

# Covid-19

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## Spread of virus in india.

### Step 1:

In the first step of this project I downloaded a csv file from OurWorldinData Website and Uploaded that data into MySQL workbench.

StLater I tried to open a file using Spreadsheet software but eventually I realized that it will take a long time to process all the data in the spreadsheet. Hence I decided to Use MySQL workbench.

### Step 2:

I applied Few basic queries in SQL and did a data cleaning process which included the following.

- Created new columns to access the information quickly for visualization.
- Removed the rows containing data about countries other than India.
- Added zero in place of Nan(Null) values.
- Saved data in Covid\_deaths\_cleaned\_India.csv

### Step 3:

List of queries;

```
1 • SELECT
2     *
3 FROM
4     covid.coviddeathsindia;
```

```

6     ###max cases on a day
7 •   SELECT
8       MAX(new_cases)
9     FROM
10      covid.coviddeathsindia;

18    ###max new cases per million
19 •   SELECT
20       MAX(new_cases_per_million), MAX(new_deaths_per_million)
21     FROM
22      covid.coviddeathsindia;

24    ### total case vs total deaths
25 •   SELECT
26       location,
27       datetime,
28       total_cases,
29       total_deaths,
30       (total_deaths / total_cases) * 100 AS DeathPercentage
31     FROM
32      coviddeathsindia
33     ORDER BY datetime;

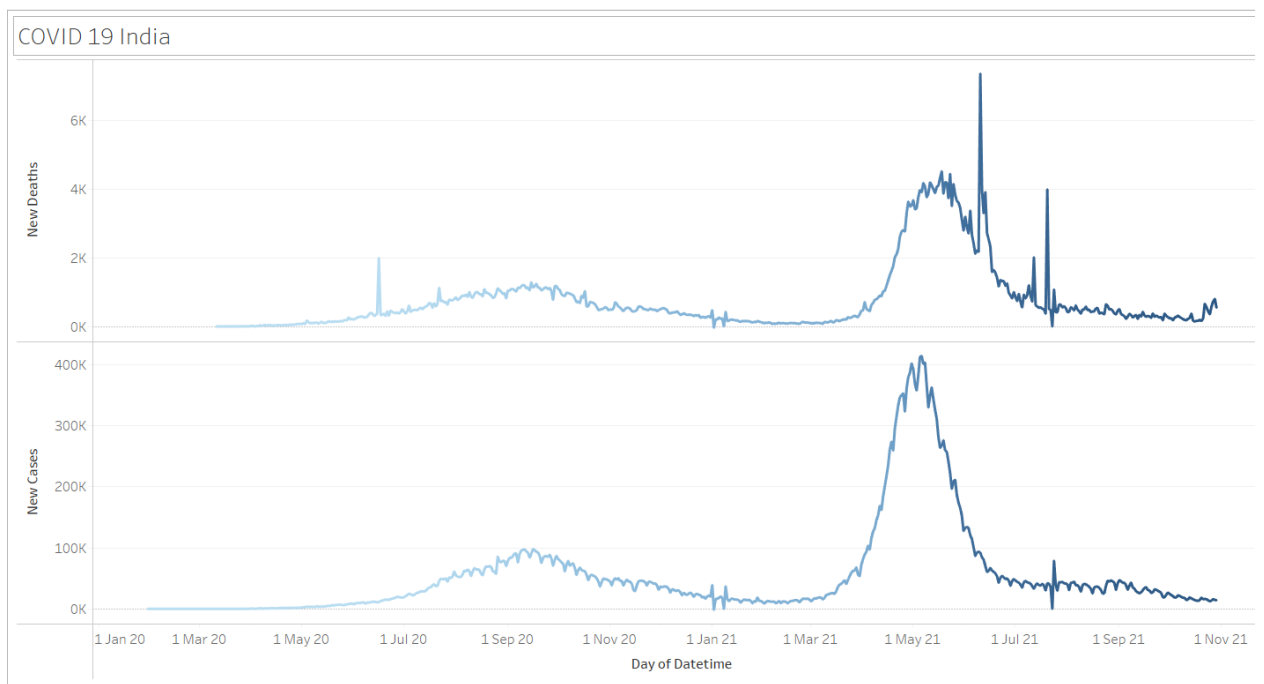
35    ###what % got covid
36 •   SELECT
37       location,
38       datetime,
39       total_cases,
40       population,
41       (total_cases / population) * 100 AS PercentgotCOVID
42     FROM
43      coviddeathsindia
44     ORDER BY datetime;

46    ###on what date most cases are detected? and on what day most deaths were recorded?
47
48 •   SELECT
49       datetime, new_cases, new_deaths
50     FROM
51      coviddeathsindia
52     WHERE
53       new_cases = 414188 OR new_deaths = 7374

