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

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

WHERE continent is not null

ORDER BY 1, 2

-- Looking at Total 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 `sunny-cider-364523.PortfolioProject.CovidDeath`

WHERE location like '%United States%',

AND continent is not null

ORDER BY 1, 2

-- Looking at Total Cases vs Population

-- Shows what percent of population got Covid

SELECT location, date, population, total\_cases, (total\_cases/population)\*100 as PercentPopulation

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

WHERE location like '%United States%',

AND continent is not null

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 `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%'

WHERE continent is not null

GROUP BY location, population

ORDER BY PercentPopulationInfected desc

-- Showing the countries with the highest death count per population

SELECT location, MAX(cast (total\_deaths as int)) as TotalDeathCount

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%'

WHERE continent is not null

GROUP BY location

ORDER By TotalDeathCount desc

-- Break down by continent

SELECT continent, MAX(cast (total\_deaths as int)) as TotalDeathCount

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%'

WHERE continent is not null

GROUP BY continent

ORDER By TotalDeathCount desc

-- Global Numbers by date

SELECT date, SUM(new\_cases)--, total\_deaths, (total\_deaths/total\_cases)\*100 as DeathPercentage

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%',

WHERE continent is not null

GROUP BY date

ORDER BY 1, 2

-- Global Numbers by date and percent

SELECT date, SUM(new\_cases), SUM(new\_deaths), SUM(new\_deaths)/SUM(new\_cases)\*100 as DeathPercentage

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%',

WHERE continent is not null

GROUP BY date

ORDER BY 1, 2

-- Global Numbers Total

SELECT SUM(new\_cases) as Total\_Cases, SUM(new\_deaths) as Total\_Deaths, SUM(new\_deaths)/SUM(new\_cases)\*100 as Death\_Percentage

FROM `sunny-cider-364523.PortfolioProject.CovidDeath`

--WHERE location like '%United States%',

WHERE continent is not null

--GROUP BY date

ORDER BY 1, 2

-- Joining the two tables together

SELECT \*

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

-- Looking at total Population vs New Vax per day

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

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

ORDER BY 1, 2

-- Looking at total Population vs New Vax per day

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)

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

AND dea.location like '%Albania%' --Checked my work since Africa either under-reports or reports at once

ORDER BY 1, 2

-- Looking at total Population vs New Vax per day

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 RollingPeopleVax

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

--AND dea.location like '%Albania%' --Checked my work since Africa either under-reports or reports at once

ORDER BY 1, 2

-- Creating a temp table

WITH PopsvsVac AS

(

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 RollingPeopleVax,

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

)

SELECT \*

From PopsvsVac

-- Creating a temp table w/ percent

WITH PopsvsVac AS

(

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 RollingPeopleVax,

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

--and dea.location like '%Albania%'

)

SELECT \*, (RollingPeopleVax/Population)\*100

From PopsvsVac

-- TEMP TABLE \*\*will not work in BigQuery as it does not support this function, will work in MicrosoftSQL

DROP Table if exists #PercentPopulationVax

CREATE TABLE #PercentPopulationVax

(

Continent nvarchar(255),

location nvarchar(255),

date datetime,

population numeric,

new\_vaccinations numeric,

RollingPeopleVax numeric

)

INSERT INTO #PercentPopulationVax

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 RollingPeopleVax,

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null

--and dea.location like '%Albania%'

SELECT \*, (RollingPeopleVax/Population)\*100

From #PercentPopulationVax

--Creates view in MicrosoftSql but not big query, creates a permanent table in the view toolbar on the left

Create View PercentPopulationVax as

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 RollingPeopleVax,

FROM `sunny-cider-364523.PortfolioProject.CovidDeath` as dea

JOIN `sunny-cider-364523.PortfolioProject.CovidVax` as vac

ON dea.location = vac.location

and dea.date = vac.date

WHERE dea.continent is not null