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/*
Covid 19 Data Exploration

Skills used: Joins, CTE's, Temp Tables, Windows Functions,
Aggregate Functions, Creating Views, Converting Data Types

*/

Select *
From PortfolioProject..CovidDeaths
Where continent is not null
order by 3,4


-- Select Data

Select Location, date, total_cases, new_cases, total_deaths,
population
From PortfolioProject..CovidDeaths
Where continent is not null
order by 1,2


-- Shows likelihood of dying if you contract covid in your
country (Total Cases vs Total Deaths)

Select Location, date, total_cases,total_deaths,
(total_deaths/total_cases)*100 as DeathPercentage
From PortfolioProject..CovidDeaths
Where location like '%states%'
and continent is not null
order by 1,2


-- Shows what percentage of population infected with Covid
(Total Cases vs Population)

Select Location, date, Population, total_cases,
(total_cases/population)*100 as PercentPopulationInfected
From PortfolioProject..CovidDeaths
--Where location like '%states%'
order by 1,2
```

```
-- Countries with Highest Infection Rate compared to Population

Select Location, Population, MAX(total_cases) as
HighestInfectionCount,  Max((total_cases/population))*100 as
PercentPopulationInfected
From PortfolioProject..CovidDeaths
--Where location like '%states%'
Group by Location, Population
order by PercentPopulationInfected desc


-- Countries with Highest Death Count per Population

Select Location, MAX(cast(Total_deaths as int)) as
TotalDeathCount
From PortfolioProject..CovidDeaths
--Where location like '%states%'
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 PortfolioProject..CovidDeaths
--Where location like '%states%'
Where continent is not null
Group by continent
order by TotalDeathCount desc
```