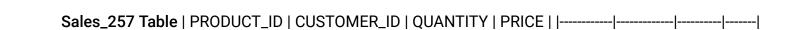
Example 1: Roll Up SQL Command

This command is used to perform hierarchical aggregation on the **Sales_257** table, summarizing by both PRODUCT_ID and PRODUCT_NAME. The ROLLUP operator generates subtotals and grand totals.

Sample Data



•

|1|101|10|15||1|102|5|15|

|2|101|3|30||2|103|8|30|

•

```
|1|Widget A|
```

| 2 | Widget B |

SQL Command:

```
SELECT
S.PRODUCT_ID,
SUM(S.QUANTITY) AS TOTAL_QUANTITY,
SUM(S.QUANTITY * P.PRICE) AS TOTAL_SALES
FROM
Sales_257 S
JOIN
Product_257 P ON S.PRODUCT_ID = P.PRODUCT_ID
GROUP BY
ROLLUP(S.PRODUCT_ID, P.PRODUCT_NAME);
```

Output:

PRODUCT_ID	PRODUCT_NAME	TOTAL_QUANTITY	TOTAL_SALES
1	Widget A	15	225
2	Widget B	11	330
NULL	NULL	26	555

•

Explanation: The result shows:

Total for each product.

A subtotal of total quantity and sales across all products (NULL in both PRODUCT_ID and PRODUCT_NAME).

Example 2: Drill Down SQL Command

This command drills down the data by grouping Sales_257 data by PRODUCT_ID and CUSTOMER_ID, displaying detailed information.

Sample Data

•

|1|101|10|15|

|1|102|5|15|

|2|101|3|30|

|2|103|8|30|

Customer_257 Table | CUSTOMER_ID | CUSTOMER_NAME | |------|

•

101	John Doe
102	Jane Smith
103	Bob Brown

SQL Command:

SELECT
S.PRODUCT_ID,
C.CUSTOMER_ID,
C.CUSTOMER_NAME,
SUM(S.QUANTITY) AS TOTAL_QUANTITY
FROM
Sales_257 S
JOIN

Customer_257 C ON S.CUSTOMER_ID = C.CUSTOMER_ID GROUP BY S.PRODUCT_ID, C.CUSTOMER_ID, C.CUSTOMER_NAME ORDER BY S.PRODUCT_ID, C.CUSTOMER_ID;

Output:

PRODUCT_ID	CUSTOMER_ID	CUSTOMER_NAME	TOTAL_QUANTITY
1	101	John Doe	10
1	102	Jane Smith	5
2	101	John Doe	3
2	103	Bob Brown	8

Explanation: The result shows each **CUSTOMER_ID** and **CUSTOMER_NAME** for each **PRODUCT_ID**, with the total quantity they purchased.

Example 3: Slice SQL Command

This command slices the Sales_257 table by filtering based on a specific PRODUCT_ID. In this case, it filters for PRODUCT_ID = 1.

SQL Command:

SELECT * FROM Sales_257 WHERE PRODUCT_ID = 1;

Output:

PRODUCT_ID	CUSTOMER_ID	QUANTITY	PRICE
1	101	10	15
1	102	5	15

Explanation: The result only shows the records where PRODUCT_ID = 1.