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

Rewrite query 1 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.

**Answer:**

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| SELECT D.CALMONTH, C.ADDRCATCODE1,SUM(EXTCOST) AS TOTAL\_COST, SUM(QUANTITY) AS TOTAL\_QUANTITY |
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|  |
| --- |
| FROM INVENTORY\_FACT F JOIN DATE\_DIM D ON F.DATEKEY = D.DATEKEY |
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| --- |
| JOIN CUST\_VENDOR\_DIM C ON F.CUSTVENDORKEY = C.CUSTVENDORKEY |
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| --- |
| WHERE TRANSTYPEKEY = 5 AND D.CALYEAR = 2011 |
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| --- |
| GROUP BY D.CALMONTH, C.ADDRCATCODE1 |
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| --- |
| UNION |
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| --- |
| SELECT D.CALMONTH, NULL,SUM(EXTCOST), SUM(QUANTITY) |
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| --- |
| FROM INVENTORY\_FACT F JOIN DATE\_DIM D ON F.DATEKEY = D.DATEKEY |
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| --- |
| JOIN CUST\_VENDOR\_DIM C ON F.CUSTVENDORKEY = C.CUSTVENDORKEY |
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| --- |
| WHERE TRANSTYPEKEY = 5 AND D.CALYEAR = 2011 |
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| --- |
| GROUP BY D.CALMONTH |
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| --- |
| UNION |
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| --- |
| SELECT NULL, C.ADDRCATCODE1,SUM(EXTCOST), SUM(QUANTITY) |
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|  |
| --- |
| FROM INVENTORY\_FACT F JOIN DATE\_DIM D ON F.DATEKEY = D.DATEKEY |
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| --- |
| JOIN CUST\_VENDOR\_DIM C ON F.CUSTVENDORKEY = C.CUSTVENDORKEY |
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| --- |
| WHERE TRANSTYPEKEY = 5 AND D.CALYEAR = 2011 |
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| --- |
| GROUP BY C.ADDRCATCODE1 |
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| --- |
| UNION |
|  |

|  |
| --- |
| SELECT NULL, NULL,SUM(EXTCOST), SUM(QUANTITY) |
|  |

|  |
| --- |
| FROM INVENTORY\_FACT F JOIN DATE\_DIM D ON F.DATEKEY = D.DATEKEY |
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| --- |
| JOIN CUST\_VENDOR\_DIM C ON F.CUSTVENDORKEY = C.CUSTVENDORKEY |
|  |

|  |
| --- |
| WHERE TRANSTYPEKEY = 5 AND D.CALYEAR = 2011 |
|  |

ORDER BY 1,2;

