#Total hospitalized patients by region

Most affected

SELECT

region\_name,

SUM(total\_hospitalized\_patients) AS total

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_region`

GROUP BY

region\_name

ORDER BY

total desc limit 10 ;

least affected

SELECT

region\_name,

SUM(total\_hospitalized\_patients) AS total

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_region`

GROUP BY

region\_name

ORDER BY

total asc  limit 10 ;

#confirmed cases by provinces

SELECT

name,

SUM(confirmed\_cases) AS total

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_province`

GROUP BY

name

ORDER BY

total asc  limit 10 ;

SELECT

name,

SUM(confirmed\_cases) AS total

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_province`

GROUP BY

name

ORDER BY

total desc  limit 10 ;

#total confirmed cases

SELECT

SUM(confirmed\_cases) AS total\_confirmed\_cases

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_province`

#fatality ratio

SELECT

SUM(total\_hospitalized\_patients) AS hospitalized\_patients,

SUM(hospitalized\_patients\_intensive\_care) AS total\_inteinsive\_care\_patients,

SUM(hospitalized\_patients\_intensive\_care)/SUM(total\_hospitalized\_patients)\*100 AS fatality\_ratio

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_region`

#total data

SELECT

region\_name AS reg,

SUM(hospitalized\_patients\_symptoms) as total\_hospitalized\_patients\_symptoms,

SUM(hospitalized\_patients\_intensive\_care) AS total\_hospitalized\_patients\_intensive\_care,

SUM(total\_hospitalized\_patients) AS total\_total\_hospitalized\_patients,

SUM(home\_confinement\_cases) AS total\_home\_confinement\_cases,

SUM(recovered) AS total\_recovered,

SUM(deaths) AS total\_deaths,

SUM(total\_confirmed\_cases) as total\_confirmed\_cases,

SUM(tests\_performed) AS total\_test\_performed

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_region`

GROUP BY

reg

ORDER BY

reg limit 10

SELECT

EXTRACT(MONTH from date) as month,

EXTRACT(YEAR FROM date) AS year,

SUM(confirmed\_cases) AS total\_confirmed\_cases

FROM

  `bigquery-public-data.covid19\_italy.data\_by\_province`

where

date between '2020-2-15' and '2020-11-11'

group by

1,2

WITH cases\_by\_date AS (

SELECT

region\_name,

cast(date as date) as dat,

SUM(total\_confirmed\_cases) AS cases

FROM

    `bigquery-public-data.covid19\_italy.data\_by\_region`

where

cast(date as date) between date\_SUB(CURRENT\_date() ,INTERVAL 1 month) and CURRENT\_date()

GROUP BY

1,2

ORDER BY

1,2 ASC

)

, previous\_day\_comparison AS

(SELECT

region\_name,

  dat,

  cases,

  LAG(cases) OVER(ORDER BY dat) AS previous\_day,

  cases - LAG(cases) OVER(ORDER BY dat) AS net\_new\_cases,

  (cases - LAG(cases) OVER(ORDER BY dat))\*100/LAG(cases) OVER(ORDER BY dat) AS percentage\_increase

FROM cases\_by\_date

)

SELECT

region\_name,

Dat,

cases as Confirmed\_Cases\_On\_Day,

previous\_day as Confirmed\_Cases\_Previous\_Day,

percentage\_increase as Percentage\_Increase\_In\_Cases

FROM previous\_day\_comparison

WHERE percentage\_increase > 10