SQL Server Tutorial

Part 115 - FIRST_VALUE function in SQL Server

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In this session we will learn

- FIRST_VALUE function 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 112 - Calculate running total in SQL Server 2012
Part 113 - NTILE function in SQL Server
Part 114 - Lead and Lag functions in SQL Server 2012

FIRST_VALUE function in SQL Server

FIRST_VALUE function
- **Introduced in SQL Server 2012**
- **Retrieves the first value from the specified column**
- **ORDER BY clause is required**
- **PARTITION BY clause is optional**

Syntax : `FIRST_VALUE(Column_Name) OVER (ORDER BY Col1, Col2, ...)`

FIRST_VALUE function in SQL Server

FIRST_VALUE function example WITHOUT partitions : Returns the name of the lowest paid employee from the entire table

```sql
SELECT Name, Gender, Salary,
FIRST_VALUE(Name) OVER (ORDER BY Salary) AS FirstValue
FROM Employees
```

Id	Name	Gender	Salary
1	Mark	Male	1000
2	John	Male	2000
3	Pam	Female	3000
4	Sara	Female	4000
5	Todd	Male	5000
6	Mary	Female	6000
7	Ben	Male	7000
8	Jodi	Female	8000
9	Tom	Male	9000
10	Ron	Male	9500

Name	Gender	Salary	FirstValue
Mark	Male	1000	Mark
John	Male	2000	Mark
Pam	Female	3000	Mark
Sara	Female	4000	Mark
Todd	Male	5000	Mark
Mary	Female	6000	Mark
Ben	Male	7000	Mark
Jodi	Female	8000	Mark
Tom	Male	9000	Mark
Ron	Male	9500	Mark

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FIRST_VALUE function in SQL Server

FIRST_VALUE function example WITH partitions : Returns the name of the lowest paid employee from the respective partition

```sql
SELECT Name, Gender, Salary,
FIRST_VALUE(Name) OVER (PARTITION BY Gender ORDER BY Salary) AS FirstValue
FROM Employees
```

Id	Name	Gender	Salary
1	Mark	Male	1000
2	John	Male	2000
3	Pam	Female	3000
4	Sara	Female	4000
5	Todd	Male	5000
6	Mary	Female	6000
7	Ben	Male	7000
8	Jodi	Female	8000
9	Tom	Male	9000
10	Ron	Male	9500

Name	Gender	Salary	FirstValue
Pam	Female	3000	Pam
Sara	Female	4000	Pam
Mary	Female	6000	Pam
Jodi	Female	8000	Pam
Mark	Male	1000	Mark
John	Male	2000	Mark
Todd	Male	5000	Mark
Ben	Male	7000	Mark
Tom	Male	9000	Mark
Ron	Male	9500	Mark

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Additional Resources

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Resources:

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