**My queries**

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN total\_deaths int

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN total\_cases int

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN population bigint

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN location varchar(20)

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN Total\_deaths int

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN new\_deaths int

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN new\_cases int

ALTER TABLE [Covid Data]..[covid deaths n]

ALTER COLUMN date date

ALTER TABLE [Covid Data]..[covid vaccination n]

ALTER COLUMN date date

select count(\*)

from [Covid Data]..[covid deaths n]

select \*

from [Covid Data]..[covid deaths n]

order by 3, 4

select location

from [Covid Data]..[covid deaths n]

where continent = ''

--order by 3, 4

select continent,location

from [Covid Data]..[covid deaths n]

where date = '2020-06-29'

--order by 3, 4

select \*

from [Covid Data]..[covid deaths n]

where location not in (select continent from [Covid Data]..[covid deaths n])

order by 3, 4

--select \* from [Covid Data]..[covid vaccination n]

--order by 3, 4

--Select Data that we are going to be using

select location, date, total\_cases, new\_cases, total\_deaths, population

from [Covid Data]..[covid deaths n]

order by 1,2

-- Looking at total cases vs toal deaths

--select location, date, total\_cases, total\_deaths, (CONVERT(int, total\_deaths)/CONVERT(int,total\_cases))\*100 as DeathPercentage

select location, date, total\_cases, total\_deaths, (CONVERT(decimal(15,6),total\_deaths)/CONVERT(decimal(15,6),total\_cases))\*100 as DeathPercentage

from [Covid Data]..[covid deaths n]

where total\_cases != 0

order by 1,2

-- Looking at total cases vs population

-- The percentage of people got infected

select location, date, total\_cases, population, (CONVERT(decimal(20,10), total\_cases)/CONVERT(decimal(20,10), population))\*100 as InfectedPercentageOfopulation

from [Covid Data]..[covid deaths n]

where location like '%Asia%'

order by 1,2

-- Looking at countires with highest infection rate compared to population

select location,population, MAX(total\_cases) as Highest\_Infection\_Count, MAX((CONVERT(decimal(20,10), total\_cases)/CONVERT(decimal(20,10), population)))\*100 as InfectedPercentageOfopulation

from [Covid Data]..[covid deaths n]

--where location like '%Asia%'

group by location, population

order by InfectedPercentageOfopulation desc

-- Looking at Countries with hghest death count per population

select location, max(Total\_deaths) as TotalDeathCount

from [Covid Data]..[covid deaths n]

where location not in (select continent from [Covid Data]..[covid deaths n]) and continent != ''

group by location

order by TotalDeathCount desc

-- Looking at Data, grouped by Continents

-- Showing the continets with highest death counts

select location, max(Total\_deaths) as TotalDeathCount

from [Covid Data]..[covid deaths n]

where continent =''

group by location

order by TotalDeathCount desc

-- Global Numbers

select date, sum(new\_cases) as total\_cases,sum(new\_deaths) as total\_deaths, (sum(cast(new\_deaths as float))/sum(cast(new\_cases as float)))\*100 as DeathPercentage

from [Covid Data]..[covid deaths n]

where continent !='' and new\_cases > 0 --(select sum(new\_cases) from [Covid Data]..[covid deaths n]) > 0 --total\_cases != 0 and

group by date

order by 1,2

select sum(new\_cases) as total\_cases , sum(new\_deaths) as total\_deaths, (sum(cast(new\_deaths as float))/sum(cast(new\_cases as float)))\*100 as DeathPercentage

from [Covid Data]..[covid deaths n]

where continent !='' --and new\_cases > 0 --(select sum(new\_cases) from [Covid Data]..[covid deaths n]) > 0 --total\_cases != 0 and

--group by date

order by 1,2

--Covid vaccination table

Select \*

From [Covid Data]..[covid vaccination n]

--Joining Covid Deaths and Covid Vaccination Table

Select \*

From [Covid Data]..[covid deaths n] dea

Join [Covid Data]..[covid vaccination n] vac

on dea.location = vac.location

and dea.date = vac.date

--Looking at total population vs vaccinated

Select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations,

sum(cast(vac.new\_vaccinations as bigint)) over (partition by dea.location order by dea.location, dea.date) as Vaccinated\_till\_date

From [Covid Data]..[covid deaths n] dea

Join [Covid Data]..[covid vaccination n] vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent != ''

--group by dea.location

order by 2,3

-- USE CTE(common table expression)

With PopvsVac (Continent, Location, Date, Population, new\_vaccinations, Vaccinated\_till\_date)

as

(

Select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations,

sum(cast(vac.new\_vaccinations as bigint)) over (partition by dea.location order by dea.location, dea.date) as Vaccinated\_till\_date

