select \*

from articulate-fort-406914.covid\_dataset.Covid\_deaths

order by 3,4

select \*

from articulate-fort-406914.covid\_dataset.Covid\_Vaccination

order by 3,4

--select data that we are going to use

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

from articulate-fort-406914.covid\_dataset.Covid\_deaths

order by 1,2

--looking at total cases vs. total deaths

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

from articulate-fort-406914.covid\_dataset.Covid\_deaths

order by 1,2

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

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where location = "United States"

order by 1,2

--shows likelihood of dying if you contract covid in Pakistan

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

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where location = "Pakistan"

order by 1,2

--looking at total cases vs population

--shows what percentage of population got covid

select location, date,population,  total\_cases,(total\_cases/population)\*100 as Percentpopulationinfected

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where location = "Pakistan"

order by 1,2

--looking at countries with highest infection rate compared to population

select location,population,  max(total\_cases) as highestinfectioncount,max(total\_cases/population)\*100 as Percentpopulationinfected

from articulate-fort-406914.covid\_dataset.Covid\_deaths

group by location,population

order by 1,2

--looking at countries with highest infection rate compared to population

select location,population,  max(total\_cases) as highestinfectioncount,max(total\_cases/population)\*100 as Percentpopulationinfected

from articulate-fort-406914.covid\_dataset.Covid\_deaths

group by location,population

order by Percentpopulationinfected desc

--showing countries with highest death count per population

select location, MAX(total\_deaths) as TotalDeathcount

from articulate-fort-406914.covid\_dataset.Covid\_deaths

group by location

order by TotalDeathcount desc

--showing countries with highest death count per population

select location, MAX(cast(total\_deaths as int)) as TotalDeathcount

from articulate-fort-406914.covid\_dataset.Covid\_deaths

group by location

order by TotalDeathcount desc

--showing countries with highest death count per population

select location, MAX(cast(total\_deaths as int)) as TotalDeathcount

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by location

order by TotalDeathcount desc

--Let's break things down by continent

select continent, MAX(cast(total\_deaths as int)) as TotalDeathcount

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by continent

order by TotalDeathcount desc

--global numbers

select date,sum(new\_cases)

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by date

order by 1,2

select date,sum(new\_cases), sum(cast(new\_deaths as int))

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by date

order by 1,2

select date, sum(new\_cases), sum(cast(new\_deaths as int)), sum(cast(new\_deaths as int))/sum(new\_cases)\*100 as Deathpercentage

from articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by date

order by 1,2

select date, 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 articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

group by date

order by 1,2

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 articulate-fort-406914.covid\_dataset.Covid\_deaths

where continent is not null

--group by date

order by 1,2

….

select \*

from articulate-fort-406914.covid\_dataset.Covid\_Vaccination

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_

select \*

from articulate-fort-406914.covid\_dataset.Covid\_deaths as dec

join articulate-fort-406914.covid\_dataset.Covid\_Vaccination as vac

on dec.location = vac.location

and dec.date = vac.date

………………………………….

--Looking at Total population vs. Vaccinations

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

from articulate-fort-406914.covid\_dataset.Covid\_deaths as dea

join articulate-fort-406914.covid\_dataset.Covid\_Vaccination as vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent is not null

order by 2,3

—-------------------

--Looking at Total population vs. Vaccinations

select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations, sum(cast(vac.new\_vaccinations as int)) OVER (Partition by dea.location order by dea.location, dea.date) as RollingPeopleVaccinated

from articulate-fort-406914.covid\_dataset.Covid\_deaths as dea

join articulate-fort-406914.covid\_dataset.Covid\_Vaccination as vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent is not null

order by 2,3

—------------------

--temp table

Drop table if exists #PercentPopulationVaccinated

CREATE TABLE #PercentPopulationVaccinated

(

  continent nvarchar(255),

  location nvarchar(255),

  date datetime,

  population numeric,

  New\_vaccinations numeric,

  RollingPeopleVaccinated numeric

)

insert into #PercentPopulationVaccinated

select dea.continent, dea.location, dea.date, dea.population, vac.new\_vaccinations, sum(cast(vac.new\_vaccinations as int)) OVER (Partition by dea.location order by dea.location, dea.date) as RollingPeopleVaccinated

from articulate-fort-406914.covid\_dataset.Covid\_deaths as dea

join articulate-fort-406914.covid\_dataset.Covid\_Vaccination as vac

on dea.location = vac.location

and dea.date = vac.date

where dea.continent is not null

select \*, (RollingPeopleVaccinated/Population)\*100

from #PercentPopulationVaccinated