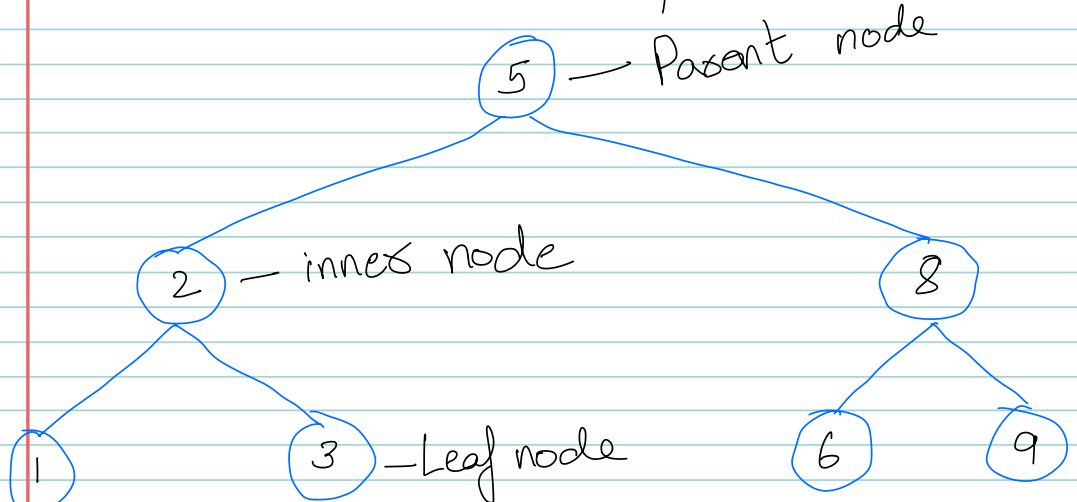
Q1) What is indexed (dimns?)
Q2) How Join tables considering the relationship

Rough Notes

N	P	Row_Number	Rank	Dense Rank
1	2	1	1	1
3	2	2	1	1
6	8	1	3	2
9	8	2	3	2
2	5	1	5	3
8	5	2	5	3
5	N	1	7	4

Desired output is to get Numbers of Binary tree Label.



Now write a Logic for Parent, inner & Leaf nodes

When integer exist in both Column in any row then it is

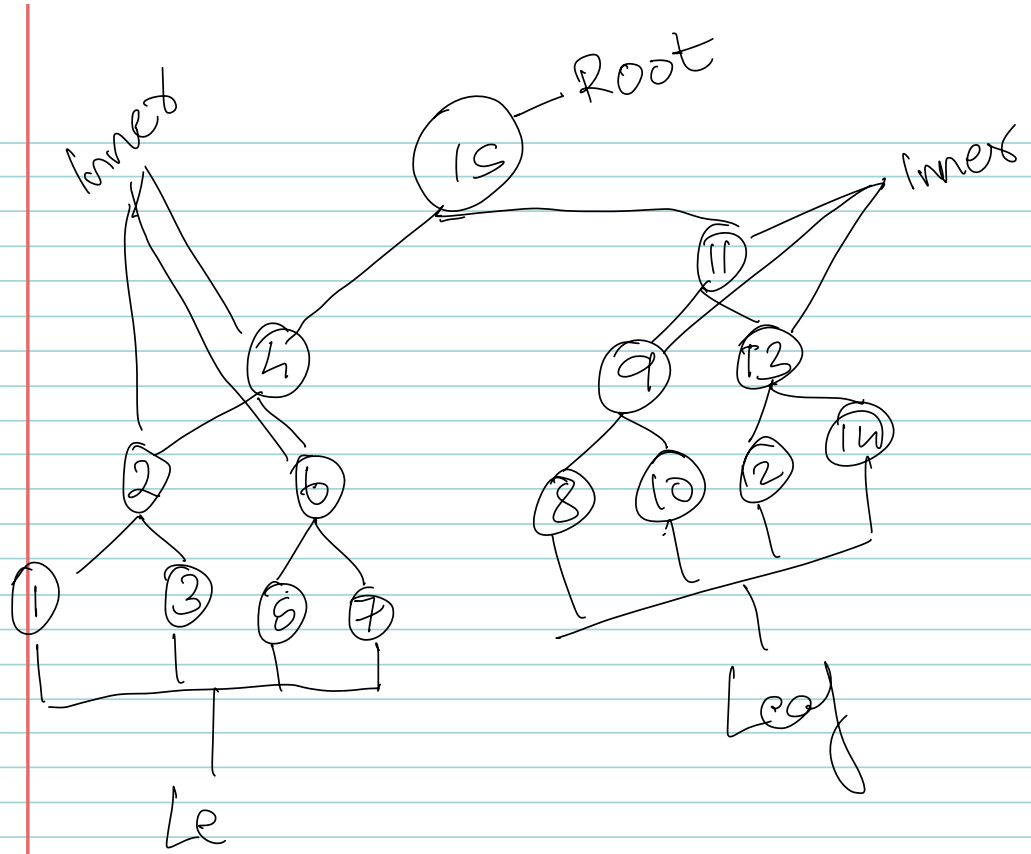
inner node

inner node integer in p Column - Corresponding to that row in N Column is Leaf node

When there is Null in p Column then Corresponding to that row in N Column is Parent node

