بسم الله الرحمن الرحيم

Cosmetics Online Store

Introduction :

Dear Developer, Hope You Doing Well

Depends on the following user story you should build Data base Application for Cosmetics Online Store System Using Microsoft SQL Server Database and implement the necessary requirement and follow development instruction to Implement and achieve the Requirements

Abstract :

Hello, my name is Musa Al-Ali I own a store that sells cosmetics and I would like to increase sales and publish the store online. I want to provide a set of features in this store other than the online purchasing process. For example, I want to offer discounts to the best customers or the ones who purchase the most from the store. I also want to provide the feature of requesting products from customers, and I want to provide the wish list feature in order to The customer can remember all his favorite products and buy them when he sees fit. For my part, as a manager, I would like to have the ability to manage customers and the content in the store. I would also like to have the ability to make the product available for sale or stop selling it, and do not forget that I want to issue reports on these sales and their status.

User Story :

Our System contains of item each item have name , description , image , category , brand , quantity , cost , price , is have discount , discount amount each item will have multiple ingredients each ingredient have name and quantity for this ingredient and its may be repeated on the other hand the admin and clients will be have access on portal using email and password each one of them have profile image and phone number the admin how will be able to create item and category and brand the users should be able to explore items and add the items on order list or on wish list and the client may send item request to the admin and each item on order could be rated by client (the rate of order will applied on each item under the order)

Database Queries

1. **Retrieve Items by Category:**
    - **Write a query to fetch all items based on a selected category, including details such as name, price, and discount status.**
2. **Search Items:**
    - **Implement a query to search for items by name or description using a keyword.**
3. **Customer Purchase History:**
    - **Create a query to fetch the purchase history of a specific customer, including item details, quantities, and total spent.**
4. **Top-Selling Products:**
    - **Write a query to identify the top-selling products based on order quantities within a specified timeframe.**

Database Views

1. Active Items View**:**

   Create a view to display all items currently available for sale, including category, brand, price, and discount amount.

2. Customer Wishlist View:

   Implement a view to show all wishlist items for each customer, including item details and quantities.

3. Sales Summary View**:**
   Create a view summarizing total sales by month, including revenue and number of orders.

Stored Procedures

1. **Add Item to Order**:
   Write a stored procedure to add a selected item to a customer's order, ensuring stock availability is checked before adding.
2. **Manage Discounts**:
   Implement a stored procedure to apply or update discounts for specific items or categories.
3. **Generate Sales Report**:
   Create a stored procedure to generate a detailed sales report for a given period, including itemized sales and total revenue.
4. **Process Item Request**:
   Develop a stored procedure for the admin to process product requests submitted by customers, with options to approve or reject the request.

Implementation Requirements : Please Follow this instruction while developed this Project

1- Build ER – Diagram
2- Create Word Document to implement following

a- The scope of the project
b- The Mandatory object
c- The Software Type and the functionality follow in the system
d- Summarize the Objects
e- Summarize the Objects Relationships

3- Build Data base System using SQL Command and Follow the Normalization Pattern
4- Build the necessary DB configuration and constraints depends on the system questions
5- Fell Free To add any additional feature to the system
6- remember to add dummy data for testing purpose

Acceptance Criteria

1- Each Entity Must have a Primary Key and Make it's Identity

2- Ensure about applying check constraints and Default at least for 2 properties in each table
3- Configure the relation using foreign key constraints and use cascade

4- Submit SQL Scripts

5- Submit SQL Backup File (Data tier applications)

6- Submit Word Document

7- Submit ER Diagram

With The best Wishes From Your Trainer **Jasser Alshaer**

***fell free to ask questions about any thing**
*** remember you will be the best**