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3BSCS-2

# Lab Assignment 5: Subtotal Operators

### Query 1: Sales Order Shipments by Month and Category Code1

```
1   --Query 1: Sales Order Shipments by Month and Category Code1--
2
3   SELECT calMonth, addrCatCode1,
4          SUM(EXTCOST) AS SumExCost,
5          SUM(QUANTITY) AS SUMQUANTITY
6   FROM INVENTORY_FACT as i, DATE_DIM as d,
7          CUST_VENDOR_DIM as c
8   WHERE d.datekey = i.datekey
9      AND i.custVendorKey = c.custVendorKey
10     AND i.transTypeKey = 5
11     AND d.calYear = 2011
12  GROUP BY CUBE(calMonth, addrCatCode1)
13  ORDER BY calMonth, addrCatCode1;
```

History | **Results**

**Result set 1** | Details

Q Filter table                                                          Total:78

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| 1 | 1 | 12876795.00 | 12970.0000 |
| 1 | 2 | 6856150.00 | 7004.0000 |
| 1 | 3 | 5643236.00 | 5629.0000 |
| 1 | 4 | 5657775.00 | 5691.0000 |
| 1 | 5 | 8189894.00 | 8368.0000 |
| 1 | - | 39223850.00 | 39662.0000 |
| 2 | 1 | 9481319.00 | 8983.0000 |
| 2 | 2 | 6808224.00 | 6935.0000 |
| 2 | 3 | 4023869.00 | 4139.0000 |

Items per page: 50 ⌄    1–50 of 78 items                    1 ⌄  of 2 pages  ◄  ►

Q Filter table                                                          Total:78

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| 12 | 3 | 4383227.00 | 4394.0000 |
| 12 | 4 | 4313641.00 | 4449.0000 |
| 12 | 5 | 5975486.00 | 6439.0000 |
| 12 | - | 30723372.00 | 31574.0000 |
| - | 1 | 122255354.00 | 122248.0000 |
| - | 2 | 76074121.00 | 77251.0000 |
| - | 3 | 60696692.00 | 60739.0000 |
| - | 4 | 63554999.00 | 62335.0000 |
| - | 5 | 86055350.00 | 85420.0000 |
| - | - | 408636516.00 | 407993.0000 |

Items per page: 50 ⌄    51–78 of 78 items                    2 ⌄  of 2 pages  ◄  ►

## Query 2: Sales Order Shipments by Name, Zip, and Quarter

```sql
15  --Query 2: Sales Order Shipments by Name, Zip, and Quarter--
16  SELECT d.calQuarter, c.zip, c.name,
17         SUM(EXTCOST) AS SUMexCost,
18         COUNT(*) AS InvTRANSACTIONS
19  FROM INVENTORY_FACT as i, DATE_DIM as d,
20         CUST_VENDOR_DIM as c
21  WHERE d.datekey = i.datekey
22      AND i.custVendorKey = c.custVendorKey
23      AND i.transTypeKey = 5
24      AND d.calYear BETWEEN 2011 AND 2012
25  GROUP BY GROUPING SETS ((calQuarter, zip, c.name),
26      (calQuarter, zip), (zip, c.name),(calQuarter,c.name),
27      calQuarter, zip, c.name,())
28  ORDER BY calQuarter, zip, c.name;
```

**Result set 1**   Details

Filter table                                                                Total:305

| CALQUARTER | ZIP | NAME | SUMEXCOST | INVTRANSACTIONS |
|---|---|---|---|---|
| 1 | 02162 | Customer 11 | 9082032.00 | 94 |
| 1 | 02162 | - | 9082032.00 | 94 |
| 1 | 10231 | Customer 17 | 10594965.00 | 103 |
| 1 | 10231 | - | 10594965.00 | 103 |
| 1 | 10251 | Customer 2 | 11075812.00 | 102 |
| 1 | 10251 | - | 11075812.00 | 102 |
| 1 | 19084 | Customer 9 | 12227671.00 | 114 |
| 1 | 19084 | - | 12227671.00 | 114 |
| 1 | 20054 | Customer 12 | 11000482.00 | 114 |
| 1 | 20054 | - | 11000482.00 | 114 |

