Detail ProJet Report (DPR)
Healthcare Data Analysis

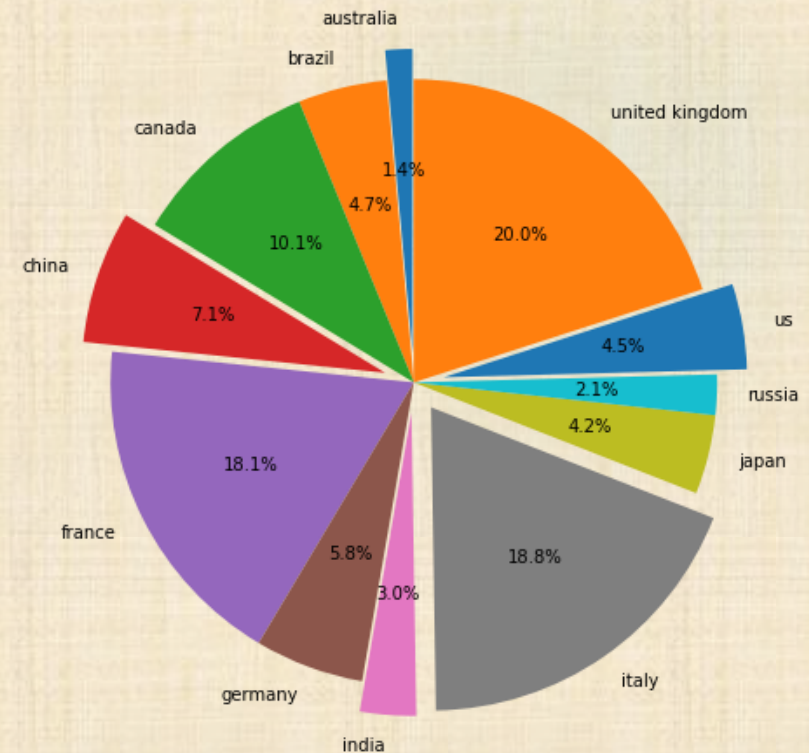**Author:** Dibyendu Biswas
Version: 1.0

INTRODUCTION

During the COVID-19 pandemic has put some health systems under immense pressure and stretched others beyond their capacity. As such, responding to this public health emergency and successfully minimizing its impact requires every health resource to be leveraged. Failure to protect health care in this rapidly changing context exposes health systems to critical gaps in services when they are most needed, and can have a long-lasting impact on the health and wellbeing of populations.

However, attacks on health care not only have a direct impact on the ability of health systems to deliver services to those most in need, but also take a heavy toll on the psychosocial health of patients, critical health care providers on the frontline and their families. As those continue to be targeted by acts of violence during this public health emergency, health systems must – among other things – prepare for shortages of health care workers unwilling or unable to report to work due to unsafe environments or obstruction in their personal lives.

In this scenario Data Analysis can help us to understand the how many people are dead; how many people are recovered and how many people are affected and the gap or the failure of the health care system and also helps to improve the better health care system worldwide.

Country wise Death ratio per 100 cases based on top 12 Countries
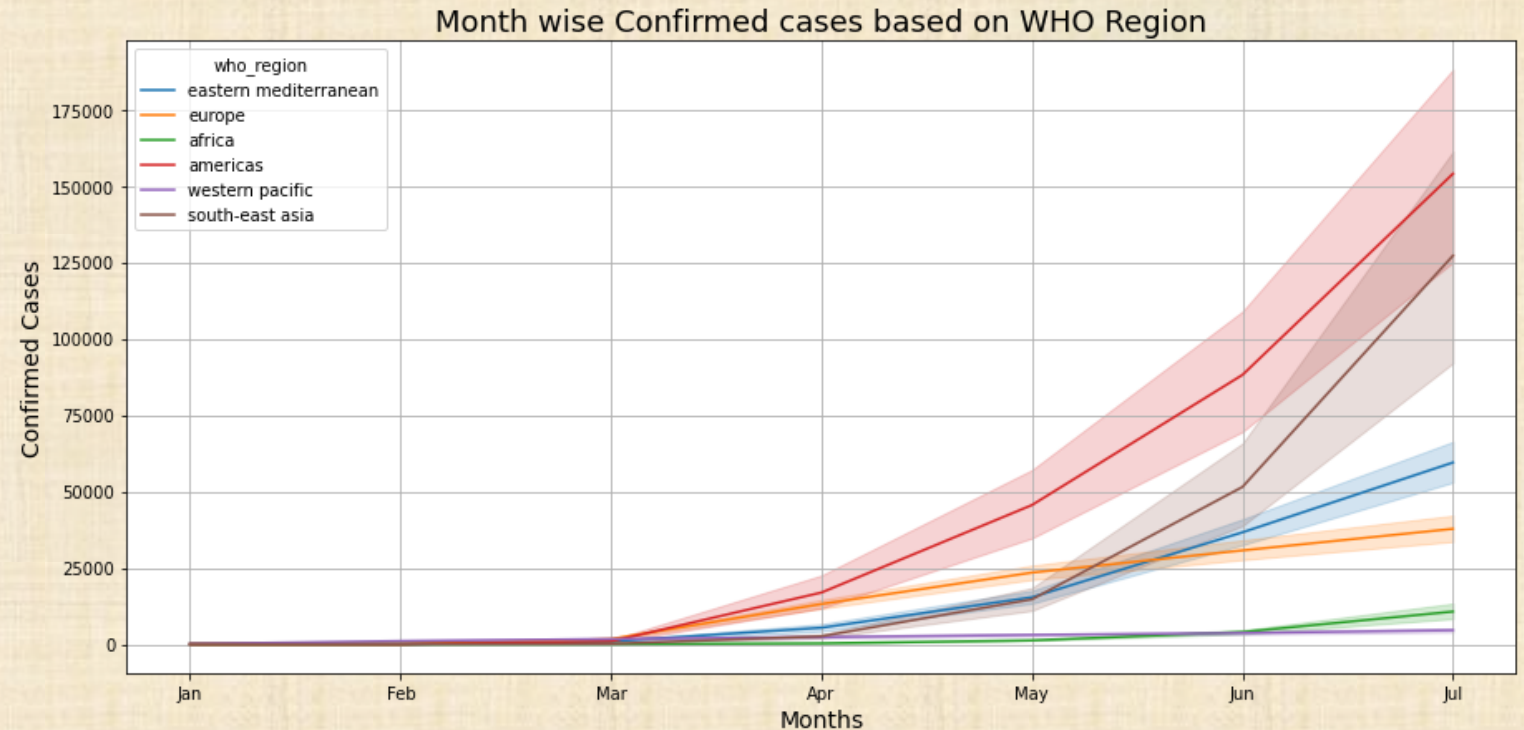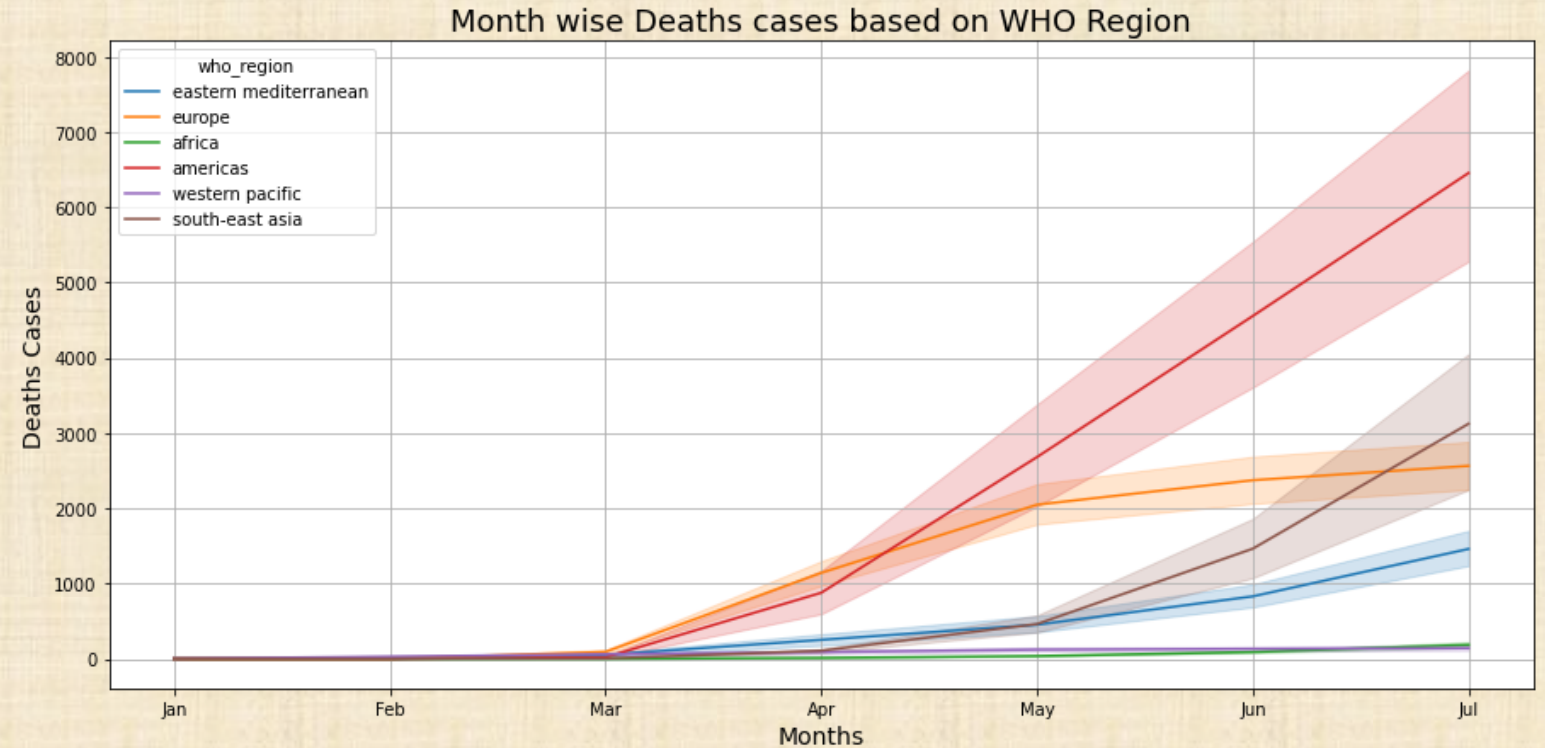
Analysis based on WHO Region (Confirmed Cases)

