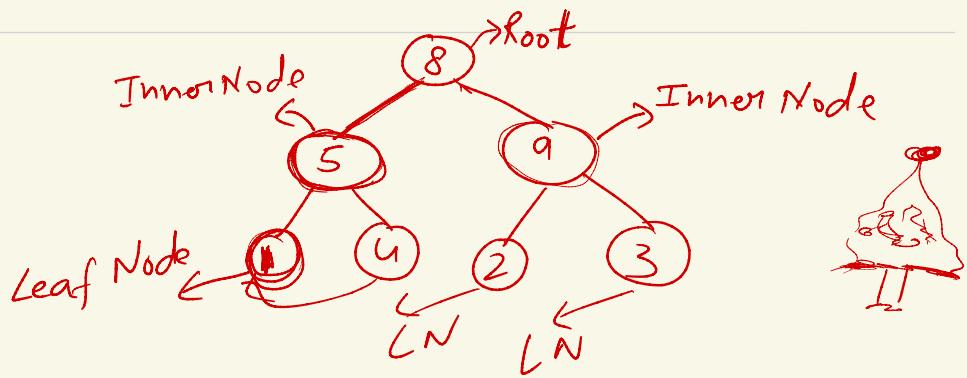



USER Interview - SQL Question



* tree(node, parent)

node	, Parent
5	, 8
9	, 8
4	, 5
2	, 9
1	, 5
3	, 9
8	, NULL

(8, 9, 5)

Q1) Write a query to print the Type of each node

Node , Type

5 , INNER

9 , INNER

? ? ?

4 , LEAF
1 , LEAF
2 , LEAF
3) LEAF
8 , Root

Select
node,

Case

when node not in (Select distinct

} Parent
from tree
where parent is
not null)
then 'LEAF'

when ~~node~~ Parent is null then "Root"

else "Inner",

end Type

from tree;

Amazon SQL

transaction

Payment \rightarrow ONLINE
 \rightarrow CASH

tx-date, merchant, amount, payment-mode

2-Apr-22, m1, 150, CASH

2-Apr-22, m1, 500, ONLINE

3-Apr-22, m2, 450, ONLINE

3-Apr-22, m1, 100, CASH

3-Apr-22, m3, 600, CASH

5-Apr-22, m5, 200, ONLINE

5-Apr-22, m2, 100, ONLINE

Q.) Write a query to calculate

total amount received in CASH &
receive ONLINE for each merchant?

merchant, cash-amount, online-amount

m1, 250, 506

m2, 0, 550

m3, 600, 0

m5, 0, 200

Select merchant-id,

m1, 150, CASH

m1, 50, ONLINE

m1, 100, CASH

first case when

Case when Payment-made = 'CASH'
(then sum(amount))

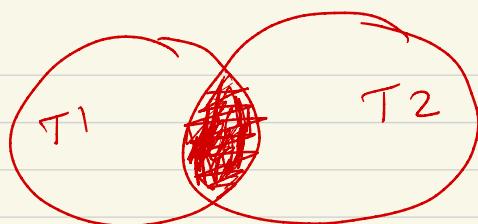
Sum →

m1,	{	150	}		m1, Sum(150)
m1,	{	0	}		m1, Sum(0)
m1,	{	100	}		m1, Sum(100)
				<hr/>	
				250	

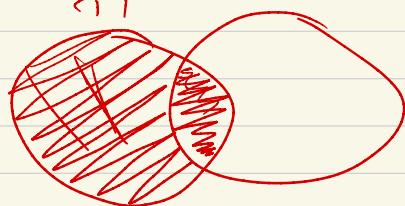
Joins in SQL ($\times \times \times$)

- ↳ Inner Join
- ↳ Left Join
- ↳ Right Join
- ↳ Cross Join

Inner Join

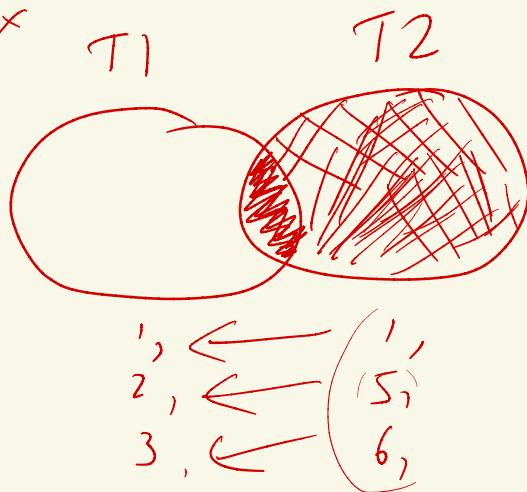


Left Join



{
1, 1
2, null
3, null

~~Right Join~~

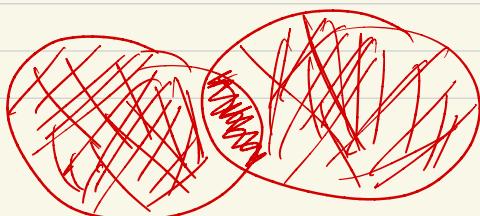


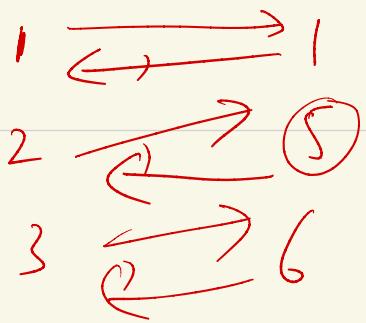
1, 1
null, 5
null, 6

CROSS JOIN (FULL OUTER JOIN)

LJ + RJ

T1 T2





Result

1, 1

2, null

3, null

null, 5

null, 6

