

Screencast 5-7

Window functions – running totals

Database - ADWF

Running totals – calculation example:

Date	N	N (year to date)
01.01.2020	1	1
01.02.2020	2	3
01.03.2020	30	33
01.04.2020	5	38

Task

Write a query to find year to date revenue for each city of delivery and year.

```
select distinct extract(year from soh.shipdate) as year,
               a.city,
               soh.shipdate,
               sum(soh.subtotal) over(partition by extract(year from soh.shipdate),
a.city order by soh.shipdate)
from sales.salesorderheader soh
join person.address a on a.addressid=soh.shiptoaddressid
order by 1, 2, 3;
```

Other options to change window frame

Over (partition by ... order by ... ROWS BETWEEN ... AND ...)

set start & end of window frame inside a partition:

- n preceding – start from previous n records (or less if not possible)
- n following – continue to n next records (or less if not possible)
- unbounded preceding – start from the partition's beginning
- unbounded following – stop at the partition's last record
- current row – use a row being currently processed at runtime