```
1 --Chetanya_Yadav
 2 --Celebal_Technologies
 3 --Student_id:CT_CSI_SQ_1260
 5 WITH FileHierarchy AS (
     -- Start with each node as its own root
 6
     SELECT
 7
 8
       NodeID AS RootID,
 9
       NodeID,
10
       SizeBytes
11
    FROM FileSystem
12
13
     UNION ALL
14
    -- Recursively join children
15
16
     SELECT
       fh.RootID,
17
18
       fs.NodeID,
19
       fs.SizeBytes
20
     FROM FileHierarchy fh
21
     JOIN FileSystem fs ON fs.ParentID = fh.NodeID
22 )
23
24 -- Final aggregation
25 SELECT
26
     fs.NodeID,
27
     fs.NodeName,
28
     SUM(COALESCE(fh.SizeBytes, 0)) AS SizeBytes
29 FROM FileHierarchy fh
30 JOIN FileSystem fs ON fs.NodeID = fh.RootID
31 GROUP BY fs.NodeID, fs.NodeName
32 ORDER BY fs.NodeID;
33
```