EXPERIMENT – 6

PART - A

AIM :

Create summary Dashboard using Power BI for the Health Care Data Analysis with the following requirements:

1. Create a new table visual to show number of people tested on each date.
2. Analyze people who aged 70 above having mortality rate(deaths) greater than 0.5 against each continent.
3. Create a bar chart to show case gdp per capita against each location during the period dec 2019 to feb 2020.
4. Find out the number of new cases out of total cases in each location using a matrix visual.
5. Determine the cardiovas death rate and it's percentage in Asia in the month of january or any month 2020 using a table chart.
6. Analyze the data to identify meaningful insights and make data driven decisions.

- **Create a new table visual to show number of people tested on each date.**

date	Sum of new_tests	tests_units_statu
Saturday, February 29, 2020	26	people tested
Sunday, March 01, 2020	28	people tested
Monday, March 02, 2020	78	people tested
Monday, March 09, 2020	79	people tested
Thursday, March 12, 2020	204	people tested
Saturday, March 14, 2020	256	people tested
Friday, March 27, 2020	258	samples tested
Tuesday, March 17, 2020	324	samples tested
Friday, March 13, 2020	360	people tested
Total	**27646923**	

Create a table with respective columns.

- Date
- Sum of new tests
- Test unit status

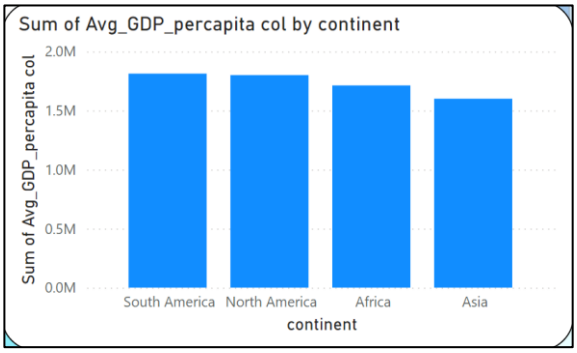
- **Analyze people who aged 70 above having mortality rate(deaths) greater than 0.5 against each continent.**

continent	Age	Mortality Rate
Asia	73	1.83
Asia	74	2.43
Asia	74	3.08
Asia	74	3.22
Asia	75	2.89
Asia	75	3.12
Asia	75	3.34
Asia	77	3.15
Asia	78	2.57
Asia	78	3.23
Asia	80	2.28

- Create a filtered table with the following query

```
Filtered_Health_Care = FILTER(health_care,
                              health_care[Age]>70
                          && health_care[Mortality Rate]>0.5)
```

- **Create a bar chart to show case gdp per capita against each location during the period dec 2019 to feb 2020.**



Create a measure using the following DAX Query:

Avg_GDP_percapita col = AVERAGEX(FILTER(health_care,health_care[date] >= DATE(2019, 12, 1) && health_care[date] >= DATE(2020, 2, 29)), health_care[gdp_per_capita])

Now create a bar graph for the Avg_GDP percapita and continent

- **Find out the number of new cases out of total cases in each location using a matrix visual.**

date	Africa	Asia	North America	South America	**Total**
Saturday, February 29, 2020			2		**2**
Sunday, March 01, 2020			2		**2**
Monday, March 02, 2020			1		**1**
Monday, March 09, 2020			2		**2**
Thursday, March 12, 2020			4		**4**
Friday, March 13, 2020	4		5		**9**
Saturday, March 14, 2020	7		10	7	**24**
Sunday, March 15, 2020	0		15	18	**33**
Monday, March 16, 2020	27		12	11	**50**
Tuesday, March 17, 2020	11		29	12	**52**
Total	**481755**	**1957287**	**402697**	**334970**	**3176709**

Create a matrix with Date as Rows, Continent as Columns and Sum of new cases as values

- **Determine the cardiovasular death rate and it's percentage in Asia in the month of january or any month 2020 using a table chart.**

date	continent	cardio death %
6/1/2020 12:00:00 AM	Asia	0.72
6/2/2020 12:00:00 AM	Asia	0.72
6/3/2020 12:00:00 AM	Asia	0.72
6/4/2020 12:00:00 AM	Asia	0.72
6/5/2020 12:00:00 AM	Asia	0.72
6/6/2020 12:00:00 AM	Asia	0.72

