

## CUBE and ROLLUP

- SELECT item ,color ,qty FROM GJK\_Tab1

item	color	qty
Table	Blue	100
Table	Red	200
Chair	Blue	1000
Chair	Red	2000

- SELECT Item, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item

Item	QtySum
Chair	3000
Table	300

- SELECT Item, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item **WITH CUBE**

Item	QtySum
Chair	3000
Table	300
<i>NULL</i>	3300

- SELECT Item, color, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item, color with cube

Item	color	QtySum
Chair	Blue	1000
Table	Blue	100
<i>NULL</i>	Blue	1100
Chair	Red	2000
Table	Red	200
<i>NULL</i>	Red	2200
<i>NULL</i>	<i>NULL</i>	3300
Chair	<i>NULL</i>	3000
Table	<i>NULL</i>	300

- SELECT Item, color, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item, color **WITH ROLLUP**

<b>Item</b>	<b>color</b>	<b>QtySum</b>
Chair	Blue	1000
Chair	Red	2000
Chair	<i>NULL</i>	3000
Table	Blue	100
Table	Red	200
Table	<i>NULL</i>	300
<i>NULL</i>	<i>NULL</i>	3300

- SELECT CASE WHEN (GROUPING(Item) = 1) THEN 'ALL' ELSE ISNULL(Item, 'UNKNOWN') END AS Item, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item WITH CUBE

<b>Item</b>	<b>QtySum</b>
Chair	3000
Table	300
<i>ALL</i>	3300

- SELECT CASE WHEN (GROUPING(Item) = 1) THEN 'ALL' ELSE ISNULL(Item, 'UNKNOWN') END AS Item, CASE WHEN (GROUPING(Color) = 1) THEN 'ALL' ELSE ISNULL(Color, 'UNKNOWN') END AS Color, SUM(Qty) AS QtySum FROM GJK\_Tab1 GROUP BY Item, Color WITH ROLLUP

<b>Item</b>	<b>Color</b>	<b>QtySum</b>
Chair	Blue	1000
Chair	Red	2000
Chair	<i>ALL</i>	3000
Table	Blue	100
Table	Red	200
Table	<i>ALL</i>	300
<i>ALL</i>	<i>ALL</i>	3300