Supply Chain Order Analysis Questions

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Basic:

1. How many orders were placed in January 2017 in the sales_test.csv dataset?
2. What is the total number of units ordered (NS_ORDER) in February 2017?
3. Find the number of canceled orders (NC_ORDER for each customer in canceled_test.csv.
4. How many unique customers are there in the sales_test.csv dataset?
5. Find the average number of items ordered (NS_ORDER) per order in the sales_test.csv dataset.
6. List the top 5 items that have been ordered the most in the sales_test.csv.
7. Find the total number of successful orders (NS_ORDER) where the CUSTOMER_NO is either 1857566 or 1358538 and the DATE is in January 2017.

Intermediate:

8. Find the total number of units ordered (NS_ORDER) and canceled (NC_ORDER) for each item that appears in both sales_test.csv and canceled_test.csv. Include items that have been both ordered and canceled.
9. Compare the number of canceled orders (NC_ORDER) and successful orders (NS_ORDER) for the same items.

10. Classify each order in the sales_test.csv dataset as 'High', 'Medium', or 'Low' based on the number of units ordered (NS_ORDER):

- 'Low' if NS_ORDER is less than 20.
- 'Medium' if NS_ORDER is between 20 and 50.
- 'Low' if NS_ORDER is less than 20.

11. Calculate the percentage of shipped items (NS_SHIP) out of the total ordered (NS_ORDER) for each customer in sales_test.csv.
12. Find the top 3 customers with the most canceled orders in canceled_test.csv.
13. List all the items that have been canceled more than shipped in canceled_test.csv.
14. Find the customer who placed the largest number of orders in January 2017 from the sales_test.csv dataset.

Advanced:

15. For each customer, calculate the cumulative total of ordered units (NS_ORDER) over time and rank the orders by date.
    Show the ORDER_NO, CUSTOMER_NO, NS_ORDER, DATE, and the cumulative total of ordered units.
16. Find the top 3 customers who have the highest total number of canceled orders (NC_ORDER) from canceled_test.csv and their corresponding total sales (NS_ORDER) from sales_test.csv.
17. Find out the contribution of top 5 customers (by total NS_ORDER) to overall sales.
18. Perform an ABC classification of items in sales_test.csv, where:
    - Class A: Top 20% of items contributing to 80% of total sales.
    - Class B: Next 30% of items contributed 15% of total sales.
    - Class C: Remaining 50% of items.