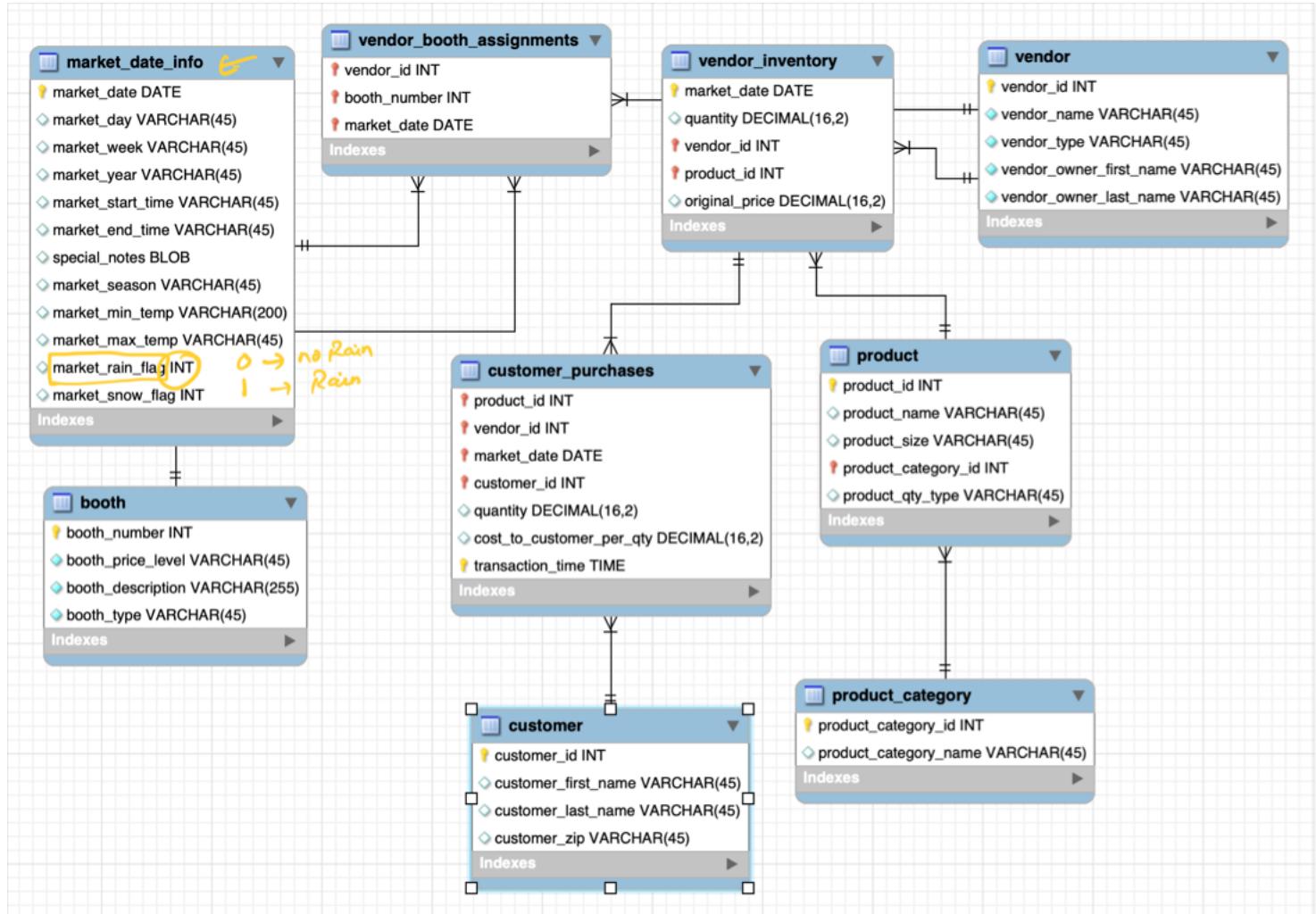
