Day-15

# [Y-on-Y Growth Rate [Wayfair SQL Interview Question]](https://datalemur.com/questions/yoy-growth-rate)

with cte as (select date\_part('year',transaction\_date) as year,

product\_id, spend as curr\_year\_spend,

lag(spend) OVER(PARTITION BY product\_id

ORDER BY transaction\_date asc) prev\_year\_spend

from user\_transactions)

select year,product\_id,curr\_year\_spend,prev\_year\_spend,

case

WHEN prev\_year\_spend is NULL then NULL

ELSE

ROUND(

((curr\_year\_spend/prev\_year\_spend) -1)\*100,2)

END as yoy\_rate

from cte;