3 tables

Root	Inner_node	Leaf
15	2	1
	6	3
	4	5
	9	7
	13	8
	11	10
	15	12
		14



Founder
⇓
Lead Manager
⇓
Senior Manager
⇓
Manager
⇓
Employee

output

Print - Company_Code, founder name,
Total Lead Manager
Total Senior Manager
Total Managers
Total Employees

} Order By Company_Code

Company Table:

company_code	founder
C1	Monika
C2	Samantha

Manager Table:

manager_code	senior_manager_code	lead_manager_code	company_code
M1	SM1	LM1	C1
M2	SM3	LM2	C2
M3	SM3	LM2	C2

Lead_Manager Table:

lead_manager_code	company_code
LM1	C1
LM2	C2

Employee Table:

employee_code	manager_code	senior_manager_code	lead_manager_code	company_code
E1	M1	SM1	LM1	C1
E2	M1	SM1	LM1	C1
E3	M2	SM3	LM2	C2
E4	M3	SM3	LM2	C2

Senior_Manager Table:

senior_manager_code	lead_manager_code	company_code
SM1	LM1	C1
SM2	LM1	C1
SM3	LM2	C2

C1		LM1	C1	SM1	LM1	C1
C2		LM2	C2	SM2	LM2	C2
C3		LM3	C3	SM3	LM3	C3
C4		LM4	C4	SM4	LM4	C4
C5		LM5	C5	SM5	LM5	C5
C6						
C7						
C8						

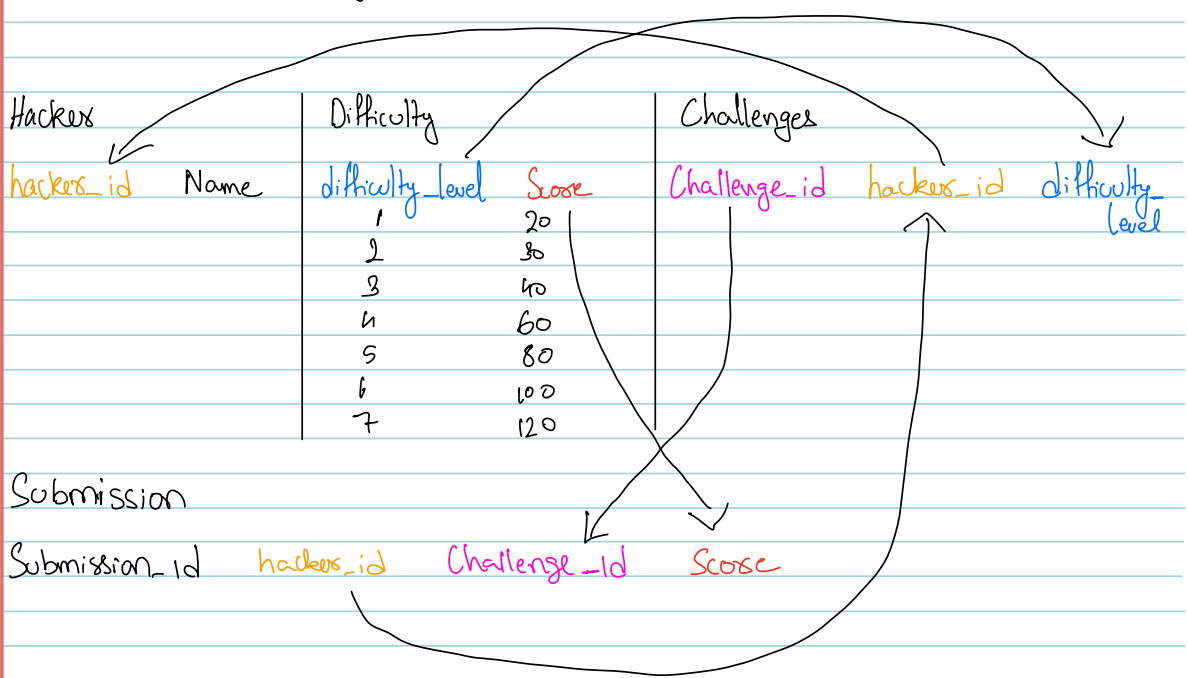
RN	LAT	LAG
1	0.2345	00.000
2	24.674	0.2345
3	32.734	24.674
4	34.784	32.734

$$\frac{32.73 + 24.6}{2}$$

Kelly → Eve generate report with 3 columns.

1) Grades lower than 8 - Names must be removed
2) Report must be ORDER BY Grade DESC
3) More students with same grade (8-10) - ORDER BY name alpha
4) If the grade < 8 use NULL as names & list by ORDER BY Grades DESC
5) More than one student with grade (1-7) - ORDER BY Marks in ASC

1) Hacker id & name who got full scores more than one challenge
   Orders the result based on count of perfect scores in DESC.
2) If more than one Hackers got full score in same count of challenges - ORDER BY ASC hacker_id.



Hacker ∞ Challenges ∞ Submission ∞ Difficulty.

Print id, age, coins_needed & power

ORDER BY Power DESC

If a wand has same power then ORDER BY Age DESC

Print -> hacker_id, name, total No. of Challenges

- ORDER BY Challenges DESC
- Students >1 who created same No. of challenges & the count is less than max challenges created then exclude those students from result.

hacker_id	name	Challeng_id	
123	Aaj	50	—
342	jab	50	—
356	Sab	42	
936	SUP	42	
735	Chum	40	—
731	Cham	39	—

```
SELECT *
FROM Group_Cha
Where Challenge_id = (select Max(Challenge_id)
                      From challenges)
```