```

## Step 4:

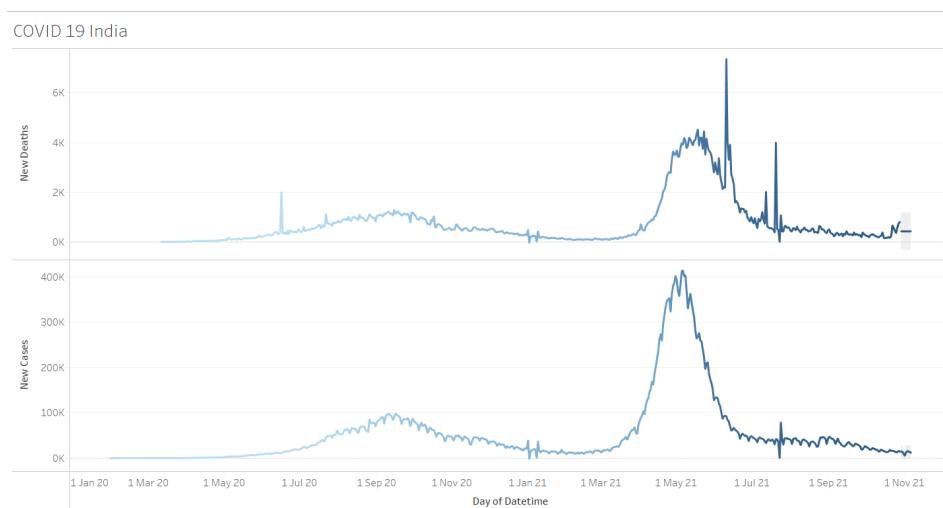
During this step I uploaded the data into Tableau Desktop.  
I plotted a graph of Deaths in India and cases in India.



Now data I used was downloaded earlier so I had data until Nov 2021.  
So why not use Predict features on tableau desktop to predict the spread of cases and deaths in India.

## Step 5:

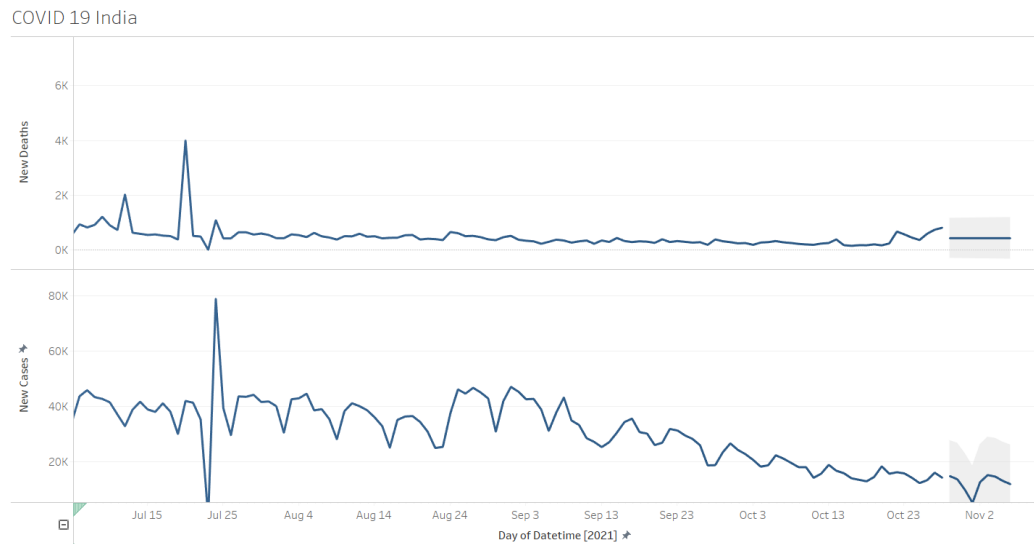
I Used the Forecast method in tableau. Let's see the result.



