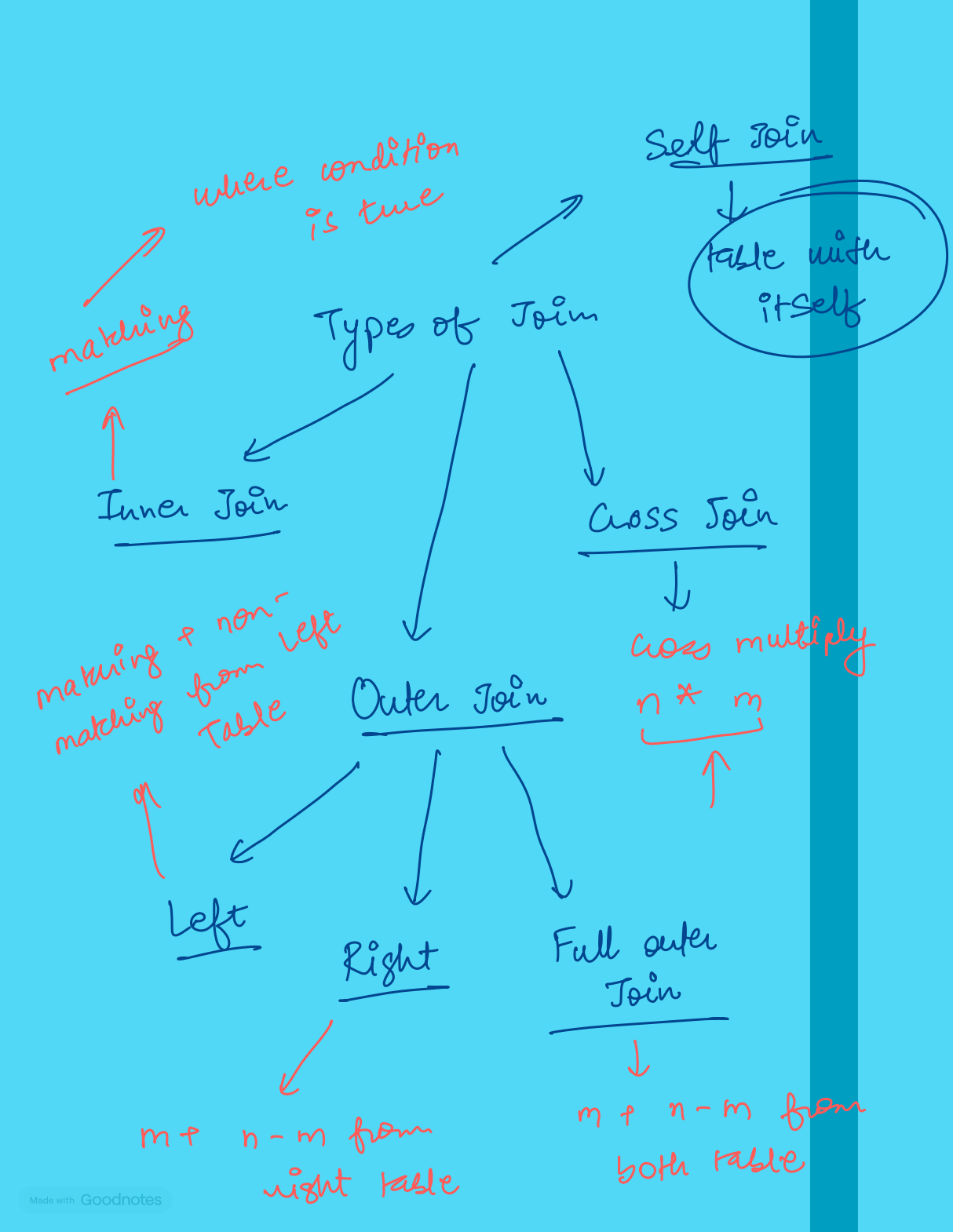

Self Join
table with itself
where condition is true
matching
Types of Join
Inner Join
Cross Join
cross multiply
n * m
matching + non-matching from left Table
Outer Join
Left
Right
Full outer Join
m + n - m from right table
m + n - m from both table

Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

Rows = 5

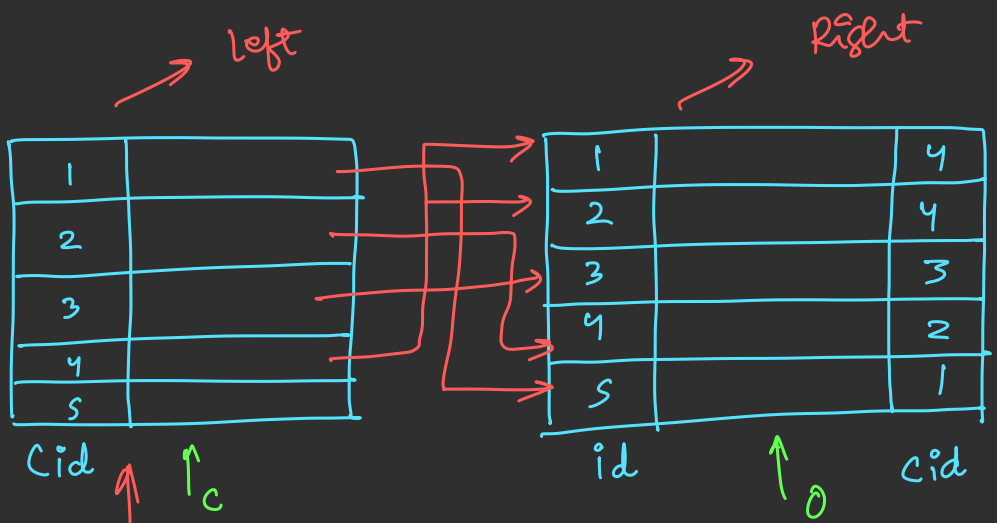
Rows = 5

Orders

order_id	item	amount	customer_id
1	Keyboard	400	4
2	Mouse	300	4
3	Monitor	12000	3
4	Keyboard	400	1
5	Mousepad	250	2

Customers → LEFT

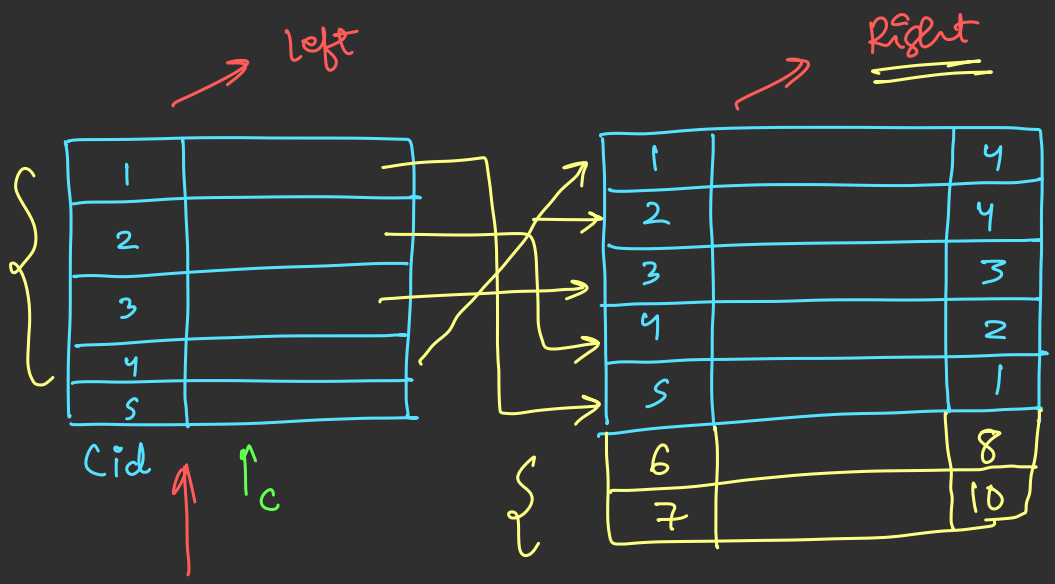
Orders → Right



On C.Cid = O.Cid

Joined → 6 rows (5 cid will be displayed)

