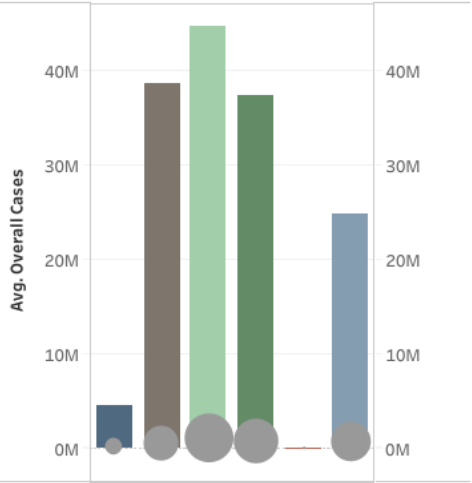


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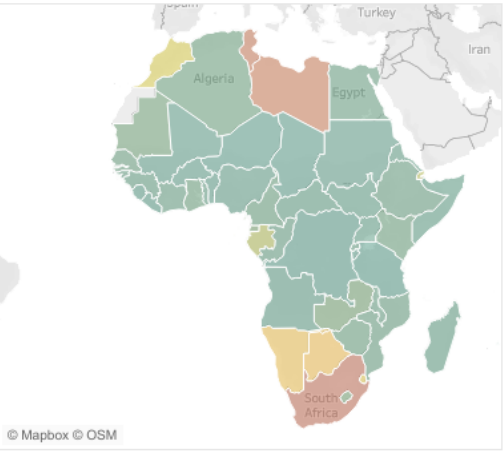
Cluster 6 represents countries with extremely high covid count but relatively lower vaccination count.

The Clusters on Map shows the cluster group of each country.

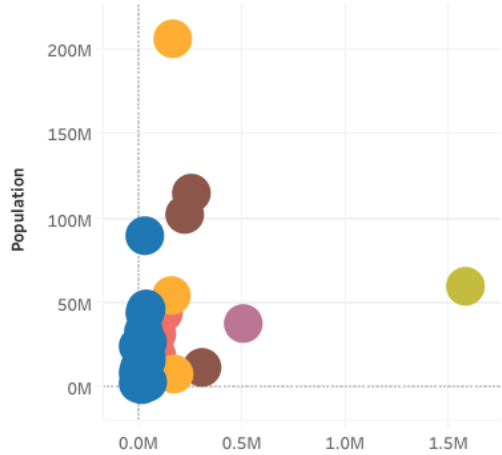
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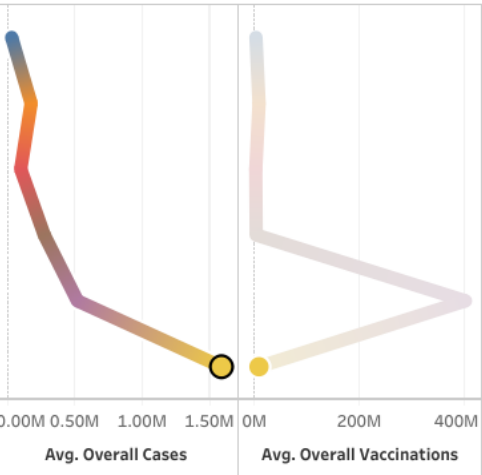
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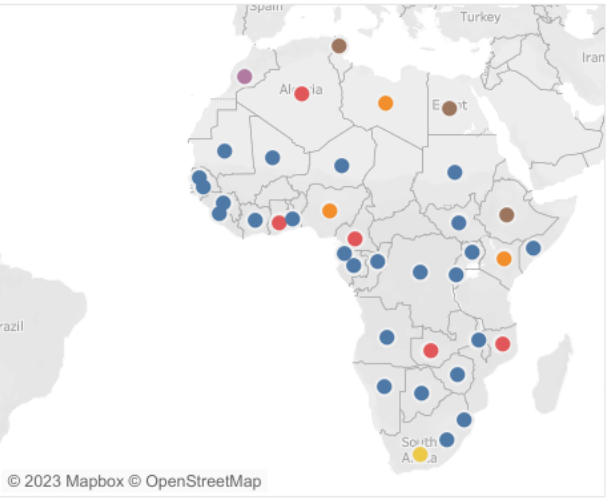
Cluster Analysis Graph



