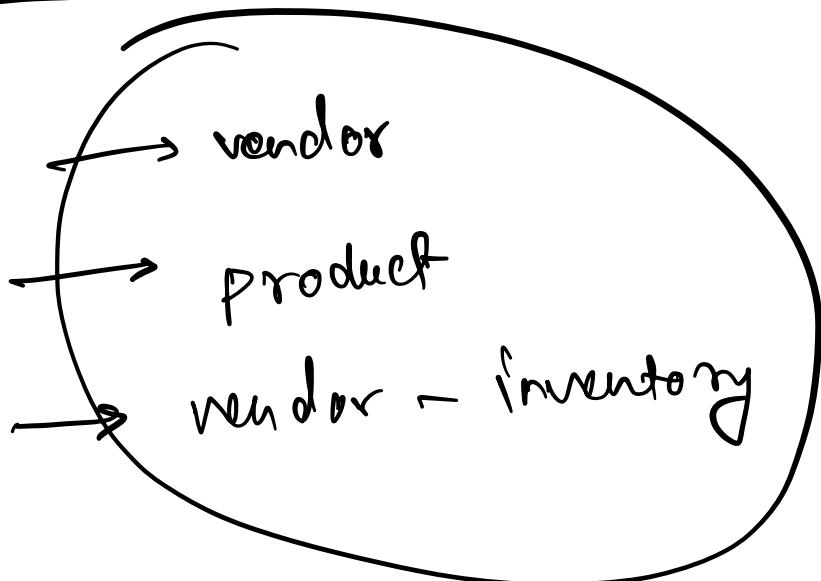


Joins - ↗

3 tables :-

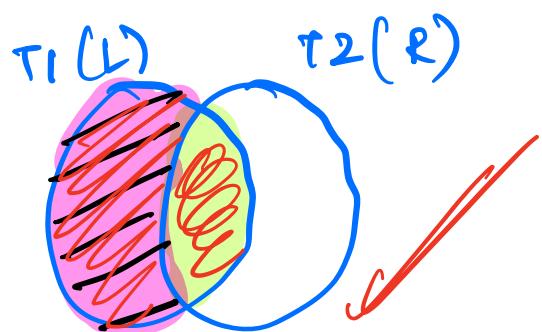


(Q) list all the products along
with their product category
name.

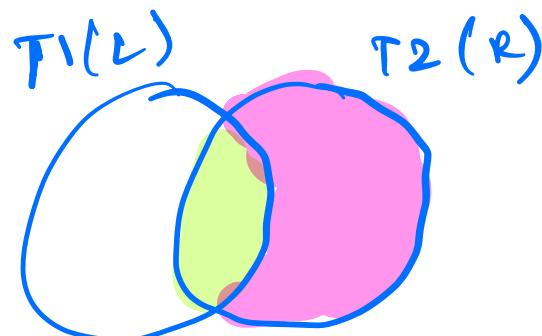
→ product & product - category,

Concept : Types of Joins

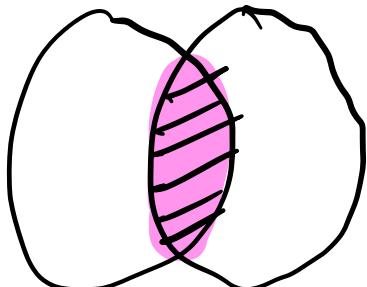
① left Join



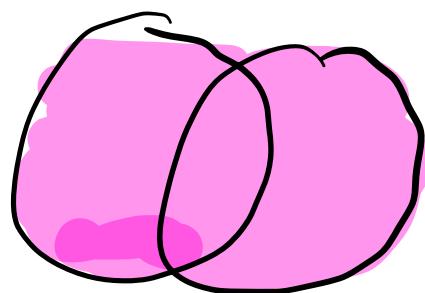
② Right Join



③ Inner Join



④ full Join



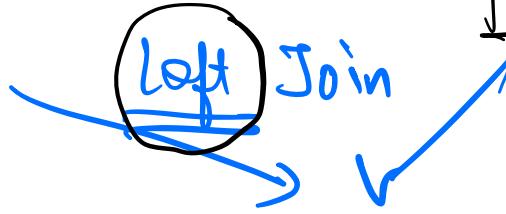
leg

Product

product - category

P_id	P_name	P_cat_fd
1	A	3
2	B	2
3	C	1
4	D	4
5	E	3
6	F	8

P_cat_id	P_cat_name
1	X
2	Y
3	Z
4	M
5	N



P_id	P_name	P_cat_id	P_cat_fd	P_cat_name
1	A	3	3	Z
2	B	2	2	Y
3	C	1	1	X
4	D	4	4	M
5	E	3	3	Z
6	F	8	NULL	NULL