➢ **Create a filtered table using**

Filtered_for_e =

FILTER(health_care, health_care[continent]=="Asia" && (health_care[Month Name] == "January" || MONTH(health_care[date]) == 6) && health_care[Year] == 2020)

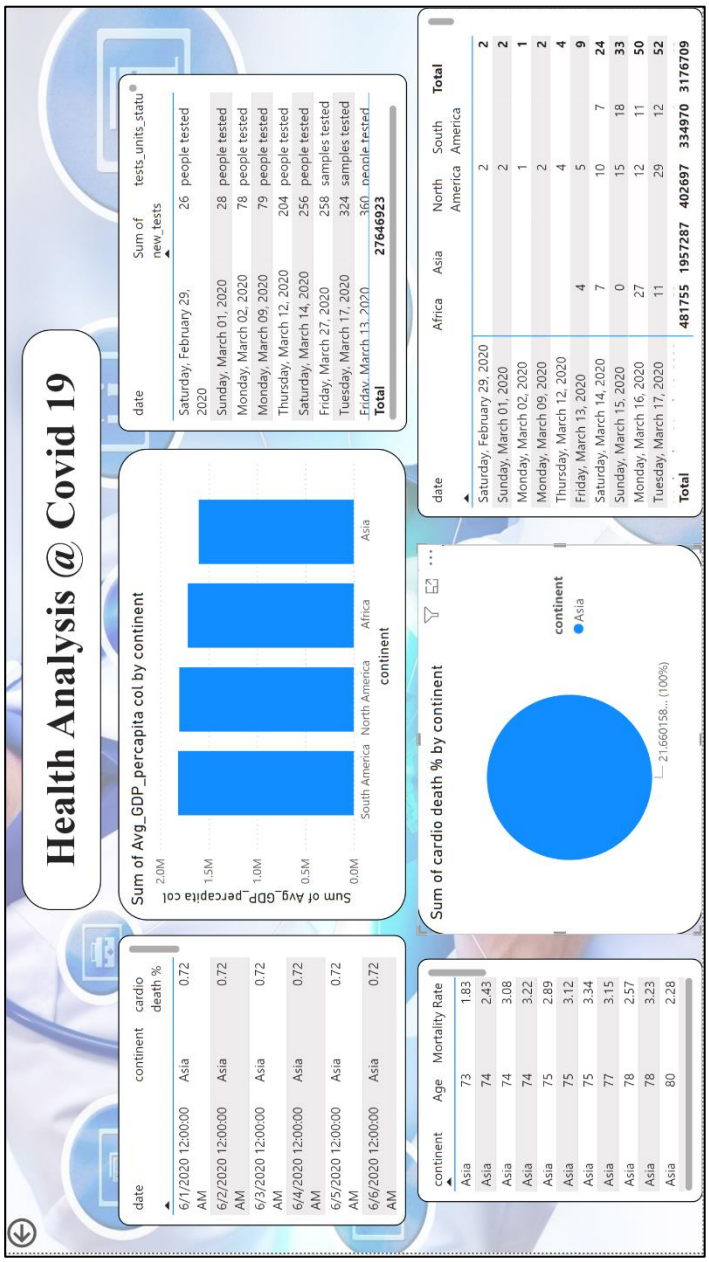
➢ **Find the percent of cardio vascular death using**

cardio death % = DIVIDE(Filtered_for_e[Cardio deaths],Filtered_for_e[Total sum of deaths],0)

then, Create a table using required data.

- **Analyze the data to identify meaningful insights and make data driven decisions.**

  - As of the latest update, a total of **3,176,709 COVID-19 cases** have been recorded globally.
  - Despite the ongoing crisis, the GDP per capita remains notably high in both **South America** and **North America**.
  - A total of **24,676,923 COVID-19 samples** have been tested to date.
  - Proportional to its population size, **Asia** has recorded the largest number of cases, with a total of **1,957,287**.
  - In terms of cardiovascular deaths, **Asia** accounts for **21.66%** of the global total, highlighting a significant health concern in the region.



Result :

Health Care Analysis dashboard is generated according to the requirements and insights are generated from the dashboard