

# Screencast 5-3

Window functions

Database – ADWF

## Examples of window functions

```
select ... function(...) over(window frame) ...  
from ...
```

sum, count, min, max, avg  
rank, dense\_rank, row\_number  
lag, lead

Optional window frame settings:

- Partition by a, b, ..
- Order by a, b, ...
- Rows

Queries with a window function:

```
select count(*) over (), * from production.product;  
select distinct count(*) over (partition by color), color from production.product;
```

## Task

Find the number of orders for each product. Calculate its percent share in the total number of orders

```
select  
  distinct  
    p.name,  
    sd.productid,  
    count(*) over (partition by sd.productid) as n_orders,  
    count(*) over () as all_orderes,  
    100.0 * count(*) over (partition by sd.productid)/count(*) over ()  
from sales.salesorderdetail as sd  
  join production.product as p on p.productid=sd.productid  
order by 5 desc
```