Group by and Aggregations Contd...

Aggregation functions

max()

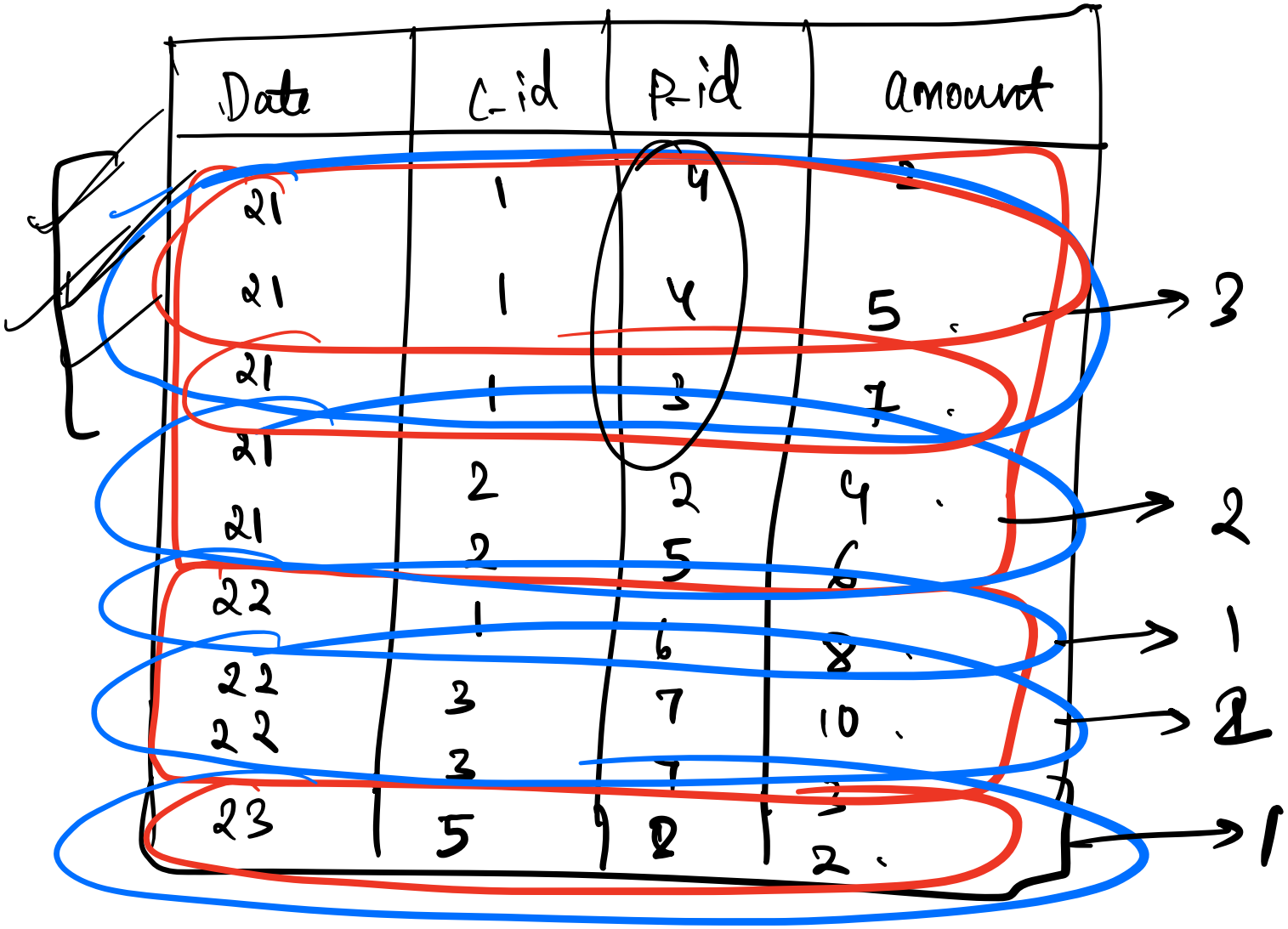
min()

sum()

avg()

count()

