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Assignment 4: Using a Dimensional Model with the SaleCO Data Warehouse

MSDS 420 Database Systems and Data Preparation

May 24th, 2020

```
1. SELECT c.cus_code,r.reg_name, (f.sale_units*f.sale_price) as Totalsales
FROM dwcustomer as c, dwregion as r ,dwdaysalesfact as f
WHERE c.reg_id = r.reg_id and c.cus_code= f.cus_code
ORDER BY r.reg_name, c.cus_code;
```

cus_code	reg_name	total sales
10012	NE	9.95
10012	NE	20.97
10012	NE	256.99
10013	NE	29.35
10013	NE	4.99
10013	NE	29.98
10014	NW	109.92
10014	NW	14.99
10014	NW	359.85
10014	NW	9.95
10019	NW	39.95
10010	SE	70.44
10010	SE	19.90
10010	SE	14.97
10010	SE	74.95
10011	SE	109.92
10011	SE	20.97
10015	SE	9.95
10015	SE	9.98
10015	SE	38.95
10015	SE	9.95
10015	SE	256.99
10016	SE	39.95
10016	SE	29.35
10016	SE	4.99
10016	SE	29.98
10016	SE	74.95
10017	SW	359.85
10017	SW	19.90
10017	SW	14.97
10017	SW	14.99
10017	SW	9.95
10018	SW	9.98
10018	SW	9.95
10018	SW	38.95
10018	SW	70.44
(36 rows)		

```
2. SELECT c.cus_code, p.p_code, t.tm_month, (p.sale_units*p.sale_price) as Totalsales
FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t
WHERE p.tm_id = t.tm_id AND c.cus_code = p.cus_code
ORDER BY c.cus_code, t.tm_month;
```

cus_code	p_code	tm_month	totalsales
10010	13-Q2/P2	10	74.95
10010	PVC23 DRT	10	70.44
10010	23109-HB	10	19.90
10010	54778-2T	10	14.97
10011	SM-18277	10	20.97
10011	2232/ QTY	10	109.92
10012	SM-18277	9	20.97
10012	89-WRE-Q	10	256.99
10012	23109-HB	10	9.95
10013	PVC23 DRT	10	29.35
10013	13-Q2/P2	10	29.98
10013	54778-2T	10	4.99
10014	23109-HB	9	9.95
10014	13-Q2/P2	9	14.99
10014	2232/ QTY	9	109.92
10014	WR3/ TT3	10	359.85
10015	2238/ QPD	9	38.95
10015	23109-HB	9	9.95
10015	89-WRE-Q	9	256.99
10015	54778-2T	9	9.98
10015	23109-HB	10	9.95
10016	1546-QQ2	9	39.95
10016	PVC23 DRT	9	29.35
10016	54778-2T	9	4.99
10016	13-Q2/P2	9	29.98
10016	13-Q2/P2	9	74.95
10017	23109-HB	9	9.95
10017	WR3/ TT3	9	359.85
10017	23109-HB	9	19.90
10017	54778-2T	9	14.97
10017	13-Q2/P2	9	14.99
10018	PVC23 DRT	9	70.44
10018	54778-2T	9	9.98
10018	23109-HB	9	9.95
10018	2238/ QPD	9	38.95
10019	1546-QQ2	9	39.95

(36 rows)

3.

A.)

```
SELECT c.cus_code, c.cus_fname, c.cus_lname, (p.sale_units*p.sale_price) as Totalsales
FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t
WHERE p.tm_id = t.tm_id AND c.cus_code = p.cus_code AND t.tm_month = 9
ORDER BY Totalsales DESC;
```

cus_code	cus_fname	cus_lname	totalsales
10017	George	Williams	359.85
10015	Amy	O' Brian	256.99
10014	Myron	Orlando	109.92
10016	James	Brown	74.95
10018	Anne	Farriss	70.44
10016	James	Brown	39.95
10019	Olette	Smith	38.95
10015	Amy	O' Brian	38.95
10018	Anne	Farriss	38.95
10016	James	Brown	29.98
10016	James	Brown	29.35
10012	Kathy	Smith	20.97
10017	George	Williams	19.90
10014	Myron	Orlando	14.99
10017	George	Williams	14.99
10017	George	Williams	14.97
10018	Anne	Farriss	9.98
10015	Amy	O' Brian	9.98
10018	Anne	Farriss	9.95
10015	Amy	O' Brian	9.95
10017	George	Williams	9.95
10014	Myron	Orlando	9.95
10016	James	Brown	4.99

