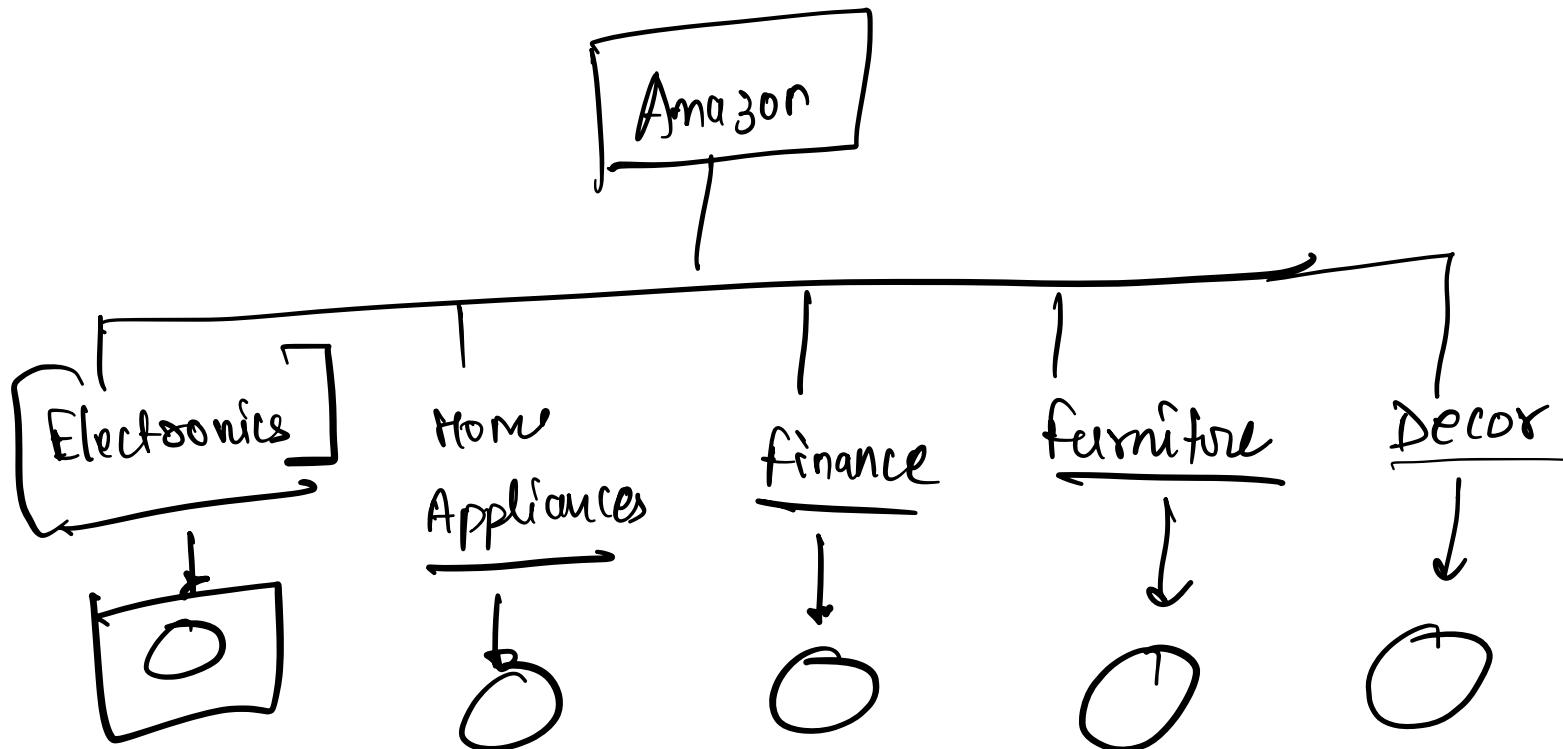


Group by & Aggregations

Till now :

- ① Basic keywords
- ② filtering (IN, Between)
- ③ Inline Calculation
- ④ functions
- ⑤ String functions
- ⑥ Sub queries
- ⑦ Case & when

* Aggregations



MIN()

MAX()