Group by clause

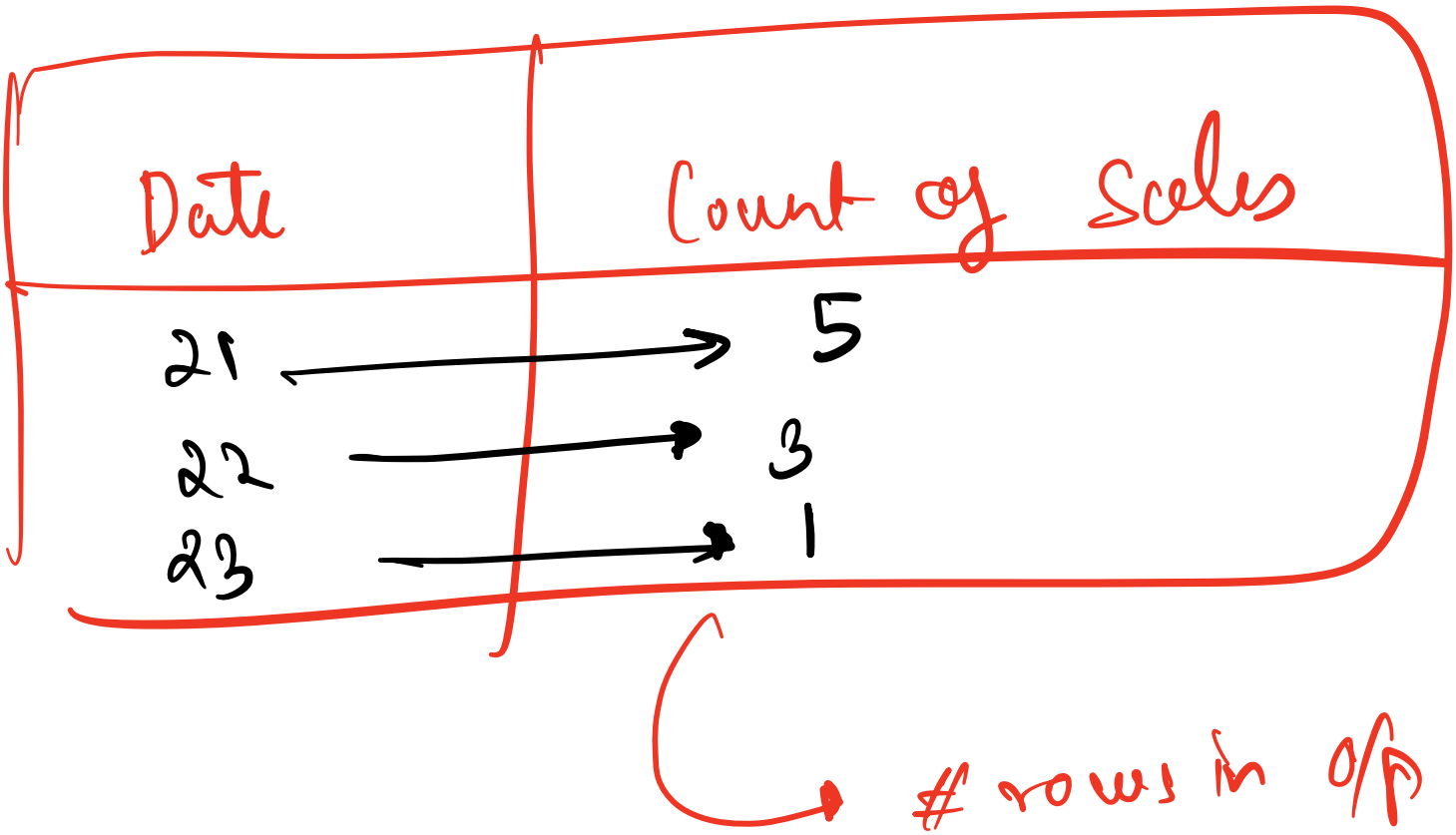


(Q.1) How many sales have we seen in the market?

