## Query 6: Rewrite Query 1 without CUBE, ROLLUP, or GROUPING SETS

SELECT CalMonth, AddrCatCode1, SUM(ExtCost), SUM(Quantity)

FROM Inventory\_Fact I

INNER JOIN Date\_Dim D ON I.DateKey = D.DateKey

INNER JOIN Cust\_Vendor\_Dim C ON I.CustVendorKey = C.CustVendorKey

WHERE TransTypeKey = 5 AND D.CalYear = 2011

GROUP BY CalMonth, AddrCatCode1

UNION

SELECT NULL, AddrCatCode1, SUM(ExtCost), SUM(Quantity)

FROM Inventory\_Fact I

INNER JOIN Date\_Dim D ON I.DateKey = D.DateKey

INNER JOIN Cust\_Vendor\_Dim C ON I.CustVendorKey = C.CustVendorKey

WHERE TransTypeKey = 5 AND D.CalYear = 2011

GROUP BY AddrCatCode1

UNION

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

FROM Inventory\_Fact I

INNER JOIN Date\_Dim D ON I.DateKey = D.DateKey

INNER JOIN Cust\_Vendor\_Dim C ON I.CustVendorKey = C.CustVendorKey

WHERE TransTypeKey = 5 AND D.CalYear = 2011

GROUP BY CalMonth

UNION

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

FROM Inventory\_Fact I

INNER JOIN Date\_Dim D ON I.DateKey = D.DateKey

INNER JOIN Cust\_Vendor\_Dim C ON I.CustVendorKey = C.CustVendorKey

WHERE TransTypeKey = 5 AND D.CalYear = 2011;