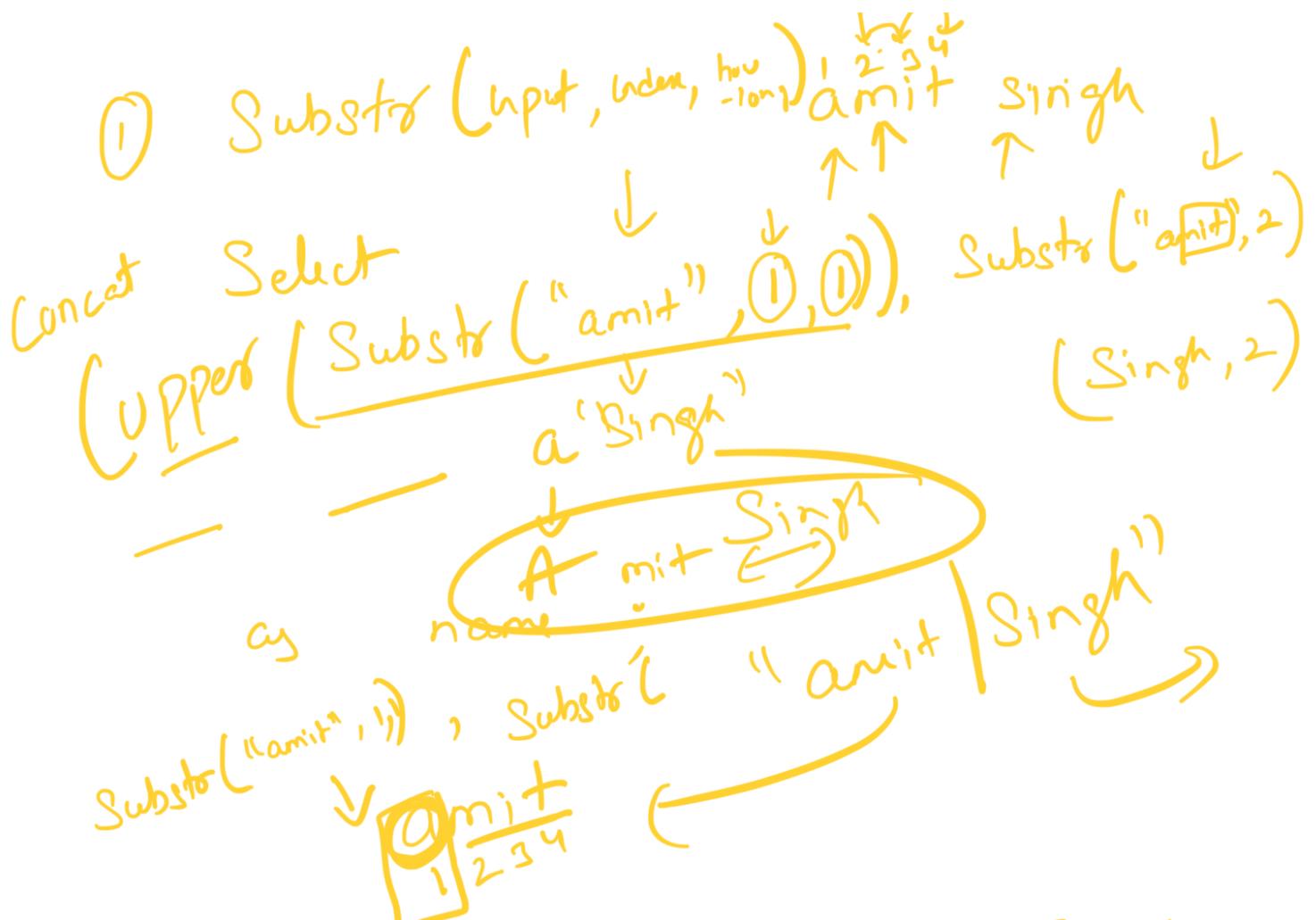


