

## DB2 GROUP BY 拡張

[DB2]

### ROLLUP

- ・グループごとのサマリーを作成

```
SELECT t.name AS tour_name,  
       c.name AS county_name,  
       COUNT(*) AS falls_count  
FROM upfall u INNER JOIN trip t  
     ON u.id = t.stop  
     INNER JOIN county c  
     ON u.county_id = c.id  
GROUP BY ROLLUP(t.name, c.name);
```

TOUR_NAME	COUNTY_NAME	FALLS_COUNT
M-28	Alger	3
M-28	Baraga	1
M-28	Ontonogan	2
M-28		6
US-2	Delta	1
US-2	Gogebic	1
US-2	Dickenson	1
US-2	Ontonogan	1
US-2		4
Munising	Alger	6
Munising		6

### CUBE

- ・指定列のすべての可能な組み合わせサマリ

```
SELECT t.name AS tour_name,  
       c.name AS county_name,  
       COUNT(*) AS falls_count  
FROM upfall u INNER JOIN trip t  
     ON u.id = t.stop  
     INNER JOIN county c  
     ON u.county_id = c.id  
WHERE t.name = 'Munising'  
GROUP BY CUBE(t.name, c.name);
```

TOUR_NAME	COUNTY_NAME	FALLS_COUNT
		6
	Alger	6
Munising		6
Munising	Alger	6

### GROUP BY で有用な関数

GROUPING( column )

- ・CUBE, ROLLUP の結果が NULL の場合、1 を返す、そうでない場合、0 を返す