SQL Server Tutorial

Part 104 - Difference between CUBE and ROLLUP in SQL Server

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In this session we will learn

- Difference between CUBE and 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 101 - Grouping sets in SQL Server
Part 102 - Rollup in SQL Server
Part 103 - Cube in SQL Server

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Difference between CUBE and ROLLUP

CUBE generates a result set that shows aggregates for all combinations of values in the selected columns, where as ROLLUP generates a result set that shows aggregates for a hierarchy of values in the selected columns

Continent	Country	City	SaleAmount
Asia	India	Bangalore	1000
Asia	India	Chennai	2000
Asia	Japan	Tokyo	4000
Asia	Japan	Hiroshima	5000
Europe	United Kingdom	London	1000
Europe	United Kingdom	Manchester	2000
Europe	France	Paris	4000
Europe	France	Cannes	5000

ROLLUP(Continent, Country, City)

Continent, Country, City
Continent, Country,
Continent
()

CUBE(Continent, Country, City)

Continent, Country, City
Continent, Country,
Continent, City
Continent
Country, City
Country,
City
()

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Difference between CUBE and ROLLUP

You won't see any difference when you use ROLLUP and CUBE on a single column

```sql
SELECT Continent, Sum(SaleAmount) AS TotalSales
FROM Sales
GROUP BY ROLLUP(Continent)

-- OR

SELECT Continent, SUM(SaleAmount) AS TotalSales
FROM Sales
GROUP BY CUBE(Continent)
```

Continent	TotalSales
Asia	12000
Europe	12000
NULL	24000

Additional Resources

PRAGIM Home Page:

www.PragimTech.com

Resources:

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