Product

P_id	P_name	P_cat_id
1	A	3
2	B	2
3	C	1
4	D	4
5	E	3
6	F	8

product - category

P-cat-id	P-cat-name
1	X
2	Y
3	Z
4	Z
5	Z

Right Join



P_id	P_name	P_cat_id	P_cat_id	P_cat_name
3	C	1	1	X
2	B	2	2	Y
1	A	3	3	Z
5	E	3	4	Z
4	D	4	5	Z
6	F	8	NULL	NULL

Product

product - category

P-id	P-name	P-cat-fd
1	A	3
2	B	2
3	C	1
4	D	4
5	E	5
6	F	8

P-cat-id	P-cat-name
1	X
2	Y
3	Z
4	Z
5	Z

Inner Join

P-id	P-name	P-cat-fd	P-cat-id	P-cat-name

Product

P_id	P-name	P.cat-fd
1	A	3
2	B	2
3	C	1
4	D	4
5	E	3
6	F	8

product - category

P-cat-id	P-cat-name
1.	X
2.	Y
3.	Z
4.	Z
5.	Z

full Join

P_id	P_name	P_cat-fd	P_cat_id	P_cat-name
1		3	3	
2		2	2	
3		1	1	
4		4	Y	
5		3	3	
6		8	NUL	NUL

Syntax :-

Select



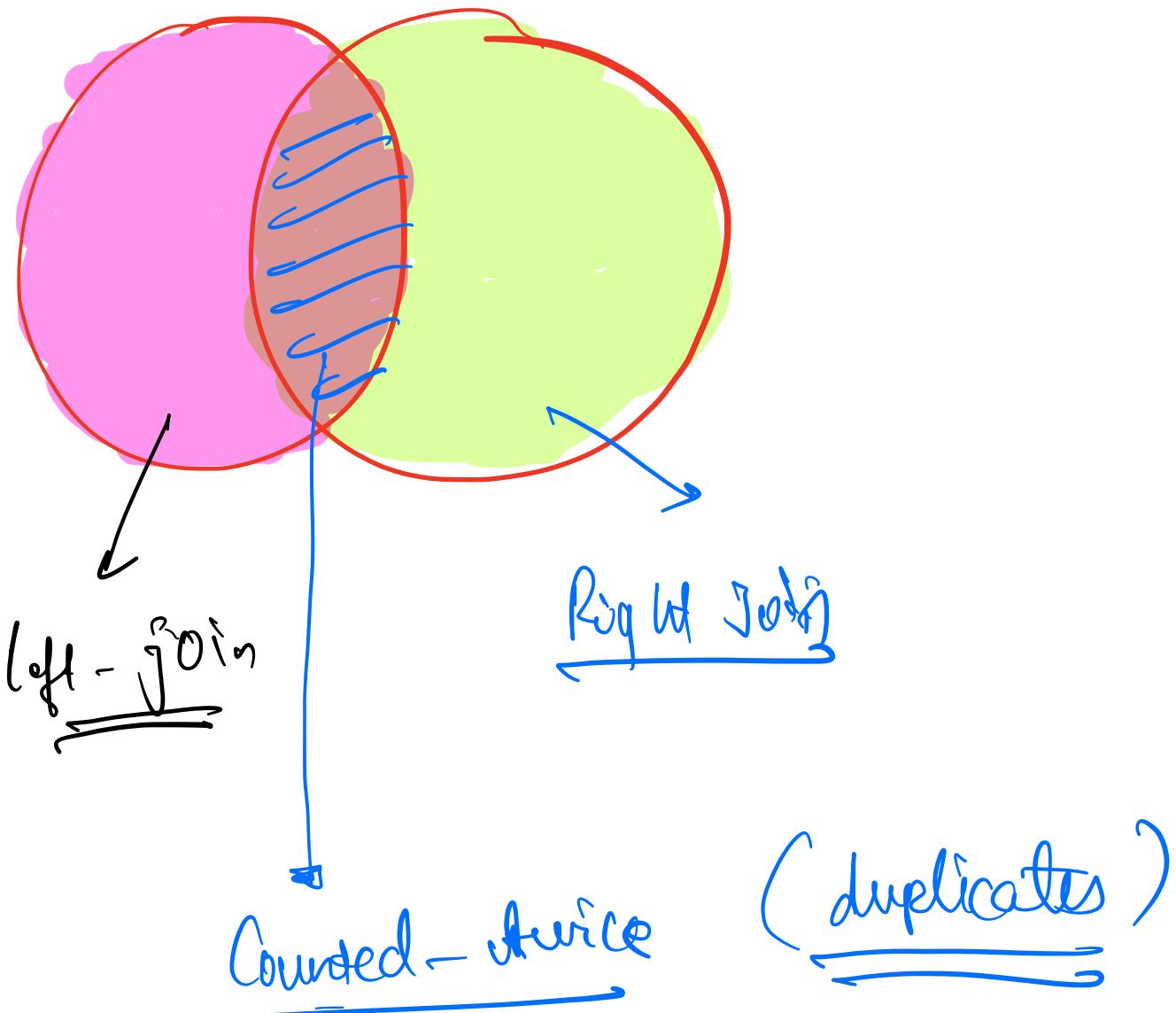
from [left - table]

