#sql hard question 579

with h as(

select id,month from (select 1 as month union select 2 union select 3 union select 3   union select 4 union select 5 union select 6 union select 7 union select 8 union select 9 union select 10 union select 11 union select 12) t2

cross join (select distinct id from Employee) t1

),

j1 as(

select id, max(month) as max\_month from Employee

group by id

),

j2 as(

select h.id,h.month,coalesce(salary,0) as salary,max\_month,

sum(coalesce(salary,0)) over(partition by h.id order by month rows between 2 preceding and current row) as s

 from h

left join Employee e on h.id = e.id and h.month=e.month

left join j1 on j1.id=h.id

)

select id , month, s as Salary from j2

where month <> max\_month and salary <> 0

ORDER BY id, month desc