**Assignment Part 2- SQL**

**Company- LearnVista Pvt Ltd.**

**Input\_Table: Sales\_orders**

1. Find the top 5 customers with the highest lifetime value (LTV), where LTV is calculated as the sum of their profits divided by the number of years they have been customers.
2. Create a pivot table to show total sales by product category and sub-category.
3. Find the customer who has made the maximum number of orders in each category:
4. Find the top 3 products in each category based on their sales.
5. In the table Orders with columns OrderID, CustomerID, OrderDate, TotalAmount, and Status. You need to create a stored procedure Get\_Customer\_Orders that takes a CustomerID as input and returns a table with the following columns, you will need to create a function also that calculates the number of days between two dates.

OrderDate

TotalAmount

TotalOrders: The total number of orders made by the customer.

AvgAmount: The average total amount of orders made by the customer.

LastOrderDate: The date of the customer's most recent order.

DaysSinceLastOrder: The number of days since the customer's most recent order.