COVID

--First I wanted to check that I had imported the data correctly and so I selected all of the data from the COVIDdeaths table

```
SELECT *
FROM COVID2023.COVIDdeaths order by 3,4

SELECT *
FROM COVID2023.COVIDvaccine order by 3,4

--Select data we are going to be using for the project

SELECT location, date, total_cases, new_cases, total_deaths, population
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths`
order by 1,2

--Now I want to examine the total cases vs the total deaths; showing the likelihood of death from contracting COVID in a given nation

SELECT location, date, total_cases, total_deaths, population,
(total_deaths/total_cases)*100 as Death_Percentage
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths`
order by 1,2

--looking at total cases vs population, what percentage of people in a given country contracted COVID

SELECT location, date, total_cases, population, (total_cases/population)*100 as percent
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths`
order by 1,2

--Now I wanted to examine the countries with the highest infection rate.
```

```sql
SELECT location, MAX(total_cases) as highestinfectioncount, population,
MAX((total_cases/population))*100 as percentinfected
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths`
GROUP BY location, population
ORDER BY percentinfected desc

--Showing continents with highest death count per population

SELECT continent, MAX(cast(total_deaths as int)) as totaldeathcount,
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths`
WHERE continent is not null
GROUP BY continent
ORDER BY totaldeathcount desc

-- Join two tables to get statistics on deaths post vaccines being available

SELECT *
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths` dea
JOIN `vertical-cirrus-370920.COVID2023.COVIDvaccine` vac
ON dea.location = vac.location
And dea.date = vac.date

-- Now I want to examine the total number of people globally that have been vaccinated
against covid

With popvsvac (continent, location, date, population, new_vaccinations,
rollingpplvaccineated)
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 rollingpplvaccineated
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths` dea
JOIN `vertical-cirrus-370920.COVID2023.COVIDvaccine` vac
ON dea.location = vac.location
And dea.date = vac.date
```

```
WHERE dea.continent is not null
ORDER BY 1,2,3     )

SELECT *, (rollingpplvaccineated/population) * 100

FROM popvsvac

-- Creating view to store data for later visualization

CREATE VIEW COVID2023.PP 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 rollingpplvaccineated
FROM `vertical-cirrus-370920.COVID2023.COVIDdeaths` dea
JOIN `vertical-cirrus-370920.COVID2023.COVIDvaccine` vac
ON dea.location = vac.location
And dea.date = vac.date
```