Charalampos Chrysanthakopoulos - updated solution

We wish to calculate the monthly average booking revenue using the following formula:

```
monthly\_average\_booking\_revenue = \frac{total\ monthly\ revenue}{number\ of\ days\ in\ the\ month}
```

SQL code (written for Oracle):

```
-- CTE (d) gets month and year values from table property days
with d as (
 select distinct
 building code,
 to char(date, 'mm') as m,
 to_char(date,'yyyy') as y
 from property days
 where
 is active = 'TRUE'
                                           -- consider only active properties
 and date >= '01/01/2022'
                                           -- calendar start date
 and date < trunc(sysdate,'mm')</pre>
                                           -- exclude running month from calculations
-- CTE (ds) calculates the number of days per month based on subquery (d)
ds as (
 select
 building_code, m, y,
 last day(to date(m \mid | ' / ' \mid | y, 'mm/yyyy')) - to date(m \mid | ' / ' \mid | y, 'mm/yyyy') + 1 as nbr days
-- CTE (rev) calculates the total monthly revenue
rev as (
 select
 building code,
 to char(date, 'mm') m,
 to char(date, 'yyyy') y,
 sum (revenue) as revenue
 from property_days
 where
 is active = 'TRUE'
                                            -- consider only active properties
 and date >= '01/01/2022'
                                            -- calendar start date
 and date < trunc(sysdate,'mm')</pre>
                                           -- exclude running month from calculations
 group by building code, to char(date,'mm'), to char(date,'yyyy')
-- final query calculates the monthly average revenue
 select
 ds.y||'-'||ds.m||'-01' as month,
 ds.building code,
 rev.revenue/ds.nbr days as monthly avg revenue
 from ds, rev
 where
 ds.m = rev.m
                                               -- 1st join between (ds) and (rev)
                                              -- 2<sup>nd</sup> join between (ds) and (rev)
 and ds.y = rev.y
 and ds.building_code = rev.building code -- 3rd join between (ds) and (rev)
```