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### **SQL Server Tutorial**

# Part 106 - GROUPING\_ID function in SQL Server

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### In this session we will learn

- GROUPING\_ID function in SQL Server
- Difference between GROUPING and GROUPING ID functions
- Use of GROUPING\_ID function

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 103 - Cube in SQL Server

Part 104 - Difference between cube and rollup in SQL Server

Part 105 - Grouping function in SQL Server

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### **GROUPING\_ID** function in SQL Server

If you are in need of the DVD with all the videos and PPT's, please visit <a href="http://pragimtech.com/order.aspx">http://pragimtech.com/order.aspx</a>

GROUPING\_ID function computes the level of grouping

#### Difference between GROUPING and GROUPING\_ID

Syntax: GROUPING function is used on single column, where as the column list for GROUPING\_ID function must match with GROUP BY column list.

GROUPING(Col1)

GROUPING\_ID(Col1, Col2, Col3,...)

**GROUPING** indicates whether the column in a GROUP BY list is aggregated or not. Grouping returns 1 for aggregated or 0 for not aggregated in the result set.

**GROUPING\_ID()** concatenates all the GOUPING() functions, perform the binary to decimal conversion, and returns the equivalent integer.

#### In short

 $GROUPING_ID(A, B, C) = GROUPING(A) + GROUPING(B) + GROUPING(C)$ 



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## **GROUPING\_ID** function in SQL Server

#	Continent	Country	City	TotalSales	Groupings	GPID
1	Asia	India	Bangalore	1000	000	0
2	Asia	India	Chennai	2000	000	0
3	Asia	India	NULL	3000	001	1
4	Asia	Japan	Hiroshima	5000	000	0
5	Asia	Japan	Tokyo	4000	000	0
6	Asia	Japan	NULL	9000	001	1
7	Asia	NULL	NULL	12000	011	3
8	Europe	France	Cannes	5000	000	0
9	Europe	France	Paris	4000	000	0
10	Europe	France	NULL	9000	001	1
11	Europe	United Kingdom	London	1000	000	0
12	Europe	United Kingdom	Manchester	2000	000	0
13	Europe	United Kingdom	NULL	3000	001	1
14	Europe	NULL	NULL	12000	011	3
15	NULL	NULL	NULL	24000	111	7

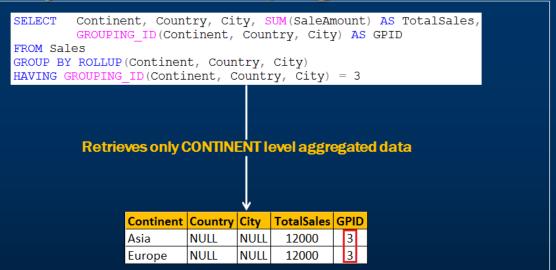
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# **Sorting by Level of Grouping**

Continent	Country	City	TotalSales	GPID
Asia	Japan	Hiroshima	5000	0
Asia	Japan	Tokyo	4000	0
Asia	India	Bangalore	1000	0
Asia	India	Chennai	2000	0
Europe	France	Cannes	5000	0
Europe	France	Paris	4000	0
Europe	United Kingdom	London	1000	0
Europe	United Kingdom	Manchester	2000	0
Europe	United Kingdom	NULL	3000	1
Europe	France	NULL	9000	1
Asia	India	NULL	3000	1
Asia	Japan	NULL	9000	1
Asia	NULL	NULL	12000	3
Europe	NULL	NULL	12000	3
NULL	NULL	NULL	24000	7

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## Filter by Level of Grouping



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# **Additional Resources**

### **PRAGIM Home Page:**

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### Resources:

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