create view `Students.v4\_Vitalii\_modul\_task` as

-- Підготовка даних по акаунтах

with account as (

SELECT

s.date date,

sp.country as country,

a.send\_interval send\_interval,

a.is\_verified is\_verified,

a.is\_unsubscribed is\_unsubscribed,

count(distinct a.id) as acc\_cnt

FROM `DA.account` a

join `DA.account\_session` acs

on a.id = acs.account\_id

JOIN `DA.session` s

on s.ga\_session\_id = acs.ga\_session\_id

JOIN `DA.session\_params` sp

on sp.ga\_session\_id = s.ga\_session\_id

group by

s.date,

sp.country,

a.send\_interval,

a.is\_verified,

a.is\_unsubscribed

),

email\_metrics as (

SELECT

date\_add(s.date, interval es.sent\_date day) as date,

sp.country country ,

a.send\_interval send\_interval,

a.is\_verified is\_verified,

a.is\_unsubscribed is\_unsubscribed,

COUNT(DISTINCT es.id\_message) AS sent\_msg,

COUNT(DISTINCT eo.id\_message) AS open\_msg,

COUNT(DISTINCT ev.id\_message ) AS visit\_msg

FROM

`DA.email\_sent` es

left join `DA.email\_open` eo

on eo.id\_message = es.id\_message

left join `DA.email\_visit` ev

on ev.id\_message = es.id\_message

join `DA.account\_session` acs

on es.id\_account = acs.account\_id

join `DA.session` s

on s.ga\_session\_id = acs.ga\_session\_id

join `DA.session\_params` sp

on sp.ga\_session\_id = acs.ga\_session\_id

join `DA.account` a

on a.id =es.id\_account

group by

date\_add(s.date, interval es.sent\_date day),

sp.country,

a.send\_interval,

a.is\_verified,

a.is\_unsubscribed

),

--обєднання данних двох вище вказаних таблиць

unions as (

SELECT

date,

country,

send\_interval,

is\_verified,

is\_unsubscribed,

acc\_cnt,

0 as sent\_msg,

0 as open\_msg,

0 as visit\_msg

FROM account

union all

SELECT

date,

country,

send\_interval,

is\_verified,

is\_unsubscribed,

0 as acc\_cnt,

sent\_msg,

open\_msg,

visit\_msg

FROM

email\_metrics

),

--сумування значень по листам та прибирання "0" після юніна

final\_data as (

SELECT

date,

country,

send\_interval,

is\_verified,

is\_unsubscribed,

sum(acc\_cnt) account\_cnt,

sum(sent\_msg) as sent\_msg,

sum(open\_msg) as open\_msg,

sum(visit\_msg) as visit\_msg

FROM unions

group by

date,

country,

send\_interval,

is\_verified,

is\_unsubscribed

),

-- обчислення акаунтів та відправлених повідомлень, ранг по кожній країні

final\_sums as (

SELECT \*,

dense\_RANK() OVER (ORDER BY total\_country\_account\_cnt DESC) AS rank\_total\_country\_account\_cnt,

dense\_RANK() OVER (ORDER BY total\_country\_sent\_cnt DESC) AS rank\_total\_country\_sent\_cnt

FROM (

SELECT \*,

SUM (account\_cnt) OVER (PARTITION BY country) AS total\_country\_account\_cnt,

SUM (sent\_msg) OVER (PARTITION BY country) AS total\_country\_sent\_cnt,

FROM final\_data

)

)

