CTE Data Paging in a Procedure

Day 15 of Common Table Expression Month (June) at SteveStedman.com, today we will be taking a look at data paging with CTE's in a function. Yesterday we took a look at CTEs for Data Paging, today we will build on what we used yesterday.

These queries will be using that database that was set up in a previous posting on the CTE_DEMO Sample Database, if you haven't set up the sample database, download it and set it up now.

The concept of data paging is taking a large set of results and breaking it up into smaller pages of result sets. For instance if you search your favorite internet search engine for a term, you are usually shown results 1 to 20 of X where X is a very large number. For instance page 1 is results 1 to 20 of 652,443 results.

CTE Data Paging

Now lets wrap it in a procedure to simplify things.

Then to call the paging function it is a bit cleaner.

Which produces the following output.

Editor | Results | Messages

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	TableName	ColumnName	RowNum
1	MSreplication_options	install_failures	1
2	MSreplication_options	major_version	2
3	MSreplication_options	minor_version	3
4	MSreplication_options	optname	4
5	MSreplication_options	revision	5
6	MSreplication_options	value	6
7	queue_messages_1003150619	binary_message_body	7
8	queue_messages_1003150619	conversation_group_id	8

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	TableName	ColumnName	RowNum
1	queue_messages_1003150619	fragment_size	11
2	queue_messages_1003150619	message_enqueue_time	12
3	queue_messages_1003150619	message_id	13
4	queue_messages_1003150619	message_sequence_number	14
5	queue_messages_1003150619	message_type_id	15
6	queue_messages_1003150619	next_fragment	16
7	queue_messages_1003150619	priority	17
8	queue_messages_1003150619	queuing_order	18

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	TableName	ColumnName	RowNum
1	queue_messages_1003150619	status	21
2	queue_messages_1003150619	validation	22
3	queue_messages_1035150733	binary_me...	23
4	queue_messages_1035150733	conversati...	24
5	queue_messages_1035150733	conversati...	25
6	queue_messages_1035150733	fragment_...	26
7	queue_messages_1035150733	fragment_...	27
8	queue_messages_1035150733	message_...	28
9	queue_messages_1035150733	message_id	29
10	queue_messages_1035150733	message_...	30

CTE Related Posts:

- Writing Your First Common Table Expression with SQL Server
- Video: Writing Your First CTE with SQL Server
- Common Table Expressions - Terminating the Previous Statement
- CTE Scope
- Introduction to Recursive CTEs
- Recursive CTE for Dates In A Year
- Expanding on Recursive Dates CTE
- Multiple CTEs in a Query
- Nested CTEs
- Nested CTE's Gone Wild - The Video
- CTE Data Paging
- CTE Data Paging in a Procedure
- Using a CTE in a Function to Split Up a Query String

- Using a CTE to Split a String Into Rows
- Can we use CTEs use in SSRS?
- CTE Hierarchy compared to the alternative

- Calculating Factorials with a Recursive CTE
- CTE – With An Insert Statement
- Fibonacci Sequence
- Generating a Tree Path with a CTE
- CTE Query Performance
- Multiple CTE's in a single Query
- Recursive CTE's

- TSQL 2012 - OFFSET and FETCH