There are 6 WHO Region:
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Americas region
- Western Pacific Region
- South East Asia Region

Confirm Cases Region wise (highest to low)
- American Region
- South East Asia Region
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Western Pacific Region

(showing the graph: fig:0.2)

Month wise Confirmed cases based on WHO Region
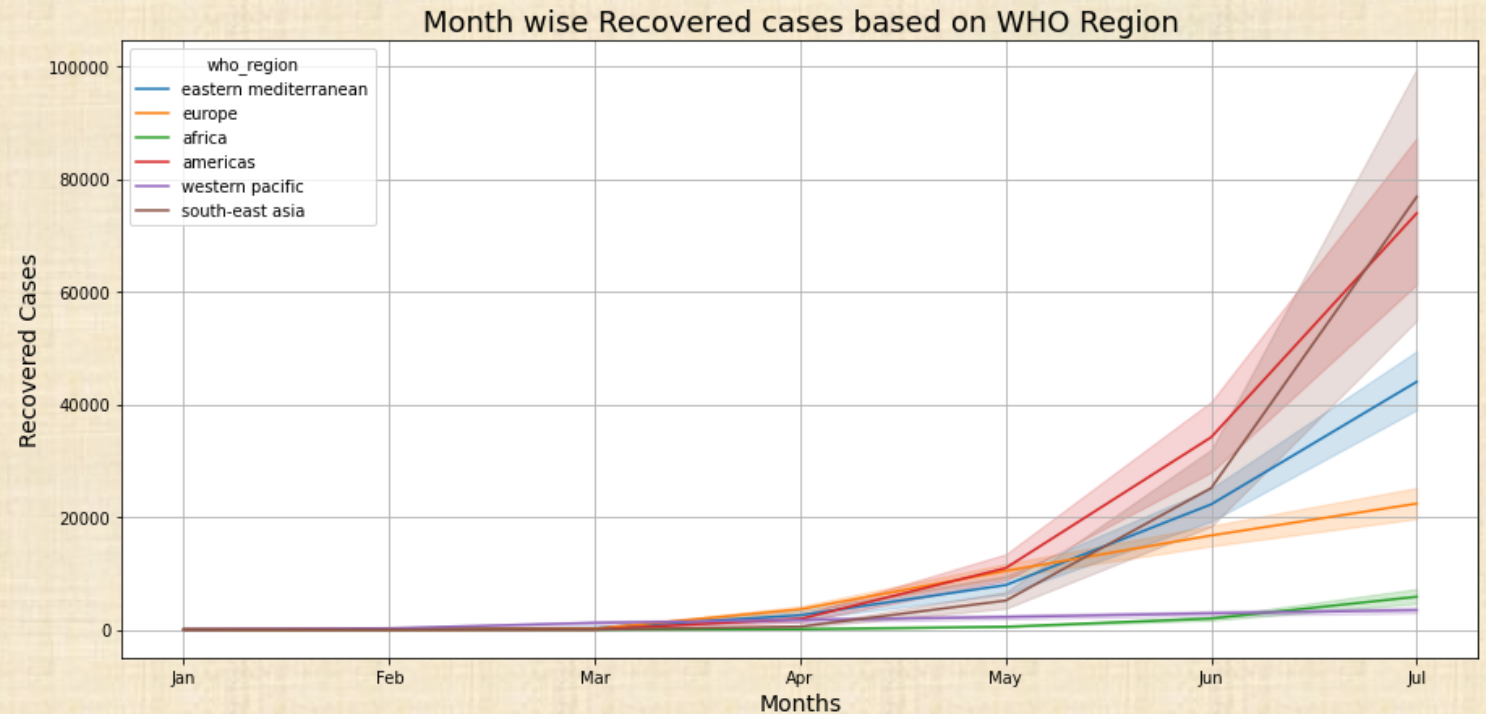
Analysis based on WHO Region (Death Cases)

There are 6 WHO Region:
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Americas region
- Western Pacific Region
- South East Asia Region

Death Cases Region wise (highest to low)
- American Region
- Europe Region
- South East Asia Region
- Eastern Mediterranean Region
- Africa region
- Western Pacific Region

(showing the graph: fig:0.3)

