SQL Problems

- 1. Total sales and profit per customer
- 2. Calculates total sales, total profit, and the number of orders for each customer.
- 3. Lists all order details and their associated customer names. Orders that do not have corresponding customer records will still appear in the results.
- 4. Customer information and their total sales. Customers without sales records will still be included in the results.
- 5. Total sales and the number of products sold for each product category
- 6. Calculates the average discount and profit for each product.
- 7. Calculates total sales and profit for each region.
- 8. Identifies customers who placed more than one order.
- 9. Calculates total sales for each customer segment.
- 10. Finds the top 5 products with the highest total profit.
- 11. Calculates total sales for each shipping mode.
- 12. Calculates the lifetime value of each customer by aggregating total sales and profit over their order history.
- 13. Identifies customers who haven't placed any orders in the past two years, potentially marking them as churned customers.
- 14. Identifies products that have generated the most profit relative to their sales, highlighting high-profit products.
- 15. shows the cities that have contributed the most to profit, helping you identify key areas of success.
- 16. Calculates the average value of orders across different shipping modes to determine which shipping methods are most profitable.
- 17. Calculates the year-over-year sales growth for each customer segment.
- 18. Calculates the retention rate of customers by comparing the number of customers placing orders in consecutive years.
- 19. Breakdown of total sales by product category and subcategory, and it calculates the contribution of each subcategory to its parent category.
- 20. Calculate the year-over-year (yoy) sales growth for each product category.
- 21. Calculates the rolling 3-month average sales for each region.
- 22. Identifies the top n products by profit growth over time using window functions and a ranking system.
- 23. Calculates the month-over-month sales growth for each customer using a recursive cte and window functions. It tracks the difference in sales between consecutive months.
- 24. Extracts the first three digits of the postal code to identify which regions (based on postal code prefixes) contribute the most to sales.
- 25. Total sales by gender and age group
- 26. Monthly order trends by gender
- 27. Identifying products shipped to customers
- 28. Most popular payment method by region
- 29. Average age of customers by product category
- 30. Identifying high-value customers