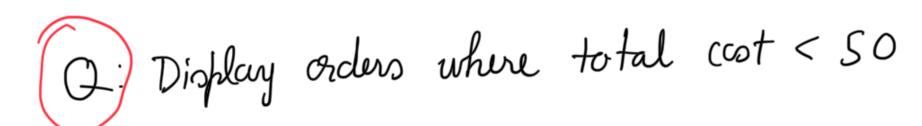
awy Processing (ORDER OF EXECUTION) SELECT al1, al2 FROM tb1 WHERE conditions col3 ORDER BY cl1, cl2... LIMIT cost\_to\_construm quantity

WEIGHT AIRMIN COXICONATOR COLUMNI IN INVIENC



Select

cost \* quantity as total

from orders

WHERE cost \* quantity < 50

WHERE cost \* quantity < 50

Write the correct order of execution of different clauses of a gruny

Q: Will the lelew query execute correctly?

Select

Cust-id,

poduct-id,

7 gty \*\* Cost as total-cost

ORDER BY total-cost.

Often times we will be asked to pecide summarized tata.

aggregate functions	NUMERIC	STRING	DATG
Sount ()  Soum ()  Lexiograph ()  masc ()  avg ()			X X X
aggregation	ri <u>w</u>	rline calcula	tion_

summerized

creates a new column with some calculation.

no impact on rows

salary + commissions.

(Inline calculation).

count (\*)

count all rous.

null values

are included

count (col\_name)

count all rous of a column except null values. count distinct as ount only unique values in a column.

doesn't include null values.

## Imagine you work at the amount category team and asked to answer the following questions:

- (1) How many products are there in each category
- 12) What is the any price of products in each category
- 3) Provide détails of products purchased by more than 20 customers

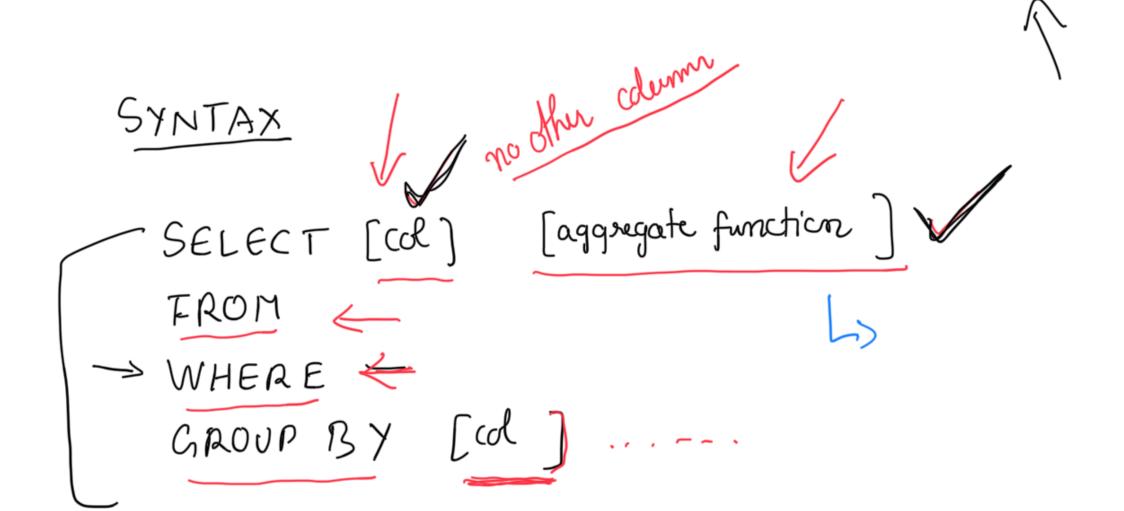
GROUP-By: Helps group data by various categories and provide aggregate metrics

GROVP BY

	·	V
EMPID	NAME	DEP_ID
1 2 3 4 5	A S C E	12 32 32

Find # of employees in each department

	DEP-1D	COUNT	
,	\	2	
	2	3	\



ORDER OF EXECUTION

Where:

grap by

Select

austid date order id

1
2
2
3
4
2
2
5

cust date

total orders

1 2 1 2 2

\* Order of columns in group by does not affect the underlying aggregation.

- ANT TO ADDIV & COXIDITION AND

G. WHAT IF YOU WANT TO MITCH M AGGREGATE 2

Find customers with more than 30 orders /

SELECT →customer, count (\*) Ifrom orders WHERE count (\*) > 30

>GROUP BY customer

SELECT and tomes count (\*) from orders

> group by customer

[IHAVING count (\*) > 30

having connot

de used without of

group by

ORDER OF EXECUTION

Griz

WHERE

GROUP BY

HAVING

Select.

Select.

GRDERT

LIMIT.

HAVING CLAUSE

Select

from

WHERE

Group by product id

having count (\*) > 200

2 Select name as new\_name

from
where \_\_\_\_\_\_

group by new-name. -s order of execution -> Magical order of grery

[rating > 3

TRUE ->

FAISE 1 Dam

nulls. Lutt not the nulls values and I magine you work atalzersmayon count category team and asked the ansure the following questions.

