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SQL Server Tutorial

Part 102 - Rollup in SQL Server

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In this session we will learn

Rollup 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 98 - Difference between where and having in sql server Part 99 - Table Valued Parameters in SQL Server Part 100 - Send datatable as parameter to stored procedure

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ROLLUP is used to do aggregate operation on multiple levels in a hierarchy

Employees Table					
Id	Name	Gender	Salary	Country	
1	Mark	Male	5000	USA	
2	John	Male	4500	India	
3	Pam	Female	5500	USA	
4	Sara	Female	4000	India	
5	Todd	Male	3500	India	
6	Mary	Female	5000	UK	
7	Ben	Male	6500	UK	
8	Elizabeth	Female	7000	USA	
9	Tom	Male	5500	UK	
10	Ron	Male	5000	USA	

Retrieve Salary by country along with grand total

	Country	TotalSalary
	India	12000
>	UK	17000
	USA	22500
	NULL	51500

Retrieve Salary by country along with grand total

SELECT Country, SUM(Salary) AS TotalSalary
FROM Employees

GROUP BY ROLLUP (Country)

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```
Other ways to retrieve Salary by Country along with Grand Total
-- Using ROLLUP clause with GROUP BY
SELECT Country, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY Country WITH ROLLUP
-- Using UNION ALL operator along with GROUP BY
SELECT Country, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY Country
UNION ALL
SELECT NULL, SUM(Salary) AS TotalSalary
FROM Employees
--Using GROUPING SETS
SELECT Country, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY GROUPING SETS
    (Country),
```

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Grouping sets is a new feature introduced in SQL Server 2008

Employees Table					
Id	Name	Gender	Salary	Country	
1	Mark	Male	5000	USA	
2	John	Male	4500	India	
3	Pam	Female	5500	USA	
4	Sara	Female	4000	India	
5	Todd	Male	3500	India	
6	Mary	Female	5000	UK	
7	Ben	Male	6500	UK	
8	Elizabeth	Female	7000	USA	
9	Tom	Male	5500	UK	
10	Ron	Male	5000	USA	

Group Salary by Country and Gender. Also compute the Subtotal at Country level and Grand Total.

Country	Gender	TotalSalary	
India	Female	4000	
India	Male	8000	
India	NULL	12000	
UK	Female	5000	
UK	Male	12000	
UK	NULL	17000	
USA	Female	12500	
USA	Male	10000	
USA	NULL	22500	
NULL	NULL	51500	

SELECT Country, Gender, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY ROLLUP(Country, Gender)

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-- Using ROLLUP clause with GROUP BY

Other ways to group Salary by Country and Gender and also to compute the Subtotal at Country level and Grand Total

```
SELECT Country, Gender, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY Country, Gender WITH ROLLUP

--Using UNION ALL with GROUP BY
SELECT Country, Gender, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY Country, Gender

UNION ALL

SELECT Country, NULL, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY Country

UNION ALL

SELECT NULL, NULL, SUM(Salary) AS TotalSalary
FROM Employees
```

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Other ways to group Salary by Country and Gender and also to compute the Subtotal at Country level and Grand Total

```
--Using GROUPING SETS
SELECT Country, Gender, SUM(Salary) AS TotalSalary
FROM Employees
GROUP BY GROUPING SETS
(
         (Country, Gender),
         (Country),
         ()
)
```

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Additional Resources

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