

```
SELECT * FROM Myportfolioproject..DeathsCovid
SELECT * FROM Myportfolioproject..DeathsCovid ORDER BY 3,4
--Select * from MyPortfolioProject..VaccinationsCovid
```

```
SELECT location, date , total_cases, new_cases, total_deaths, population
FROM Myportfolioproject..DeathsCovid
ORDER BY 1,2
```

```
--Total case Vs total deaths--
```

```
SELECT location, date , total_cases, total_deaths, (total_deaths/total_cases)*100  ↗
    as DeathPercentage
FROM Myportfolioproject..DeathsCovid
WHERE location Like '%states%'
ORDER BY 1,2
```

```
--Total cases Vs population--
```

```
--shows no of people affected by covid--
```

```
SELECT location, date ,population, total_cases, (total_cases/population)*100 as  ↗
    PercentPopulation
FROM Myportfolioproject..DeathsCovid
where continent is not null
--WHERE location Like '%states%'
ORDER BY 1,2
```

```
--countries with high infection rates compared to population--
```

```
SELECT location,population, MAX(total_cases) as highInfectionRate, MAX  ↗
    ((total_cases/population))*100 as PercentPopulation
FROM Myportfolioproject..DeathsCovid
where continent is not null
--WHERE location Like '%states%'
GROUP BY location,population
ORDER BY PercentPopulation desc
```

```
--countries with highest death count per population--
```

```
SELECT location, MAX(cast(total_deaths as int)) as TotalDeathCount
FROM Myportfolioproject..DeathsCovid
where continent is not null
GROUP BY location
ORDER BY TotalDeathCount desc
```

```
SELECT * FROM Myportfolioproject..DeathsCovid
where continent is not null
ORDER BY 3,4
```

```
--Data by Continent--
```

```
SELECT continent, MAX(cast(total_deaths as int)) as TotalDeathCount
FROM Myportfolioproject..DeathsCovid
where continent is not null
```

```
GROUP BY continent
ORDER BY TotalDeathCount desc
--correction error of non-inclusion of canada and other north american states into
continent north america--
SELECT location, MAX(cast(total_deaths as int)) as TotalDeathCount
FROM Myportfoliopproject..DeathsCovid
where continent is null
GROUP BY location
ORDER BY TotalDeathCount desc

SELECT continent, MAX(cast(total_deaths as int)) as TotalDeathCount
FROM Myportfoliopproject..DeathsCovid
where continent is not null
GROUP BY continent
ORDER BY TotalDeathCount desc

--Global Numbers--
SELECT location, date , total_cases, total_deaths, (total_deaths/total_cases)*100 as
DeathPercentage
FROM Myportfoliopproject..DeathsCovid
where continent is not null
--WHERE location Like '%states%'
ORDER BY 1,2

--changing dataType of new_deaths to int from varchar--
SELECT date ,SUM(new_cases) as TotalCases, SUM(cast(new_deaths as int)) as
TotalDeaths
, SUM(cast(new_deaths as int))/SUM(new_cases)*100 as deathPercentage --,
(total_cases/population)*100 as PercentPopulation
FROM Myportfoliopproject..DeathsCovid
where continent is not null
--WHERE location Like '%states%'
GROUP BY date
ORDER BY 1,2

--overall figures--
SELECT SUM(new_cases) as TotalCases, SUM(cast(new_deaths as int)) as TotalDeaths
, SUM(cast(new_deaths as int))/SUM(new_cases)*100 as deathPercentage --,
(total_cases/population)*100 as PercentPopulation
FROM Myportfoliopproject..DeathsCovid
where continent is not null
ORDER BY 1,2

SELECT * FROM MyPortfolioProject..VaccinationsCovid

--joining covid deaths and vaccinations tables--
SELECT *
FROM Myportfoliopproject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
```

```
ON dea.location = vac.location
AND dea.date = vac.date
```

```
-- Total population Vs Vaccinations--
```

```
SELECT dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
FROM MyportfolioProject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
ON dea.location = vac.location
AND dea.date = vac.date
WHERE dea.continent is not null
ORDER BY 2, 3
```

```
--Cummulative sum of vaccinations location wise --
```

```
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 RollingPeopleVaccinated
FROM MyportfolioProject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
ON dea.location = vac.location
AND dea.date = vac.date
WHERE dea.continent is not null
ORDER BY 2, 3
```

```
--USE CTE--
```

```
WITH PopVsVac(continent, location, date, population, new_vaccinations,
      RollingPeopleVaccinated)
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 RollingPeopleVaccinated
FROM MyportfolioProject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
ON dea.location = vac.location
AND dea.date = vac.date
WHERE dea.continent is not null
--ORDER BY 2, 3
)
```

```
SELECT *, (RollingPeopleVaccinated/population)*100 FROM PopVsVac
```

```
--TEMP TABLE--
```

```
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 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 RollingPeopleVaccinated
FROM Myportfoliopproject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
ON dea.location = vac.location
AND dea.date = vac.date
WHERE dea.continent is not null
--ORDER BY 2, 3
SELECT *, (RollingPeopleVaccinated/population)*100 FROM
      #PercentPopulationVaccinated

--Creating view to store data for later visualization--

CREATE VIEW PopulationVaccinated_2 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 RollingPeopleVaccinated
FROM Myportfoliopproject..DeathsCovid dea
JOIN MyPortfolioProject..VaccinationsCovid vac
ON dea.location = vac.location
AND dea.date = vac.date
WHERE dea.continent is not null
--ORDER BY 2, 3

SELECT * FROM PopulationVaccinated_2
```