Agenda

- a. Filtering Queries
- b. Subquery
- c. Joins and its types





Filtering ↴

SELECT *
FROM <Table>
WHERE (col, cols)
Group By : (col, cols)
Order By : (col, cols)
Limit ;

Null = absence of value

↳ NO memory

like

%

-

cr

Ger

where last_name like % (e%)%

like

-

%

Autumn

- (a) "a %"
- (b) "a ~~u~~ ~~t~~ ~~u~~ m n"
- (c) all of the above

① a - - - H a to
Case statements

CASE $\beta_0 = 0$

... when

✓ then

When

✓ *thee*
✓ *else*

$$i \beta_2 = 0$$

even

150

10

END as abc

Joins

FK

- ✓ ① Left Join | Left outer Join
- ✓ ② Right Join | Right outer Join
- ✓ ③ Inner Join
- ④ Self Join
- ⑤ Full outer Join
- ⑥ Cartesian Join | Cross Join

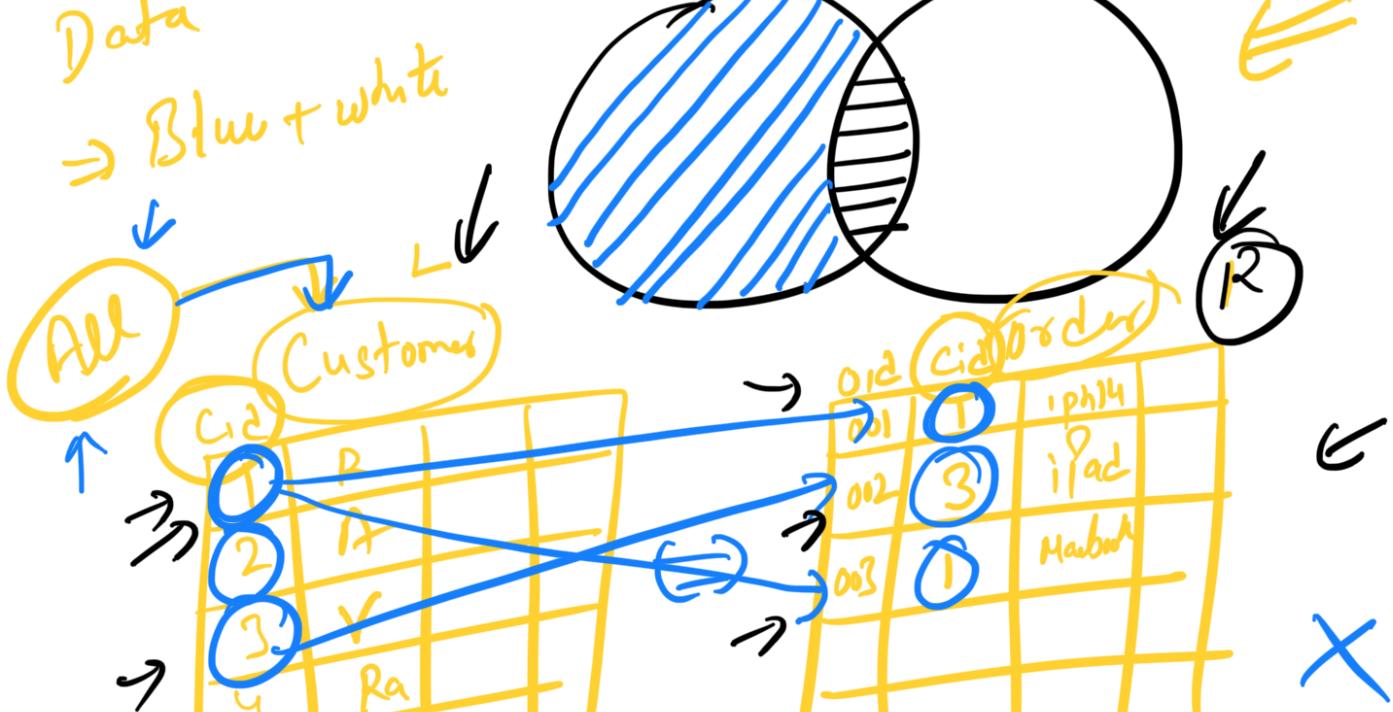
① Left Join

Customer

order

Data

→ Blue + white





Select

C.Cid,
C.Cname,
O.Oid, O.order-name

C ↗

From Customer

Left join Orders

ON C.Cid = J.Cid

Cid	Cname	Oid	Order-name
1	A	001	iPhone
1	A	003	Macbook
2	B	Null	Null
3	C	002	iPad
4	D	Null	Null
5	E	Null	Null

