DBMS ASSIGNMENT 6

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Div-2

Github link:
https://github.com/Sejalsarnaik/111903094_DBMS_Mini_Project.git

1. Problem statement

The Grocery Store Management System is a system designed for managing i.e. for arranging, selling goods and keeping a note of details of employees.
The employee prepares bill for goods purchased by the customer and order details is stored in the database. While making a order to the distributer the manager will be able to get to know the stock present in the store.

2. Objectives

To make software fast in processing, with good user interface so that user
can use it for a long time without error and much
Maintenance.

3. Functional requirements

Only authentic admin or employee must have the access to the system.

Same Id's for 2 or more employees, categories, products, bills shall not be allowed

Employee must be able to generate a bill containing customer details and products price and number.

Only manager can update product, category details and employee details.

Schemas obtained by ER diagram:

Admin

Username	Name	Password
abc	Shk	***
efg	bnm	***

Employee

employee_id	**password**	**name**	**Contact_no**	**Date_of_joining**	**Manged by(fk admin)**
1002	**ashma**	**Ashma**	**9837389076**	**12/09/2020**	**Abc**
1003	**riya**	**Riya**	**7865341256**	**01/08/2019**	**Efg**

Products:

product_id	name	stock	price	catg	Updated by(fk admin)
1	Oreo	10	10	Biscuit	abc
2	Rice	200	30	Grains	efg

Orders:

order_id	product_id	name	no_of_items	tot_price	catg	Date	placed (fk admin)by
1	2	Rice	2	60	Grains	11/01/2020	abc
2	1	Oreo	10	100	Biscuit	19/07/2019	efg

Bill:

Bill_no	Cust_name	Cont_no	date	tot_price	employ(fk)
1	Diya	9734156712	12/10/2021	53	Ashma
2	Rita	7845231567	23/11/2021	100	Riya

Set of functional dependencies that must hold on each table.

Admin

username -> password

username -> name

employee

employ_id->password

employ_id -> name;

employ_id ->date_of_joining

employ_id -> cont_no

employ_id->Managed_by

products

product_id -> name

product_id ->catg

product_id -> price

product_id -> stock

product_id -> cupdated_by

orders

order_id->product_id

order_id->name

order_id->no_of_items

order_id->tot_price

order_id->catg

order_id->date

order_id->placed_by

bills:

bill_no -> cust_name

bill_no -> cont_no

bill_no -> date

bill_no -> tot_price

bill_no->employ

ER diagram