(1) How many products are there in each

12) What is the any price of products in each category

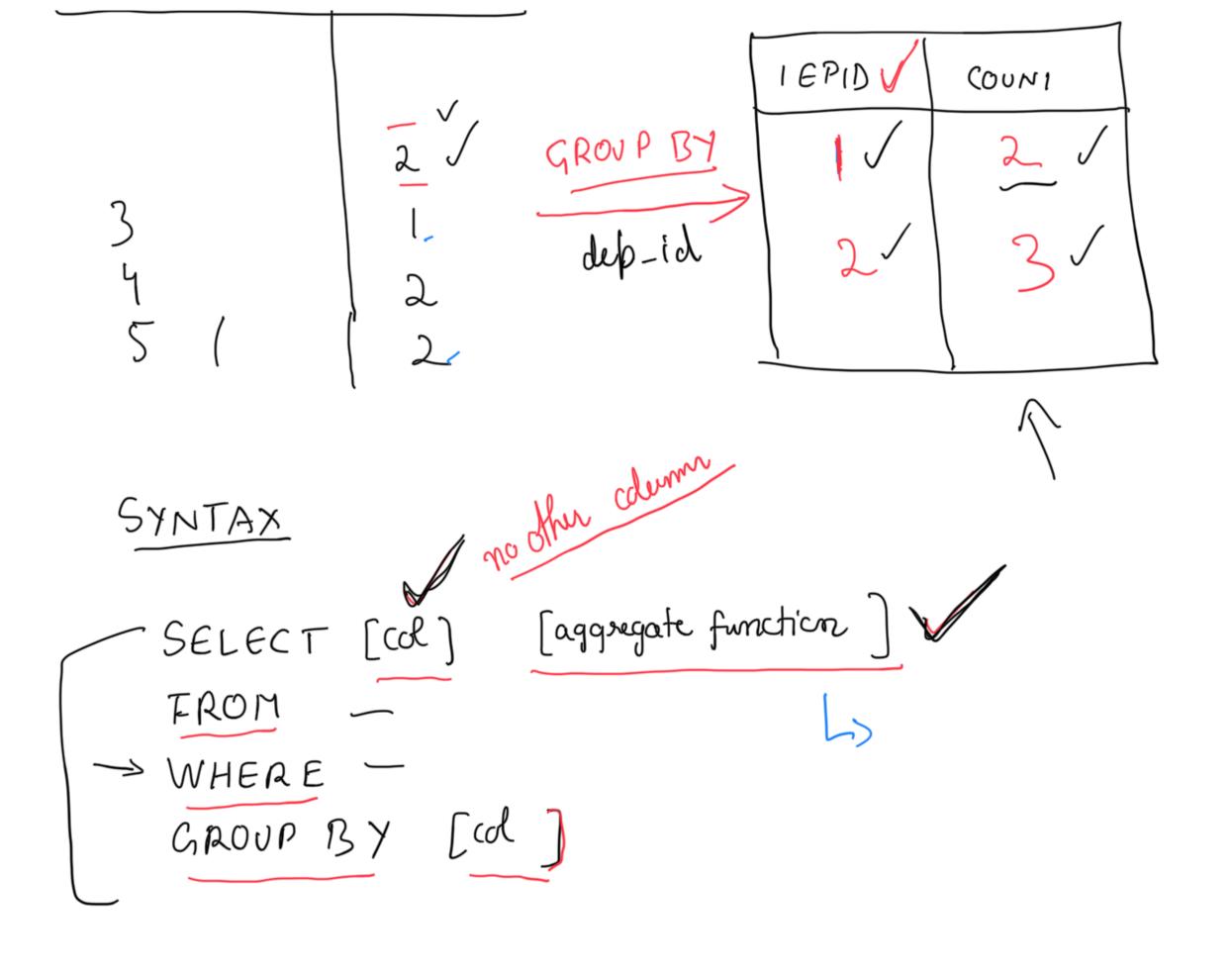
Provide details of products purchased by more than 20 customers

Helps group data by various Categories and provide aggregate metrics GROUP-By:

		V
EMPI	DNAME	DEP_ID
1 2 V 1	A B C D E	

Find # of employees in each department

name



ORDER OF EXECUTION

where:

graphy

Select.

austid date order id

1
2
2
3

\* Order of columns in group by does not affect the underlying aggregation.

Q: Display departments with more than 2 employees

Ţ	Emp-id	Dept_id		Dep-id	count	
	1 2 3 4	1 2 2 2	GROUP BY	1 2 / 3	1 3 2	
	5	3			2 fil the	ter rus,

Now filter the rows from grouped table

Select depid, count (emp-id)

From Employees

WHERE count (empid) > 2 -> this is
incorrect

Chaving count (empid) > 2

HAVING

opecial clause used to filter results after group by.

ORDER OF PROCESSING

WHERE -> GROUP BY -> HAVING

EXECUTION ORDER OF WHERE HAVING

Sellet.

GRDERT

LIMIT.