Shows product by number sold, color, SKU, name

SELECT count(product\_code) as count\_product\_code,

product\_code,

initcap(product) as product\_name,

initcap(product\_color) as product\_color

from `project-1-349215.customer\_data.customer\_purchases`

where product is not null

group by 2,3,4

order by count\_product\_code desc

Shows all above and Total products sold by multiplying purchase size by count of products sold.

select

safe\_multiply(purchase\_size, count(product\_code)) as total\_products\_sold,

count(product\_code) as count\_product\_code,

product\_code,

initcap(product) as product\_name,

initcap(product\_color) as product\_color,

purchase\_size,

from project-1-349215.customer\_data.customer\_purchases

where product is not null

group by 3,4,5,6

order by total\_products\_sold desc

Shows Pricing, total cost, revenue

select

safe\_multiply(purchase\_size, count(product\_code)) as total\_products\_sold,

count(product\_code) as count\_product\_code,

product\_code,

initcap(product) as product\_name,

initcap(product\_color) as product\_color,

purchase\_size,

transaction\_id,

purchase\_price,

product\_price,

round(safe\_multiply(product\_price, safe\_multiply(purchase\_size, count(product\_code))),2) as total\_sales,

revenue,

from project-1-349215.customer\_data.customer\_purchases

where product is not null

group by 3,4,5,6,7,8,10

order by total\_products\_sold desc

With statement showing sub query and then finding gross profit.

WITH PROFIT as (select

(purchase\_size\* count(product\_code)) AS total\_products\_sold,

count(product\_code) AS count\_product\_code,

product\_code,

initcap(product) AS product\_name,

initcap(product\_color) AS product\_color,

purchase\_size,

purchase\_price,

product\_price,

round((product\_price\*(purchase\_size\* count(product\_code))),2) AS total\_sales,

revenue

from project-1-349215.customer\_data.customer\_purchases

where product is not null

group by 3,4,5,6,7,8,10

order by total\_products\_sold desc)

select PROFIT.total\_products\_sold,

purchase\_size,

PROFIT.total\_sales,

revenue,

purchase\_price,

product\_price,

round(PROFIT.total\_sales - revenue,2) as varg\_profit,

Case when total\_sales - revenue =0 then 0 else round(total\_sales - revenue,2)

end as gross\_profit

from PROFIT

Dates

select distinct(extract(month from date)) as month, extract(year from date) as year, count(product) as count\_product

from `project-1-349215.customer\_data.customer\_purchases`

group by 1,2                   -- must group by month, year in order to prevent duplicate months. some orders occured on the same day and grouping by date wont work.

order by month

**Number of items sold**

with SOLD as

(select cast(count(product) as numeric) as total\_product\_sold,

transaction\_id,

product,

product\_price,

purchase\_price,

from `project-1-349215.customer\_data.customer\_purchases`

where product is not null

group by 2,3,4,5)

select

transaction\_id,

purchase\_price,

product,

product\_price,

cast(round(SOLD.total\_product\_sold\* purchase\_price,2) as numeric) as total\_sales,

round(purchase\_price / product\_price,2) as num\_items\_sold

from SOLD

order by product