Month wise Deaths cases based on WHO Region
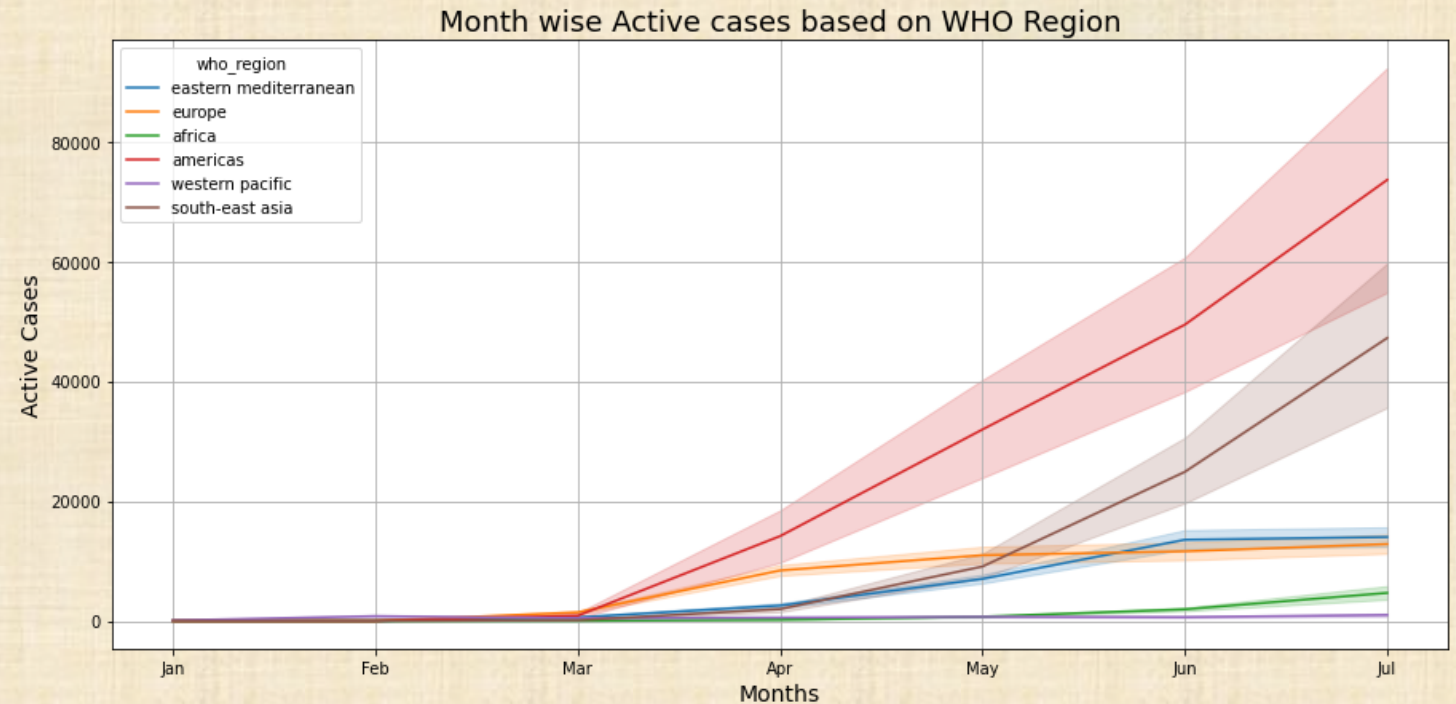
Analysis based on WHO Region (Recovered Cases)

There are 6 WHO Region:
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Americas region
- Western Pacific Region
- South East Asia Region

Recovered Cases Region wise (highest to low)
- American Region
- South East Asia Region
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Western Pacific Region

(showing the graph: fig:0.4)

Month wise Recovered cases based on WHO Region

Analysis based on WHO Region (Active Cases)

There are 6 WHO Region:
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Americas region
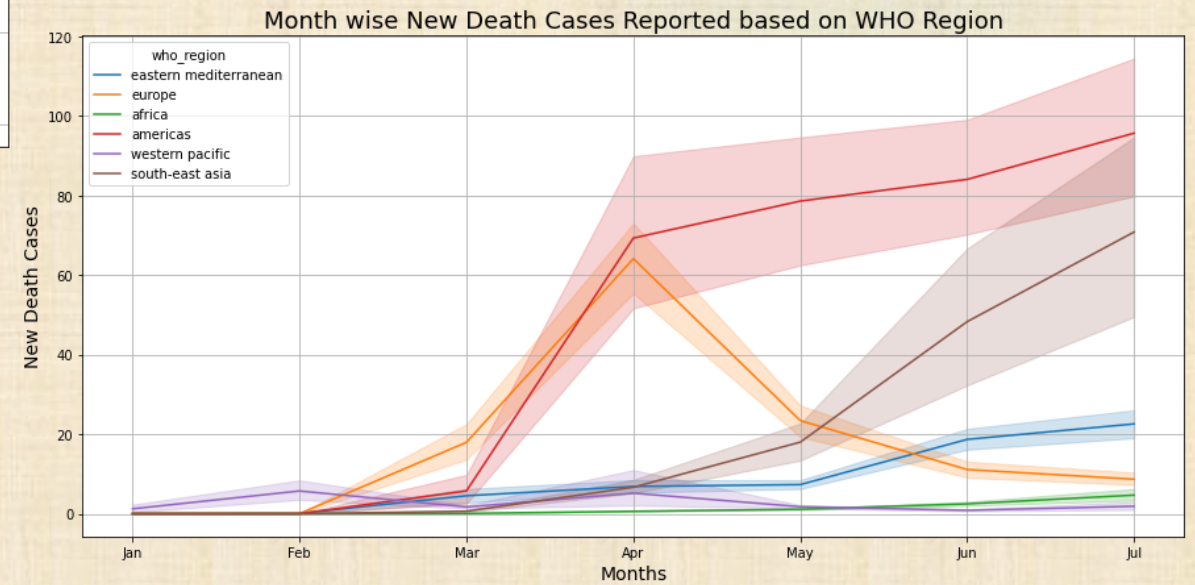- Western Pacific Region
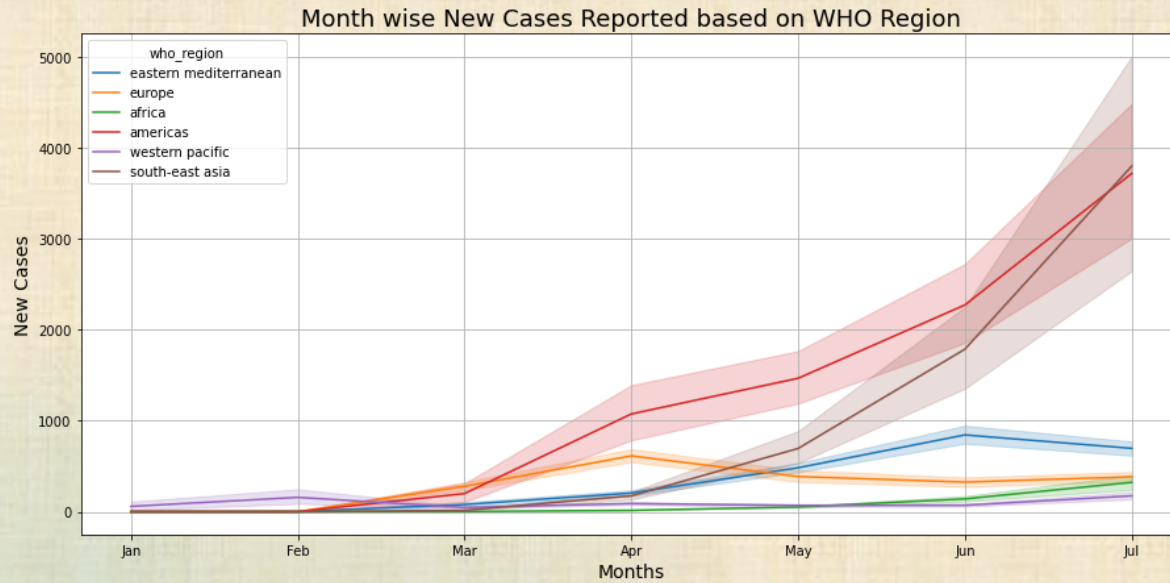- South East Asia Region

