1. Which country had the highest confirmed cases for the month of August 2020?
2. SELECT date,daily\_confirmed\_cases,(countries\_and\_territories)
3. FROM `bigquery-public-data.covid19\_ecdc\_eu.covid\_19\_geographic\_distribution\_worldwide`
4. where month=8 and year=2020
5. order by daily\_confirmed\_cases desc;

| ow | date | daily\_confirmed\_cases | countries\_and\_territories |  |
| --- | --- | --- | --- | --- |
| 1 | 2020-08-30 | 78761 | India |  |
| 2 | 2020-08-31 | 78512 | India |  |
| 3 | 2020-08-28 | 77266 | India |  |

2) What was the percentage change in deaths for India between July and August 2020?

with b as(with a as (SELECT countries\_and\_territories,format\_date('%Y-%m',date) as yearmonth,sum(deaths) as totaldeaths

from `bigquery-public-data.covid19\_ecdc.covid\_19\_geographic\_distribution\_worldwide`

where countries\_and\_territories='India' and format\_date('%Y-%m',date) in ('2020-07','2020-08')

group by countries\_and\_territories,yearmonth

order by countries\_and\_territories,yearmonth

)

SELECT countries\_and\_territories,totaldeaths,

lag(totaldeaths) over(partition by countries\_and\_territories order by yearmonth) as nextmonthdeaths,

totaldeaths-

lag(totaldeaths) over(partition by countries\_and\_territories order by yearmonth) as deathdiff

from a)

SELECT countries\_and\_territories,((deathdiff/totaldeaths)\*100) as percentage

from b

;

3) Show all data from the table for countries which contain the phrase amb in their name?

SELECT date,countries\_and\_territories,deaths,

 FROM `bigquery-public-data.covid19\_ecdc\_eu.covid\_19\_geographic\_distribution\_worldwide`

 where countries\_and\_territories like'%amb%';

|  |
| --- |
|  |
| Row | date | countries\_and\_territories | deaths |  |
| 1 | 2020-08-20 | Gambia | 77 |  |
| 2 | 2020-03-18 | Gambia | 0 |  |
| 3 | 2020-03-19 | Gambia | 0 |  |

4) Did any country have 1000+ deaths for the month of September 2020?

SELECT date,countries\_and\_territories,daily\_confirmed\_cases,deaths,

 FROM `bigquery-public-data.covid19\_ecdc\_eu.covid\_19\_geographic\_distribution\_worldwide`

 where  date between '2020-09-01'and '2020-09-30'and daily\_confirmed\_cases>=1000;

|  |
| --- |
|  |
| Row | date | countries\_and\_territories | daily\_confirmed\_cases | deaths |  |
| 1 | 2020-09-01 | Iran | 1642 | 21571 |  |
| 2 | 2020-09-02 | Iran | 1682 | 21672 |  |
| 3 | 2020-09-03 | Iran | 1858 | 21797 |  |
| 4 | 2020-09-04 | Iran | 1994 | 21926 |  |

5) Display the country and date for which each country had the highest number of confirmed cases using

window functions?

SELECT date, countries\_and\_territories, sum(daily\_confirmed\_cases) as max\_cases

 from `bigquery-public-data.covid19\_ecdc.covid\_19\_geographic\_distribution\_worldwide`

 group by countries\_and\_territories,date

 order by max\_Cases desc;

|  |
| --- |
|  |
| ow | date | countries\_and\_territories | max\_cases |  |
| 1 | 2020-12-12 | United\_States\_of\_America | 234633 |  |
| 2 | 2020-12-05 | United\_States\_of\_America | 231930 |  |
| 3 | 2020-12-11 | United\_States\_of\_America | 224680 |  |
| 4 | 2020-12-10 | United\_States\_of\_America | 220025 |  |
| 5 | 2020-12-09 | United\_States\_of\_America | 217344 |  |

1. Which country had the highest ratio for monthly\_confirmed\_cases to population for countries with 2 million and above population?
2. with a as(SELECT countries\_and\_territories,pop\_data\_2019,format\_date('%Y-%m',date) as year,sum(daily\_confirmed\_cases) as totalcases
3. from `bigquery-public-data.covid19\_ecdc.covid\_19\_geographic\_distribution\_worldwide`
4. where pop\_data\_2019>=2000000
5. group by countries\_and\_territories,pop\_data\_2019,year)
6. select  countries\_and\_territories,pop\_data\_2019,year,totalcases,
7. (a.totalcases/pop\_data\_2019) as ratio
8. from a
9. order by ratio desc

| ow | countries\_and\_territories | pop\_data\_2019 | year | totalcases | ratio |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Belgium | 11455519 | 2020-10 | 320023 | 0.027936141522701852 |  |
| 2 | Georgia | 3996762 | 2020-11 | 96648 | 0.024181574984950317 |  |
| 3 | Czechia | 10649800 | 2020-10 | 255830 | 0.024022047362391781 |  |
| 4 | Slovenia | 2080908 | 2020-11 | 42871 | 0.020602064098941424 |  |
| 5 | Austria | 8858775 | 2020-11 | 176739 | 0.01995072 |  |

7) What was the corona deaths to confirmed cases ratio for November 2020 for top 2 countries in terms of population?

with a as (SELECT

countries\_and\_territories,pop\_data\_2019,format\_date('%Y-%m',date) as yearmonth,

sum(daily\_confirmed\_cases) as Totalconfirmedcases,sum(deaths) as Totaldeaths,

from `bigquery-public-data.covid19\_ecdc.covid\_19\_geographic\_distribution\_worldwide`

where format\_date('%Y-%m',date) in ('2020-11')

group by countries\_and\_territories,pop\_data\_2019,yearmonth

having countries\_and\_territories in ('India','China')

order by pop\_data\_2019 desc

)

SELECT countries\_and\_territories,pop\_data\_2019,yearmonth,Totalconfirmedcases,Totaldeaths,

(Totaldeaths/Totalconfirmedcases) as ratio

from a

