

## SQL - Joins

Q: Get details of all vendors that are selling fresh products along with product names and the quantity of that product present in the inventory.

Joining / Merging tables to get the final o/p.

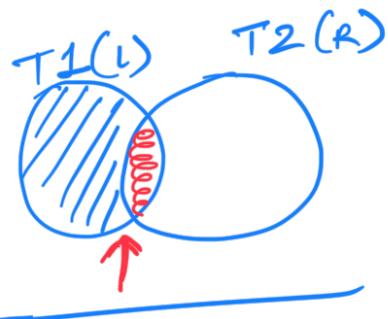
⇒

Vendor-id	Vendor-type	product	qty	date	---

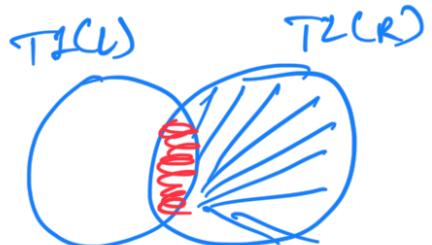
Q 1.

Joins

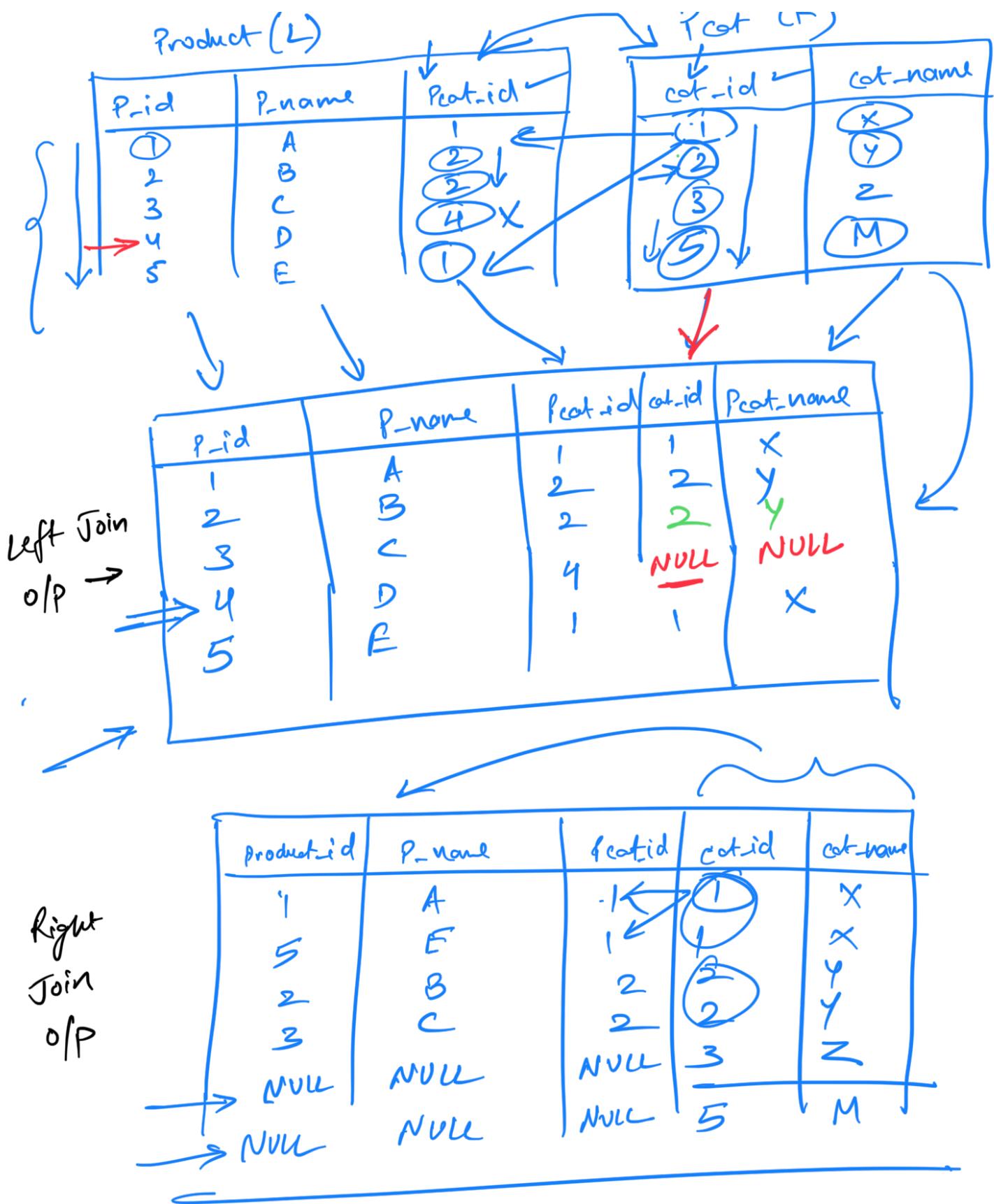
① Left Join



② Right Join



categoryid  
n 101

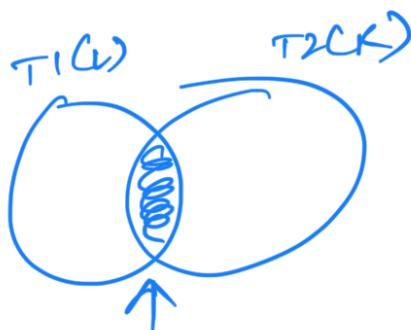


Syntax :