--кінцева таблиця з фільтрацією даних по рангу

SELECT

date,

country,

send\_interval,

is\_verified,

is\_unsubscribed,

account\_cnt,

sent\_msg,

open\_msg,

visit\_msg,

total\_country\_account\_cnt,

total\_country\_sent\_cnt,

rank\_total\_country\_account\_cnt,

rank\_total\_country\_sent\_cnt

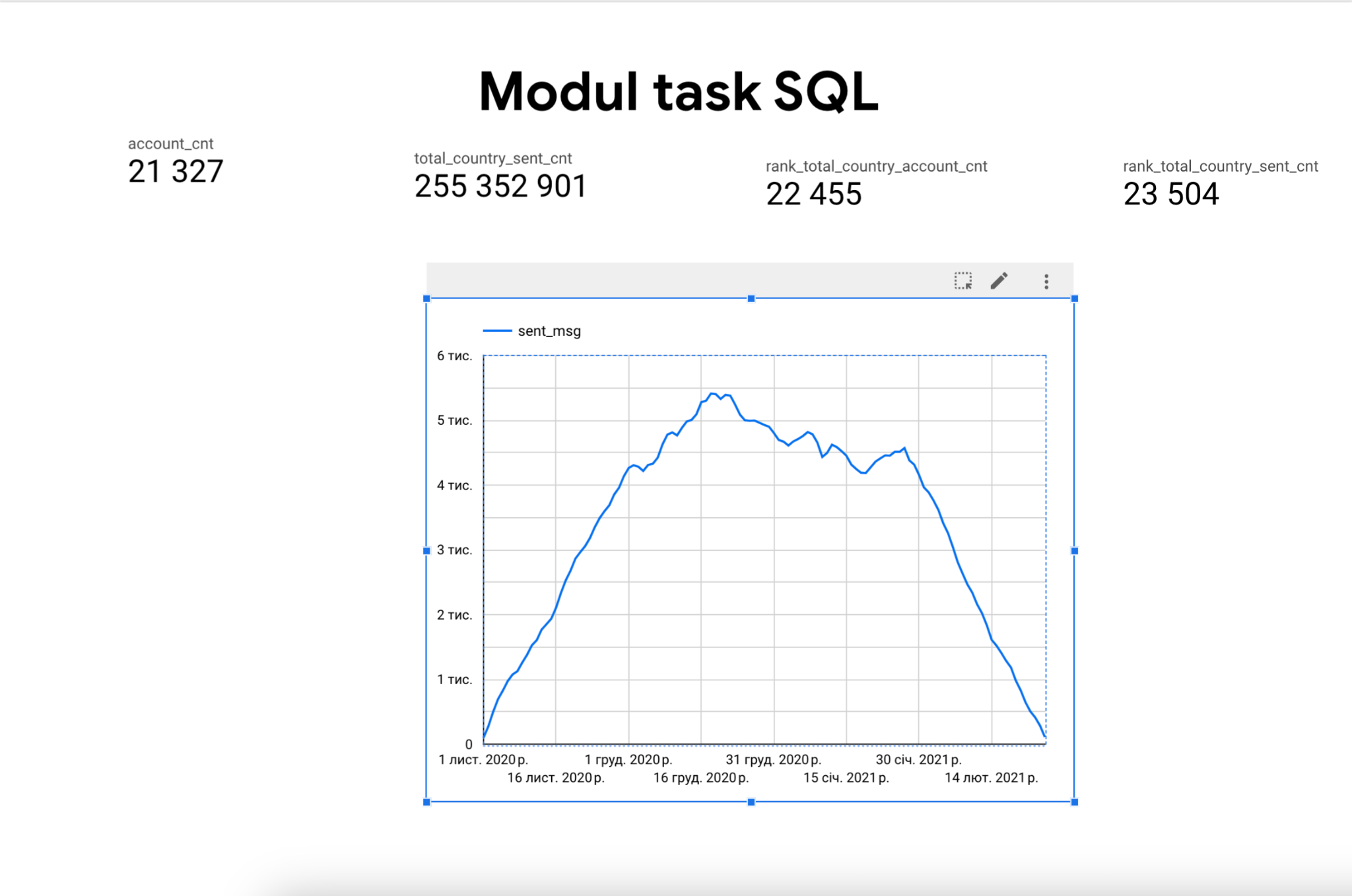
FROM final\_sums

where

rank\_total\_country\_account\_cnt <= 10

or

rank\_total\_country\_sent\_cnt <= 10



<https://docs.google.com/document/d/1VG2koUE6_jKGndzoEb4Ji5lu1fmbosXkI060TiHorY4/edit?usp=drive_link>