Recovered Cases Region wise (highest to low)
- American Region
- South East Asia Region
- Eastern Mediterranean Region
- Europe Region
- Africa region
- Western Pacific Region

(showing the graph: fig:0.5)

Analysis based on WHO Region (New Cases & New Deaths)

Month wise New Cases Reported based on WHO Region

Month wise New Death Cases Reported based on WHO Region

Analysis based on WHO Regions

South East Asian Region
Here we get the data (confirmed, death, recovered, active cases)

country/region	confirmed	deaths	recovered	active
india	1480073	33408	951166	495499
bangladesh	226225	2965	125683	97577
indonesia	100303	4838	58173	37292
nepal	18752	48	13754	4950
maldives	3369	15	2547	807

Eastern Mediterranean Region
Here we get the data (confirmed, death, recovered, active cases)

country/region	confirmed	deaths	recovered	active
iran	293606	15912	255144	22550
pakistan	274289	5842	241026	27421
saudi arabia	268934	2760	222936	43238
iraq	112585	4458	77144	30983
qatar	109597	165	106328	3104

Analysis based on WHO Regions

Europe Region
Here we get the data (confirmed, death, recovered, active cases)

country/region	confirmed	deaths	recovered	active
russia	816680	13334	602249	201097
united kingdom	300111	45759	0	254352
spain	272421	28432	150376	93613
italy	246286	35112	198593	12581
turkey	227019	5630	210469	10920

Africa region
Here we get the data (confirmed, death, recovered, active cases)

country/region	confirmed	deaths	recovered	active
south africa	452529	7067	274925	170537
nigeria	41180	860	18203	22117
ghana	33624	168	29801	3655
algeria	27973	1163	18837	7973
kenya	17975	285	7833	9857

Analysis based on WHO Regions

Americas region

Here we get the data (confirmed, death, recovered, active cases)

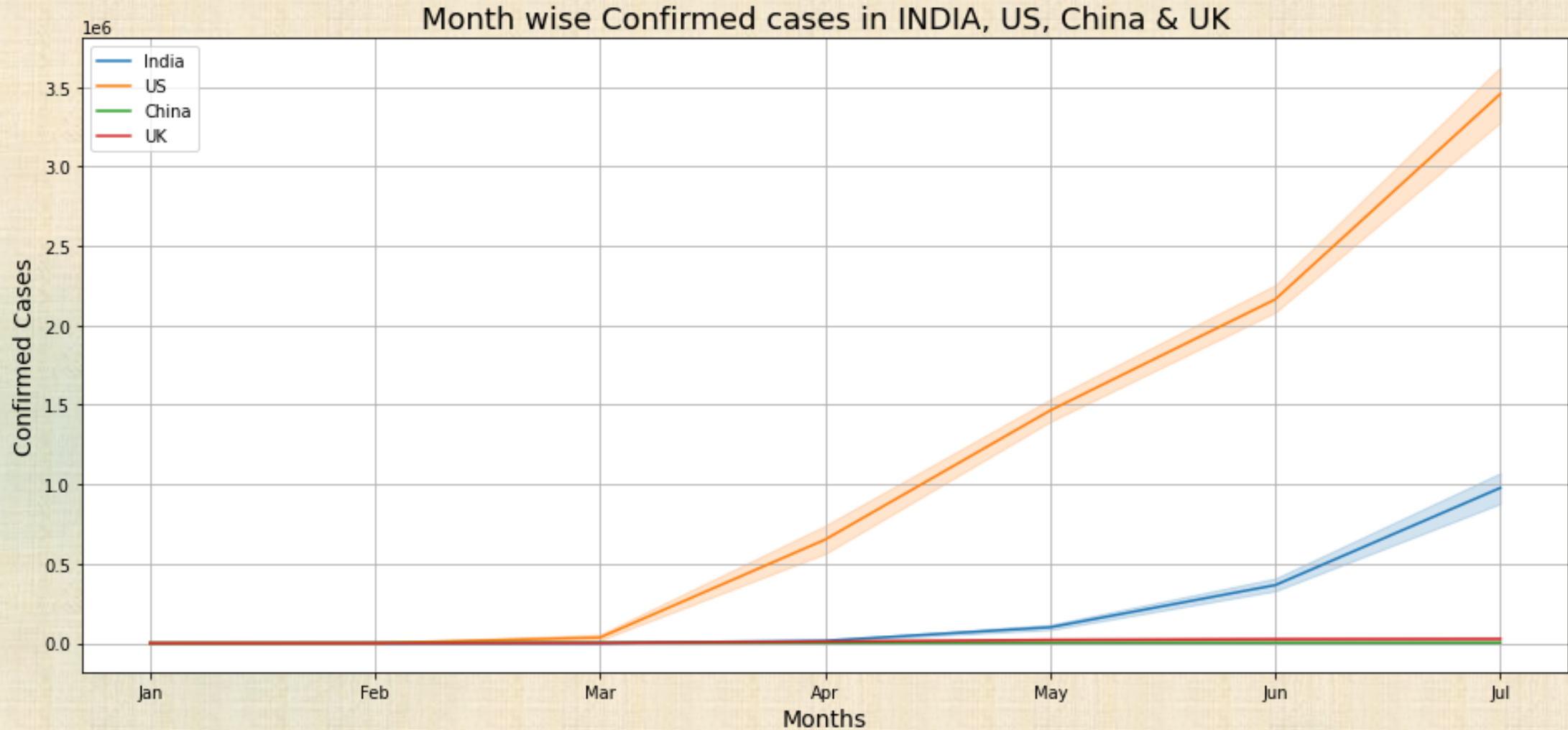| country/region	confirmed	deaths	recovered	active
us	4290259	148011	1325804	2816444
brazil	2442375	87618	1846641	508116
mexico	395489	44022	303810	47657
peru	389717	18418	272547	98752
chile	347923	9187	319954	18782

Western Pacific Region

Here we get the data (confirmed, death, recovered, active cases)