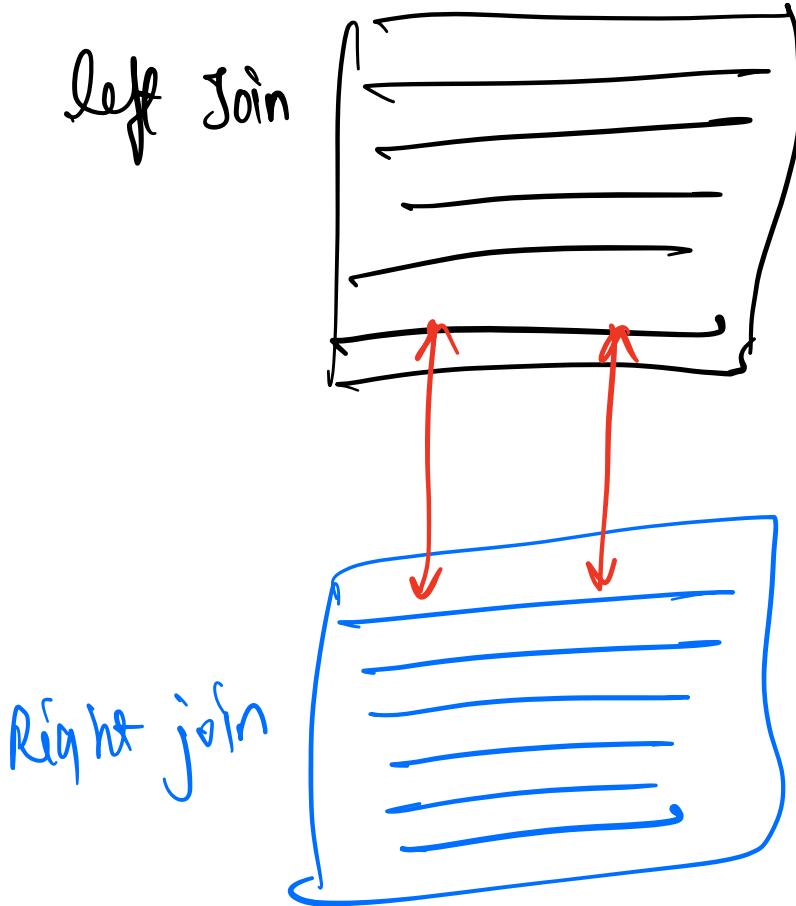
[join-type] [right - table]

ON [left-table], [field-to-join]

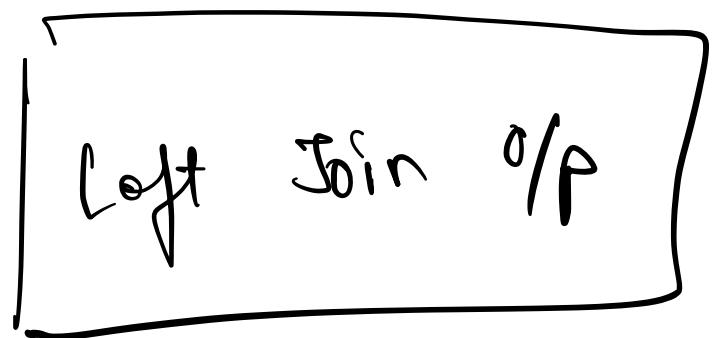
= [right-table], [field-to-join]

* FULL JOIN (not available in
MySQL)





full Join



(MySQL)
By default
gets rid of duplicates

UNION

Right Join O/P

MySQL



UNION

No duplicates

BigQuery



UNION DISTINCT

UNION ALL

Union

Rules:

The should have
same no. of cols.

