

CTE within a CTE

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Is it possible to write a CTE within a CTE?

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I want it to follow this logic, but the interpreter doesn't like this code.



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```
with outertest as(  
    with test as (  
        select  
            SRnum,  
            gamenumber,  
            StartOfDistribution,  
            ApplicationNumber  
        from #main  
        where startofdistribution = '2011-06-14 00:00:00.000'  
        and SRnum = '313'  
        --order by SRnum, gamenumber, StartOfDistribution, ApplicationNumber  
    )  
    select  
        ApplicationNumber  
        ,count(*) as RetailerAppearance  
    from test  
    group by ApplicationNumber  
    having count(*) = 4  
)  
select count(*) from outertest
```

[sql](#)[sql-server](#)[tsql](#)

asked Oct 10, 2018 at 10:47

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You can't nest CTEs like that in SQL Server but you can use multiple CTEs the following way:

```
;with test as
(
    select
        SRnum,
        gamenumber,
        StartOfDistribution,
        ApplicationNumber
    from #main
    where startofdistribution = '2011-06-14 00:00:00.000'
    and SRnum = '313'
    --order by SRnum, gamenumber, StartOfDistribution, App
),
outertest as
(
    select
        ApplicationNumber
        ,count(*) as RetailerAppearance
    from test
    group by ApplicationNumber
    having count(*) = 4
)
select count(*)
from outertest
```

edited Sep 11 '13 at 11:21

answered Sep 10 '13 at 20:50

**Taryn** ♦**196k**

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What I mean is running the two nested CTEs together at the same time e.g. with cte1 as (query1), cte2 as (query2) select * from cte1, select * from cte2. But I know that's not the case, CTEs are not designed to perform the aforementioned operation. I managed to find another way around this and it was Tableau. – [Naufal](#) Aug 23 '18 at 15:52

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