## **80\_Tree Node Medium - Solution**

Source - <a href="https://leetcode.com/problems/tree-node/">https://leetcode.com/problems/tree-node/</a>

## **Running Notes:**

- we need to classify the node
  - Leaf it has parent node + it does not have child nodes
  - Inner It has a parent node + it has child nodes
  - Root its parent node is null

-- Write your PostgreSQL query statement below SELECT id,

**CASE** 

WHEN p\_id IS NULL THEN 'Root'

WHEN p\_id IS NOT NULL and id IN (SELECT DISTINCT(p\_id) FROM Tree) THEN '

ELSE 'Leaf'

END AS type

**FROM Tree** 

- Here I am finding if the parent node is null that means it doesnt have a parent node because it is the root node
- Then I am seeing if it has a parent node and that specific id (node) is also a
  part of the parent nodes then it is an inner node
- else it is a leaf node

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