Rule 1:

Ordering of Cols
should also
be same

Rule 2:

Data type
of cols should
be same.

Q1:

	id	val	Date	oe
1				
2				
3				

Q2:

	id	Date	val
A			
B			
C			

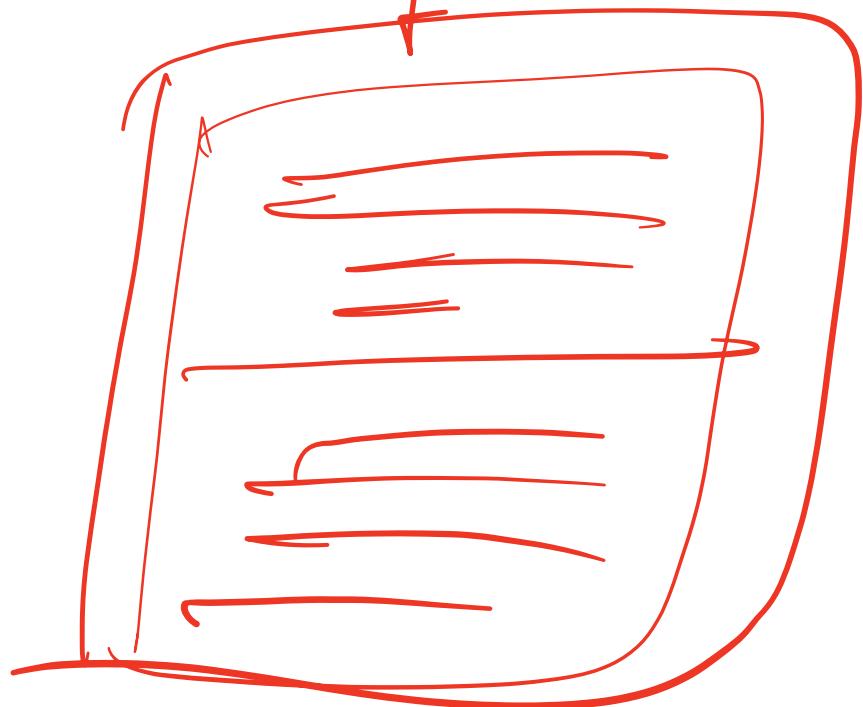
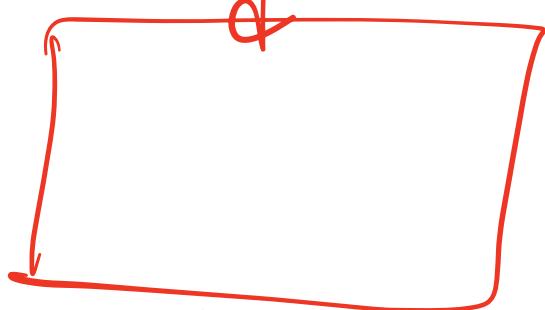
Seller

2019



Seller

2020



Vegetables

item-id	Name	Price
1	"Tomato"	100
2	"Onion"	20
3	"Potato"	50

Table 2 :-

Fruits

item-id	Name	Price
4	"Banana"	200
5	"Apple"	180

(S)

①

Now to the market

C✓
CPX

②

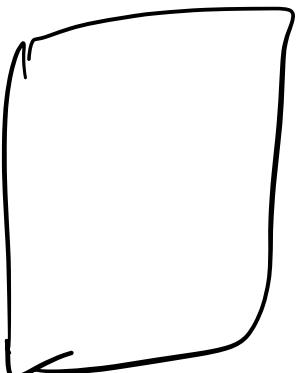
Deleted their acc

C X

CP ✓

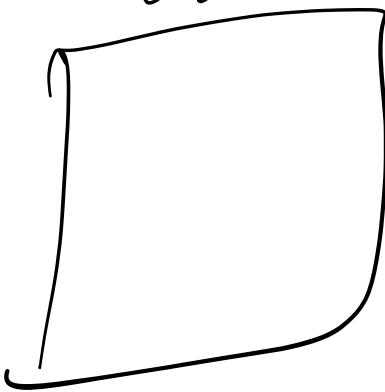
Assumptions

Cust



Now ✓

Cust - P



X

Deleted X

✓