Select \*

From PortfolioProject..CovidDeaths

--Where continent Is Not NULL

Order by 3,4

--Select \*

--From PortfolioProject..CovidVaccinations

--Order by 3,4

-- SELECT TO DEAL WITH

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

From PortfolioProject..CovidDeaths

Order by 1,2

--Total cases Vs Total death

--Likelihood of death in africa

Select location, date, total\_cases, total\_deaths, (total\_deaths/total\_cases) \* 100 as death\_percentage

From PortfolioProject..CovidDeaths

Where location Like 'a%ca'

Order by 1,2

--Total Cases Vs Population

--Shows percentage of population

Select location, date, total\_cases, population, (total\_cases/population) \* 100 as population\_percentage

From PortfolioProject..CovidDeaths

--Where location Like 'a%ca'

Order by 1,2

--Getting country with highest infection rate

Select location, max(total\_cases) as highest\_infection\_count, population, Max(total\_cases/population) \* 100 as max\_population\_percentage

From PortfolioProject..CovidDeaths

Group by location, population

Order by 4 Desc

--Showing Highest death count with location

Select location, max(total\_cases) as highest\_infection\_count, Max(Cast(total\_deaths as int)) as total\_death\_count, Max(total\_deaths/total\_cases) \* 100 as max\_death\_percentage

From PortfolioProject..CovidDeaths

Where Continent is not Null

Group by location, population

Order by 3 Desc

--Breaking down by continent

--Showing Continent with highest death count

--Select location, Max(Cast(total\_deaths as int)) as total\_death\_count

--From PortfolioProject..CovidDeaths

--Where Continent is Null

--Group by location

--Order by 2 Desc

Select continent, Max(Cast(total\_deaths as int)) as total\_death\_count

From PortfolioProject..CovidDeaths

Where Continent is not Null

Group by continent

Order by 2 Desc

--Global Numbers

Select date, SUM(new\_cases) as total\_cases, SUM(Cast(new\_deaths as int)) as total\_death, (SUM(Cast(new\_deaths as int))/Sum(new\_cases)) \* 100 as death\_percentage

From PortfolioProject..CovidDeaths

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\_death, (SUM(Cast(new\_deaths as int))/Sum(new\_cases)) \* 100 as death\_percentage

From PortfolioProject..CovidDeaths

Where continent is not null

--Group by date

Order by 1,2

--Joining Both Tables

Select \*

From PortfolioProject..CovidDeaths dea

Join PortfolioProject..CovidVaccinations vac

on dea.location = vac.location

and dea.date = vac.date

--Looking at total vaccination Vs population

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

, Sum(Convert(int, vac.new\_vaccinations)) OVER (Partition by vac.location Order by vac.location, vac.date) as

rolling\_people\_vaccinated

From PortfolioProject..CovidDeaths dea

Join PortfolioProject..CovidVaccinations vac

on dea.location = vac.location

and dea.date = vac.date

Where dea.continent is not Null

Order by 2, 3

--It is impossible to make use of the data rolling\_pople\_vaccinated just created, hence we use a CTE or a TEMPT TABLE

--Using a CTE

With pop\_vac(continent, location, date, population, new\_vaccinations, rolling\_people\_vaccinated)

as

(

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

, Sum(Convert(int, vac.new\_vaccinations)) OVER (Partition by vac.location Order by vac.location, vac.date) as

rolling\_people\_vaccinated

From PortfolioProject..CovidDeaths dea

Join PortfolioProject..CovidVaccinations vac

on dea.location = vac.location

and dea.date = vac.date

Where dea.continent is not Null

--Order by can not be in a CTE

--Order by 2, 3

)

Select \*, (rolling\_people\_vaccinated/population) \* 100

From pop\_vac

--TEMP TABLE

DROP Table if exists #percentagre\_population\_vaccinated

Create Table #percentagre\_population\_vaccinated(

continent nvarchar(255),

location nvarchar(255),

date datetime,

population numeric,

new\_vaccinations numeric,

rolling\_people\_vaccinated numeric

)

Insert into #percentagre\_population\_vaccinated

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

--value exceeded the range that is supported by the int data type

, Sum(Convert(bigint, vac.new\_vaccinations)) OVER (Partition by vac.location Order by vac.location, vac.date) as

rolling\_people\_vaccinated

From PortfolioProject..CovidDeaths dea

Join PortfolioProject..CovidVaccinations vac

on dea.location = vac.location

and dea.date = vac.date

Where dea.continent is not Null

Order by 2, 3

Select \*, (rolling\_people\_vaccinated/population) \* 100

From #percentagre\_population\_vaccinated

--Creating view to store data for later visualization

Create View TotalDeathsCountPerContinent as

Select continent, Max(Cast(total\_deaths as int)) as total\_death\_count

From PortfolioProject..CovidDeaths

Where Continent is not Null

Group by continent

--Order by 2 Desc