

Kamkar

A

```
3 -- A
4 create view totals as(
5 select extract(year from orderdate::timestamp::date) as year,
6 extract(quarter from orderdate::timestamp::date) as quarter,
7 extract(month from orderdate::timestamp::date) as month,
8 extract(day from orderdate::timestamp::date) as day,
9 sum(orderqty) as totqty, sum(unitprice*orderqty) as totprice
10 from sales.salesorderdetail inner join sales.salesorderheader using(salesorderid)
11 group by orderdate::timestamp::date
12 order by orderdate::timestamp::date);
```

Message

Result 1

year	quarter	month	day	totqty	totprice
2011	2	5	31	825	503805.9169
2011	2	6	1	4	13931.52
2011	2	6	2	5	15012.1782
2011	2	6	3	2	7156.54
2011	2	6	4	5	15012.1782
2011	2	6	5	4	14313.08
2011	2	6	6	3	7855.6382
2011	2	6	7	3	7855.6382
2011	2	6	8	6	20909.78
2011	2	6	9	3	10556.53
2011	2	6	10	4	14313.08

select extract(year from orderdate::timestamp::date) as year, extract(quarter from orderdate::timestamp::date) as quarter, extract(month from orderdate::timestamp::date) as month, extract(day from orderdate::timestamp::date) as day, sum(orderqty) as totqty, sum(unitprice*orderqty) as totprice from sales.salesorderdetail inner join sales.salesorderheader using(salesorderid) group by orderdate::timestamp::date order by orderdate::timestamp::date;

Read Only

Query time: 0.160s

Record 1 of 1124

B

```
16 select year, quarter, month, day, sum(totqty) as totqty, sum(totprice) as totprice from totals
17 group by rollup(year, quarter, month, day)
18 order by year, month, day;
```

Message

Result 1

year	quarter	month	day	totqty	totprice
2011	2	5	31	825	503805.9169
2011	2	5	(Null)	825	503805.9169
2011	2	6	1	4	13931.52
2011	2	6	2	5	15012.1782
2011	2	6	3	2	7156.54
2011	2	6	4	5	15012.1782
2011	2	6	5	4	14313.08
2011	2	6	6	3	7855.6382
2011	2	6	7	3	7855.6382
2011	2	6	8	6	20909.78
2011	2	6	9	3	10556.53

+

-

✓

✕

↺

■

select year,quarter,month,day,sum(totqty) as totqty,sum(totprice)as totprice from totals group by rollup(year,quarter,month,day) orde

Read Only

Query time: 0.162s

Record 1 of 1180

C

```
21 --C
22 select year, quarter,
23 sum(totprice) / sum(totqty) as price_on_qty,
24 rank() over(partition by year order by sum(totprice) / sum(totqty) desc ) as s_rank
25 from totals
26 group by year,quarter
27 order by year,quarter,s_rank;
```

year	quarter	price_on_qty	s_rank
2011	2	996.6011818840579710	2
2011	3	957.2493252751423150	3
2011	4	997.9993197233914612	1
2012	1	980.1615334923775166	1
2012	2	419.0178090603556925	3
2012	3	393.8730400034778072	4
2012	4	466.0339857262210797	2
2013	1	433.2465498919966768	1
2013	2	330.6869657743097239	3
2013	3	288.2269595397311744	4
2013	4	341.5630955602240896	2
2014	1	335.7256487503913180	1

C select year, quarter, sum(totprice) / sum(totqty) as price_on_qty, rank() over(partition by year order by sum(totprice) / sum(totqty) desc) as s_rank Read Only Query time: 0.169s Record 1 of 13

D

```
32 --D
33 with date_tot as (select (CAST(year AS VARCHAR(4))||'-'||RIGHT('00'||CAST(month AS VARCHAR(4)),2)) as year_month ,avg (
34 totprice) as average from totals
35 group by year,month order by year_month)
36 select year_month,average,
37 lag(average,2) over (order by(year_month)) as last_second_month_average,
38 lead(average) over(order by (year_month)) as next_month_average
39 from date_tot;
```

year_month	average	last_second_month_average	next_month_average
2011-05	503805.916900000000	(Null)	15297.027493333333
2011-06	15297.027493333333	(Null)	68208.836200000000
2011-07	68208.836200000000	503805.916900000000	83212.167080000000
2011-08	83212.167080000000	15297.027493333333	17312.891234482759
2011-09	17312.891234482759	68208.836200000000	148092.737700000000
2011-10	148092.737700000000	83212.167080000000	24594.660713333333
2011-11	24594.660713333333	17312.891234482759	42257.315635483871
2011-12	42257.315635483871	148092.737700000000	128085.046170967742
2012-01	128085.046170967742	24594.660713333333	50880.633065517241
2012-02	50880.633065517241	42257.315635483871	96011.395712903226
2012-03	96011.395712903226	128085.046170967742	59001.579920000000
2012-04	59001.579920000000	50880.633065517241	99757.479729032258

--D with date_tot as (select (CAST(year AS VARCHAR(4))||'-'||RIGHT('00'||CAST(month AS VARCHAR(4)),2)) as year_month ,avg (totprice) as average from totals group by year,month order by year_month) select year_month,average, lag(average,2) over (order by(year_month)) as last_second_month_average, lead(average) over(order by (year_month)) as next_month_average from date_tot; Read Only Query time: 0.150s Record 1 of 38