Return the result table **ordered** by id **in ascending order**. The query result format is in the following example. Example 1:

Input: Tree table: +---+ | id | p\_id | +----+ | 1 | null | | 2 | 1 | | 3 | 1 | | 4 | 2 | | 5 | 2 | +----+ Output: +----+ | id | type | +----+ | 1 | Root | | 2 | Inner | | 3 | Leaf | | 4 | Leaf | | 5 | Leaf | +----+ **Explanation:** 

Node 1 is the root node because its parent node is null and it has child nodes 2 Node 2 is an inner node because it has parent node 1 and child node 4 and 5. Nodes 3, 4, and 5 are leaf nodes because they have parent nodes and they do not have child nodes.

## Input: Tree table: +----+ | id | p\_id | +----+ | 1 | null | +----+ Output: +----+

the node's p\_id is null.

Example 2:

| id | type | +----+ | 1 | Root | +----+ Explanation: If there is only one node on the tree, you only need to output its root attributes.

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Database Hide Hint 1

You can judge the node type by querying whether the node's id shows up in p\_id column and whether

 
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