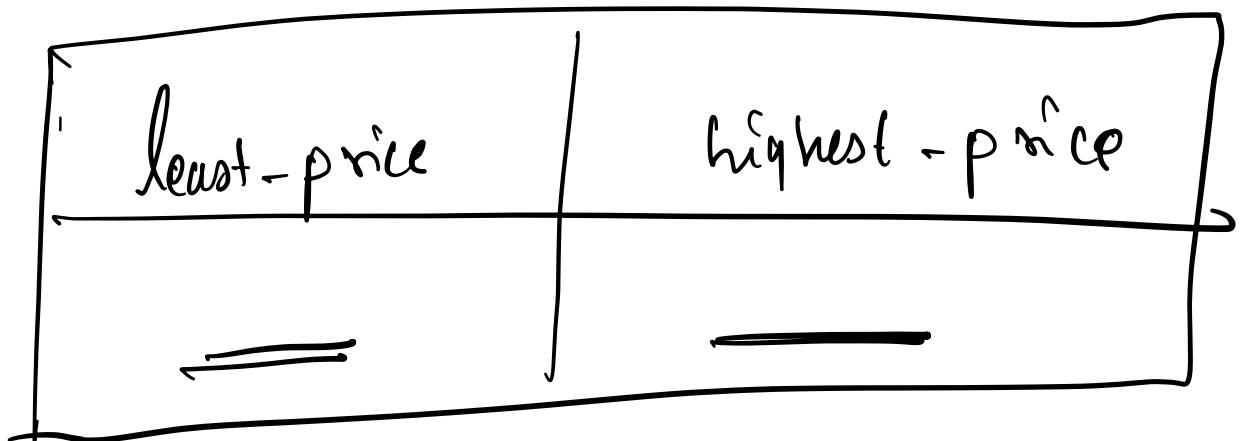
COUNT()

SUM()

AVG()

(g,1)

=



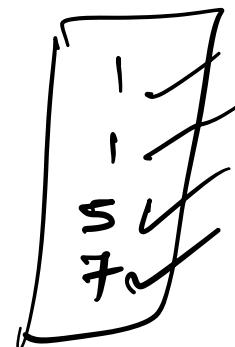
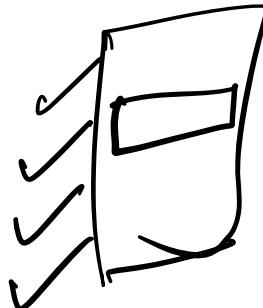
Select

$\text{MIN}(\text{original_price})$ as least-price,

$\text{MAX}(\text{original_price})$ as "

from _____

Sum (qty * (-P-QV))



Count (*) ✓

- counts all rows including nulls
- commonly used
- less confusing

✓ Count (1)

- exactly same as count (*)
- avoid using prefer count (*)

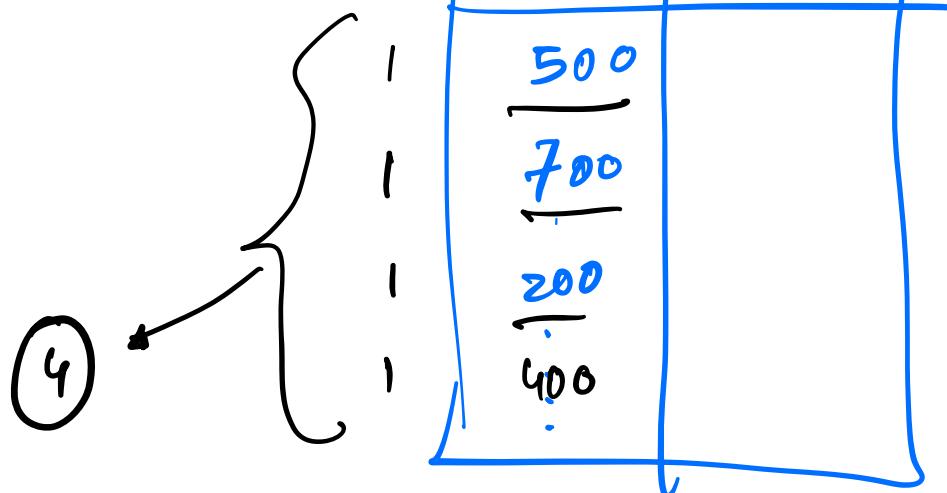
Count (col-n)

- counts duplicates & ignores null values

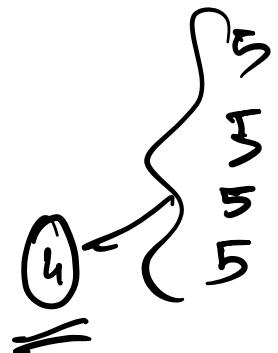
✓ Count (DISTINCT col-n)

