SQL-05 Goroup By.

Recor:

- . Inequi
- · >=, <7, between
- · Sub-query,

- Agenda:
- · Group By
- · Having.
- · Order of execution.

Usually to management want aggregated date

- · Sum of monthly sales
- · Total new customer
- · Arg. sales /day
- · austomer wish high-phrchese.

				_
	Cus.id.	Date	Amt	C M Quan (Amile)
	A		10	Gorid Bum (And)
	A	(20	7 A 45
1	B	4	60	B 65.
	A	2	15	
	B	3	5	1) This is called aggregate
ر		1		hu bu'
				clause called broup by

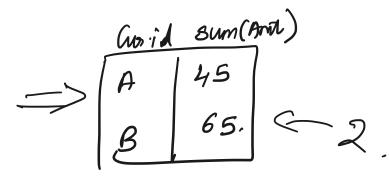
To do this we use a clause called "Group

Belect, where, from, dimit, offset, order by.

select from where Group by Onder by Limit Object

,00	Find	Sales	9	cerch	customos
1 = 1 = 1 Amt					

/6	ius. id.	Date	Amt
	A	l	10
	$\boldsymbol{\beta}$	\ (20 60
\	B	4	60
	A	2	15
	B	3	2
4			



Syntax:

Select

Cus_id,

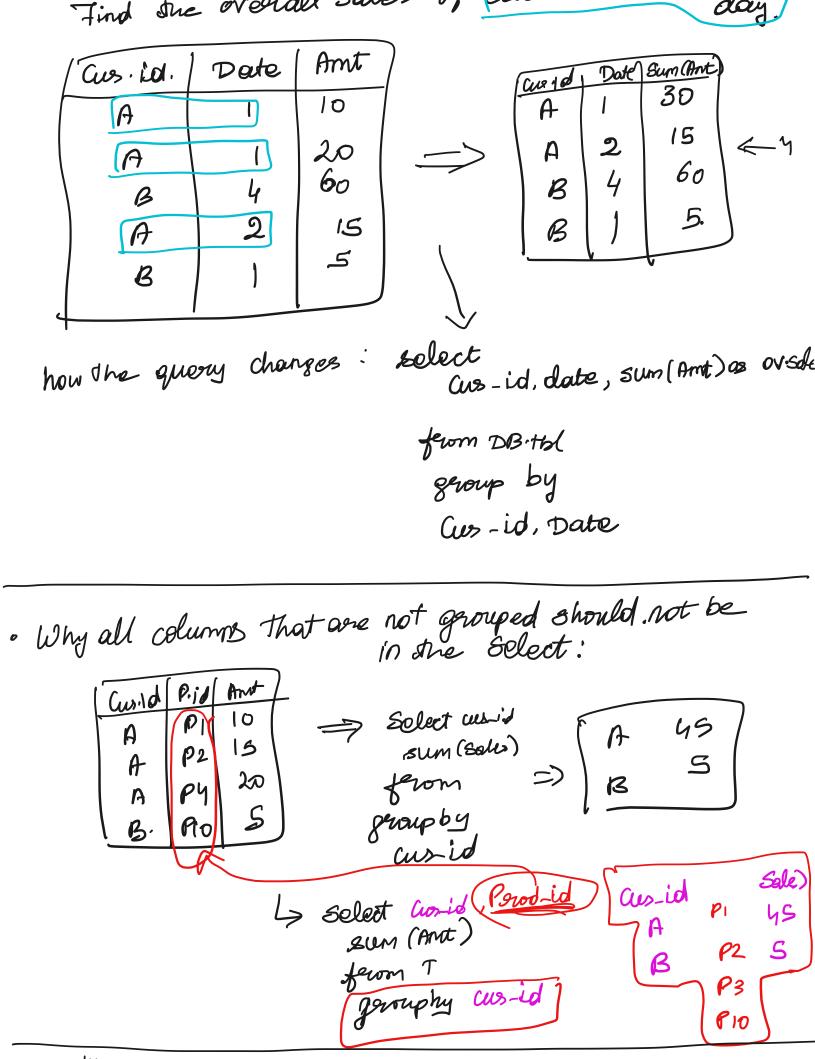
Sum(Amt)

from DB. Hol

Give me the sales of each customer.

Group by cus-id

and color of pack customer, each



Count:

Count distinct

Count distinct

A P1

A P2

A P1

B P2

B P2

Count (distinct Pid)

B P2

B P2

Count (distinct Pid)

B P2

B P2

B P2

Count (distinct Pid)

B P2

B P2

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Count (distinct Pid)

B P3

B P4

B P5

B P5

Count (distinct Pid)

B P5

B P6

B P7

B P7

B P7

B P8

Count (distinct Pid)

B P8

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Count (distinct Pid)

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Count (distinct Pid)

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Count (distinct Pid)

B P9

Count (distinct Pid)

B P9

B

Count (*) > Count all the orons > including NULL

(ount (a columname) > Count all shows > excluding

in the column

NULL

Count (1) > creates a Column

High all | and

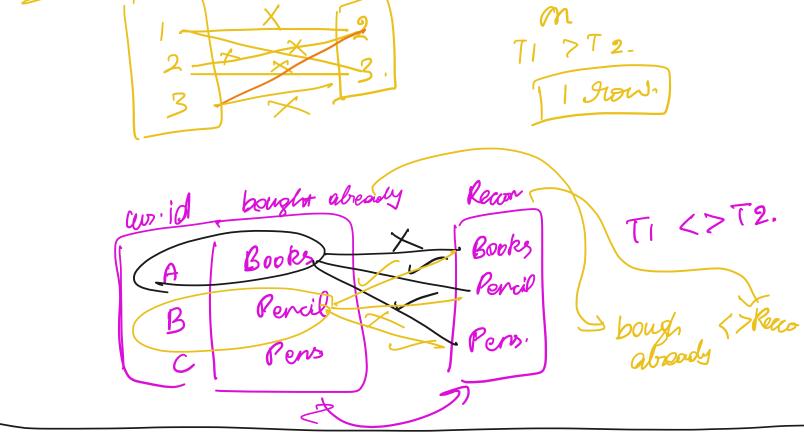
then counts

Count (distinct col) > count only uniquely values > excluding

in the column

Null

Qui'z question:



Min and Mar.

Vendon	Product	- Ant
Vendo	OVA	
\ \ \ \ \ \ \ \ \ \ \ \ 2	A	14
V2	B	8
V4	B	24,

Cheapost Costliest

8
24.

select min(Amt) as cheapest, max(Amt) as costliest from DB tbl.

Vorden of execution:

- . From including Join. 7 touble alias is available
 - · where
 - Gover by
 - o Having
 - · Window to
 - · Select > Column alias is created here.
 - · Distinct
 - · Union
 - · Order by
 - · Offset
 - e Limit

It is because of the order

of execution than we cannot

use the column alias in

group by, where clause.

i.e. select (atyxprice) as cost from Tol where price >10 X instead use subgrenes

select * from (select (gty x price) as cost from the)2

where cost >10.

It is the same reason we cannot use the appreciate function

in the where clouse as group by
Comes after where clause.

1.e. where count(prod-id>10)

Instead

Having count(prod-id>10)