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|  | Covid 19 Data Exploration |
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|  | Skills used: Data Exploration, CTE's, Temp Tables, Windows Functions, Aggregate Functions |
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--Creating a new table with data inclusive for Europe

CREATE TABLE covid\_eu.europe AS

SELECT \*

FROM

`covid-eu.covid\_eu.world`

WHERE continent = "Europe"

--Previewing our desired table

SELECT \*

FROM `covid-eu.covid\_eu.europe`

ORDER BY 3,4

-- Exploring the probability of death when infected

SELECT

Location,date,total\_cases,total\_deaths,(total\_deaths/total\_cases)\*100 AS death\_percent

FROM

`covid-eu.covid\_eu.europe`

ORDER BY 1,2

--Exploring the percentile of countries population infected in Europe

SELECT

Location, population, MAX(total\_cases) AS overall\_infected, (MAX(total\_cases/population)\*100) AS infected\_percentage

FROM

`covid-eu.covid\_eu.europe`

GROUP BY Location, population

ORDER BY 4 DESC

--We can see that Cyprus is the highly affected country in Europe in comparison with Population

--To visualize total cases around dates

SELECT

Location, date,population, total\_cases, total\_cases/population AS percentage\_cases

FROM

`covid-eu.covid\_eu.europe`

ORDER BY 1,2

--Now lets find out the total cases and Deaths across all of the Europe

WITH z

AS

(

SELECT location, max(total\_cases) AS a ,MAX(total\_deaths) AS b

FROM `covid-eu.covid\_eu.europe`

GROUP BY location

)

SELECT

SUM(a) AS europe\_cases, SUM(b) AS europe\_deaths, SUM(b)/SUM(a)\*100 AS death\_percent

FROM z

--pov: I just now found Russia is half European - Still in shock!

--Lets find the percentage of people vaccinated in Europe

WITH x

AS

(

SELECT

location, date, new\_vaccinations, SUM(new\_vaccinations) OVER (PARTITION BY location ORDER BY location,date) AS inc\_vaccinations, population

FROM

`covid-eu.covid\_eu.europe`

)

SELECT

SUM(DISTINCT population) AS overall\_population, MAX (inc\_vaccinations) AS overall\_vaccinations, (MAX (inc\_vaccinations))/SUM(DISTINCT population)\*100 AS vaccination\_percentage

FROM x

--The visualization for the project is available in my website