Problem Statement for final Milestone Based Assignment.

You are developing a database for an online shopping application. This application will have two modules.

1. Customer
2. Admin

Customer module is responsible for searching for product, buying products, update their respective information. Admin would be able to add, delete, update product.

For above requirement we need to develop two tables.

1. **Customer_Table with fileds**
    - Customer_Id primary key , auto incremented
    - Customer_name,
    - Customer_ Address,
    - Customer_Username,
    - Customer_Password,
    - Customer_Email,
    - Customer_Phone
2. **Admin_Table with Fields**
    - Admin _Id primary key , auto incremented
    - Admin _name,
    - Admin _ Address,
    - Admin _Username,
    - Admin _Password,
    - Admin _Email,
    - Admin _Phone

Admin wants to have one report table in which Customer_table's acivity should be monitored.

So create one table with name Customer_Activity_Report in which all operation in Customer table will be updated.(Create triggers on customer table which will update insert, update and delete operation in Customer_Activity_Report).

This application will facilitate customer to do purchase online so there will be one Product table which will have following fields

3. **Product_Table**
    - Product_id, primary key auto incremented
    - Product_Name,
    - Product_Added_Date,
    - Product_Expiry_Date,
    - Product_Category,
    - Product_Price,
    - Product_Quantity

Admin wants to have look on product table if purchase will be done and quantity has been changed. Create a Table Product_Status_Report which will be updated if any new product will be added and if any update in product will be done.

Example -> If Product1 is having quantity 10 and any customer bought 4 product then Product_Status_Report table should get notified.

This application will generate order for every purchase so in order to maintain orders details you will have to create one more table

4. Ordert_Table
   Order_id int primary key,
   Order_Date,
   Order_Price,
   Customer_Id -foreign key refer to Customer Table
   Product_Id – Foreign Key refer to Product_Table
5. Admin want to see the details of Order_table including which customer put this order. In order to do so you will have to use relevant join in order to club two tables and display appropriate date.
6. Customer is going to buy one product from our online shopping application but if there won't be sufficient quantity available then customer's purchase shouldn't updated in our Product table.
   It means If purchase is successful then quantity should be update but if purchase is not successful then Product_table shouldn't get updated.(Trnasaction)
7. From Order table Admin wants to generate some reports.
   a. Biggest order placed on 12-12-2021
   b. Lowest order placed on 10-12-2021
   c. Second Highest order placed on 12-12-2021
   d. Average of All order price.
8. Admin wants to perform some operation from Product_Table
   a. Get count of products with respect to category
   b. Get Most expensive product
   c. Get the product which is available in biggest quantity.
   d. Get Products which are less than 5000.