(23 rows)

```
B.) SELECT c.cus_code, c.cus_fname, c.cus_lname, (p.sale_units*p.sale_price) as Totalsales
FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t
WHERE p.tm_id = t.tm_id AND c.cus_code = p.cus_code AND t.tm_month = 10
ORDER BY Totalsales DESC;
```

ORDER BY Totalsales DESC;			
cus_code	cus_fname	cus_lname	totalsales
10014	Myron	Orlando	359.85
10012	Kathy	Smith	256.99
10011	Leona	Dunne	109.92
10010	Alfred	Ramas	74.95
10010	Alfred	Ramas	70.44
10013	Paul	Olowski	29.98
10013	Paul	Olowski	29.35
10011	Leona	Dunne	20.97
10010	Alfred	Ramas	19.90
10010	Alfred	Ramas	14.97
10015	Amy	O'Brian	9.95
10012	Kathy	Smith	9.95
10013	Paul	Olowski	4.99

(13 rows)

C.)

```
SELECT c.cus_code, c.cus_fname, c.cus_lname, SUM (p.sale_units*p.sale_price) as Totalsales
FROM dwcustomer as c, dwdaysalesfact as p, dwtime as t
WHERE p.tm_id = t.tm_id AND c.cus_code = p.cus_code AND t.tm_month IN (9,10)
GROUP BY c.cus_code
ORDER BY Totalsales DESC;
```

cus_code	cus_fname	cus_lname	totalsales
10014	Myron	Orlando	494.71
10017	George	Williams	419.66
10015	Amy	O'Brian	325.82
10012	Kathy	Smith	287.91
10010	Alfred	Ramas	180.26
10016	James	Brown	179.22
10011	Leona	Dunne	130.89
10018	Anne	Farriss	129.32
10013	Paul	Olowski	64.32
10019	Olette	Smith	39.95

4.) SELECT t.tm_month, p.p_category, SUM(f.sale_units*f.sale_price) as Totalsales
FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE f.tm_id = t.tm_id AND f.p_code = p.p_code
GROUP BY t.tm_month, p.p_category
ORDER BY t.tm_month, p.p_category;

tm_month	p_category	totalsales
9	CAT1	174.83
9	CAT2	446.81
9	CAT3	537.54
9	CAT4	80.67
10	CAT1	124.89
10	CAT2	366.91
10	CAT3	459.64
10	CAT4	60.77

8 rows)

5.)

```
SELECT t.tm_month, count(p.p_code) as num_rows, SUM(f.sale_units*f.sale_price) as
Totalsales
FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE f.tm_id = t.tm_id AND f.p_code = p.p_code
GROUP BY t.tm_month
ORDER BY t.tm_month;
```

t_m_month	num_rows	totalsales
9	23	1239.85
10	13	1012.21

(2 rows)

6.) The product with the most sales has 34 units sold which is a PVC pipe, 3.5 inch, 8-ft.

```
A.) SELECT p.p_code, p.p_category, p.p_descript,
SUM(f.sale_units) as unitssold FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE p.p_code = f.p_code AND f.tm_id = t.tm_id AND t.tm_month = 9
GROUP BY p.p_code, p.p_descript, p.p_descript;
```

p_code	p_category	p_descript	unitssold
13-Q2/P2	CAT1	7.25-in. pwr. saw blade	9
1546-QQ2	CAT2	Hrd. cloth, 1/4-in., 2x50	2
2232/QTY	CAT2	B\&D jigsaw, 12-in. blade	1
2238/QPD	CAT3	B\&D cordless drill, 1/2-in.	2
23109-HB	CAT4	Claw hammer	6
54778-2T	CAT1	Rat-tail file, 1/8-in. fine	8
89-WRE-Q	CAT2	Hicut chain saw, 16 in.	1
PVC23DRT	CAT3	PVC pipe, 3.5-in., 8-ft	17
SM-18277	CAT4	1.25-in. metal screw, 25	3
WR3/TT3	CAT3	Steel matting, 4'x8'x1/6", .5" mesh	3