Cases & Vacc Cluster Rship



Clusters on Map

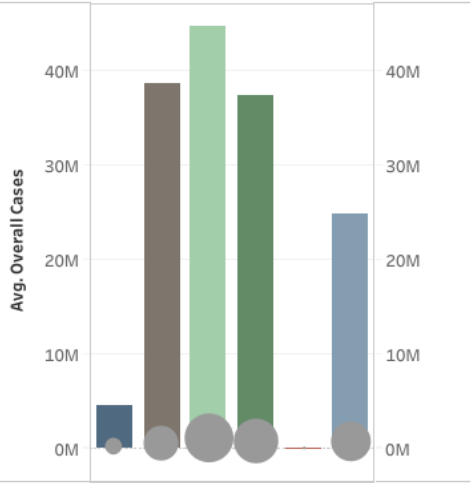


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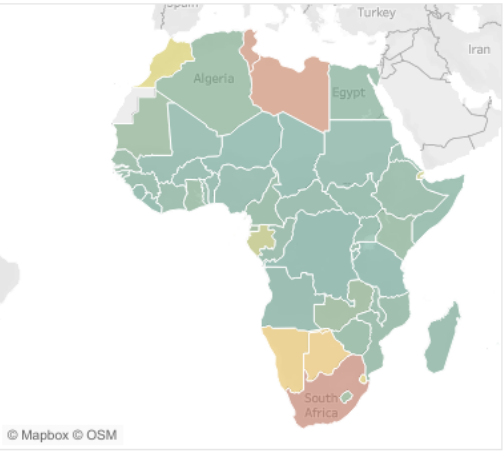
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Morocco is highlighted as it belongs to Cluster 5 which is country with the highest vaccination count and low covid ca..

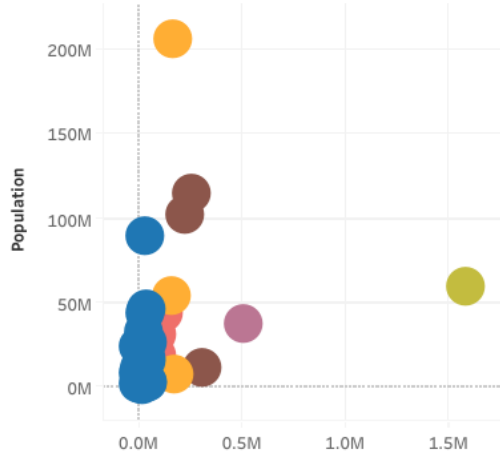
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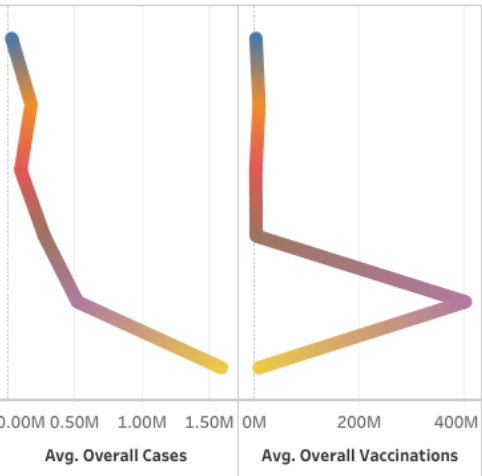
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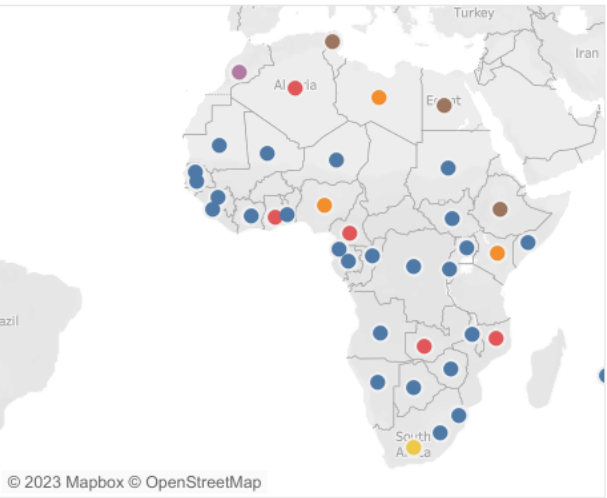
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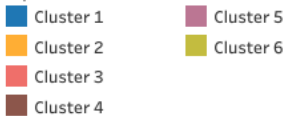
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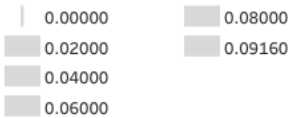
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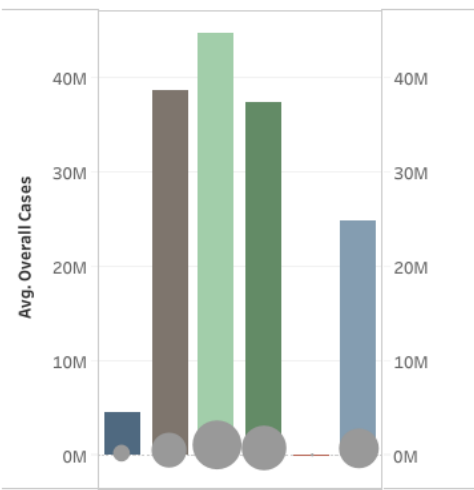


