```
-- This is a data set that was downloaded by https://ourworldindata.org/covid-cases &
https://ourworldindata.org/covid-deaths.
-- Data Exploration will begin with a query to see if the dataset is uploaded.
SELECT *
FROM `project-000-392922.CDD.covid_data_death`
-- Since we have our data uploaded we can answer a few questions using the dataset.
## REFERENCE OUERY
SELECT location, date, total_cases, new_cases, total_deaths, population
FROM `project-000-392922.CDD.covid_data_death`
ORDER BY 1,2
//
-- 1. Total Cases vs Total Deaths
-- What is the percent of people who died of Covid in the United States ?
SELECT location, date, total_cases, total_deaths, (total_deaths/total_cases) * 100 as
Death_Percentage
FROM `project-000-392922.CDD.covid_data_death`
Where location like '%State%' AND location is not null
ORDER BY 1,2 DESC
## Comment: DESC is placed to see the current death percentage of people who died from
Covid.
//
```

-- 2. Total Cases vs Population

```
-- What is the Percent on the poulation of people who got Covid in the United States?
SELECT location, date, total_cases, population, (total_cases/population) * 100 as
Percent_of_Population_with_Covid
FROM `project-000-392922.CDD.covid_data_death`
Where location like '%State%' AND location is not null
ORDER BY 1.2 DESC
//
-- 3. Countries Infection/Death Rate
-- 3A. Which Country has the Highest Infection rate in comparrison to population ?.
SELECT location, population, MAX(total_cases) AS Highest_Infection_Count,
MAX(total_cases)/(population) * 100 as Percent_of_Population_Infected
FROM `project-000-392922.CDD.covid_data_death`
Where location is not null
GROUP BY location, population
ORDER BY Percent_of_Population_Infected DESC
## Comments: In order to find the Highest Infection rate I aggrigated the function
where we can have the MAX total of cases representing the Infection count. To Keep the
Table organized before a Query, its best to use the GROUP BY on location and
population. To find Which location has the Highest Infection rate in comparison to
population. DESC is used in the ORDER BY clause to see the the highest percent of
population infected within the location.
--3B. Which countries has the highest death count?
SELECT location, MAX(total_deaths) AS Total_Death_Count
FROM `project-000-392922.CDD.covid_data_death`
Where continent is not null AND location is not null
GROUP BY location
```

#Comment: In the Data set there where some nulls that affected the grouping of location and continent. With the WHERE clause its best to have continent and location is not null. With all other script its best to have that Where clause to insure data integrity on accurate results from functions.

```
--3C. Which Continent has the Higheset Death Count?
SELECT continent, MAX(total_deaths) AS Total_Death_Count
FROM `project-000-392922.CDD.covid_data_death`
Where continent is not null AND location is not null
GROUP BY continent
ORDER BY Total Death Count DESC
//
-- 4.Total Population vs Vaccinations.
-- What is the Global percent of people who are vaccinated?.
--PART 1/2 A TEMP TABLE will be created because the system cannot use a column that is
just created to have it used in a next column. So when creating a TEMP TABLE a
PARTITION is need for location and date. Once SQL reaches a new location we want the
system to reset the count. Once our Aggrigated function is applied it will not
continuously run where our numbers are ruined. An INSERT INTO funciton will be applied
to connnect the TEMPORARY TABLE with two different dataset. JOIN function will be used
to execute this query.
CREATE OR REPLACE TEMP TABLE POPVSVAC
continent string,
location string,
date datetime.
```

```
population FLOAT64,
new_vaccinations FLOAT64,
People_Vaccinated FLOAT64);
INSERT INTO POPVSVAC
SELECT A.continent, A.location, A.date, A.population, B.new_vaccinations,
Sum(B.new_vaccinations) OVER (PARTITION BY A.location ORDER BY A.location, A.date) as
People_Vaccinated
FROM `project-000-392922.CDD.covid_data_cases` B
JOIN `project-000-392922.CDD.covid_data_death` A
on B.location=A.location AND B.date = A.date
where A.continent is not null
-- PART 2/2 After creating a TEMP TABLE we can now find the percent of population who
are vaccinated.
SELECT *, (People_Vaccinated)/(population)*100 AS Global_Percent
FROM `project-000-392922._scriptcd5139e2214133ebf0955165d99a9611ef042ecb.POPVSVAC`
Where continent is not null AND location is not null
ORDER BY continent
//
# This query will result in percentage of people who are vaccinated in different
location of the continent.
# A rolling number will apprear in the query that adds its total Global Percentage of
people who are vaccinated.
-- Creating View to store Data for later Visualizations
CREATE VIEW IF NOT EXISTS
`project-000-392922._scriptcd5139e2214133ebf0955165d99a9611ef042ecb.POPVSVAC` As
SELECT A.continent, A.location, A.date, A.population, B.new_vaccinations,
Sum(B.new_vaccinations) OVER (PARTITION BY A.location ORDER BY A.location, A.date) as
People_Vaccinated
FROM `project-000-392922.CDD.covid_data_cases` B
JOIN `project-000-392922.CDD.covid_data_death` A
```

on B.location=A.location AND B.date = A.date
where A.continent is not null