

# How do I Compute an Order Line Number in SQL 2000

Asked 16 years ago   Modified 8 years, 6 months ago   Viewed 1k times



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I am working with an order system that has two tables Order and OrderLine pretty standard stuff. I want to work out an order line number for the order lines with respect to the order e.g.

Orderid Orderlineid linenummer

1	1	1
2	2	1
2	3	2
3	4	1
4	5	1
4	6	2



The OrderLineid is an identity column. I don't want to store the line number as data in the database for two reasons. First there are already a great many existing orders and lines in the system and retrospectively adding the data is a headache I wish to avoid. Second if the user deletes a line then I would need to recalculate the line numbers for the whole order.

In SQL 2005 I can do this easy peasy using the ROW\_NUMBER function.

```
Select Orderid, OrderLineid, ROW_NUMBER()  
OVER(PARTITION BY Orderid ORDER BY Orderlineid) as LineNumber  
FROM OrderLine
```

Is there anyway I can do this in SQL 2000?

The closest I found was a ranking function (see below) but this counts orders not lines.

```
SELECT x.Ranking, x.OrderId  
FROM (SELECT (SELECT COUNT( DISTINCT t1.Orderid) FROM orderline t1 WHERE  
z.Orderid >= t1.Orderid)AS Ranking, z.orderid  
FROM orderline z ) x  
ORDER BY x.Ranking
```

sql

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edited Jun 20, 2016 at 0:59



Fabian N.

3,856 ● 2 ● 25 ● 47

asked Dec 3, 2008 at 13:47



John Hunter

4,132 ● 4 ● 27 ● 35

## 3 Answers

Sorted by: Highest score (default)



3



You can use something like this:

```
select
  ol1.orderId,
  ol1.orderLineId,
  count(*) as lineNumber
from
  orderLine ol1
  inner join orderLine ol2
    on ol1.orderId = ol2.orderId
    and ol1.orderLineId >= ol2.orderLineId
group by
  ol1.orderId,
  ol1.orderLineId
```

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answered Dec 3, 2008 at 14:10



kristof

53.8k ● 24 ● 88 ● 111



0



IMHO, calculating it every time you need it may end up being more of a headache than it's worth. And while it may be a pain to update the historical line numbers and save it to the database, you'd only be doing that once... and then would just need to write code to automate it later.

To handle the deletes, you'd just need to add code into the existing delete procedure and have it recalculate the line numbers for it.

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answered Dec 3, 2008 at 14:11



Kevin Fairchild

10.9k ● 6 ● 34 ● 52



0



An alternative would be to insert your data (without line number) into a #temp table where you add a column with identity(1,1) and then selects everything from the #temp table.



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answered Dec 3, 2008 at 14:21



[Jonas Lincoln](#)

9,757 ● 9 ● 37 ● 49

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