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SELECT
    *
FROM
    covid-deaths-323215.covid_deaths.covid_deaths;
SELECT
    Location,
    date,
    total_cases,
    total_deaths,
    (total_cases/population)*100 AS DeathPercentage
FROM
    covid-deaths-323215.covid_deaths.covid_deaths
WHERE
    location = 'United States'
ORDER BY
    1,
    2;
--Looking at Total Cases vs the Population
-- Shows what percentage of population got covid

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SELECT
    Location,
    date,
    total_cases,
    population,
    (population/total_cases)*100 AS PercentagePopulationInfected
FROM
    covid-deaths-323215.covid_deaths.covid_deaths
WHERE
    location = 'United States'
ORDER BY
    1,
    2;
--Looking at Countries with Highest Infection Rate compared to Population
SELECT
    Location,
    Population,

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MAX(total_cases) AS HighestInfection,
MAX((population/total_cases))*100 AS PercentagePopulationInfected
FROM
covid-deaths-323215.covid_deaths.covid_deaths
GROUP BY
Location,
Population
ORDER BY
PercentagePopulationInfected DESC;
--Country with highest deth count per population
SELECT
Location,
MAX(total_deaths) AS TotalDeathCount
FROM
covid-deaths-323215.covid_deaths.covid_deaths
--WHERE Location = 'United States'
WHERE
continent IS NOT NULL
GROUP BY
Location
ORDER BY
TotalDeathCount DESC;
--BY CONTINTNENT
SELECT
location,
MAX(total_deaths) AS TotalDeathCount
FROM
covid-deaths-323215.covid_deaths.covid_deaths
--WHERE Location = 'United States'
WHERE
continent IS NULL
GROUP BY
location
ORDER BY
TotalDeathCount DESC;
--GLOBAL NUMBERS

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SELECT
    SUM(new_cases) AS total_cases,
    SUM(new_deaths) AS total_deaths,
    SUM(new_deaths)/SUM(new_cases)*100 AS DeathPercentage --total_cases, total_deaths,
    (total_cases/population)*100 as DeathPercentage
FROM
    covid-deaths-323215.covid_deaths.covid_deaths
    --WHERE location = 'United States'
WHERE
    continent IS NOT NULL
    --group by date
ORDER BY
    1,
    2;
    --Looking at Total Population vs Vaccinations
SELECT
    dea.continent,
    dea.location,
    dea.date,
    dea.population,
    vac.new_vaccinations,
    SUM(vac.new_vaccinations) OVER (PARTITION BY dea.location ORDER BY dea.location,
    dea.date) AS RollingPeopleVaccinated
FROM
    covid-deaths-323215.covid_deaths.covid_deaths dea
JOIN
    covid-deaths-323215.covid_deaths.covid_vaccinations vac
ON
    dea.location = vac.location
    AND dea.date = vac.date
WHERE
    dea.continent IS NOT NULL
ORDER BY
    2,
    3;
    --USE CTE

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WITH
PopsvsVacs AS (
SELECT
    dea.continent,
    dea.location,
    dea.date,
    dea.population,
    vac.new_vaccinations,
    SUM(vac.new_vaccinations) OVER (PARTITION BY dea.location ORDER BY dea.location,
dea.date) AS RollingPeopleVaccinated
FROM
    covid-deaths-323215.covid_deaths.covid_deaths dea
JOIN
    covid-deaths-323215.covid_deaths.covid_vaccinations 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
PopsvsVacs;
--TEMP TABLE
--DROP TABLE if exists
`covid-deaths-323215.covid_deaths.PercentagePopulationVaccinated`
CREATE TABLE
`covid-deaths-323215.covid_deaths.PercentagePopulationVaccinated` ( Continent STRING,
    Location STRING,
    Date datetime,
    Population numeric,
    new_vaccinations numeric,
    RollingPeopleVaccinated numeric,

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    ) ;
INSERT INTO
    `covid-deaths-323215.covid_deaths.PercentagePopulationVaccinated`
SELECT
    dea.continent,
    dea.location,
    dea.date,
    dea.population,
    vac.new_vaccinations,
    SUM(vac.new_vaccinations) OVER (PARTITION BY dea.location ORDER BY dea.location,
    dea.date) AS RollingPeopleVaccinated
FROM
    covid-deaths-323215.covid_deaths.covid_deaths dea
JOIN
    covid-deaths-323215.covid_deaths.covid_vaccinations vac
ON
    dea.location = vac.location
    AND dea.date = vac.date
WHERE
    dea.continent IS NOT NULL ;
--order by 2,3
--execute temp table first
SELECT
    *,
    (RollingPeopleVaccinated/Population)*100
FROM
    `covid-deaths-323215.covid_deaths.PercentagePopulationVaccinated`;

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