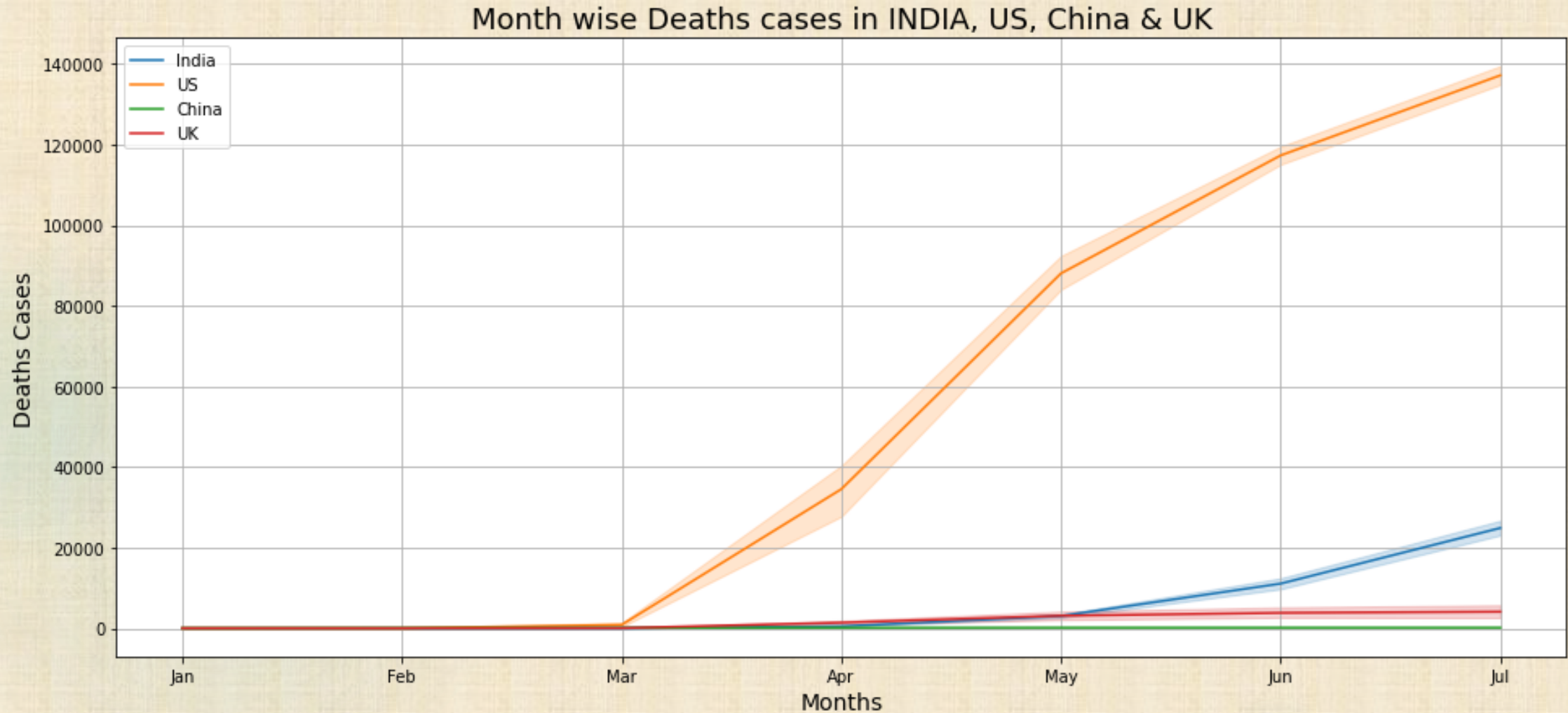| country/region	confirmed	deaths	recovered	active
philippines	82040	1945	26446	53649
china	68135	4512	63623	0
singapore	50838	27	45692	5119
japan	31142	998	21970	8174
south korea	14203	300	13007	896

Analysis based on WHO Regions (Get the highest data)

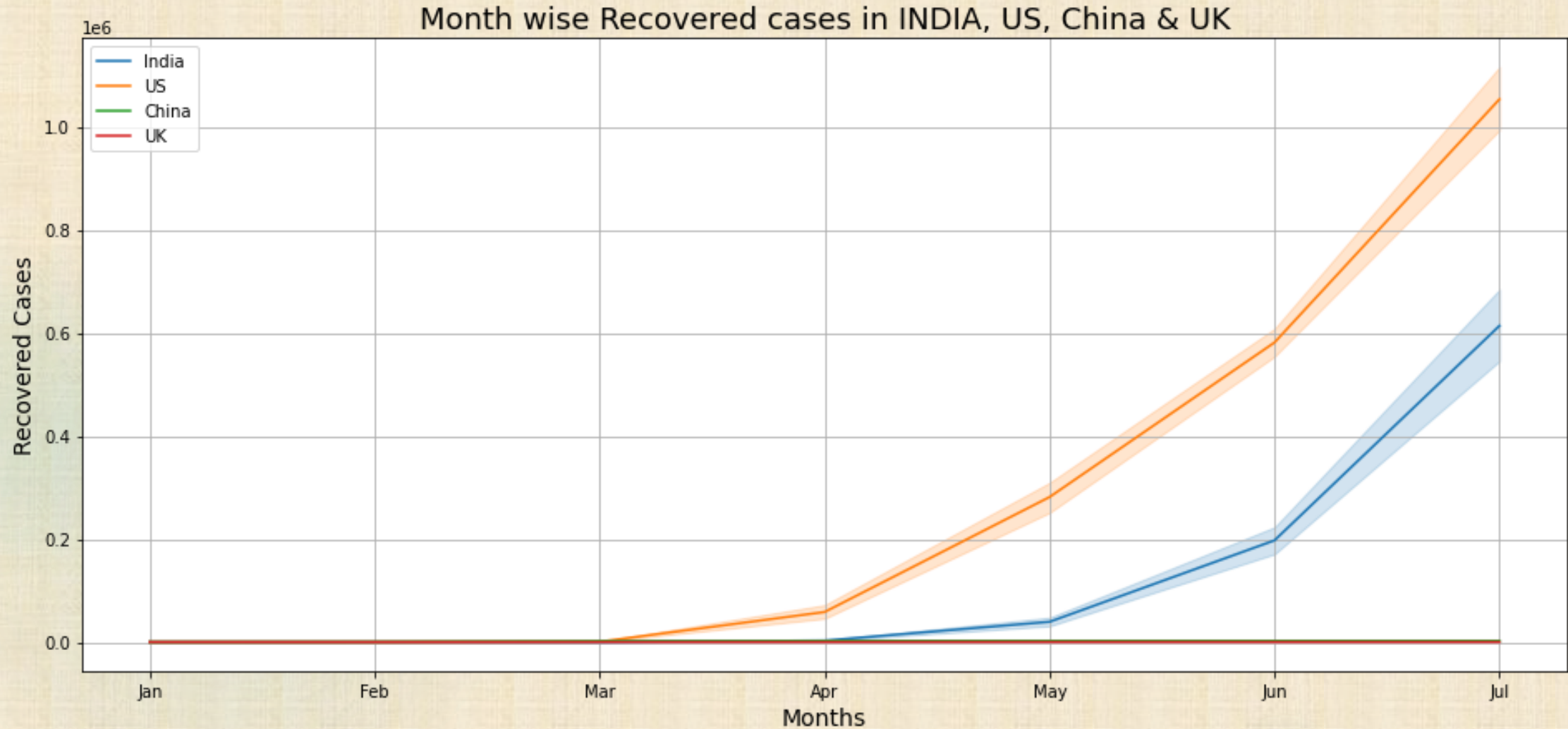|	region	confirmed cases	deaths cases	recovered cases	active cases
0	eastern_mediterranean_region	iran	iran	iran	egypt
1	europe_region	russia	united kingdom	russia	united kingdom
2	americas_region	us	us	brazil	us
3	western_pacific_region	philippines	china	china	philippines
4	south_east_asia_region	india	india	india	india
5	africa_region	south africa	south africa	south africa	south africa

