



CHS - Team #17

Introduction to Database Systems

Hypermarket System (HMS)

Project Proposal Report

Team Number: #17

Team Members:

-	Khaled Gamal Sani El-Lethy	1180264
-	Karim Ahmed Shawky	1180484
-	Mohamed Khaled Shams	1180552
_	Mariam Essam Mohamed	1180027

Contact Info:

khaled.lethy00@eng-st.cu.edu.eg kareem.ahmed00@eng-st.cu.edu.eg Mohamed.Shams00@eng-st.cu.edu.eg mariam.ghanem991@eng-st.cu.edu.eg

Hypermarket Proposal

Overview:

A desktop application database system to manage the day to day operations of a hypermarket by recording all transactions during the day. The system offers many functionalities for different kinds of employees present in the hypermarket.

Users:

- 1- IT Manager
- 2- Cashier
- 3- Inventory Manager
- 4- Procurement Manager
- 5- Sales Manager

Tables:

- Employees (id, F.name, L.name, type, salary, department)
- Customer (id, F.name, L.name, phone number, address, e-mail)
- Inventory (product id, name, quantity, price)
- Product (product id, name, price)
- Supplier (supplier id, name)
- Departments (department number, address)

Functionality:

IT Manager:

- 1- Views different types of hired employees.
- 2- Inserts a record for a new employee into the database after being hired.
- 3- Modifies data of hired employees as salary and working hours.
- 4- Deletes data of employees who are no longer working for the hypermarket.

Cashier:

- 1- Updates the sales of a product; modify the number of sales of a certain product.
- 2- Inserts a new customer record into the database for new customers.
- 3- Updates loyalty points to a customer record.
- 4- Views the info of a customer for home delivery.

Inventory Manager:

- 1- Views the current inventory of products. (to send for a product restock)
- 2- Updates the inventory of products when products are taken from storage.
- 3- Updates the inventory of products when a new shipment arrives from suppliers.

Procurement Manager:

- 1- Inserts new products into the database.
- 2- Deletes products which the hypermarket no longer offers.

Sales Manager:

- 1- Modifies the info of present products. (as the price of the product)
- 2- Orders a query to calculate total salaries, average of salaries, average of working hours for each type of hired employees.
- 3- Orders a query to calculate the net profit of the hypermarket per day.
- 4- Orders a query to find the most/least sold products.
- 5- Orders a query to calculate the profits or losses of a certain product.