Project 2 on SQL

SELECT\*

FROM [PORTFOLIO PROJECT]..CovidDeaths$

Where continent is not null

ORDER BY 3,4

-- Looking at tolat-cases vs total-death

SELECT location, date, total\_cases,total\_deaths, (total\_deaths/total\_cases) \* 100 as DeathPercentage

FROM [PORTFOLIO PROJECT]..CovidDeaths$

Where location like '%kingdom%'

and continent is not null

ORDER BY 1,2

--Looking at total-cases vs population

SELECT location, date, population,total\_cases, (total\_cases/population) \* 100 as populationPercentage

FROM [PORTFOLIO PROJECT]..CovidDeaths$

Where location like '%kingdom%'

and continent is not null

ORDER BY 1,2

-- Showing countries with the highest infection rate compared to population

SELECT location, population

,MAX (total\_cases)as highestInfectionCount

, MAX((total\_cases/population)) \* 100 as PercentPopulationInfected

FROM [PORTFOLIO PROJECT].dbo.CovidDeaths$

--Where location like '%KINGDOM%'

GROUP BY location,population

ORDER BY PercentPopulationInfected DESC

--Showing countries with the highest death count per population

SELECT location, MAX(cast(total\_deaths as int)) AS TotalDeathCount

FROM [PORTFOLIO PROJECT].dbo.CovidDeaths$

--Where location like '%KINGDOM%'

Where continent is not null

GROUP BY location

ORDER BY TotalDeathCount DESC

-- Breaking things down by continent

SELECT continent, MAX(cast(total\_deaths as int)) AS TotalDeathCount

FROM [PORTFOLIO PROJECT].dbo.CovidDeaths$

--Where location like '%KINGDOM%'

Where continent is not null

GROUP BY continent

ORDER BY TotalDeathCount DESC

--Showing the continent with the highest death count per population

SELECT continent, MAX(cast(total\_deaths as int)) AS TotalDeathCount

FROM [PORTFOLIO PROJECT].dbo.CovidDeaths$

--Where location like '%KINGDOM%'

Where continent is not null

GROUP BY continent

ORDER BY TotalDeathCount DESC

--Global Numbers~

SELECT date

,SUM( new\_cases) Total\_Cases

,SUM(CAST(new\_deaths AS INT)) as Total\_Death

,SUM(CAST(new\_deaths AS INT))/SUM( new\_cases) AS DeathPercentage

FROM [PORTFOLIO PROJECT].dbo.CovidDeaths$

--Where location like '%KINGDOM%'

Where continent is not null

GROUP BY date

ORDER BY 1,2

--Showing Total population Vs Vaccination

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

--,ROLLINGPEOPLEVACCINATED

FROM [PORTFOLIO PROJECT]..CovidDeaths$ DEA

JOIN [PORTFOLIO PROJECT]..CovidVaccinations$ 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

--,ROLLINGPEOPLEVACCINATED

FROM [PORTFOLIO PROJECT]..CovidDeaths$ DEA

JOIN [PORTFOLIO PROJECT]..CovidVaccinations$ VAC

ON DEA.location = VAC.location

AND DEA.date = VAC.date

WHERE DEA.continent IS NOT NULL

)

SELECT\*,(ROLLINGPEOPLEVACCINATED/population)\*100

FROM PopvsVac

--TEMP TABLE

--DROP TABLE if exists #PERCENTPOPULATIONVACCINATED (helps run the table mutiple times incase new features need to b added)

CREATE TABLE #PERCENTPOPULATIONVACCINATED

(

CONTINENT nvarchar(255)

,location nvarchar(255)

,date datetime

,population numeric

,new\_vaccination 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

--,ROLLINGPEOPLEVACCINATED

FROM [PORTFOLIO PROJECT]..CovidDeaths$ DEA

JOIN [PORTFOLIO PROJECT]..CovidVaccinations$ 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

CREATE VIEW PopulationVaccinated 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

--,ROLLINGPEOPLEVACCINATED

FROM [PORTFOLIO PROJECT]..CovidDeaths$ DEA

JOIN [PORTFOLIO PROJECT]..CovidVaccinations$ VAC

ON DEA.location = VAC.location

AND DEA.date = VAC.date

WHERE DEA.continent IS NOT NULL

--ORDER BY 2,3

)

select\*

FROM PopulationVaccinated