not matching from left table

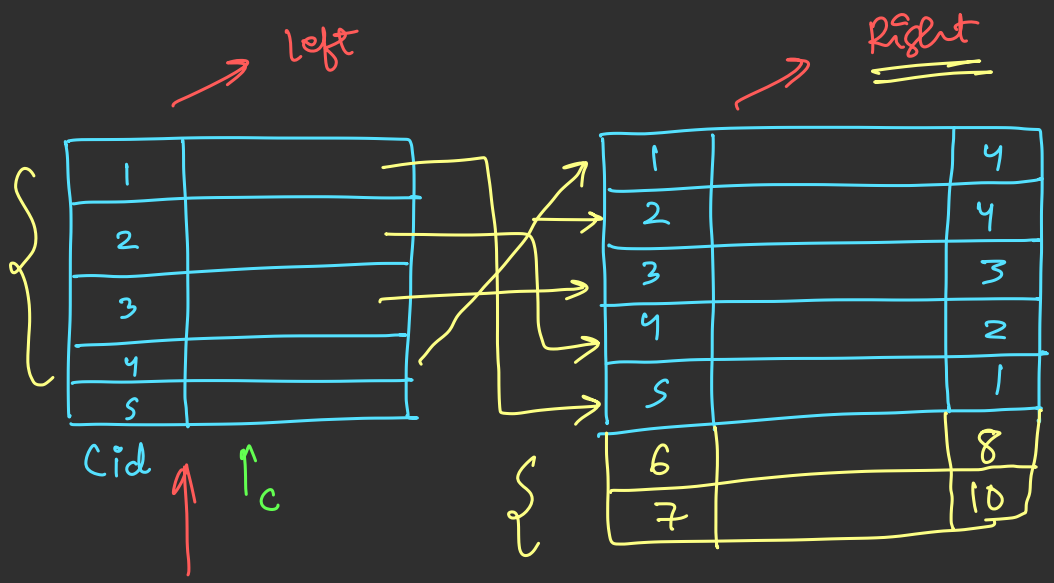


On (C.Cid = O.Cid)

Right Outer

Joined → 7 zones will be present → (matching + not matching from right table)

```
Select * From Customers as C
Right Join Orders as O
On C.cid = O.cid
```



Full outer Join

On (C.Cid = O.Cid) → 5 rows

Joined → 8 rows → (matching + not matching rows from both tables)

will be present

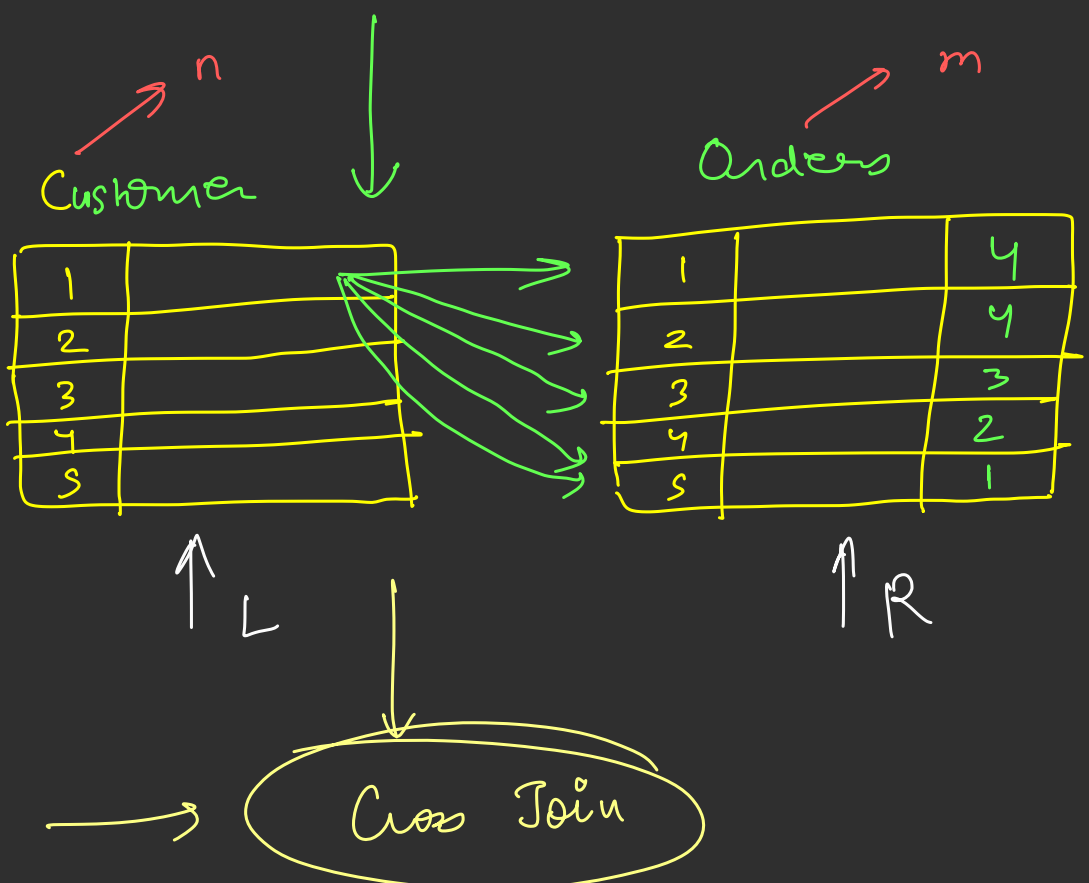
Select * From Customers as C

Full outer JOIN Orders as O

On C.cid = O.cid

SELECT * From Customers

JOIN Orders



No condition we write here