## Query 9: Sales Order Shipments by Month and Category Code1 with Group Number

Write an SQL statement to display the sum of the extended cost and the sum of the quantity. The results should include data for shipments (transaction type 5) in calendar year 2011. Summarize the result by calendar month and Address Category Code 1. The result should include the grouped columns and the full set of subtotals for every combination of grouped columns along with the hierarchical group number for both grouping columns. Do not use the GROUPING SETS and UNION operators. (Hint: see the group functions slide in lesson 5).

**Answer:**

SELECT CALMONTH,

ADDRCATCODE1,

SUM(EXTCOST) AS TOTAL\_COST,

SUM(QUANTITY) AS TOTAL\_QUANTITY,

GROUPING\_ID(CALMONTH, ADDRCATCODE1) AS GROUP\_LEVEL

FROM INVENTORY\_FACT F

JOIN DATE\_DIM D

ON F.DATEKEY = D.DATEKEY

JOIN CUST\_VENDOR\_DIM C

ON F.CUSTVENDORKEY = C.CUSTVENDORKEY

WHERE TRANSTYPEKEY = 5

AND D.CALYEAR = 2011

GROUP BY CUBE (CALMONTH, ADDRCATCODE1)

ORDER BY CALMONTH,ADDRCATCODE1;

