#Sql hard 1097

with j as(

select \*,

lag(event\_date) over(partition by player\_id order by event\_date) as l1,

row\_number() over(partition by player\_id order by event\_date) as rn

 from Activity

),

j2 as(

select \*, datediff(l1,event\_date) as diff from j

where rn <= 2

),

j3 as(

select event\_date, count( rn) as installs from j2

where rn = 1

group by event\_date

),

j4 as(

select l1 as event\_date, count(rn) as returnee from j2

where rn = 2 and diff = -1

group by event\_date

),

j5 as(

select j3.event\_date as install\_dt, installs, round(coalesce(returnee,0)/installs,2) as Day1\_retention from j3

left join j4 on j3.event\_date = j4.event\_date

)

select \* from j5