

Subtotals in Sql

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1.ROLLUP Extension:

```
--Rollup Extension  
SELECT SalesYear, SUM(SalesTotal) AS SalesTotal FROM SalesList  
GROUP BY ROLLUP(SalesYear);
```

97 %

Results Messages

	SalesYear	SalesTotal
1	2019	700.00
2	2020	350.00
3	NULL	1050.00

2 Parametres:

```
SELECT SalesYear,SalesQuartes, SUM(SalesTotal) AS SalesTotal  
FROM SalesList GROUP BY ROLLUP(SalesYear, SalesQuartes)
```

97 %

Results Messages

	SalesYear	SalesQuartes	SalesTotal
1	2019	Q1	60.00
2	2019	Q2	30.00
3	2019	Q3	160.00
4	2019	Q4	450.00
5	2019	NULL	700.00
6	2020	Q1	220.00
7	2020	Q3	10.00
8	2020	Q4	120.00
9	2020	NULL	350.00
10	NULL	NULL	1050.00

3 Parametres:

--3 Parametres

SELECT SalesYear,SalesQuartes,SalesMonth ,SUM(SalesTotal) AS SalesTotal

FROM SalesList GROUP BY ROLLUP(SalesYear, SalesQuartes, SalesMonth);

97 %

Results

Messages

	SalesYear	SalesQuartes	SalesMonth	SalesTotal
1	2019	Q1	March	60.00
2	2019	Q1	NULL	60.00
3	2019	Q2	May	30.00
4	2019	Q2	NULL	30.00
5	2019	Q3	July	160.00
6	2019	Q3	NULL	160.00
7	2019	Q4	November	300.00
8	2019	Q4	October	150.00
9	2019	Q4	NULL	450.00
10	2019	NULL	NULL	700.00
11	2020	Q1	March	220.00
12	2020	Q1	NULL	220.00
13	2020	Q3	July	10.00
14	2020	Q3	NULL	10.00
15	2020	Q4	November	120.00
16	2020	Q4	NULL	120.00
17	2020	NULL	NULL	350.00
18	NULL	NULL	NULL	1050.00

2. Grouping Function:

```
--Grouping Function
SELECT SalesYear,
SalesQuartes,
SUM(SalesTotal) AS SalesTotal ,
GROUPING(SalesQuartes) AS SalesQuarterGrp,
GROUPING(SalesYear) AS SYearGrp
FROM SalesList
GROUP BY ROLLUP(SalesYear, SalesQuartes)
```

97 %

Results Messages

	SalesYear	SalesQuartes	SalesTotal	SalesQuarterGrp	SYearGrp
1	2019	Q1	60.00	0	0
2	2019	Q2	30.00	0	0
3	2019	Q3	160.00	0	0
4	2019	Q4	450.00	0	0
5	2019	NULL	700.00	1	0
6	2020	Q1	220.00	0	0
7	2020	Q3	10.00	0	0
8	2020	Q4	120.00	0	0
9	2020	NULL	350.00	1	0
10	NULL	NULL	1050.00	1	1