Items per page: 50 ∨    1–50 of 305 items                          1 ∨  of 7 pages  ◄ ►

**Result set 1**   Details

Filter table                                                                Total:305

| CALQUARTER | ZIP | NAME | SUMEXCOST | INVTRANSACTIONS |
|---|---|---|---|---|
| - | - | Customer 6 | 38141988.00 | 401 |
| - | - | Customer 7 | 40345742.00 | 407 |
| - | - | Customer 8 | 44576414.00 | 446 |
| - | - | Customer 9 | 41201776.00 | 424 |
| - | - | - | 822589920.00 | 8320 |

Items per page: 50 ∨    301–305 of 305 items                       7 ∨  of 7 pages  ◄ ►

## Query 3: Transfers by Company and Branch Plant

```sql
30  --Query 3: Transfers by Company and Branch Plant--
31  SELECT companyName, BPName, SUM(EXTCOST) AS SUMexCost, SUM(QUANTITY) AS SUMquantity
32  FROM COMPANY_DIM AS CD,
33      BRANCH_PLANT_DIM AS BP,
34      INVENTORY_FACT AS I
35  WHERE i.branchPlantKey = BP.branchPlantKey
36  AND CD.companyKey = BP.companyKey
37  AND I.transTypeKey = 2
38  GROUP BY ROLLUP(companyName,BPName)
39  ORDER BY companyName,BPName;
```

**History**  **Results**

**Result set 1**  Details

Q Filter table                                                      Total:26

| COMPANYNAME | BPNAME | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| Company 1 | Branch Plant 1 | 872065.00 | 1141.0000 |
| Company 1 | Branch Plant 2 | 1452906.00 | 1183.0000 |
| Company 1 | Branch Plant 3 | -992788.00 | -726.0000 |
| Company 1 | Branch Plant 4 | 1011788.00 | 728.0000 |
| Company 1 | - | 2343971.00 | 2326.0000 |
| Company 2 | Branch Plant 5 | 133624.00 | -121.0000 |
| Company 2 | Branch Plant 6 | 183894.00 | 130.0000 |
| Company 2 | Branch Plant 7 | 488275.00 | 205.0000 |
| Company 2 | Branch Plant 8 | -269480.00 | -289.0000 |
| Company 2 | - | 536313.00 | -75.0000 |

**Result set 1**  Details

Q Filter table                                                      Total:26

| COMPANYNAME | BPNAME | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| Company 4 | Branch Plant 14 | 269750.00 | 401.0000 |
| Company 4 | Branch Plant 15 | -674220.00 | -559.0000 |
| Company 4 | Branch Plant 16 | -526426.00 | -574.0000 |
| Company 4 | - | -2193471.00 | -1945.0000 |
| Company 5 | Branch Plant 17 | 1165434.00 | 1059.0000 |
| Company 5 | Branch Plant 18 | -670863.00 | -693.0000 |
| Company 5 | Branch Plant 19 | -282431.00 | -114.0000 |
| Company 5 | Branch Plant 20 | -271104.00 | -102.0000 |
| Company 5 | - | -58964.00 | 150.0000 |
| - | - | 0.00 | 0.0000 |

### Query 4: Inventory Transactions by Transaction Description, Company, and Branch Plant

```
42  --Query 4: Inventory Transactions by Transaction Description, Company, and Branch Plant--
43  SELECT transDescription, companyName, BPName, COUNT(*) AS InvTRANSACTIONS , SUM(EXTCOST) AS SUMexCost
44  FROM INVENTORY_FACT  I, BRANCH_PLANT_DIM  BP, COMPANY_DIM  CD, TRANS_TYPE_DIM  tt
45  WHERE I.branchPlantKey = BP.branchPlantKey
46      AND BP.companyKey = CD.companyKey
47      AND I.transTypeKey = tt.transTypeKey
48  GROUP BY GROUPING SETS ((transDescription, companyName, BPName),
49                          (transDescription, companyName)
50                          ,transDescription,())
51  ORDER BY transDescription, companyName, BPName;
```

