

Request 10

Get the top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021?

The final output contains these fields,
division
product_code
product
total_sold_quantity
rank_order

SQL Query & Output

```
WITH sold_quant_by_product_division AS (  
  SELECT  
    p.division,  
    p.product_code,  
    concat(p.product, " (", p.variant, ")") AS product,  
    SUM(s.sold_quantity) total_sold_quantity  
  FROM  
    fact_sales_monthly s  
  JOIN dim_product p ON s.product_code = p.product_code  
  WHERE  
    fiscal_year = 2021  
  GROUP BY  
    p.division,  
    p.product_code,  
    concat(p.product, " (", p.variant, ")")  
)  
prod_rank_by_sold_quant AS (  
  SELECT  
    *,  
    DENSE_RANK() OVER (  
      PARTITION BY division  
      ORDER BY  
        total_sold_quantity DESC  
    ) AS rank_order  
  FROM  
    sold_quant_by_product_division  
)  
SELECT  
  *  
FROM  
  prod_rank_by_sold_quant  
WHERE  
  rank_order <= 3;
```

--OUTPUT--

division	product_code	product	total_sold_quantity	rank_order
N & S	A6720160103	AQ Pen Drive 2 IN 1 (Premium)	701373	1
N & S	A6818160202	AQ Pen Drive DRC (Plus)	688003	2
N & S	A6819160203	AQ Pen Drive DRC (Premium)	676245	3
P & A	A2319150302	AQ Gamers Ms (Standard 2)	428498	1
P & A	A2520150501	AQ Maxima Ms (Standard 1)	419865	2
P & A	A2520150504	AQ Maxima Ms (Plus 2)	419471	3
PC	A4218110202	AQ Digit (Standard Blue)	17434	1
PC	A4319110306	AQ Velocity (Plus Red)	17280	2
PC	A4218110208	AQ Digit (Premium Misty Green)	17275	3