Analysis based on India, China, US & UK

Month wise Confirmed cases in INDIA, US, China & UK

Analysis based on India, China, US & UK

Month wise Deaths cases in INDIA, US, China & UK

Analysis based on India, China, US & UK

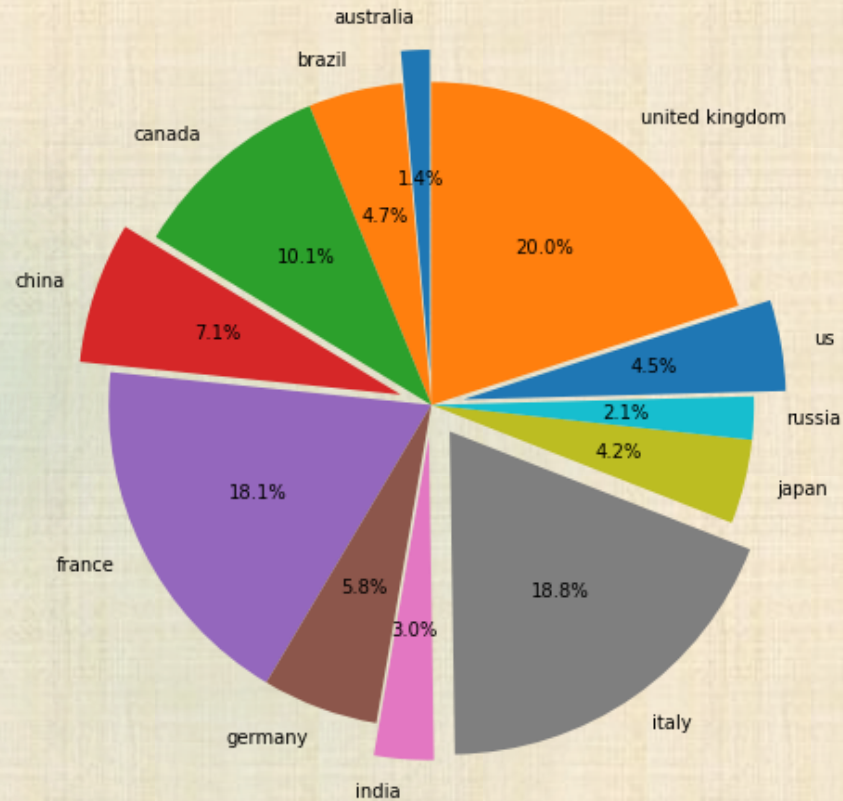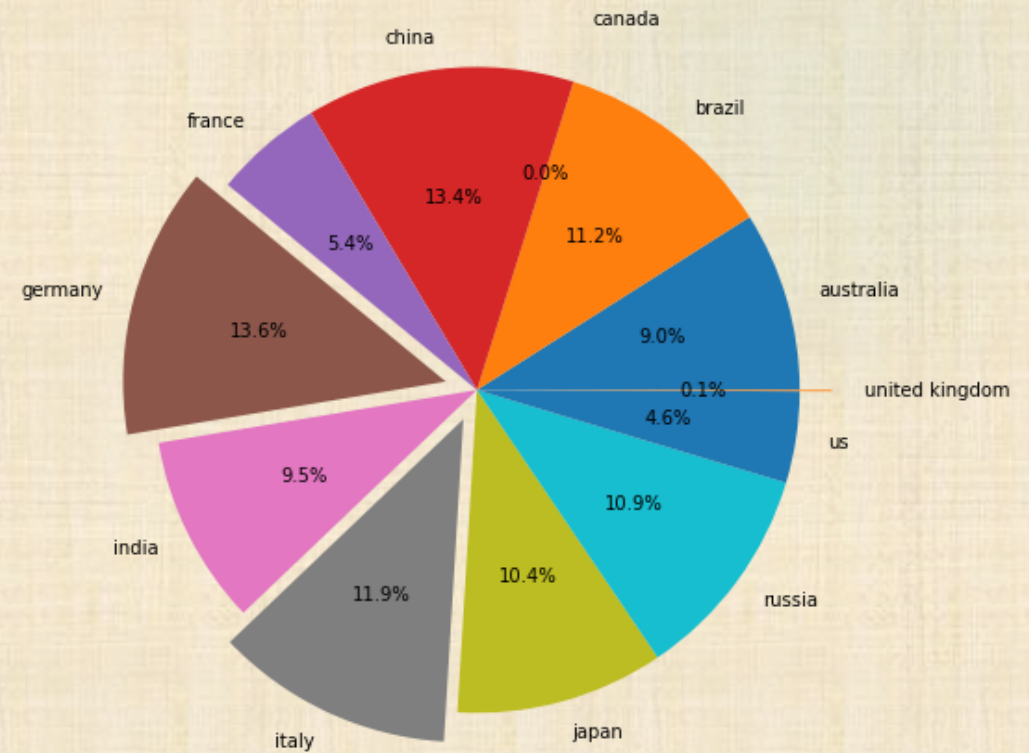Month wise Recovered cases in INDIA, US, China & UK

Analysis based on top 12 Countries

Countries:
India, China, US, UK, France, Germany, Italy, Canada, Russia, Japan, Australia, Brazil

Country wise Death ratio per 100 cases based on top 12 Countries

Country wise Recovered ratio per 100 Cases based on top 12 countries
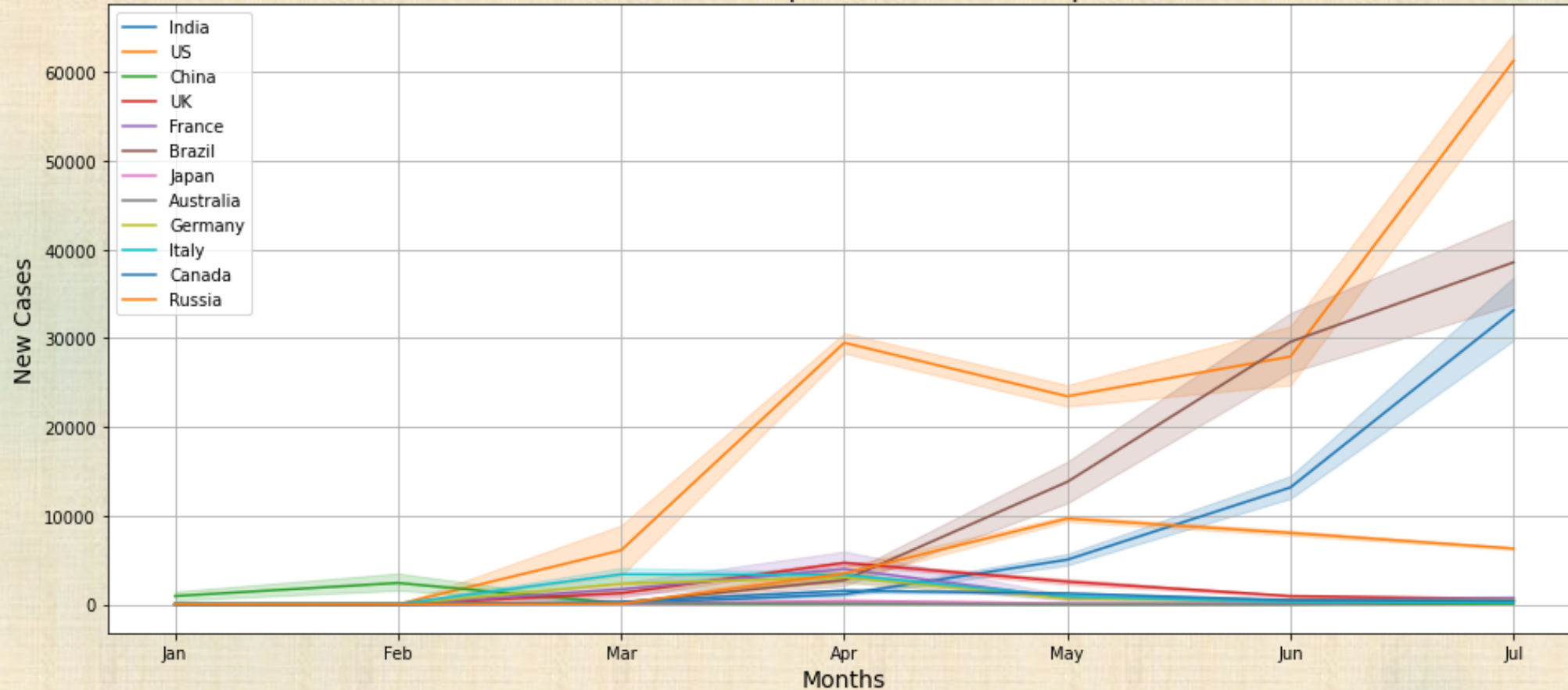
Analysis based on top 12 Countries

