SQL Server Tutorial

Part 130 - Offset fetch next in SQL Server 2012

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1

In this session we will learn

- Offset fetch clause in SQL Server

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series
http://www.youtube.com/user/kudvenkat/playlists

Suggested Videos
Part 127 - Difference between DateTime and SmallDateTime in SQL Server
Part 128 - DateTime2FromParts function in SQL Server 2012
Part 129 - Difference between DateTime and DateTime2 in SQL Server

2

Offset fetch next in SQL Server 2012

SQL Server 2012 OFFSET FETCH Clause makes it very easy to implement paging

OFFSET FETCH Clause
- **Introduced in SQL Server 2012**
- **Returns a page of results from the result set**
- **ORDER BY clause is required**

OFFSET FETCH Syntax :

```
SELECT * FROM Table_Name
ORDER BY Column_List
OFFSET Rows_To_Skip ROWS
FETCH NEXT Rows_To_Fetch ROWS ONLY
```

Id	Name	Description	Price
1	Product - 1	Product Description - 1	10
2	Product - 2	Product Description - 2	20
3	Product - 3	Product Description - 3	30
4	Product - 4	Product Description - 4	40
5	Product - 5	Product Description - 5	50
6	Product - 6	Product Description - 6	60
7	Product - 7	Product Description - 7	70
8	Product - 8	Product Description - 8	80
9	Product - 9	Product Description - 9	90
10	Product - 10	Product Description - 10	100

Offset fetch next in SQL Server 2012

The following SQL query
- **Sorts the table data by Id column**
- **Skips the first 10 rows and**
- **Fetches the next 10 rows**

```sql
SELECT * FROM tblProducts
ORDER BY Id
OFFSET 10 ROWS
FETCH NEXT 10 ROWS ONLY
```

Id	Name	Description	Price
1	Product - 1	Product Description - 1	10
2	Product - 2	Product Description - 2	20
3	Product - 3	Product Description - 3	30
4	Product - 4	Product Description - 4	40
5	Product - 5	Product Description - 5	50
6	Product - 6	Product Description - 6	60
7	Product - 7	Product Description - 7	70
8	Product - 8	Product Description - 8	80
9	Product - 9	Product Description - 9	90
10	Product - 10	Product Description - 10	100

Id	Name	Description	Price
11	Product - 11	Product Description - 11	110
12	Product - 12	Product Description - 12	120
13	Product - 13	Product Description - 13	130
14	Product - 14	Product Description - 14	140
15	Product - 15	Product Description - 15	150
16	Product - 16	Product Description - 16	160
17	Product - 17	Product Description - 17	170
18	Product - 18	Product Description - 18	180
19	Product - 19	Product Description - 19	190
20	Product - 20	Product Description - 20	200

4

Offset fetch next in SQL Server 2012

This stored procedure accepts PAGE NUMBER and the PAGE SIZE as parameters and returns the correct set of rows

```sql
CREATE PROCEDURE spGetRowsByPageNumberAndSize
@PageNumber INT,
@PageSize INT
AS
BEGIN
    SELECT * FROM tblProducts
    ORDER BY Id
    OFFSET (@PageNumber - 1) * @PageSize ROWS
    FETCH NEXT @PageSize ROWS ONLY
END

EXECUTE spGetRowsByPageNumberAndSize 3, 10
```

Id	Name	Description	Price
21	Product - 21	Product Description - 21	210
22	Product - 22	Product Description - 22	220
23	Product - 23	Product Description - 23	230
24	Product - 24	Product Description - 24	240
25	Product - 25	Product Description - 25	250
26	Product - 26	Product Description - 26	260
27	Product - 27	Product Description - 27	270
28	Product - 28	Product Description - 28	280
29	Product - 29	Product Description - 29	290
30	Product - 30	Product Description - 30	300

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

C#, ADO.NET, ASP.NET, SQL Server & MVC youtube Playlists
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