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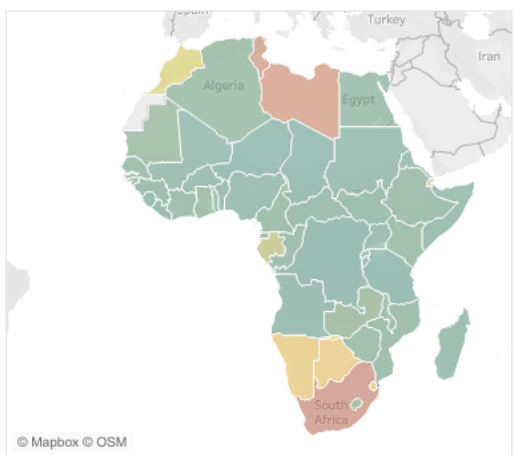
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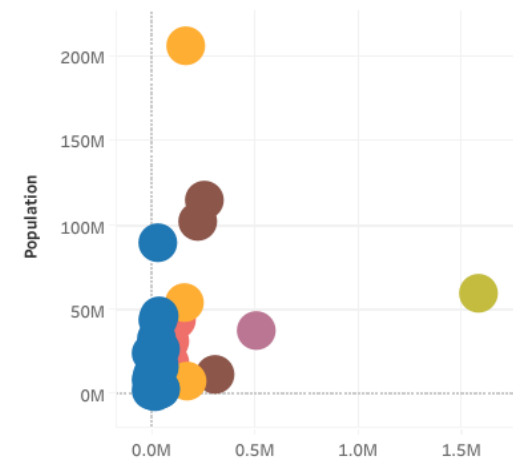
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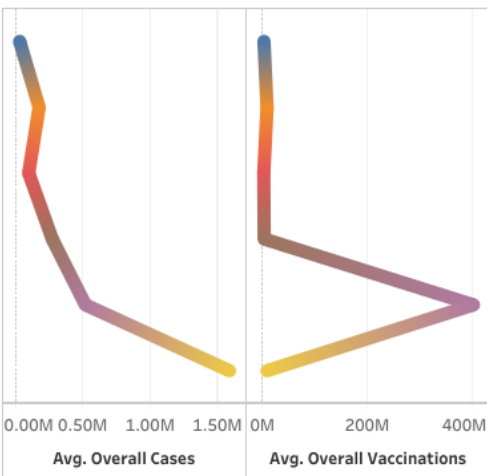
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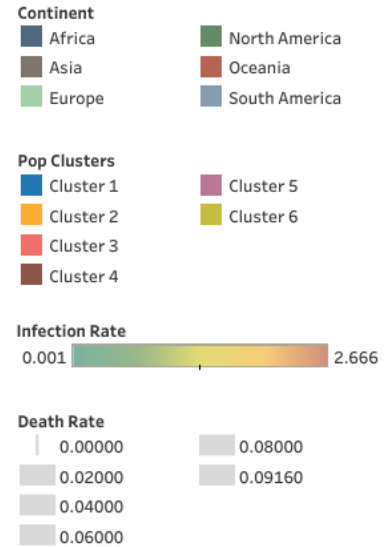
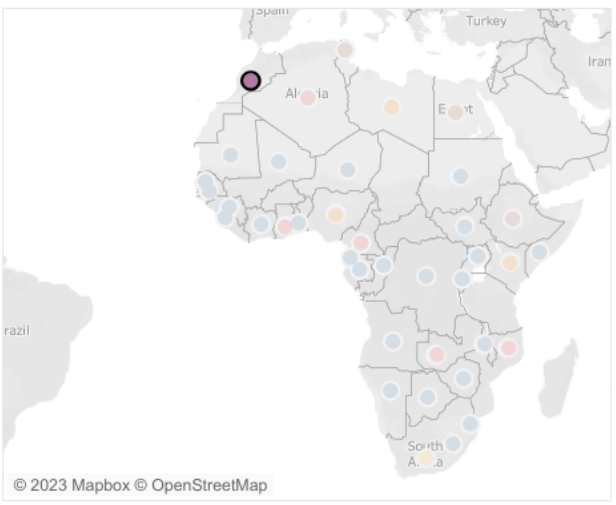
Cluster Analysis Graph



