Dataset Covid 19 geographic distribution worldwide

Step 1: Exploring the dataset

1. What columns are there and what is the data type?

Field name	Туре
date	DATE
day	INTEGER
month	INTEGER
year	INTEGER
daily_confirmed_cases	INTEGER
daily_deaths	INTEGER
confirmed_cases	INTEGER
deaths	INTEGER
countries_and_territories	STRING
geo_id	STRING
country_territory_code	STRING
pop_data_2019	INTEGER

2. How does the table look like?

SELECT

FROM

'bigquery-public-data.covid19 ecdc.covid 19 geographic distribution worldwide'

3. Get a list of all countries available in the dataset

SELECT

DISTINCT countries_and_territories

FROM

`bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide` ORDER BY

countries_and_territories DESC;

→ There are 210 different countries.

Step 2. Business Questions

1. What is the total number of cases of COVID-19 today globally?

```
SELECT
SUM(confirmed_cases)
FROM
`bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`
WHERE
date = '2020-09-03';
```

2. What are the top countries with the highest number of cases at the moment?

```
SELECT

countries_and_territories,

confirmed_cases

FROM

`bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`

WHERE

date = '2020-09-03'

ORDER BY

confirmed_cases DESC

LIMIT

20;
```

3. What countries are most effected with covid-19 compared to their total population? (%)

```
SELECT
countries_and_territories,
pop_data_2019,
confirmed_cases,
confirmed_cases / pop_data_2019 * 100 AS cases_as_percentage_of_population
FROM
   `bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`
WHERE
   date = '2020-09-03'
ORDER BY
   cases_as_percentage_of_population DESC
LIMIT
   20;
```

4. which countries grew the most in number of cases last month?

```
SELECT
countries_and_territories,
SUM(daily_confirmed_cases) AS total_growth,
FROM
`bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`
WHERE
year = 2020
AND month = 8
GROUP BY
countries_and_territories
ORDER BY
total_growth DESC
LIMIT
20;
```

5. Are the daily cases in the Netherlands in the May 2020 higher or lower than its monthly average?

```
SELECT
 date.
 daily confirmed cases,
 (SELECT
  AVG(daily confirmed cases)
 FROM
  `bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`
  countries and territories = 'Netherlands'
  AND year = 2020
  AND month = 5) AS average daily cases
FROM
 `bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide`
WHERE
 countries_and_territories = 'Netherlands'
AND year = 2020
 AND month = 5
ORDER BY
 date:
```