

Soappy

A Handmade Soap Shop DBS

Wan-Chan Lin (N01712482)

Problem

"The shop faces challenges in accurately tracking inventory levels, making it difficult to monitor stock availability, identify low-stock items, and ensure timely restocking of soap products.

Database Structure

soap	
soap_id(PK)	int(11)
soap_recipe_id (FK)	int(11)
name	varchar(100)
weight_grams	decimal(10,2)
cost	decimal(10,2)
price	decimal(10,2)
season	enum
produce_date	datetime
expire_date	datetime
inventory	int(111)

soap_recipe	
soap_recipe_id (PK)	int(11)
colour	varchar(100)
main_oil	varchar(100)
scent	varchar(100)

user	
user_id (PK)	int(11)
first_name	varchar(100)
last_name	varchar(100)
email	varchar(100)
skin_types	enum
location	varchar(100)

sale	
sale_id (PK)	int(11)
user_id (FK)	int(11)
soap_id (FK)	int(11)

low_inventory_alert	
alert_id (PK)	int(11)
soap_id (FK)	int(11)
alert_date	datetime

Solution

Monitor inventory levels and track sales transactions.

- When a sale is recorded in the Sales table, the corresponding inventory quantity is reduced by 1
- If the inventory level drops below 10, the item will be listed in the Alert table.

Next Steps

- Tracking the best-selling soaps to identify trends and preferences.
- Developing a rewards program to engage and retain members.
- Analyzing user types to create new soap recipes that align with their needs.

Thank You

Q & A