Cases & Vacc Cluster Rship



Clusters on Map

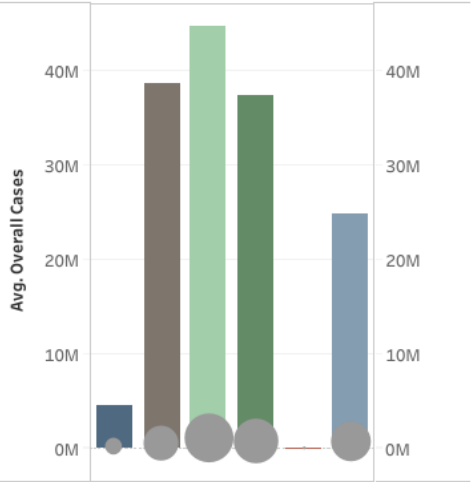


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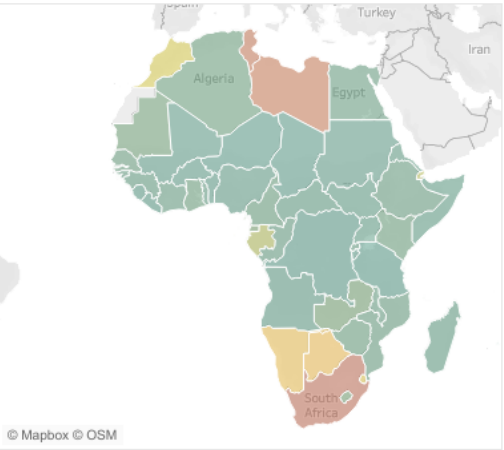
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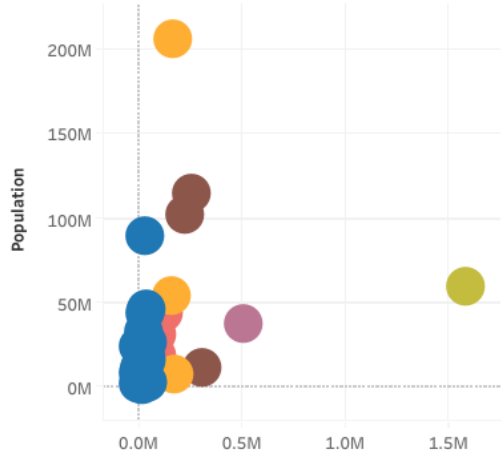
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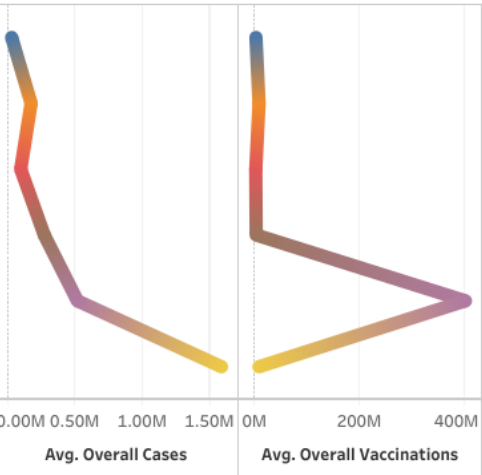
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