**Result set 1**    Details

Q Filter table                                                                    Total:131

| TRANSDESCRIPTION | COMPANYNAME | BPNAME | INVTRANSACTIONS | SUMEXCOST |
|---|---|---|---|---|
| Inventory Adjustement | Company 1 | Branch Plant 1 | 30 | 3188065.00 |
| Inventory Adjustement | Company 1 | Branch Plant 2 | 22 | 2542496.00 |
| Inventory Adjustement | Company 1 | Branch Plant 3 | 18 | 1777790.00 |
| Inventory Adjustement | Company 1 | Branch Plant 4 | 19 | 2042114.00 |
| Inventory Adjustement | Company 1 | - | 89 | 9550465.00 |
| Inventory Adjustement | Company 2 | Branch Plant 5 | 22 | 1829049.00 |
| Inventory Adjustement | Company 2 | Branch Plant 6 | 21 | 2274809.00 |
| Inventory Adjustement | Company 2 | Branch Plant 7 | 15 | 1245359.00 |
| Inventory Adjustement | Company 2 | Branch Plant 8 | 22 | 2067322.00 |
| Inventory Adjustement | Company 2 | - | 80 | 7416539.00 |

Items per page: 50 ∨    1–50 of 131 items                        1 ∨  of 3 pages  ◄  ►

**Result set 1**    Details

Q Filter table                                                                    Total:131

| TRANSDESCRIPTION | COMPANYNAME | BPNAME | INVTRANSACTIONS | SUMEXCOST |
|---|---|---|---|---|
| Sales Order Shipment | Company 4 | Branch Plant 15 | 426 | 42139477.00 |
| Sales Order Shipment | Company 4 | Branch Plant 16 | 436 | 41492781.00 |
| Sales Order Shipment | Company 4 | - | 1652 | 161806965.00 |
| Sales Order Shipment | Company 5 | Branch Plant 17 | 401 | 39629378.00 |
| Sales Order Shipment | Company 5 | Branch Plant 18 | 384 | 37915444.00 |
| Sales Order Shipment | Company 5 | Branch Plant 19 | 413 | 39682587.00 |
| Sales Order Shipment | Company 5 | Branch Plant 20 | 400 | 38645923.00 |
| Sales Order Shipment | Company 5 | - | 1598 | 155873332.00 |
| Sales Order Shipment | - | - | 8320 | 822589920.00 |
| - | - | - | 18300 | 84268940465.00 |

Items per page: 50 ∨    101–131 of 131 items                     3 ∨  of 3 pages  ◄  ►

## Query 5: Adjustments by Part Number

```sql
53   --Query 5: Adjustments by Part Number--
54   SELECT D.calYear, D.calQuarter, CV.name,
55          SUM(EXTCOST) AS SUMexCost, COUNT(*) AS InvTRANSACTIONS
56   FROM INVENTORY_FACT I, DATE_DIM D, CUST_VENDOR_DIM CV
57   WHERE D.dateKey = I.dateKey
58       AND I.custVendorKey = CV.custVendorKey
59       AND I.transTypeKey = 5
60       AND D.calyear BETWEEN 2011 AND 2012
61   GROUP BY CV.name, ROLLUP(D.calYear, D.calQuarter)
62   ORDER BY D.calYear, D.calQuarter, CV.name;
```

**Result set 1**    Details

Filter table                                                                 Total:220

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| 2011 | 1 | Customer 1 | 4695612.00 | 49 |
| 2011 | 1 | Customer 10 | 5765357.00 | 55 |
| 2011 | 1 | Customer 11 | 4870548.00 | 51 |
| 2011 | 1 | Customer 12 | 5412366.00 | 59 |
| 2011 | 1 | Customer 13 | 4524202.00 | 53 |
| 2011 | 1 | Customer 14 | 3980483.00 | 42 |
| 2011 | 1 | Customer 15 | 5297558.00 | 51 |
| 2011 | 1 | Customer 16 | 4373309.00 | 46 |
| 2011 | 1 | Customer 17 | 5428721.00 | 53 |
| 2011 | 1 | Customer 18 | 5202736.00 | 56 |