→ 9

→ rows in o/p → 1

(2) Number of Sales per day ?



rows in o/p

↳ (3)

group by mkt_date

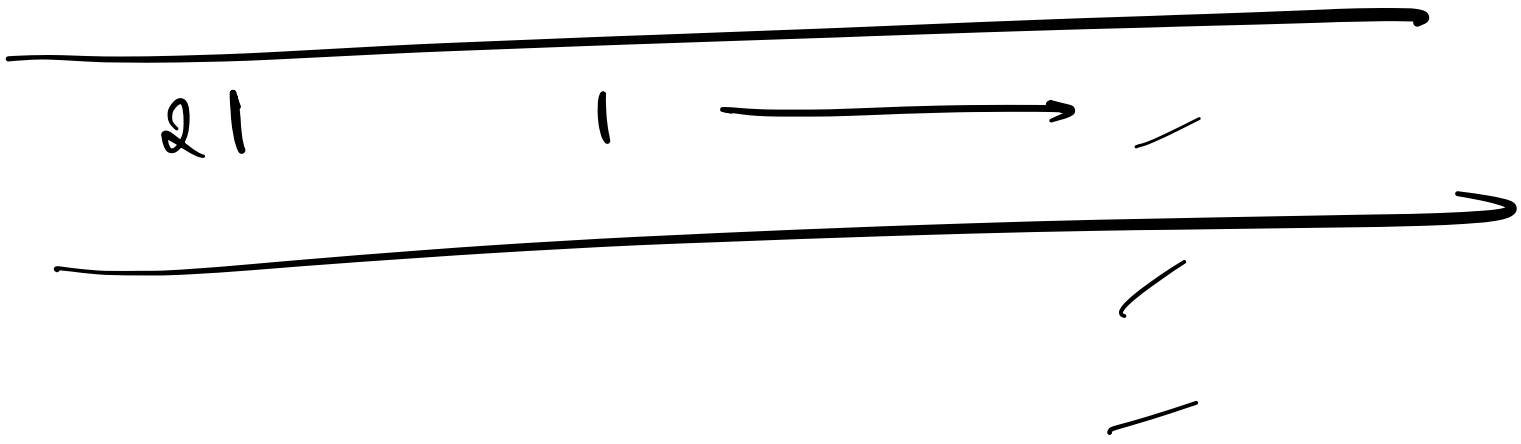
(Q.3) No. of sales per day for each customer?