SELECT →

→ FROM [left\_tbl-name]   
 → [JOIN\_TYPE] [Right\_tbl-name]   
 → ON [left\_tbl-name]. [commonfield] = [right\_tbl-name].  
[commonfield]

## INNER



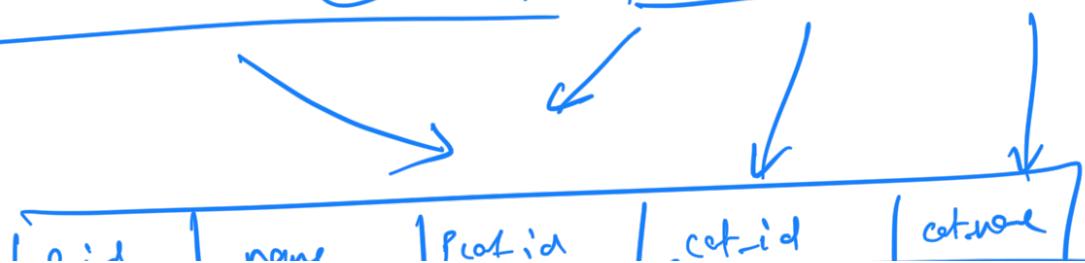
only Matching  
records

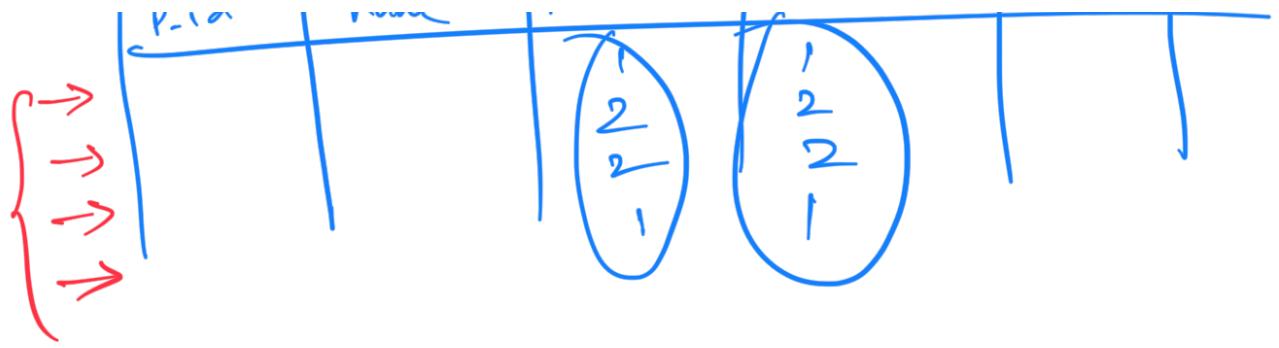
Product (L)

P_id	P_name	Pcat_id
1	A	1
2	B	2
3	C	2
4	D	4
5	E	1

Product (R)

cat_id	cat_name
1	X
2	Y
3	Z
5	M

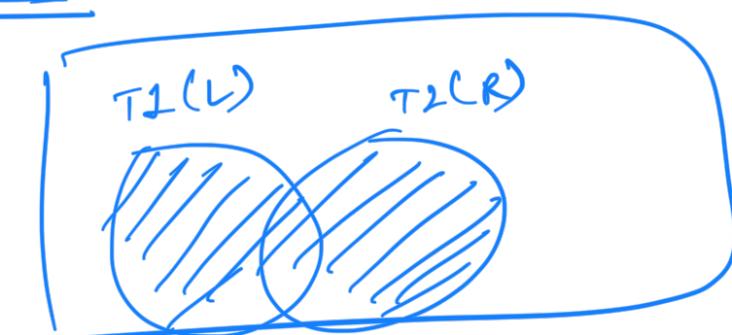




Syntax:

→ JOIN

Outer Join



Product (L)

P_id	P_name	Pcat_id
1	A	1
2	B	2
3	C	2
4	D	4
5	E	1

Pcat (R)