Items per page: 50    1–50 of 220 items                                 1    of 5 pages

**Result set 1**    Details

Filter table                                                                 Total:220

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| - | - | Customer 19 | 42641911.00 | 428 |
| - | - | Customer 2 | 41472138.00 | 391 |
| - | - | Customer 20 | 40287693.00 | 419 |
| - | - | Customer 3 | 40680456.00 | 410 |
| - | - | Customer 4 | 40990684.00 | 410 |
| - | - | Customer 5 | 38657564.00 | 400 |
| - | - | Customer 6 | 38141988.00 | 401 |
| - | - | Customer 7 | 40345742.00 | 407 |
| - | - | Customer 8 | 44576414.00 | 446 |
| - | - | Customer 9 | 41201776.00 | 424 |

Items per page: 50    201–220 of 220 items                             5    of 5 pages

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

```sql
63  --Query 6: Rewrite Query 1 without CUBE, ROLLUP, or GROUPING SETS--
64  SELECT calMonth, addrCatCode1,
65          SUM(EXTCOST) AS SumExCost,
66          SUM(QUANTITY) AS SUMQUANTITY
67  FROM INVENTORY_FACT as i, DATE_DIM as d,
68          CUST_VENDOR_DIM as c
69  WHERE d.datekey = i.datekey
70      AND i.custVendorKey = c.custVendorKey
71      AND i.transTypeKey =5
72      AND d.calYear = 2011
73  GROUP BY calMonth, addrCatCode1
74      UNION
75  SELECT calMonth, NULL,
76          SUM(EXTCOST) AS SumExCost,
77          SUM(QUANTITY) AS SUMQUANTITY
78  FROM INVENTORY_FACT as i, DATE_DIM as d,
79          CUST_VENDOR_DIM as c
80  WHERE d.datekey = i.datekey
81      AND i.custVendorKey = c.custVendorKey
82      AND i.transTypeKey =5
83      AND d.calYear = 2011
84  GROUP BY calMonth
85      UNION

86  SELECT NULL, addrCatCode1,
87          SUM(EXTCOST) AS SumExCost,
88          SUM(QUANTITY) AS SUMQUANTITY
89  FROM INVENTORY_FACT as i, DATE_DIM as d,
90          CUST_VENDOR_DIM as c
91  WHERE d.datekey = i.datekey
92      AND i.custVendorKey = c.custVendorKey
93      AND i.transTypeKey =5
94      AND d.calYear = 2011
95  GROUP BY addrCatCode1
96      UNION
97  SELECT NULL, NULL,
98          SUM(EXTCOST) AS SumExCost,
99          SUM(QUANTITY) AS SUMQUANTITY
100 FROM INVENTORY_FACT as i, DATE_DIM as d,
101         CUST_VENDOR_DIM as c
102 WHERE d.datekey = i.datekey
103     AND i.custVendorKey = c.custVendorKey
104     AND i.transTypeKey
105     AND d.calYear = 2011
106 ORDER BY calMonth, addrCatCode1;
```

**Result set 1**    Details

🔍 Filter table                  Total:78

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| 1 | 1 | 12876795.00 | 12970.0000 |
| 1 | 2 | 6856150.00 | 7004.0000 |
| 1 | 3 | 5643236.00 | 5629.0000 |
| 1 | 4 | 5657775.00 | 5691.0000 |
| 1 | 5 | 8189894.00 | 8368.0000 |
| 1 | - | 39223850.00 | 39662.0000 |
| 2 | 1 | 9481319.00 | 8983.0000 |
| 2 | 2 | 6808224.00 | 6935.0000 |
| 2 | 3 | 4023869.00 | 4139.0000 |

Items per page: 50 ⌄    1–50 of 78 items           1 ⌄ of 2 pages ◄ ►

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| 12 | 4 | 4313641.00 | 4449.0000 |
| 12 | 5 | 5975486.00 | 6439.0000 |
| 12 | - | 30723372.00 | 31574.0000 |
| - | 1 | 122255354.00 | 122248.0000 |
| - | 2 | 76074121.00 | 77251.0000 |
| - | 3 | 60696692.00 | 60739.0000 |
| - | 4 | 63554999.00 | 62335.0000 |
| - | 5 | 86055350.00 | 85420.0000 |
| - | - | 42367811707.00 | 42262979.0000 |

