Problem 3:

The query of the module 2 assignment:

SELECT d.calmonth, cv.addrcatcode1,

SUM(inv.extcost) AS TotalExtCost, SUM(inv.quantity) AS TotalQty

FROM Inventory\_fact inv, Date\_dim d, Cust\_Vendor\_dim cv

WHERE inv.transtypekey = 5 AND d.calyear = 2011 AND

d.datekey = inv.datekey AND cv.custvendorkey = inv.custvendorkey

GROUP BY CUBE(d.calmonth, cv.addrcatcode1);

Notes to the rewriting:

 The view SalesByVendorDateKeyMV2012 cannot be used because the selection criteria on the year

does not match.

 The view SalesByVendorDateKeyMV2011 can be used:

o Selection criteria on the transtypekey and the calyear in the where clause match exactly.

o Grouping attributes match because

datekey  calmonth and custvendorkey  addrcatcode1

o The grouping with aggregation and cube operator has to be done again on the required level

(addrcatcode1 and calmonth).

SQL:

SELECT d.calmonth, cv.addrcatcode1,

SUM(v11.totalextcost) AS TotalExtCost,

SUM(v11.totalqty) AS TotalQty

FROM SalesByVendorDateKeyMV2011 v11, Date\_dim d, Cust\_Vendor\_dim cv

WHERE d.datekey = v11.datekey AND cv.custvendorkey = v11.custvendorkey

GROUP BY CUBE(d.calmonth, cv.addrcatcode1);

Results screenshot (78 result rows):

