--Selected data with Afg excluded

**Select** \*

**From** CovidDeaths

**Where** continent **is** **not** **null**

**and** iso\_code !='afg'

**order** **by** location

**limit** 100

;

-- Selected Data for only Brazil and Germany

**Select** Location, **date**, total\_cases, new\_cases, total\_deaths, population

**From** CovidDeaths

**Where** continent **is** **not** **null**

**and** total\_deaths !=''

**and** location **like** ('brazil'**and** 'germany')

**order** **by** 1,2

;

-- Performing basic data analysis

-- Percent1ge of Cases vs Total Deaths

-- Shows likelihood of dying if you contract covid in your country

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

**From** CovidDeaths

**Where** location **like** '%states%'

**and** continent **is** **not** **null**

**order** **by** 1,2

;

-- Total Cases vs Population

-- Shows what percentage of population infected with Covid in Germany

**Select** Location, **date**, Population, total\_cases, (total\_cases/population)\*100 **as** PercentPopulationInfected

**From** CovidDeaths

**Where** location **like** '%germany%'

**order** **by** 1,2

;

-- Countries with Highest Infection Rate compared to Population

-- and trimming it to only countries with % greater than 8%

-- why 8%?... just 1 random number :)

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

**From** CovidDeaths

**Group** **by** Location, Population

**HAVING** PercentPopulationInfected>8

**order** **by** PercentPopulationInfected **desc**

-- Countries with Highest Death Count per Population

**Select** Location, **MAX**(**cast**(Total\_deaths **as** **int**)) **as** TotalDeathCount

**From** CovidDeaths

--Where location like '%Brazil%'

**Where** continent **is** **not** **null**

**Group** **by** Location

**order** **by** TotalDeathCount **desc**

-- Analysing by continents

-- Showing contintents with the highest death count per population

**Select** continent, **MAX**(**cast**(Total\_deaths **as** **int**)) **as** TotalDeathCount

**From** CovidDeaths

**Where** continent **is** **not** **null**

**Group** **by** continent

**order** **by** TotalDeathCount **desc**

-- GLOBAL NUMBERS

**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** CovidDeaths

--Where location like '%states%'

**where** continent **is** **not** **null**

--Group By date

**order** **by** 1,2

-- More on the positive side :)

-- Total Population vs Vaccinations

-- Shows Percentage of Population that has recieved at least one Covid Vaccine

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

, **SUM**(**CONVERT**(**int**,vac.new\_vaccinations)) **OVER** (**Partition** **by** dea.Location **Order** **by** dea.location, dea.**Date**) **as** PeopleVaccinated

**From** CovidDeaths dea

**Join** CovidVaccinations vac

**On** dea.location = vac.location

**and** dea.**date** = vac.**date**

**where** dea.continent **is** **not** **null**

**order** **by** 2,3

-- Using CTE to perform Calculation on Partition By in previous query

**With** PopvsVac (Continent, Location, **Date**, Population, New\_Vaccinations, PeopleVaccinated)

**as**

(

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

, **SUM**(**CONVERT**(**int**,vac.new\_vaccinations)) **OVER** (**Partition** **by** dea.Location **Order** **by** dea.location, dea.**Date**) **as** PeopleVaccinated

--, (PeopleVaccinated/population)\*100

**From** CovidDeaths dea

**Join** CovidVaccinations vac

**On** dea.location = vac.location

**and** dea.**date** = vac.**date**

**where** dea.continent **is** **not** **null**

--order by 2,3

)

**Select** \*, (PeopleVaccinated/Population)\*100

**From** PopvsVac

-- Using Temp Table to perform Calculation on Partition By in previous query

**DROP** **Table** **if** **exists** #PercentPopulationVaccinated

**Create** **Table** #PercentPopulationVaccinated

(

Continent nvarchar(255),

Location nvarchar(255),

**Date** datetime,

Population **numeric**,

New\_vaccinations **numeric**,

PeopleVaccinated **numeric**

)

**Insert** **into** #PercentPopulationVaccinated

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

, **SUM**(**CONVERT**(**int**,vac.new\_vaccinations)) **OVER** (**Partition** **by** dea.Location **Order** **by** dea.location, dea.**Date**) **as** PeopleVaccinated

**From** CovidDeaths dea

**Join** CovidVaccinations vac

**On** dea.location = vac.location

**and** dea.**date** = vac.**date**

--where dea.continent is not null

--order by 2,3

**Select** \*, (PeopleVaccinated/Population)\*100

**From** #PercentPopulationVaccinated

-- Creating View to store data for visualizations

**Create** **View** PercentPopulationVaccinated **as**

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

, **SUM**(**CONVERT**(**int**,vac.new\_vaccinations)) **OVER** (**Partition** **by** dea.Location **Order** **by** dea.location, dea.**Date**) **as** PeopleVaccinated

**From** CovidDeaths dea

**Join** CovidVaccinations vac

**On** dea.location = vac.location

**and** dea.**date** = vac.**date**

**where** dea.continent **is** **not** **null**