

COVID-19

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1  --Total cases vs total deaths
2  SELECT location, date, total_cases, total_deaths, population, (total_deaths/total_cases) *
   100 as DeathsPercentagePL
3  FROM Covid_data..CovidDeaths
4  WHERE location = 'Poland'
5
6  --Higest death ratio
7  SELECT TOP 1 location, date, total_cases, total_deaths, population,
   (total_deaths/total_cases) * 100 as DeathsPercentagePL
8  FROM Covid_data..CovidDeaths
9  WHERE location = 'Poland'
10 ORDER BY DeathsPercentagePL DESC
11
12
13 --Percentage of population who got covid in Poland
14 SELECT location, date, total_cases, population, (total_cases/population) * 100 as
   TotalPercentage
15 FROM Covid_data..CovidDeaths
16 WHERE location = 'Poland'
17 ORDER BY 1,2
18
19
20 --Countries with highest infection rate compared to population
21 SELECT location, MAX(total_cases) AS HigestInfeCount, population,
   MAX((total_cases/population)) * 100 as TotalPercentage
22 FROM Covid_data..CovidDeaths
23 GROUP BY location, population
24 ORDER BY TotalPercentage DESC
25
26
27 --Higest deaths count per population by country
28 SELECT location, MAX(cast (total_deaths as int)) AS TotalDeathCount
29 FROM Covid_data..CovidDeaths
30 WHERE continent is not null
31 GROUP BY location
32 ORDER BY TotalDeathCount DESC
33
34 --Higest deaths count per population by country
35 SELECT continent, MAX(cast (total_deaths as int)) AS TotalDeathCount
36 FROM Covid_data..CovidDeaths
37 WHERE continent is not null
38 GROUP BY continent
39 ORDER BY TotalDeathCount DESC
40
41 --Sum of vaccinated people by country
42 SELECT d.continent, d.location, d.date, d.population, v.new_vaccinations,
   SUM(cast (v.new_vaccinations as int)) OVER (Partition by d.location)
43 FROM Covid_data..CovidDeaths d
44 JOIN Covid_data..CovidVaccinations v
45 ON d.location = v.location
46 AND d.date = v.date
47 WHERE d.continent is not null
48 ORDER BY 2,5
49
50
51
52
53

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54 --Biggest new case number in each country
55 SELECT location, "Higest_case_num"
56 FROM (
57     SELECT location,
58         MAX(new_cases) OVER (PARTITION BY location) AS "Higest_case_num",
59         ROW_NUMBER() OVER (PARTITION BY location ORDER BY new_cases DESC) AS row_num
60     FROM Covid_data..CovidDeaths
61 ) ranked_data
62 WHERE row_num = 1
63 ORDER BY location ASC;
64
65 --Determining if a country has a high level of vaccinated population
66 WITH VaccinationData AS (
67     SELECT d.location,
68         (SUM(v.new_vaccinations) OVER (PARTITION BY d.location) / d.population * 100) AS
69 "Vaccined_Percent"
70     FROM Covid_data..CovidDeaths d
71     JOIN Covid_data..CovidVaccinations v
72     ON d.location = v.location
73     AND d.date = v.date
74     WHERE v.new_vaccinations IS NOT NULL
75 )
76 SELECT DISTINCT location,
77     "Vaccined_Percent",
78     CASE
79         WHEN "Vaccined_Percent" > 70 THEN 'HIGH'
80         WHEN "Vaccined_Percent" BETWEEN 40 AND 70 THEN 'MEDIUM'
81         ELSE 'LOW'
82     END AS "Vaccined_level"
83 FROM VaccinationData
84 ORDER BY location DESC;
85
86
```