Items per page: 50 ⌄    51–78 of 78 items           2 ⌄ of 2 pages ◄ ►

## Query 7: Rewrite Query 3 without CUBE, ROLLUP, or GROUPING SETS

```sql
108  --Query 7: Rewrite Query 3 without CUBE, ROLLUP, or GROUPING SETS--
109  SELECT companyName, BPName, SUM(EXTCOST) AS SUMexCost, SUM(QUANTITY) AS SUMquantity
110  FROM COMPANY_DIM AS CD,
111      BRANCH_PLANT_DIM AS BP,
112      INVENTORY_FACT AS I
113  WHERE i.branchPlantKey = BP.branchPlantKey
114      AND CD.companyKey = BP.companyKey
115      AND I.transTypeKey = 2
116  GROUP BY companyName,BPName
117      UNION
118  SELECT companyName, NULL, SUM(EXTCOST) AS SUMexCost, SUM(QUANTITY) AS SUMquantity
119  FROM COMPANY_DIM AS CD,
120      BRANCH_PLANT_DIM AS BP,
121      INVENTORY_FACT AS I
122  WHERE i.branchPlantKey = BP.branchPlantKey
123      AND CD.companyKey = BP.companyKey
124      AND I.transTypeKey = 2
125  GROUP BY companyName
126  UNION
127  SELECT NULL, NULL, SUM(EXTCOST) AS SUMexCost, SUM(QUANTITY) AS SUMquantity
128  FROM COMPANY_DIM AS CD,
129      BRANCH_PLANT_DIM AS BP,
130      INVENTORY_FACT AS I
131  WHERE i.branchPlantKey = BP.branchPlantKey
132      AND CD.companyKey = BP.companyKey
133      AND I.transTypeKey = 2
134  ORDER BY companyName,BPName;
```

History | **Results**

**Result set 1** | Details

Q Filter table                                                                Total:26

| COMPANYNAME | BPNAME | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| Company 1 | Branch Plant 1 | 872065.00 | 1141.0000 |
| Company 1 | Branch Plant 2 | 1452906.00 | 1183.0000 |
| Company 1 | Branch Plant 3 | -992788.00 | -726.0000 |
| Company 1 | Branch Plant 4 | 1011788.00 | 728.0000 |
| Company 1 | - | 2343971.00 | 2326.0000 |
| Company 2 | Branch Plant 5 | 133624.00 | -121.0000 |
| Company 2 | Branch Plant 6 | 183894.00 | 130.0000 |
| Company 2 | Branch Plant 7 | 488275.00 | 205.0000 |
| Company 2 | Branch Plant 8 | -269480.00 | -289.0000 |

**Result set 1** | Details

Q Filter table                                                                Total:26

| COMPANYNAME | BPNAME | SUMEXCOST | SUMQUANTITY |
|---|---|---|---|
| Company 4 | Branch Plant 15 | -674220.00 | -559.0000 |
| Company 4 | Branch Plant 16 | -526426.00 | -574.0000 |
| Company 4 | - | -2193471.00 | -1945.0000 |
| Company 5 | Branch Plant 17 | 1165434.00 | 1059.0000 |
| Company 5 | Branch Plant 18 | -670863.00 | -693.0000 |
| Company 5 | Branch Plant 19 | -282431.00 | -114.0000 |
| Company 5 | Branch Plant 20 | -271104.00 | -102.0000 |
| Company 5 | - | -58964.00 | 150.0000 |
| - | - | 0.00 | 0.0000 |