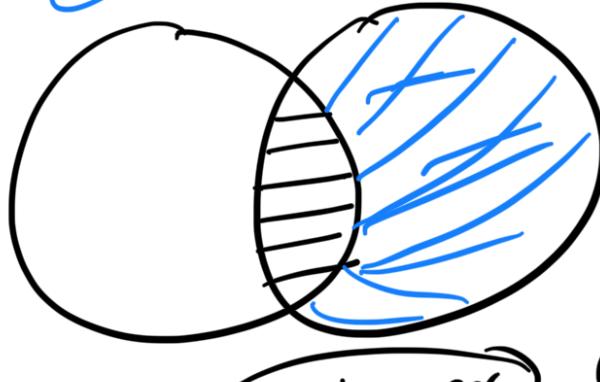


②

Right join

C ↘

O ↗

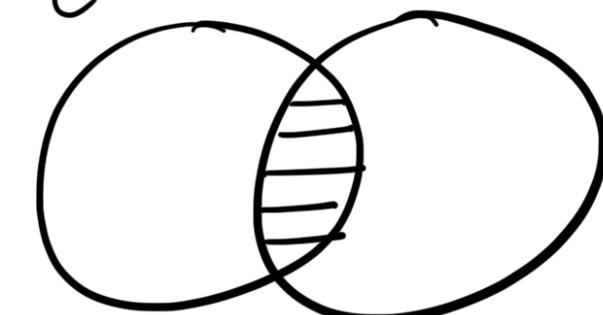


C ↘

② From Customer
 Right join orders O
 ON C. Cid = O. cid

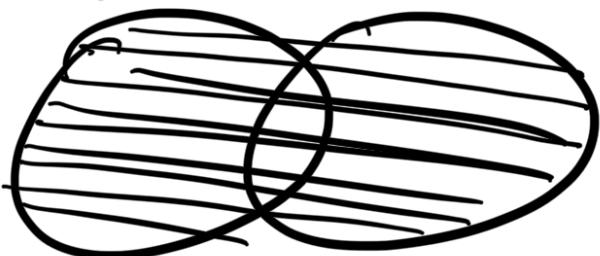
From orders O
 left join Customer C
 ON O. cid = C. cid

③ Inner join (every, each) ←
 Customer order



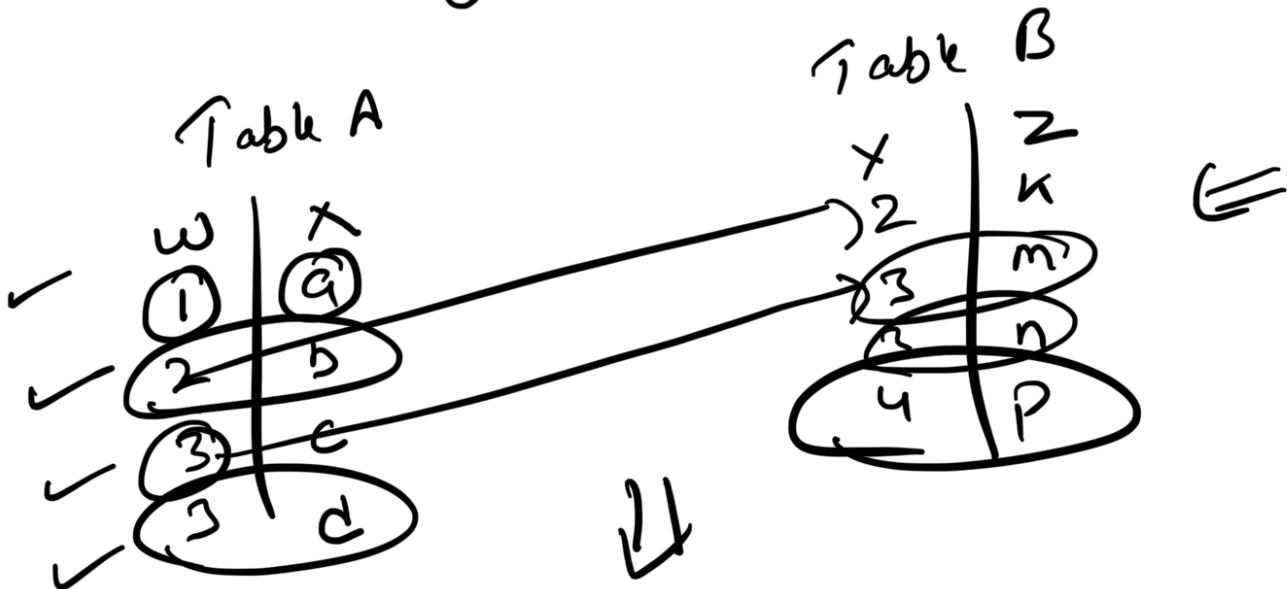
1, 1	1, 1
1, 1	1, 1
3, 3	3, 3

④ Full outer join
 Big query Customer order



Select *

From Customer C
Full outer join orders O
On C.cid = O.cid;



full outer join

w	x	y	z
1	a	null	null
2	b	2	k
3	c	3	m
3	c	3	n
3	d	3	m
3	d	3	n
null	null	4	p

Employees departments job-history Jobs

