

Question:

You're working on a project where you need to generate a sales report that includes both total sales for each product category and an overall total. Your database contains a table named Sales with the following columns:

ProductCategory: The category of the product sold.

ProductName: The name of the product sold.

SaleAmount: The amount of the sale.

How would you use the SQL Server ROLLUP function to generate a report that shows the total sales for each product category as well as the overall total sales?

Hint:

Consider using the ROLLUP function in conjunction with a GROUP BY clause to achieve the desired results. You may need to carefully structure your query to ensure that it produces the correct subtotal and grand total rows.

Sample Input:

Let's assume we have the following sample data in the Sales table:

ProductCategory	ProductName	SaleAmount
Electronics	Laptop	1000

Electronics	Phone	800
Electronics	Tablet	500
Clothing	Shirt	300
Clothing	Pants	400
Furniture	Sofa	1200
Furniture	Bed	900

Expected Output:

The output should include total sales for each product category and an overall total. It would look like this:

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
Furniture	Bed	900.00
Furniture	Sofa	1200.00
Furniture	Total	2100.00
Total	Total	5100.00