

Sales Report with ROLLUP

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Solution :-

SELECT

ISNULL(ProductCategory, 'Total') AS ProductCategory,

ISNULL(ProductName, 'Total') AS ProductName,

SUM(SaleAmount) AS TotalSales

FROM Sales

GROUP BY ROLLUP (ProductCategory, ProductName)

ORDER BY

ProductCategory,

ProductName;

Output :-

ProductCategory	ProductName	TotalSales
Clothing	Pants	400.00
Clothing	Shirt	300.00
Clothing	Total	700.00
Electronics	Laptop	1000.00
Electronics	Phone	800.00
Electronics	Tablet	500.00
Electronics	Total	2300.00

Explanation :-

- GROUP BY ROLLUP (ProductCategory, ProductName) generates:
 - Totals per product within each category.
 - Subtotals per category (ProductName = NULL).
 - Grand total (ProductCategory and ProductName = NULL).
- ISNULL(..., 'Total') replaces NULL with "Total" for readability.
- SUM(SaleAmount) aggregates sales data.