```
--test fields in the database
Select *
From COVID_19.dbo.CovidDeaths$
Where continent is not null
order by location, date
-- Select Data that we are going to be starting with and order the content
Select Location, date, total cases, new cases, total deaths, population
From COVID 19..CovidDeaths$
Where continent is not null
order by 1,2
-- 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 COVID_19..CovidDeaths$
Where location like '%Egypt%' and continent is not null
order by 1,2
-- The percentage of death in EGYPT
-- Shows what percentage of population infected with Covid
SELECT Location, date, Population, total_cases, (total_cases/population)*100 as
PercentPopulationInfected
From COVID_19..CovidDeaths$
Where location like '%Egypt%'
order by 1,2
--Infection Rate compared to Population in Egypt
Select Location, Population, MAX(total cases) as HighestInfection,
Max((total cases/population))*100 as PercentPopulationInfected
From COVID_19..CovidDeaths$
Where location like '%Egypt%'
Group by Location, Population
order by PercentPopulationInfected desc
-- death count in Egypt
Select Location, MAX(cast(Total deaths as int)) as TotalDeathCount
From COVID_19..CovidDeaths$
Where location like '%Egypt%' and continent is not null
Group by Location
order by TotalDeathCount desc
-- Countries with Highest Death Count per Population
Select Location, MAX(cast(Total deaths as int)) as TotalDeathCount
From COVID 19..CovidDeaths$
Where continent is not null
Group by Location
order by TotalDeathCount desc
```

```
-- BREAKING THINGS DOWN BY CONTINENT
-- Showing contintents with the highest death count per population
Select continent, MAX(cast(Total deaths as int)) as TotalDeathCount
From COVID 19..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 COVID 19..CovidDeaths$
where continent is not null
Group By date
order by 1,2
-- Total Population vs Vaccinations
-- Shows Percentage of Population that has recieved at least one Covid Vaccine
Select death.continent, death.location, death.date, death.population,
vaccin.new_vaccinations
, SUM(CONVERT(int,vaccin.new_vaccinations)) OVER (Partition by death.Location
Order by death.location, death.Date) as RollingPeopleVaccinated
From COVID 19..CovidDeaths$ death
Join COVID_19..CovidVaccination$ vaccin
      On death.location = vaccin.location
       and death.date = vaccin.date
where death.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,
RollingPeopleVaccinated)
as
Select death.continent, death.location, death.date, death.population,
vaccin.new_vaccinations
, SUM(CONVERT(int,vaccin.new_vaccinations)) OVER (Partition by death.Location
Order by death.location, death.Date) as RollingPeopleVaccinated
From COVID 19..CovidDeaths$ as death
Join COVID 19..CovidVaccination$ as vaccin
       On death.location = vaccin.location
       and death.date = vaccin.date
where death.continent is not null
Select *, (RollingPeopleVaccinated/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,
RollingPeopleVaccinated numeric
Insert into #PercentPopulationVaccinated
Select death.continent, death.location, death.date, death.population,
vaccin.new vaccinations
, SUM(CONVERT(int,vaccin.new_vaccinations)) OVER (Partition by death.Location
Order by death.location, death.Date) as RollingPeopleVaccinated
From COVID 19..CovidDeaths$ as death
Join COVID 19..CovidVaccination$ as vaccin
      On death.location = vaccin.location
      and death.date = vaccin.date
Select *, (RollingPeopleVaccinated/Population)*100
From #PercentPopulationVaccinated
-- Creating View to store data for later visualizations
Create View PercentPopulationVaccinated as
Select death.continent, death.location, death.date, death.population,
vaccin.new vaccinations
, SUM(CONVERT(int,vaccin.new_vaccinations)) OVER (Partition by death.Location
Order by death.location, death.Date) as RollingPeopleVaccinated
From COVID_19..CovidDeaths$ as death
Join COVID 19..CovidVaccination$ as vaccin
      On death.location = vaccin.location
       and death.date = vaccin.date
where death.continent is not null
```