Sql hard question 615

With j1 as(

select  s.employee\_id,amount, department\_id, date\_format(pay\_date, '%Y-%m') as date from Salary s

left join Employee e on s.employee\_id = e.employee\_id

),

j2 as(

select \*,

avg(amount) over(partition by department\_id,date order by date rows between unbounded preceding and unbounded following) as davg,

avg(amount) over(partition by date order by date rows between unbounded preceding and unbounded following) as cavg

from j1

),

j3 as(

select distinct date as pay\_month,department\_id,

case when davg=cavg then 'same'

when davg>cavg then 'higher'

when davg<cavg then 'lower' end as comparison

 from j2

)

select \* from j3

order by pay\_month desc