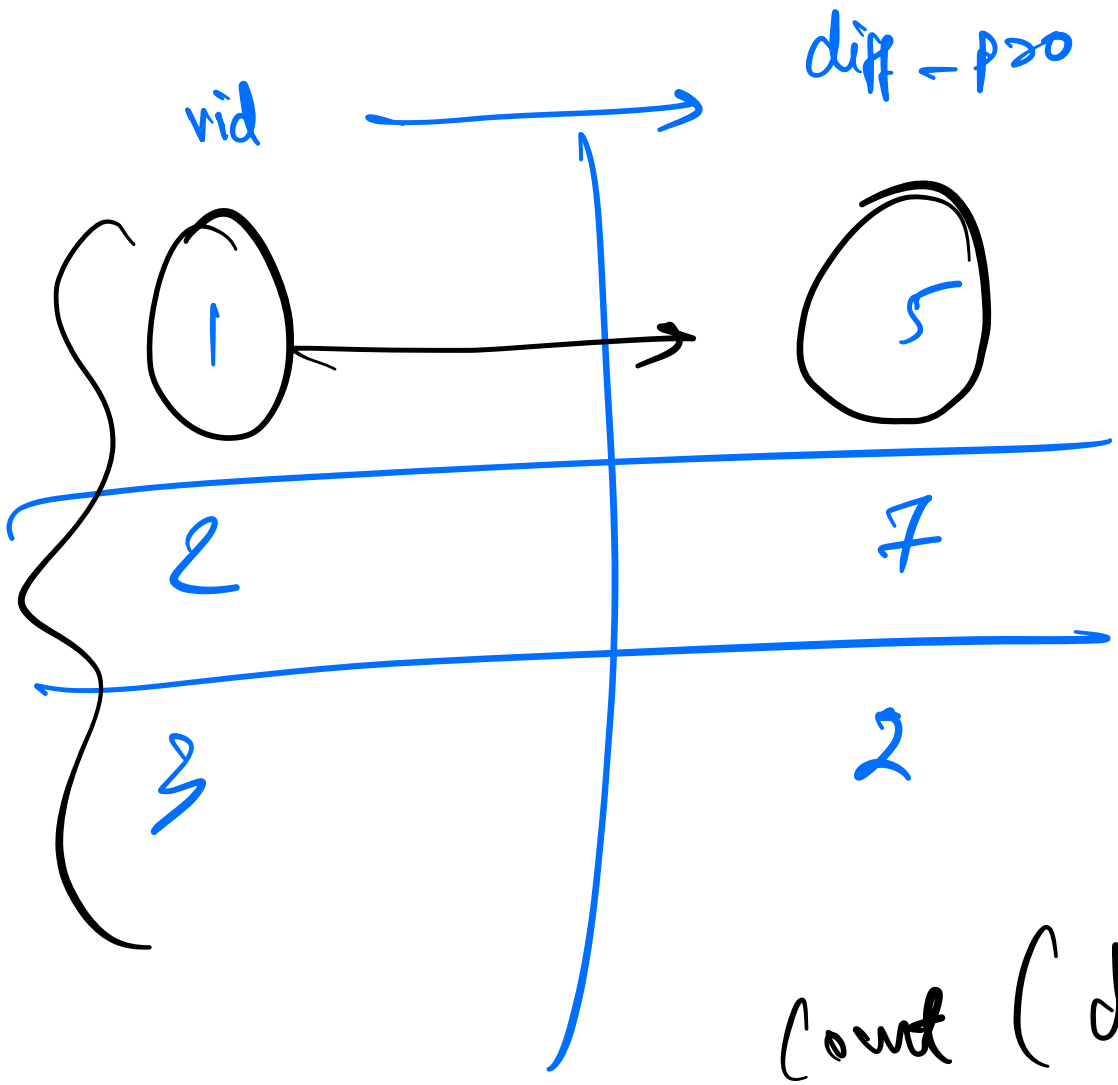
Date	c_id	no_of_sales
21	1	3
21	2	2
22	1	1
22	3	2
23	5	1

→ 5 rows

group by date, c_id

group by date, c_id, p_id





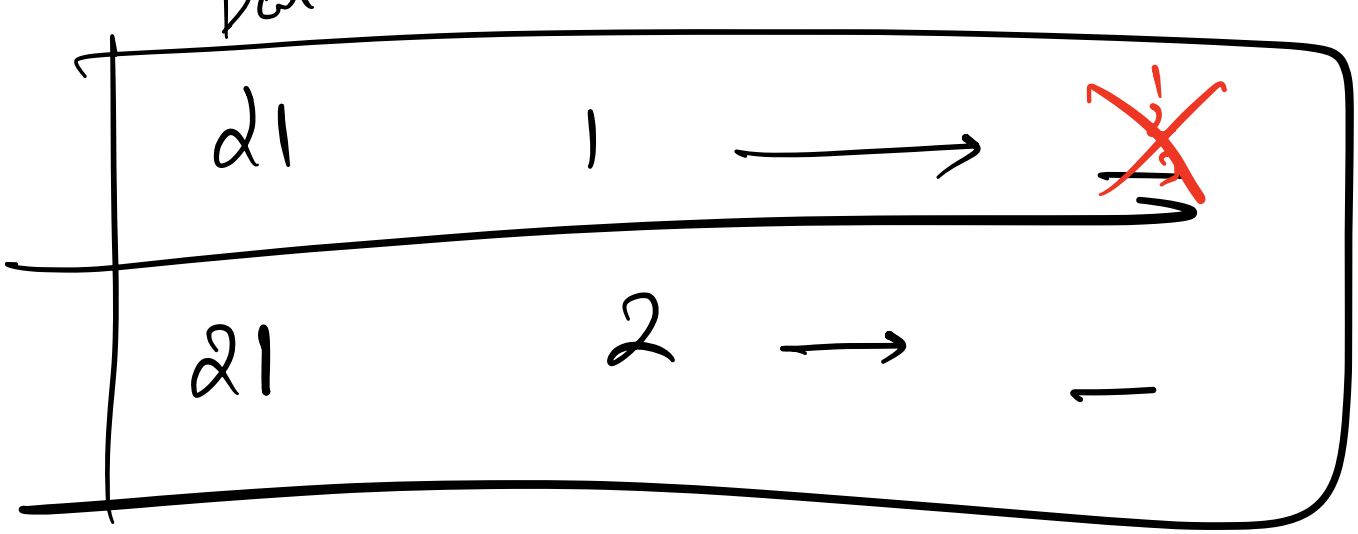
count (distinct p-id)

