

Questions

- Q.1 Write a SQL query to retrieve all columns for sales made on '2022-11-05'
- Q.2 Write a SQL query to retrieve all transactions where the category is 'Clothing' and the quantity sold is more than 10 in the month of Nov-2022
- Q.3 Find all sales where the category is 'Electronics'.
- Q.4 Calculate the total COGS (cost of goods sold) for each sale date.
- Q.5 Write a SQL query to calculate the total sales (total_sale) for each category.
- Q.6 Write a SQL query to find the average age of customers who purchased items from the 'Beauty' category.
- Q.7 Write a SQL query to find all transactions where the total_sale is greater than 1000.
- Q.8 Write a SQL query to find the total number of transactions (transaction_id) made by each gender in each category.
- Q.9 Find the most common sale time from the table.
- Q.10 Write a SQL query to calculate the average sale for each month. Find out best selling month in each year
- Q.11 Write a SQL query to find the top 5 customers based on the highest total sales
- Q.12 Write a SQL query to find the number of unique customers who purchased items from each category.
- Q.13 Write a SQL query to create each shift and number of orders (Example Morning <=12, Afternoon Between 12 & 17, Evening >17)
- Q.14 Calculate the average spending (total_sale) for each age group (e.g., under 30, 30-40, 40-50, etc.).
- Q.15 Identify transactions where the total sale is less than the sum of the product's quantity * price_per_unit (indicating a discount).
- Q.16 Calculate the profit margin for each transaction as a percentage of the total sale.
- Q.17 Identify customers who have not made a purchase in the last 6 months.
- Q.18 Calculate the 7-day moving average of total sales for trend analysis.
- Q.19 Identify the customers who have the highest number of transactions.
- Q.20 For each transaction, calculate the profit margin percentage $((\text{total_sale} - \text{cogs}) / \text{total_sale})$.