select \*

from PortfolioProject..CovidDeaths

order by 3,4

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

from CovidDeaths

order by 1,2

--Looking at total cases vs total deaths(percentage of people dying against those who are diagnosed)

--shows the likelyhood if you are infected in a particular country

select Location, date, total\_cases,total\_deaths,(total\_deaths/total\_cases)\*100 as DeathPercentage

from CovidDeaths

where Location = 'India'

order by 1,2

---looking at toal cases vs the population of a particular country

--- Change the Location From India To a country whoose data you want

select Location, date, total\_cases,population,(total\_cases/population)\*100 as infectionRate

from CovidDeaths

--where Location = 'India'

order by 1,2

--Finding out which country has the highest infectionRate

select Location,max( total\_cases)as HighestInfectedpeople,population,max ((total\_cases/population)\*100) as infectionRate

from CovidDeaths

group by location,population

order by infectionRate desc

---Showing countries with highest death rate for their population

select Location,population, max(total\_deaths)as TotaldeathCount, max((total\_deaths/population)\*100) as MaxDeathpercentage

From CovidDeaths

group by location,population

order by MaxDeathpercentage desc

--or

select Location,max(cast(total\_deaths as int)) as deathCount

from CovidDeaths

group by location

order by deathCount desc

---Checking out things by continent

select location,max(cast(total\_deaths as int)) as TotalDeathCount

from CovidDeaths

where continent is null

group by location

order by TotalDeathCount desc

---GLOBAL NUMBERS

select sum(new\_cases) as TotalCases,sum (cast(new\_deaths as int)) as TotalDeaths,sum(cast (new\_deaths as int))/sum(new\_cases)\*100 as DeathPercentage

from CovidDeaths

where continent is not null

--group by date

order by 1,2

---Looking at Total population Vs Vaccination

select CovidDeaths.continent,CovidVaccinations.location, CovidDeaths.date, CovidDeaths.population,

CovidVaccinations.new\_vaccinations, sum (cast(CovidVaccinations.new\_vaccinations as int)) over

(partition by CovidDeaths.Location order by CovidDeaths.location,Coviddeaths.date)

as TotalVaccinationofACountry

from CovidDeaths

join CovidVaccinations

on CovidDeaths.location= CovidVaccinations.Location

and CovidDeaths.date=CovidVaccinations.date

where CovidDeaths.continent is not null

order by 2,3

---USING CTE TO FIND OUT VACCINATION RATE USING THE COLUMN WE JUST CREATED

with VaccinationRate(continent,location,date,population,New\_Vaccinations,TotalVaccinationofaCountry)

as

(

select CovidDeaths.continent,CovidVaccinations.location, CovidDeaths.date, CovidDeaths.population,

CovidVaccinations.new\_vaccinations, sum (cast(CovidVaccinations.new\_vaccinations as int)) over

(partition by CovidDeaths.Location order by CovidDeaths.location,Coviddeaths.date)

as TotalVaccinationofACountry

from CovidDeaths

join CovidVaccinations

on CovidDeaths.location= CovidVaccinations.Location

and CovidDeaths.date=CovidVaccinations.date

where CovidDeaths.continent is not null

)

select \*,(TotalVaccinationofaCountry/population)\*100 as VaccinationRate

from VaccinationRate

--select location,max ((TotalVaccinationofaCountry/population)\*100) as VaccinationRate

--from VaccinationRate

--group by location

---TEMP TABLE

create table #PercentPopulationVaccinated

(continent nvarchar (255),

location nvarchar(255),

date datetime,

population bigint,

New\_Vaccinations int,

TotalVaccinationofACountry bigint)

insert into #PercentPopulationVaccinated

select CovidDeaths.continent,CovidVaccinations.location, CovidDeaths.date, CovidDeaths.population,

CovidVaccinations.new\_vaccinations, sum (cast(CovidVaccinations.new\_vaccinations as int)) over

(partition by CovidDeaths.Location order by CovidDeaths.location,Coviddeaths.date)

as TotalVaccinationofACountry

from CovidDeaths

join CovidVaccinations

on CovidDeaths.location= CovidVaccinations.Location

and CovidDeaths.date=CovidVaccinations.date

where CovidDeaths.continent is not null

Select \*,(TotalVaccinationofaCountry/population)\*100 as VaccinationRate

from #PercentPopulationVaccinated