gb vendor_id

Data	C-id	P-id
21	1	1
21	1	2
21	1	3
21	2	4

```
select
        Data,
c_id,
p_id
from
group by Data, c_id
```

Data	c_id	p_id


21
1
21
2

Having

↓

filtering based on aggregated data

where

↳ filtering

vendors > 3 products

general syntax

Select

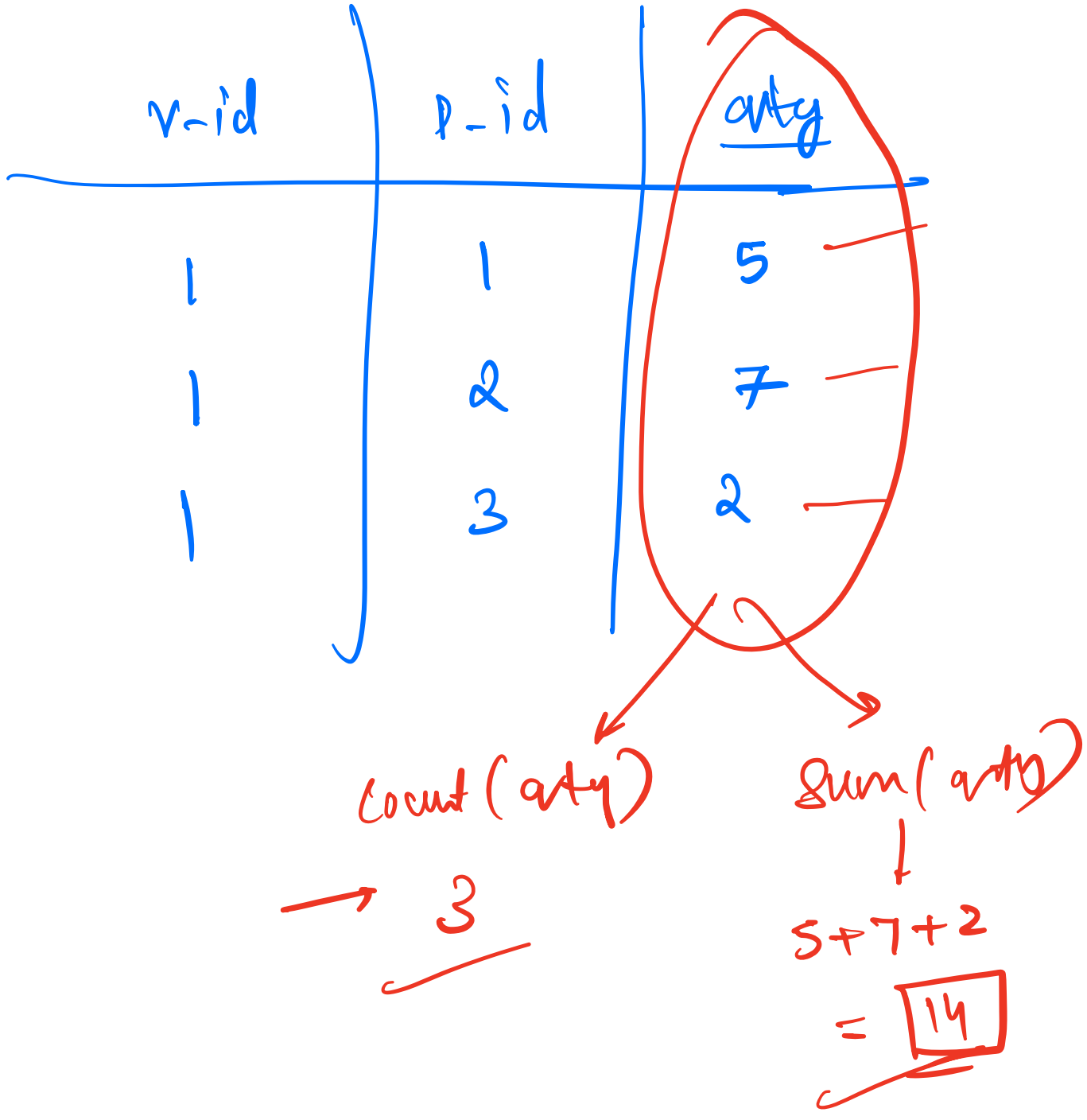
Sum( )