Countries:
India, China, US, UK, France, Germany, Italy, Canada, Russia, Japan, Australia, Brazil

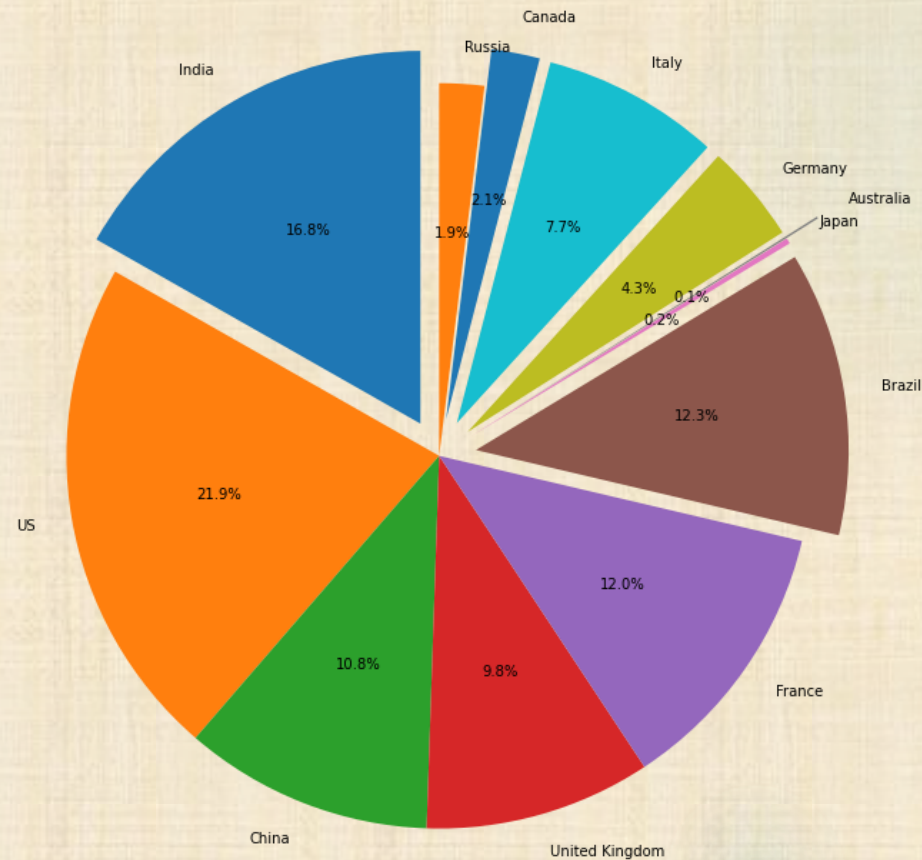Month wise New Cases Reported based on top 12 Countries

Analysis based on top 12 Countries

Countries:
India, China, US, UK, France, Germany, Italy, Canada, Russia, Japan, Australia, Brazil

	country	new cases	new death cases
0	India	49981	2003
1	US	77255	2614
2	China	13628	1290
3	United Kingdom	5505	1173
4	France	26849	1438
5	Brazil	67860	1473
6	Japan	978	29
7	Australia	532	10
8	Germany	6933	510
9	Italy	6557	919
10	Canada	2778	251
11	Russia	11656	232

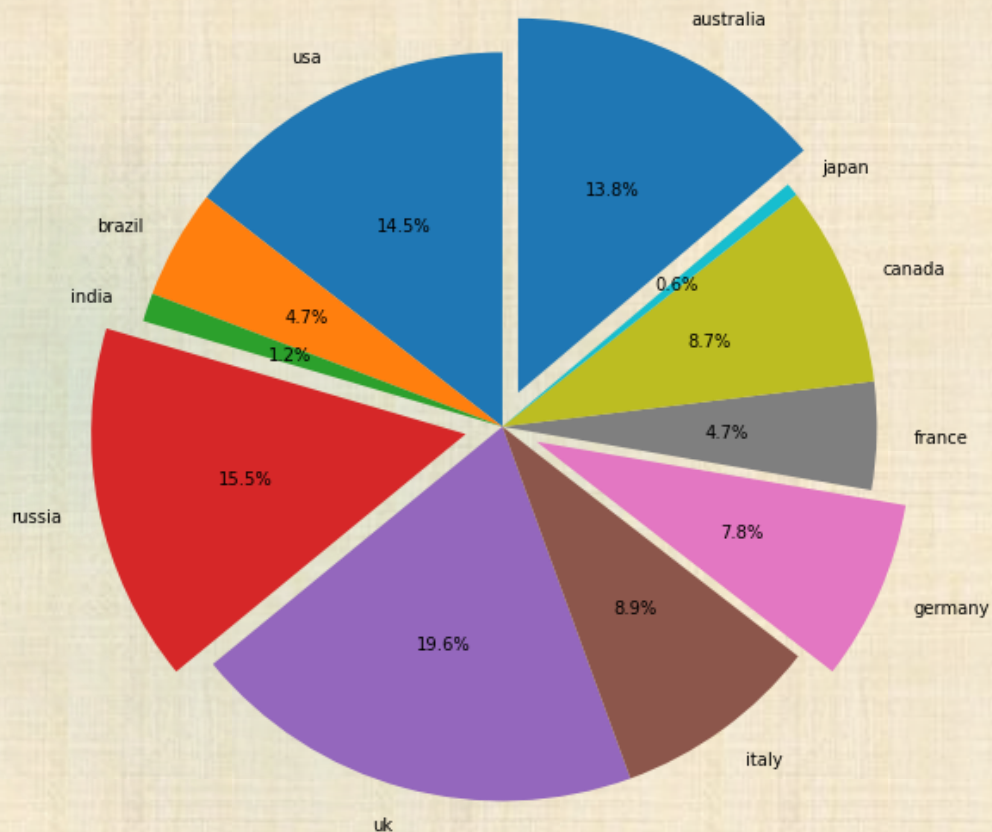Country wise Death ratio per 100 cases based on top 12 Countries