## Query 8: Sales Order Shipments by Name and Combination of Year and Quarter

```sql
140  --Query 8: Sales Order Shipments by Name and Combination of Year and Quarter--
141  SELECT D.calYear, D.calQuarter, CV.name, SUM(EXTCOST) AS SUMexCost, COUNT(*) AS InvTRANSACTIONS
142  FROM CUST_VENDOR_DIM AS CV,
143      INVENTORY_FACT AS I,
144      DATE_DIM AS D
145  WHERE CV.custVendorKey = I.custvendorKey
146      AND I.dateKey = D.dateKey
147      AND I.transTypeKey = 5
148      AND D.calYear BETWEEN 2011 AND 2012
149  GROUP BY CUBE((D.calYear, D.calQuarter), CV.name)
150  ORDER BY D.calYear, D.calQuarter, CV.name;
```

**Result set 1**   Details

Q  Filter table                                                                Total:189

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| 2011 | 1 | Customer 1 | 4695612.00 | 49 |
| 2011 | 1 | Customer 10 | 5765357.00 | 55 |
| 2011 | 1 | Customer 11 | 4870548.00 | 51 |
| 2011 | 1 | Customer 12 | 5412366.00 | 59 |
| 2011 | 1 | Customer 13 | 4524202.00 | 53 |
| 2011 | 1 | Customer 14 | 3980483.00 | 42 |
| 2011 | 1 | Customer 15 | 5297558.00 | 51 |
| 2011 | 1 | Customer 16 | 4373309.00 | 46 |
| 2011 | 1 | Customer 17 | 5428721.00 | 53 |
| 2011 | 1 | Customer 18 | 5202736.00 | 56 |
| 2011 | 1 | Customer 19 | 5701085.00 | 55 |
| 2011 | 1 | Customer 2 | 5376058.00 | 51 |

Items per page:  50 ∨   1–50 of 189 items                        1 ∨  of 4 pages  ◄  ►

**Result set 1**   Details

Q  Filter table                                                                Total:189

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| - | - | Customer 18 | 44471146.00 | 457 |
| - | - | Customer 19 | 42641911.00 | 428 |
| - | - | Customer 2 | 41472138.00 | 391 |
| - | - | Customer 20 | 40287693.00 | 419 |
| - | - | Customer 3 | 40680456.00 | 410 |
| - | - | Customer 4 | 40990684.00 | 410 |
| - | - | Customer 5 | 38657564.00 | 400 |
| - | - | Customer 6 | 38141988.00 | 401 |
| - | - | Customer 7 | 40345742.00 | 407 |
| - | - | Customer 8 | 44576414.00 | 446 |
| - | - | Customer 9 | 41201776.00 | 424 |
| - | - | - | 822589920.00 | 8320 |

Items per page:  50 ∨   151–189 of 189 items                     4 ∨  of 4 pages  ◄  ►

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

```sql
152  --Query 9: Sales Order Shipments by Month and Category Code1 with Group Number--
153  SELECT D.calMonth, CV.addrCatCode1, SUM(EXTCOST) AS SUMexCost, SUM(QUANTITY) AS SUMquantity,
154      ROW_NUMBER() OVER (ORDER BY D.calMonth, CV.addrCatCode1) AS GROUP_LEVEL
155  FROM CUST_VENDOR_DIM AS CV,
156      INVENTORY_FACT AS I,
157      DATE_DIM AS D
158  WHERE CV.custVendorKey = I.custvendorKey
159      AND I.dateKey = D.dateKey
160      AND I.transTypeKey = 5
161      AND D.calYear = 2011
162  GROUP BY CUBE(D.calMonth,CV.addrCatCode1)
163  ORDER BY GROUP_LEVEL;
```

**Result set 1**   Details

Q Filter table                                                      Total:78

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY | GROUP_LEVEL |
|----------|--------------|-----------|-------------|-------------|
| 1 | 1 | 12876795.00 | 12970.0000 | 1 |
| 1 | 2 | 6856150.00 | 7004.0000 | 2 |
| 1 | 3 | 5643236.00 | 5629.0000 | 3 |
| 1 | 4 | 5657775.00 | 5691.0000 | 4 |
| 1 | 5 | 8189894.00 | 8368.0000 | 5 |
| 1 | - | 39223850.00 | 39662.0000 | 6 |
| 2 | 1 | 9481319.00 | 8983.0000 | 7 |
| 2 | 2 | 6808224.00 | 6935.0000 | 8 |
| 2 | 3 | 4023869.00 | 4139.0000 | 9 |
| 2 | 4 | 4862270.00 | 4657.0000 | 10 |
| 2 | 5 | 5828930.00 | 6147.0000 | 11 |