10 rows)

B.)

```
SELECT p.p_code, p.p_category, p.p_descript,
SUM(f.sale_units) as unitssold FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE p.p_code = f.p_code AND f.tm_id = t.tm_id AND t.tm_month =10
GROUP BY p.p_code, p.p_descript, p.p_descript;
```

p_code	p_category	p_descript	unitssold
13-Q2/P2	CAT1	7.25-in. pwr. saw blade	7
2232/QTY	CAT2	B\&D jigsaw, 12-in. blade	1
23109-HB	CAT4	Claw hammer	4
54778-2T	CAT1	Rat-tail file, 1/8-in. fine	4
89-WRE-Q	CAT2	Hicut chain saw, 16 in.	1
PVC23DRT	CAT3	PVC pipe, 3.5-in., 8-ft	17
SM-18277	CAT4	1.25-in. metal screw, 25	3
WR3/TT3	CAT3	Steel matting, 4'x8'x1/6", .5" mesh	3

8 rows)

```
C.) SELECT p.p_code, p.p_category, p.p_descript, SUM(f.sale_units) as unitssold
FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE p.p_code = f.p_code AND f.tm_id = t.tm_id
```


GROUP BY p.p_code, p.p_descript, p.p_descript;

p_code	p_category	p_descript	units sold
23109-HB	CAT4	Claw hammer	10
PVC23DRT	CAT3	PVC pipe, 3.5-in., 8-ft	34
13-Q2/P2	CAT1	7.25-in. pwr. saw blade	16
89-WRE-Q	CAT2	Hicut chain saw, 16 in.	2
54778-2T	CAT1	Rat-tail file, 1/8-in. fine	12
WR3/TT3	CAT3	Steel matting, 4'x8'x1/6", .5" mesh	6
1546-QQ2	CAT2	Hrd. cloth, 1/4-in., 2x50	2
SM-18277	CAT4	1.25-in. metal screw, 25	6
2232/ QTY	CAT2	B\&D jigsaw, 12-in. blade	2
2238/ QPD	CAT3	B\&D cordless drill, 1/2-in.	2

(10 rows)

7.)

SELECT t.tm_month, p.p_category, p.p_descript, count(p.p_descript) as num_rows,
SUM(f.sale_units * f.sale_price) as totalsales
FROM dwdaysalesfact as f, dwproduct as p, dwtime as t
WHERE p.p_code = f.p_code AND f.tm_id = t.tm_id
GROUP BY t.tm_month, p.p_category, p.p_descript
ORDER BY t.tm_month, p.p_category, p.p_descript;

t_m_month	p_category	p_descript	num_rows	totalsales
9	CAT1	7.25-in. pwr. saw blade	4	134.91
9	CAT1	Rat-tail file, 1/8-in. fine	4	39.92
9	CAT2	B\&D jigsaw, 12-in. blade	1	109.92
9	CAT2	Hicut chain saw, 16 in.	1	256.99
9	CAT2	Hrd. cloth, 1/4-in., 2x50	2	79.90
9	CAT3	B\&D cordless drill, 1/2-in.	2	77.90
9	CAT3	PVC pipe, 3.5-in., 8-ft	2	99.79
9	CAT3	Steel matting, 4'x8'x1/6", .5" mesh	1	359.85
9	CAT4	1.25-in. metal screw, 25	1	20.97
9	CAT4	Claw hammer	5	59.70
10	CAT1	7.25-in. pwr. saw blade	2	104.93
10	CAT1	Rat-tail file, 1/8-in. fine	2	19.96
10	CAT2	B\&D jigsaw, 12-in. blade	1	109.92
10	CAT2	Hicut chain saw, 16 in.	1	256.99
10	CAT3	PVC pipe, 3.5-in., 8-ft	2	99.79
10	CAT3	Steel matting, 4'x8'x1/6", .5" mesh	1	359.85
10	CAT4	1.25-in. metal screw, 25	1	20.97
10	CAT4	Claw hammer	3	39.80

(18 rows)