from

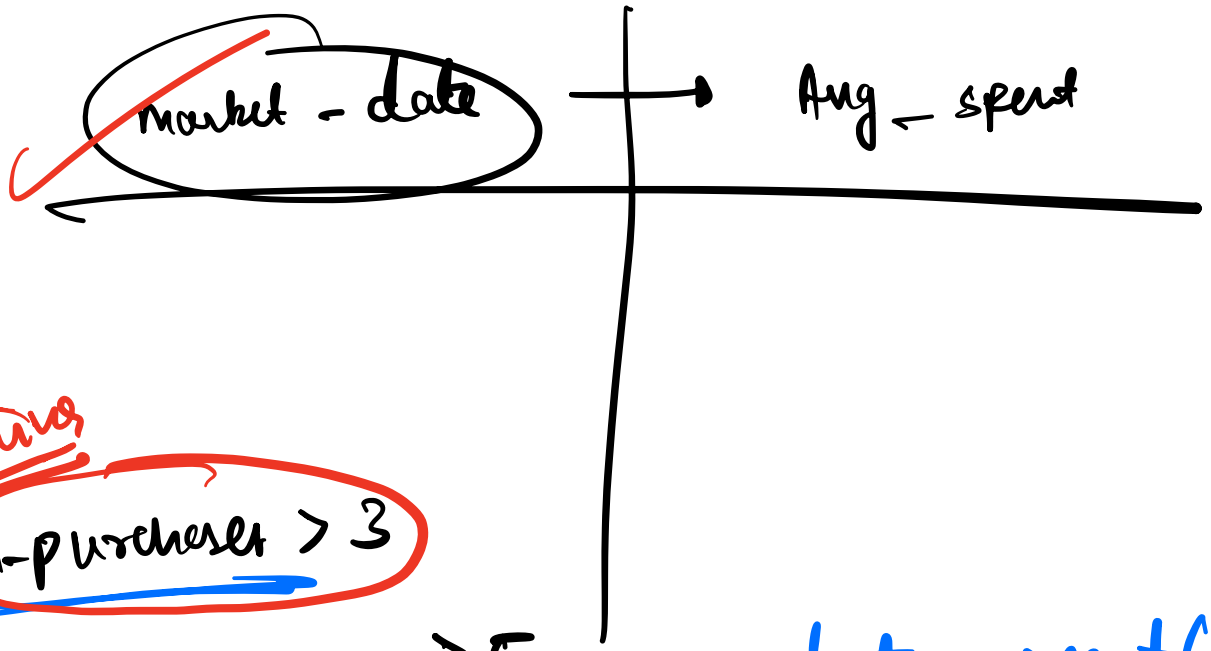
where original_col

Group by

HAVING → filter groups


v_id
p_id
qty
1
1
5
1
2
7
1
3
2
count(qty)
3
sum(qty)
5+7+2
= 14

(9)



having

n-purchases > 3

A

B

transaction - amt > 5

where

qty* C-P-QV

date → count(*)