cat_id	cat_name
1	X
2	Y
3	Z
5	M

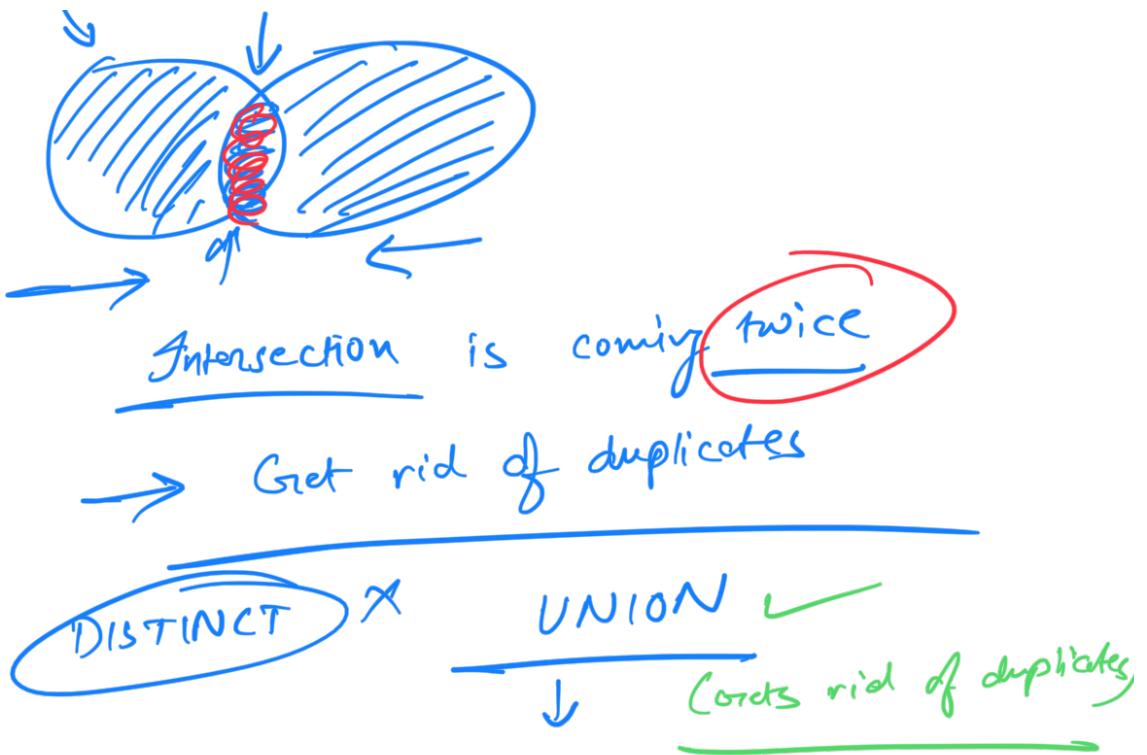
Outer Join

P_id	name	Pcat_id	cat_id	cat-name
1	-	1	1	
2	-	2	2	
3	-	2	2	
4	-	4	NULL	
5	-	1	3	Z
	NULL	NULL	NULL	NULL
	NULL	1	1	
	NULL	NULL	5	
	NULL	NULL	NULL	NULL

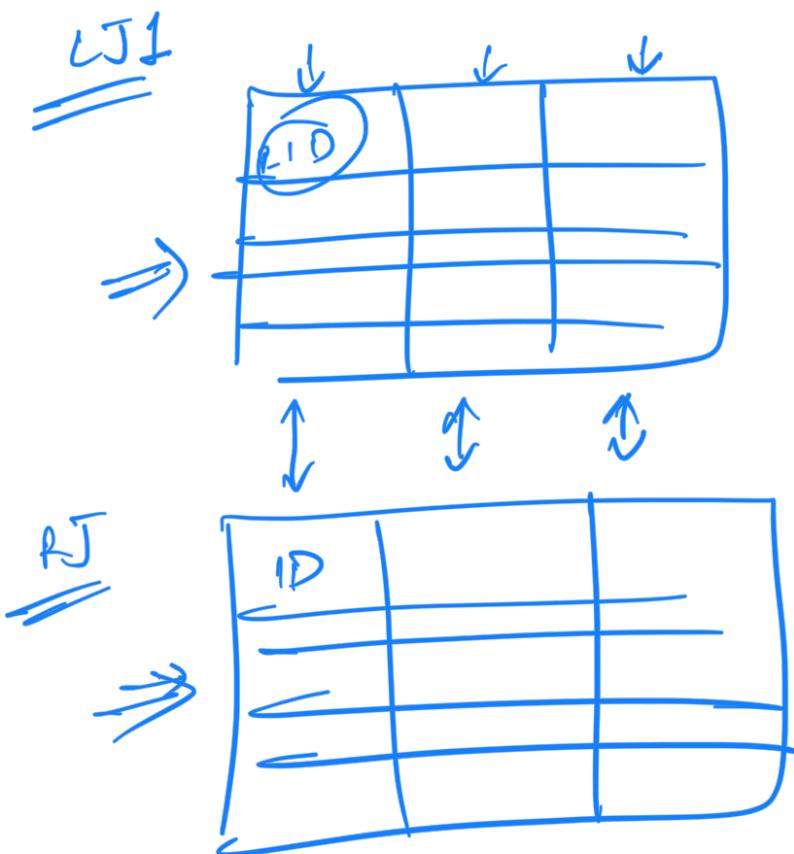
Syntax :

Bigdquery : OUTER JOIN

MySQL → NO Outer Join



Outer in MySQL → ① Left Join → o/p  
 → ② Append the o/p to  
 Right Join's o/p



- UNION conditions
- ① Same no. of cols
  - ② Data type should be same
  - ③ Order of cols should also be same.

Outer

How to get rid of intersection  
duplicates which are  
being counted twice?

- UNION → Gets rid of duplicates
- UNION ALL → Doesn't remove duplicates

# New Customers

