Problem 7:

Rewrite query 3 without the usage of the CUBE, ROLLUP, or GROUPING SETS operators. In rewriting the query, you should use NULL as the default value for each column.

Ans:

SELECT CompanyName, BPName, SUM(ExtCost), SUM(Quantity)

FROM Inventory\_Fact I

INNER JOIN Branch\_Plant\_Dim B ON I.BranchPlantKey = B.BranchPlantKey

INNER JOIN Company\_Dim C ON B.CompanyKey = C.CompanyKey

WHERE TransTypeKey = 2

GROUP BY CompanyName, BPName

UNION

SELECT CompanyName, NULL, SUM(ExtCost), SUM(Quantity)

FROM Inventory\_Fact I

INNER JOIN Branch\_Plant\_Dim B ON I.BranchPlantKey = B.BranchPlantKey

INNER JOIN Company\_Dim C ON B.CompanyKey = C.CompanyKey

WHERE TransTypeKey = 2

GROUP BY CompanyName

UNION

SELECT NULL, NULL, SUM(ExtCost), SUM(Quantity)

FROM Inventory\_Fact I

INNER JOIN Branch\_Plant\_Dim B ON I.BranchPlantKey = B.BranchPlantKey

INNER JOIN Company\_Dim C ON B.CompanyKey = C.CompanyKey

WHERE TransTypeKey = 2;