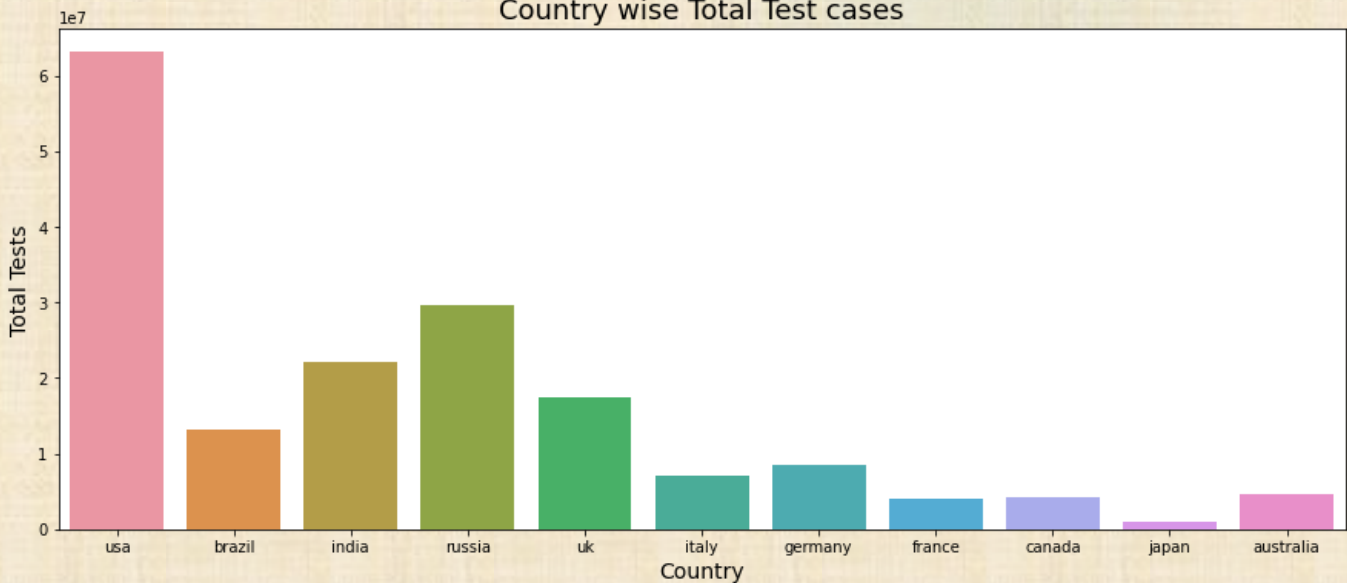# Analysis based on top 12 Countries

Countries:
India, China, US, UK, France, Germany, Italy, Canada, Russia, Japan, Australia, Brazil

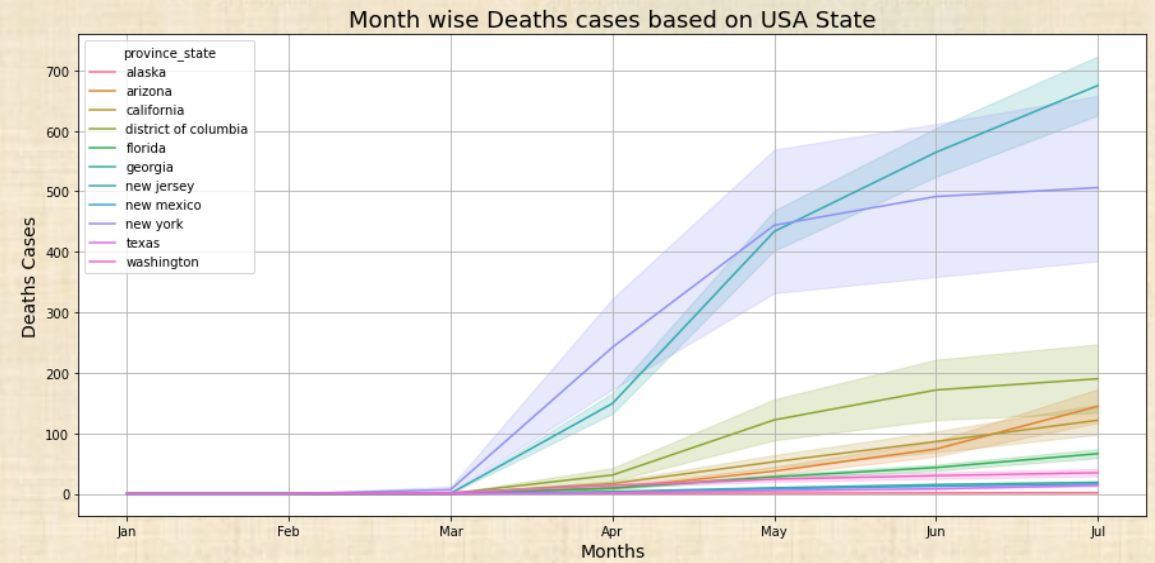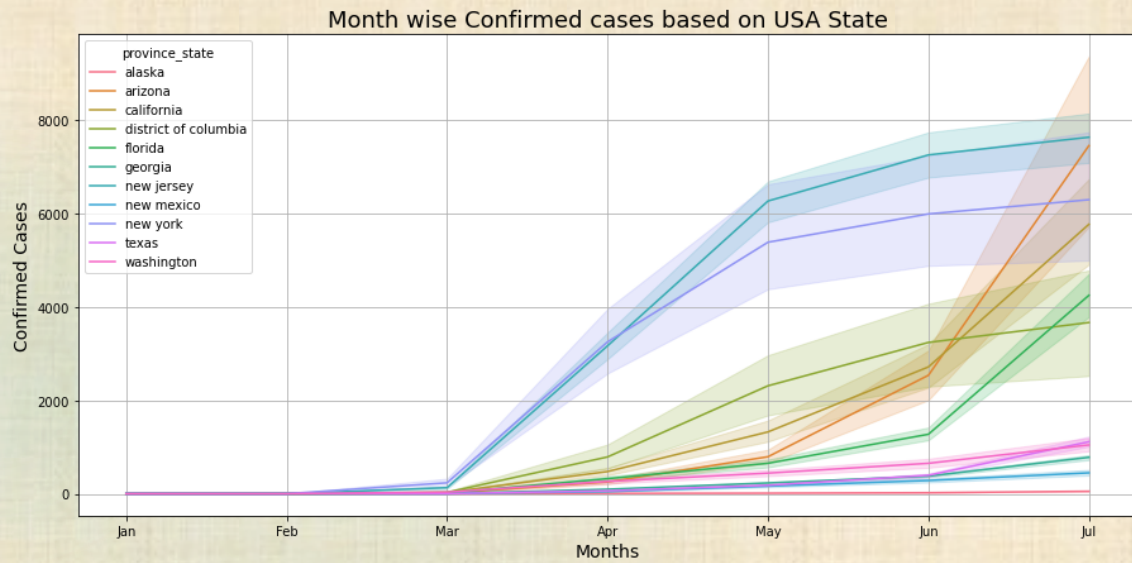

Country wise Tests Cases ratio Per 1 Million Population

Country wise Total Test cases

Analysis based on USA

States:
Alaska, Arizona, California, District of Columbia, Florida, Georgia, New Jersey, New Mexico, New York, Texas, Washington

--------------------------- Thank You ---------------------------