From [Covid Data]..[covid deaths n] dea

Join [Covid Data]..[covid vaccination n] vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent != ''

--group by dea.location

--order by 2,3

)

Select \*, ((Vaccinated\_till\_date)/cast(Population as float))\*100

from PopvsVac

-- Using Temp Table

drop table if exists Percent\_Population\_Vaccinated

Create Table Percent\_Population\_Vaccinated

(

Continent nvarchar(255),

Location nvarchar(255),

Date datetime,

Population bigint,

New\_vaccinations bigint,

Vaccinated\_till\_date bigint

)

Insert Into Percent\_Population\_Vaccinated

Select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations,

sum(cast(vac.new\_vaccinations as bigint)) over (partition by dea.location order by dea.location, dea.date) as Vaccinated\_till\_date

From [Covid Data]..[covid deaths n] dea

Join [Covid Data]..[covid vaccination n] vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent != ''

--group by dea.location

--order by 2,3

Select \*, ((Vaccinated\_till\_date)/Population)\*100

from Percent\_Population\_Vaccinated

-- Creating View to store data for later Visualizations

Create View PercentPopulationVaccinated as

Select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations,

sum(cast(vac.new\_vaccinations as bigint)) over (partition by dea.location order by dea.location, dea.date) as Vaccinated\_till\_date

From [Covid Data]..[covid deaths n] dea

Join [Covid Data]..[covid vaccination n] vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent != ''

--group by dea.location

--order by 2,3

Select \*

From PercentPopulationVaccinated

**Queries for Tableau**

Select SUM(new\_cases) as total\_cases, SUM(cast(new\_deaths as int)) as total\_deaths, (SUM(Convert(float,new\_deaths))/Convert(float,SUM(New\_Cases)))\*100 as DeathPercentage

From [Covid Data]..[owid-covid-data (2) flat]

--Where location like '%states%'

where continent is not null

--Group By date

order by 1,2

Select location, SUM(cast(new\_deaths as int)) as TotalDeathCount

From [Covid Data]..[covid deaths n]

--Where location like '%states%'

Where continent = ''

and location not in ('World', 'European Union', 'International')

Group by location

order by TotalDeathCount desc

Select Location, Population, MAX(total\_cases) as HighestInfectionCount, MAX((CONVERT(decimal(20,10), total\_cases)/CONVERT(decimal(20,10), population)))\*100 as PercentPopulationInfected

From [Covid Data]..[covid deaths n]

--Where location like '%states%'

Group by Location, Population

order by PercentPopulationInfected desc

Select Location, Population,date, MAX(total\_cases) as HighestInfectionCount, MAX((CONVERT(decimal(20,10), total\_cases)/CONVERT(decimal(20,10), population)))\*100 as PercentPopulationInfected

From [Covid Data]..[covid deaths n]

--Where location like '%states%'

Group by Location, Population, date

order by PercentPopulationInfected desc

**For New Data**

select \*

from [Covid Data]..[owid-covid-data (2) flat]

order by 2,3

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN total\_deaths bigint

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN total\_cases float

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN population float

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN location varchar(20)

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN Total\_deaths int

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN new\_deaths int

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN new\_cases numeric

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN date date

ALTER TABLE [Covid Data]..[owid-covid-data (2) flat]

ALTER COLUMN date date

Select SUM(try\_cast(new\_cases as float)) as total\_cases, SUM(try\_cast(new\_deaths as float)) as total\_deaths, (SUM(Convert(float,new\_deaths))/SUM(Convert(float,New\_Cases)))\*100 as DeathPercentage

From [Covid Data]..[owid-covid-data (2) flat]

--Where location like '%states%'

where continent is not null

--Group By date

order by 1,2

Select location, SUM(cast(new\_deaths as float)) as TotalDeathCount

From [Covid Data]..[owid-covid-data (2) flat]

--Where location like '%states%'

Where continent = ''

and location not in ('World', 'European Union', 'International')

Group by location

order by TotalDeathCount desc

Select Location, Population, MAX(total\_cases) as HighestInfectionCount, MAX((CONVERT(float, total\_cases)/CONVERT(float, population)))\*100 as PercentPopulationInfected

From [Covid Data]..[owid-covid-data (2) flat]

Where population!=0 -- location like '%states%'

Group by Location, Population

order by PercentPopulationInfected desc

Select Location, Population,date, MAX(total\_cases) as HighestInfectionCount, MAX((CONVERT(decimal(20,10), total\_cases)/CONVERT(decimal(20,10), population)))\*100 as PercentPopulationInfected

From [Covid Data]..[owid-covid-data (2) flat]

Where population!=0 -- location like '%states%'

Group by Location, Population, date

order by 1,PercentPopulationInfected desc