Items per page:  50 ∨   1–50 of 78 items                    1 ∨  of 2 pages  ◄  ►

**Result set 1**   Details

Q Filter table                                                      Total:78

| CALMONTH | ADDRCATCODE1 | SUMEXCOST | SUMQUANTITY | GROUP_LEVEL |
|----------|--------------|-----------|-------------|-------------|
| 12 | 2 | 6930373.00 | 6908.0000 | 68 |
| 12 | 3 | 4383227.00 | 4394.0000 | 69 |
| 12 | 4 | 4313641.00 | 4449.0000 | 70 |
| 12 | 5 | 5975486.00 | 6439.0000 | 71 |
| 12 | - | 30723372.00 | 31574.0000 | 72 |
| - | 1 | 122255354.00 | 122248.0000 | 73 |
| - | 2 | 76074121.00 | 77251.0000 | 74 |
| - | 3 | 60696692.00 | 60739.0000 | 75 |
| - | 4 | 63554999.00 | 62335.0000 | 76 |
| - | 5 | 86055350.00 | 85420.0000 | 77 |
| - | - | 408636516.00 | 407993.0000 | 78 |

Items per page:  50 ∨   51–78 of 78 items                   2 ∨  of 2 pages  ◄  ►

### Query 10: Sales Order Shipments with Subtotals by Name and Partial Subtotals by Year and Quarter

```
165  --Query 10: Sales Order Shipments with Subtotals by Name and Partial Subtotals by Year and Quarter--
166  SELECT D.calYear, D.calQuarter, CV.name, SUM(EXTCOST) AS SUMexCost, COUNT(*) AS InvTRANSACTIONS
167  FROM CUST_VENDOR_DIM AS CV,
168      INVENTORY_FACT AS I,
169      DATE_DIM AS D
170  WHERE CV.custVendorKey = I.custvendorKey
171      AND I.dateKey = D.dateKey
172      AND I.transTypeKey = 5
173      AND D.calYear BETWEEN 2011 AND 2012
174  GROUP BY GROUPING SETS(ROLLUP(D.calYear,(D.calQuarter)),CV.name)
175  ORDER BY D.calYear, D.calQuarter, CV.name;
```

**Result set 1** | Details

Q Filter table                                                                                       Total:31

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| 2011 | 1 | - | 100936873.00 | 1032 |
| 2011 | 2 | - | 105354913.00 | 1053 |
| 2011 | 3 | - | 102833662.00 | 1033 |
| 2011 | 4 | - | 99511068.00 | 1016 |
| 2011 | - | - | 408636516.00 | 4134 |
| 2012 | 1 | - | 101495171.00 | 1018 |
| 2012 | 2 | - | 101734934.00 | 1041 |
| 2012 | 3 | - | 104745569.00 | 1073 |
| 2012 | 4 | - | 105977730.00 | 1054 |
| 2012 | - | - | 413953404.00 | 4186 |

**Result set 1** | Details

Q Filter table                                                                                       Total:31

| CALYEAR | CALQUARTER | NAME | SUMEXCOST | INVTRANSACTIONS |
|---------|-----------|------|-----------|-----------------|
| - | - | Customer 2 | 41472138.00 | 391 |
| - | - | Customer 20 | 40287693.00 | 419 |
| - | - | Customer 3 | 40680456.00 | 410 |
| - | - | Customer 4 | 40990684.00 | 410 |
| - | - | Customer 5 | 38657564.00 | 400 |
| - | - | Customer 6 | 38141988.00 | 401 |
| - | - | Customer 7 | 40345742.00 | 407 |
| - | - | Customer 8 | 44576414.00 | 446 |
| - | - | Customer 9 | 41201776.00 | 424 |
| - | - | - | 822589920.00 | 8320 |