- neither duplicates nor NULLS

$\text{count}(i)$



$\text{count}(\underline{s})$

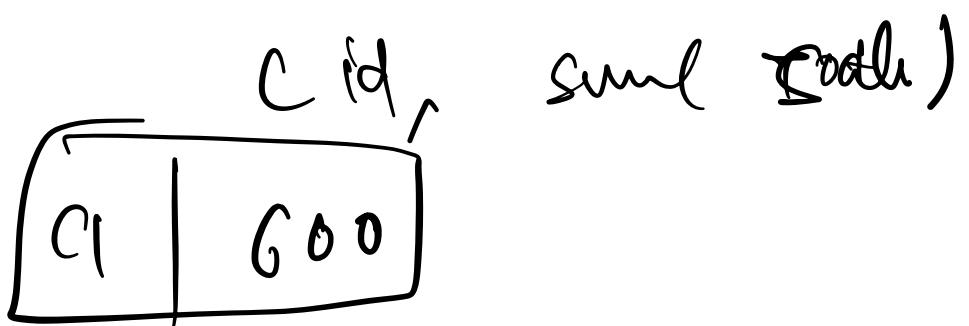
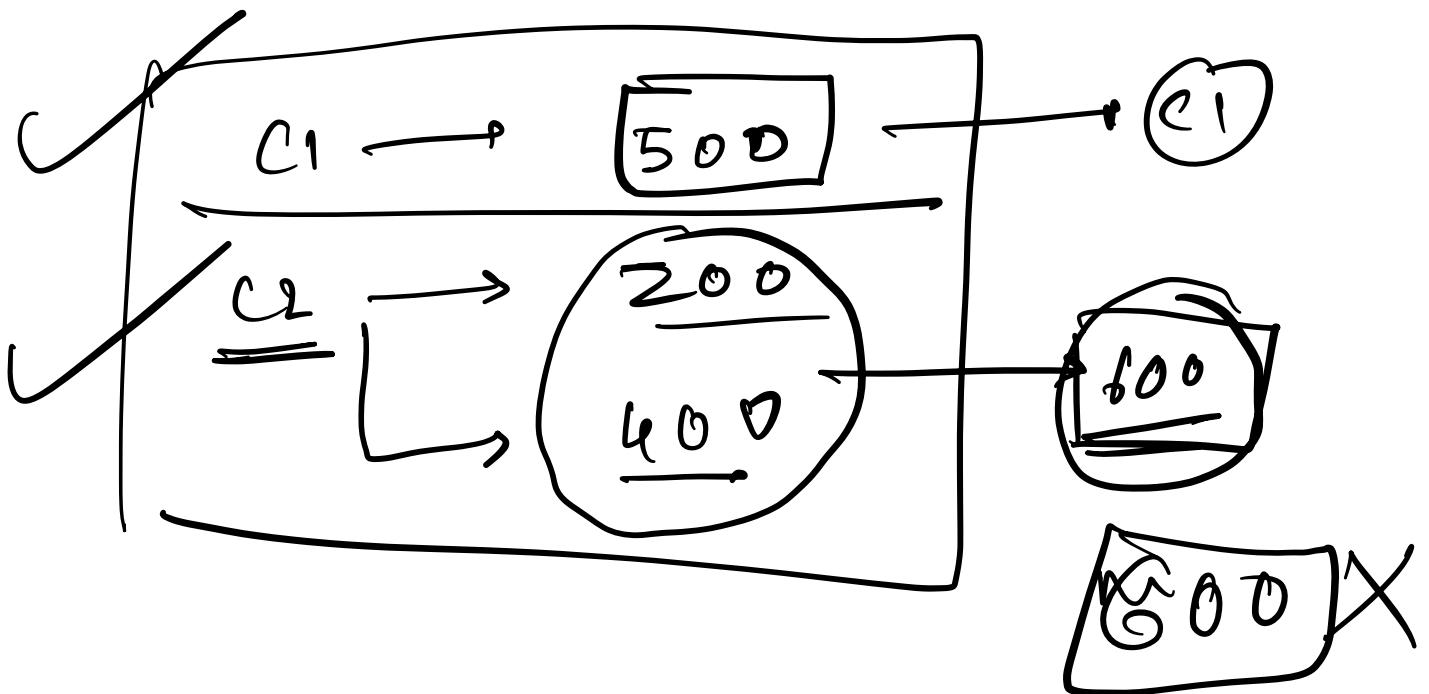


(Q) no. of unique customers who made a purchase in 2nd quarter of 2019.

