**Problem 3  
Query:**

SELECT P.bpname

, D.companyname

, sum(F.quantity) AS TotalQuantity

, sum(F.extcost) AS TotalExtCost

FROM branch\_plant\_dim P

INNER JOIN company\_dim D

ON P.companykey = D.companykey

INNER JOIN inventory\_fact F

ON P.branchplantkey = F.branchplantkey

WHERE F.transtypekey = 2

GROUP BY rollup(P.bpname, D.companyname);

**Output:**

