Practical Exercise: 11

Online Store Inventory Management with Sales Tracking and Discount Calculation

Objective: Develop a PL/SQL package, triggers, and functions to manage an online store's product inventory, track sales, and calculate discounts.

Requirements:

1. **Tables:**

   o Products_studID (columns: product_id, product_name, price, stock)

   o sales_studID (columns: sale_id, product_id, quantity, sale_date)

   o discounts_studID (columns: product_id, discount_percentage, start_date, end_date)

2. **Package (inventory_pkg):**

   o Procedure add_product_studID to add a new product.

   o Procedure update_stock__studID to update the stock of a product.

   o Procedure record_sale_studID to record a sale and update product stock.

   o Function get_product_info_studID to retrieve product details by product_id.

   o Procedure display_products_studID to display all products and their details.

   o Function calculate_discounted_price _studID to calculate the price after discount for a given product.

3. **Triggers:**

   o Trigger to update the stock in the products table when a sale is recorded.

   o Trigger to ensure the stock does not drop below zero when recording a sale.

   o Trigger to apply discount using calculate_discounted_price_studID function whenever a sale is recorded.