



Index Scan (NonClustered) Scan a nonclustered index, entirely or only a range.

Ordered

Object

[TSQL2012].[dbo].[Transactions]. [idx_actid_val_i_tranid]

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Observe in the properties of the Index Scan iterator that the Ordered property is False, meaning that the iterator is not required to return the data in index key order

The above means that when you are using constant ordering is not performed. I will strongly recommend to read the book as Itzik Ben-Gan describes in depth how the window functions are working and how to optimize various of cases when they are used.

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answered May 22 '17 at 6:56



22.5k • 32 • 125 • 198

False

so query, SELECT * FROM (SELECT *, ROW NUMBER() OVER (Order by (select NULL)) as rn) as X where rn > 1000 is always give the correct result, means order remains same for every exection of query - lucy May

2 @lucy No, the order does not remain the same for every execution of the query. Using (SELECT constant) means that there is NO ORDER. You are selecting a specific amount of the data - you can execute the query 1 million times and it to return the same data, but there is no quarantee for this. Without specific ordering, the result is not deterministic. - gotqn May 22 '17 at 7:34

Thanks gotgn for clear my doubt - lucy May 22 '17 at 7:57

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Try just order by 1 . Read the error message. Then reinstate the order by (select 1) . Realise that whoever wrote this has, at some point, read the error message and then decided that the right thing to do is to trick the system into not raising an error rather than realising the fundamental truth that the error was trying to alert them to.

Tables have no inherent order. If you want some form of ordering that you can rely upon, it's up to you to provide enough deterministic expression(s) to any ORDER BY clause such that each row is uniquely identified and ordered.

Anything else, including tricking the system into not emitting errors, is hoping that the system will do something sensible without using the tools provided to you to ensure that it does something sensible a well specified order by clause.

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answered May 22 '17 at 6:13



Damien The Unbeliever 201k • 17 • 264 • 354

so I am doing right, select 1.? I did not find anything else for this problem - lucy May 22 '17 at 6:37 /

I partially disagree with the statement, "Tables have no inherent order." I've found (when selecting from a Table) it will return its Records using the Clustered-Index Order every time. Now start joining tables and making a more complicated query, then I think the Default-Order may be up to whatever route the Query-Optimizer takes. BTW: The Questioner is not asking about leaving the Order-By Clause out all together. You could still have one, she

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just wanted to know it it could be leπ unspecified in the Row Number() expression, which it can: ROW_NUMBER() OVER (ORDER BY (SELECT NULL)) - MikeTeeVee Jul 12 '18 at 12:48

@MikeTeeVee - it's a topic that has been done to death. There is no inherent user observable order. Often a select from a single table will follow the clustered index order but SQL Server offers no quarantee that it's the case. Even in this case, though, you can end up with a carousel scan - your query piggy-backs on another query that has already started a table scan. You guery starts getting the results from the middle of the table because that's where the scan was and then will start a second scan to finish off. Out of order results even with just the clustered index defined. - Damien The Unbeliever Jul 12 '18 at 13:11

Wow, I had no clue. Thanks for the super-informative response! After all these years, I feel like a newb again. -MikeTeeVee Jul 12 '18 at 13:42

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You can use any literal value



ex



```
order by (select 0)
order by (select null)
order by (select 'test')
```

etc

Refer this for more information https://exploresql.com/2017/03/31/row_number-function-with-no- specific-order/

edited Oct 2 '18 at 10:06

answered May 22 '17 at 6:37



12.2k • 1 • 19 • 23

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gotgn said in comment that select 1 means random order. So if add condition in guery where row no > 1000. So it may be give previous record because it is giving random order. Or it is correct to use - lucy May 22 '17 at 6:44

every time select 0 will give the same order when I execute the query? - lucy May 22 '17 at 6:47

@lucy - maybe it will sometimes, but it is not guaranteed since there is then no order. To guarantee the same results, use some data that is unique for each record in the ORDER BY clause. - Reversed Engineer May 11 at 11:04

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