Group By Clause

→ Grouping Key

→ Any other column apart from group by can only be used with aggregation function

USA, S1, 2
USA, S2, 4
USA, S1, 5
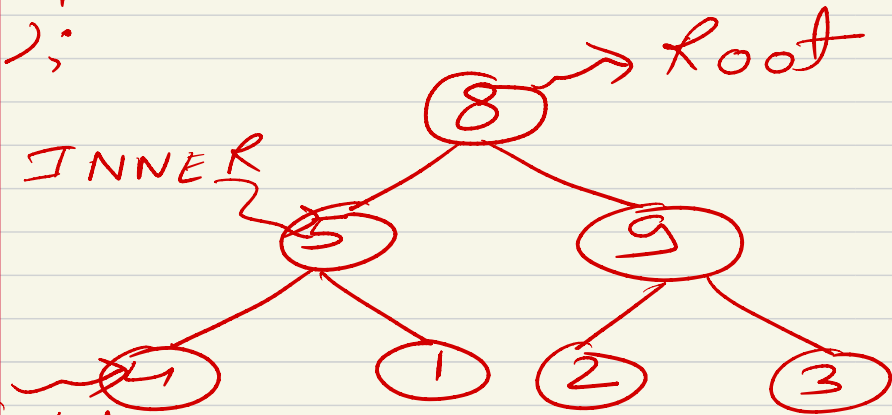USA, S2, 10

group by country, state

USA , S1 , 2
VSA , S1 , 5

USA , S2 , 10
USA , S2 , 4

Create table tree
(
 node int,
 parent int
);

INNER

8 → Root

5   9

4   1   2   3

Leaf Node

Node,	Parent
5	8
9	8
4	5
2	9

Node, Node-Type

1 , 5

3 , 9

5, INNER   8 , Null   ⇒ ✖

9, INNER

4, LEAF

2 , '' '

1 , '' ''

3 , '' ''

8 , ROOT

Case
    when parent is null then 'Root'
when node in (select distinct parent
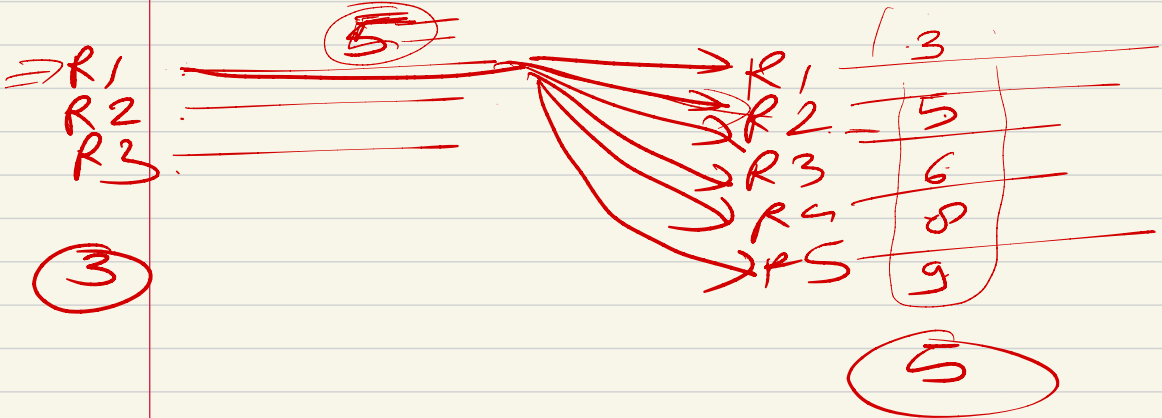   from tree where
                parent in not null)
    Then 'INNER'
    else 'LEAF'

Tb1

C1, C2, (C3)

Tb2

C4, (C5,) C6

R1
R2
R3

(3)

R1   3
R2 = 5
R3   6
R4   8
R5   9

(5)

Tb1 Cross Join Tb2

$$1 \times 5$$

$$3 = 3 \times 5$$

$$= (15)$$

Select *
From (Tb1)
INNER JOIN (Tb2)

ON Tb1.C3 = Tb2.C5

Tb1	Tb2
A	B
2	2
5	4
1	3
2	8
4	
1	
5	
4	
4	

INNER

LEFT → # 2 → 2
2 → 2   4 → 3
5 → 1
2 → 1   5
4 → 3
2 → 1
5 → 1   9