# Tableau Project

## Covid Deaths and Covid Vaccinations

- Dataset: https://ourworldindata.org/covid-deaths

- From which created two dataset :

1) Covid death
2) Covid vaccination

- Using mySql queries in SSMS, created queries whose result will be used for creating datasource for tableau project.

  **Following are the queries from which we created 4 dataset named Tableau Table1,2,3,4.**

1) *The total cases, total deaths, and death percentage for each continent where the continent is not NULL.*

```
Select SUM(new_cases) as total_cases, SUM(cast(new_deaths as int))
as total_deaths,SUM(cast(new_deaths as int))/SUM(New_Cases)*100
as DeathPercentage
From SQLProject..CovidDeaths
where continent is not null
order by 1,2;
```

2) *The total death count for each location where the continent is NULL and the location is not 'World', 'European Union', or 'International':*

```
Select location, SUM(cast(new_deaths as int)) as TotalDeathCount
From SQLProject..CovidDeaths
Where continent is null
and location not in ('World', 'European Union', 'International')
Group by location
order by TotalDeathCount desc;
```

3) *To get the location, population, highest infection count, and the percentage of population infected for each location:*

```
Select Location, Population, MAX(total_cases) as HighestInfectionCount,
Max((total_cases/population))*100 as PercentPopulationInfected
From SQLProject..CovidDeaths
Group by Location, Population
order by PercentPopulationInfected desc;
```

4) *To get the location, population, highest infection count, and the percentage of population infected for each location on each date*

```
Select Location, Population,date, MAX(total_cases) as HighestInfectionCount,
Max((total_cases/population))*100 as PercentPopulationInfected
From SQLProject..CovidDeaths
Group by Location, Population, date
order by PercentPopulationInfected desc;
```

***Note*** - From all the above queries result in excel sheet replace the “NULL” values to 0
***Note*** - From tableau table 4 change date column to date format

1) Create a new project
2) Import in each sheet the 4 tableauTable
3) SHEET 1: TABULAR STRUCTURE

- Rename sheet to global numbers
- Drag total cases, total deatha nd death percentage in columns
- select show me and switch to tabular structure/text table
- Transfer the row:measures names into column
- Rearrange the sheet into case,death and death percentage
- Format death percentage into two decimal point(using marks -> measure-> format->fields->SUM(global percentage->numbers->number custom->two decimal)
- Customize the sheet according to your style

4) SHEET 2: BAR CHART

- Remane sheet to Total Deaths per Continent
- Set location field into columns
- Change location name into continent
- Set total death count to rows
- Format colours and axis

5) SHEET 3: MAP

- Change sheet3 name to Percenatge Population Covid per Country
- FROM tables -> select location dropdown -> geographic role-> Country/Region
- Set longitude to columns and latitude to rows
- Drag location to sheet 3 map
- Drag percent population infected to marks

- Drag sum(percentage population infected) to colours , to change colour of map according to infected percentage

6) SHEET 4: TIME SERIES

- Change sheet3 name to Percenatge Population Covid
- Set date to columns
- Set percent of population infected to rows and set its measures to AVERAGE
- From marks location drag to colours and filter out countries that you want to show in time series
- Again drag location and now put it into label, for marking the lines into labels
- To check future prediction , click on analysis ->forcast->show forecast
- Drag percentage population to marks and set to label and change sum to average in measures

7) From bottom of page create a new dashboard
8) Now add / drag all sheet and rearrange them