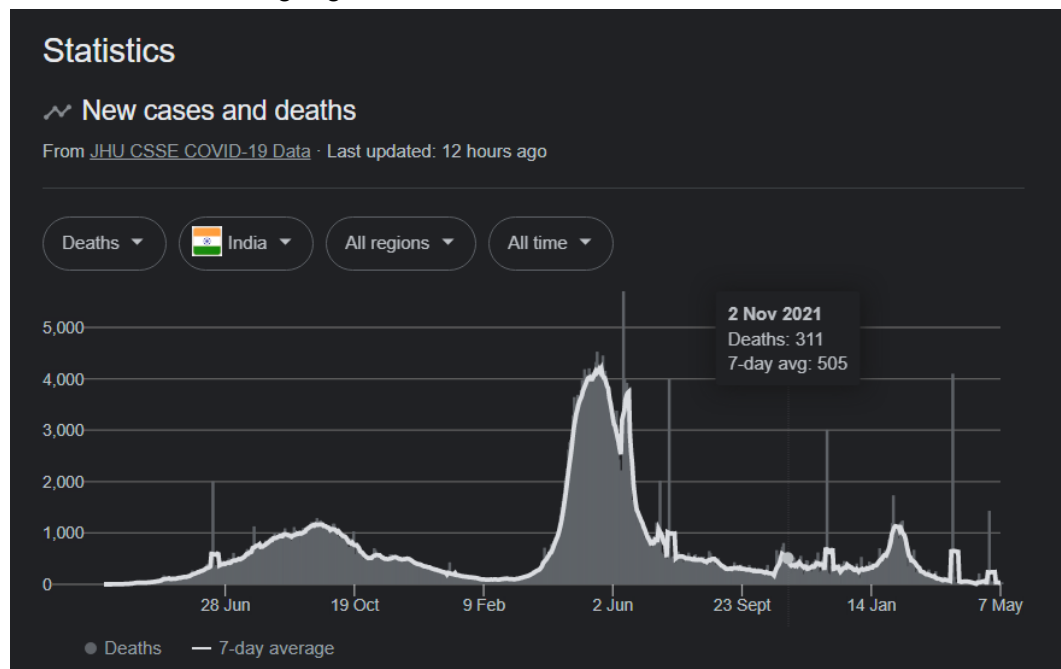
Those tiny Gray boxes Are the result.

It really looks Unclear but let's interpret the result.  
Line after 1 NOV 2021 is our prediction of cases in India.

Here's a closer look.



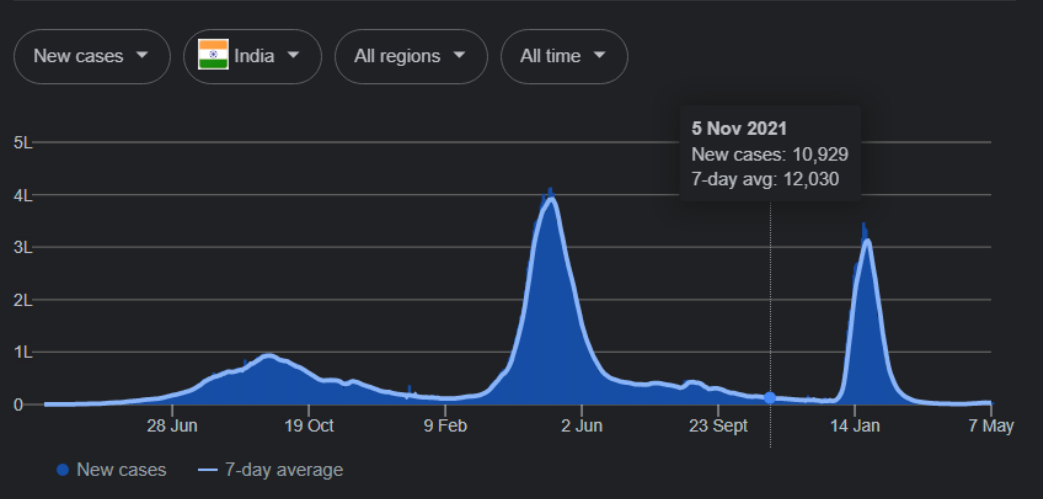
Now let's check with google to Test the results.



## Statistics

### New cases and deaths

From JHU CSSE COVID-19 Data · Last updated: 12 hours ago



Our prediction graphs look very similar but let's check The exact info.

Info	Date	Actual	Predicted	Difference in %
Death	2 Nov 2021	311	413	24.7%
Cases	5 Nov 2021	10929	13206	17.2%

Conclusion:

Forecast predicted the trend correctly but there was an error in the results.