Avg of a Sum in one query

Asked 9 years, 11 months ago   Active 1 year, 9 months ago   Viewed 59k times

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I would like to know if I can get the average of a sum in one single SQL SERVER request,

Have tried to do it with the following request but it doesn't work:

```
SELECT t.client,
       AVG(SUM(t.asset)) AS Expr1
  FROM TABLE t
GROUP BY t.client
```

★

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sql   sql-server   tsql   sum   average

edited Oct 15 '09 at 14:49   asked Oct 15 '09 at 14:41

OMG Ponies   Roch
270k   65   459   471   **10.1k**   27   68   115

Are you trying to get the avg of clients assets? – Gratzy Oct 15 '09 at 14:46

The avg of the sum of the assets of every clients – Roch Oct 15 '09 at 14:47

3 Answers

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I think your question needs a bit of explanation. If you want to take the sums grouped by `t.client` you can use:

```
SELECT t.client, SUM(t.asset)
FROM the-table t
GROUP BY t.client
```

```
SELECT AVG(asset_sums)
FROM
(
    SELECT t.client, SUM(t.asset) AS asset_sums
    FROM the-table t
    GROUP BY t.client
) as inner_query
```

You can't however group the outer query, because this will give you results like in the first query. The results from the inner query are already grouped by `t.client` .

edited Nov 22 '17 at 17:28
paulmorriss
2,283 24 28

answered Oct 15 '09 at 14:53
Lukasz Lysik
8,719 3 43 67

what's a ? after the last Parenthese ? – Roch Oct 15 '09 at 14:58

It's a nickname for the inner query. Every inner query have to have the name. – Lukasz Lysik Oct 15 '09 at 15:00

2   I think you need to change avg(t.asset) to avg(inner_query.asset) – Gratzy Oct 15 '09 at 15:02

2   add you'll need to alias sum(t.asset) as asset – Gratzy Oct 15 '09 at 15:04

@Gratzy - yes, you are right. Corrected. Thank you. – Lukasz Lysik Oct 15 '09 at 15:07

Its very simple

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for ex.

```
SELECT t.client,
       SUM(t.asset)/count(t.asset) AS average
    FROM TABLE t
 GROUP BY t.client
```

in "average" you will get average of "t.asset"

answered May 21 '15 at 5:50

> **2** Wow, perfect example of a much easier solution. Sometimes I love math! – Nathan Dobie Apr 12 '17 at 17:56

> @Kalpesh How to get `SUM of AVG of t.asset` .? – Sanjiv Feb 13 at 6:36

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If you are trying to get the average assets of clients I think I would use at CTE. You can try if sql 2005 or greater

EDIT: Took the second group by out as I think you want just one result here of average assets

```sql
With clientsum (client,assets)
as
(
    SELECT     CLIENT, SUM(asset) AS assets
    FROM       CLIENTTABLE
    GROUP BY CLIENT
)
SELECT avg(assets) AS Expr1
FROM  clientsum
```

edited Oct 15 '09 at 14:56   answered Oct 15 '09 at 14:50

Gratzy
7,894   4   23   44