

Q.Do the hierarchy query using parts table to get below output Hierarchy

Parts				
<u>Partid</u>	ParentPARTID	PartID	TopMostParent	Hierarchy
A	A	A	A	A->B->C,D->E
B	A	B	A	F->G->H->I->J
C	B	C	A	
D	B	D	A	
E	D	E	A	
F	F	F	F	
G	F	G	F	
H	G	H	F	
I	H	I	F	
J	I	J	F	

A->B->C,D->E
F->G->H->I->J

Query

```
with recursive cte
as
( select partid originalpartid, parentpartid immediateparent,
parentpartid
topmostparent, 0 level from parts
union all
select originalpartid, immediateparent, p.parentpartid, level+1 from
cte c join parts p
where c.topmostparent=p.partid
and p.partid<>p.parentpartid)
select concat(topmostparent,'->', group_concat(originalpartid separator
'->'))
hierarchy
from
(select topmostparent, level, group_concat(originalpartid separator',')
originalpartid from (select*, row_number() over(partition by
originalpartid order by level desc) rn
from cte) t2
where rn=1 and originalpartid <>topmostparent
group by topmostparent,level) as t3
group by topmostparent;
```

Output

```
+-----+
| hierarchy      |
+-----+
| A->B->C,D->E   |
| F->G->H->I->J   |
+-----+
```