Date	Cust-id		
24/04	1		
24/04	2		
24/04	1		
25/04	1		
26/04	3		
28/04	2		

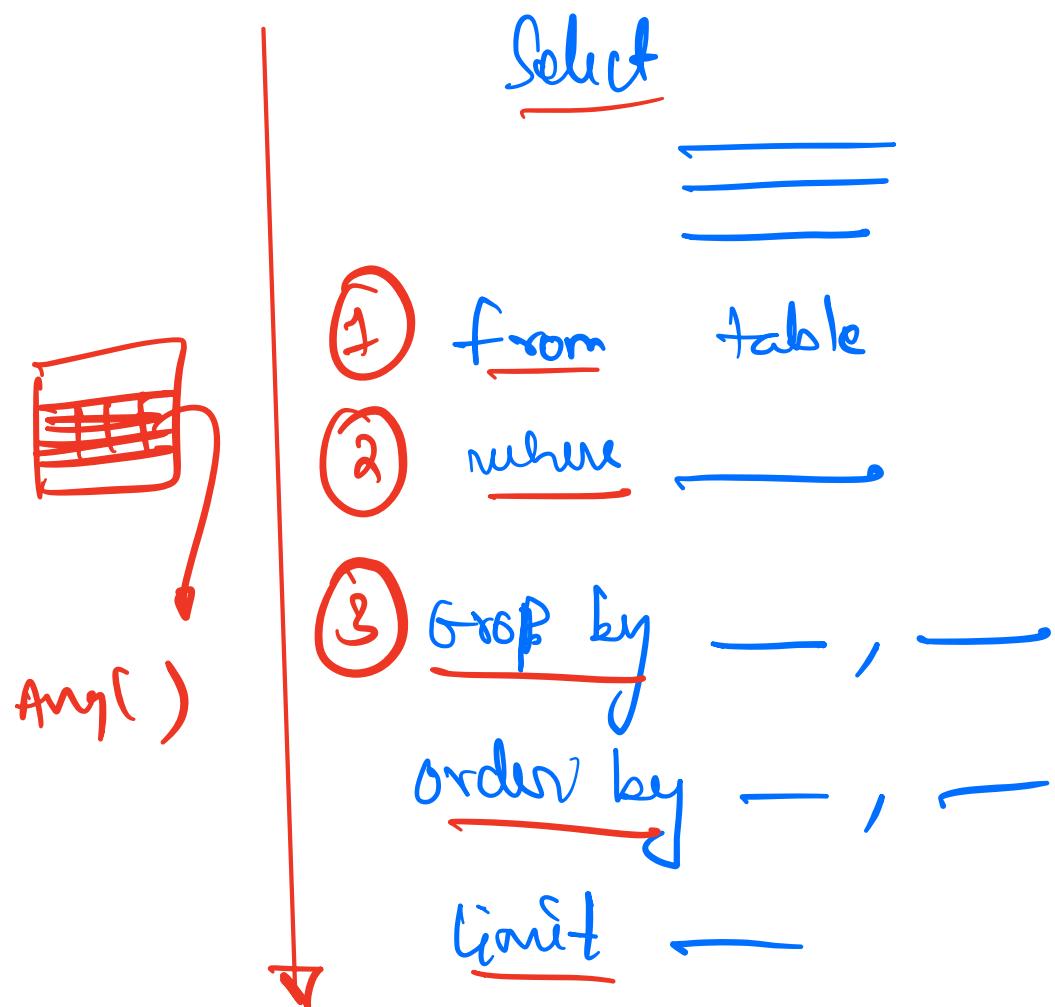
Count (1, 2, 3) → 3

Count (DISTINCT cust_id) → 3



Group by

Syntax : (Query writing)

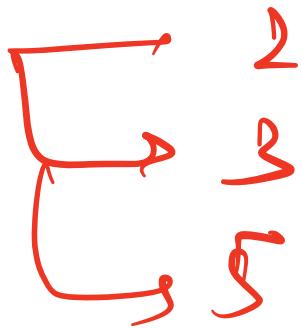


Execution order is diff → Document

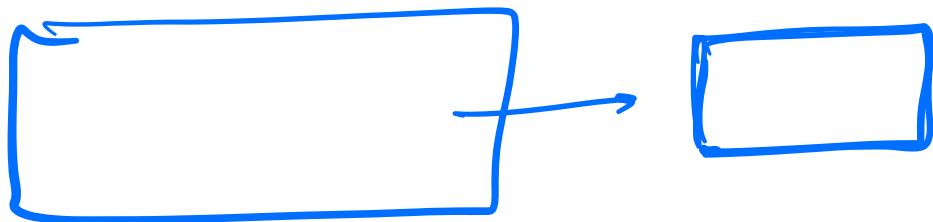
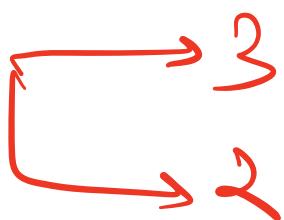
→ for each date, give customers who made purchase

date	c-id	
24/1	2	1
24/1	2	
24/1	2	2
24/1	3	1
24/1	5	1
25/1	3	1
25/1	2	2
25/1	2	

24/1

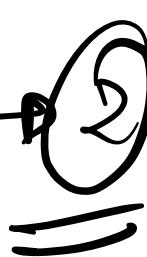


25/1



1

date	c_id	p_id
24/1 24/1 24/1	2 2 2	1 5 1



24/1	2	→ 2
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