Database Programming

Memo

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| To: | Chris Cusack |
| From: | William Balingit |
| Date: | 11/08/2023 |
| Re: | Project Proposal – Inventory Management for Rinzler Grocery |

I am writing to propose the development of an Inventory Management System for Rinzler’s Grocery Store. Employees may manage stock levels of various products, and a product can be managed by multiple employees. Stocks may increase or decrease when either restocked or depleted.  
  
**Business Rules:**

1. Each entry in the system must be associated with a specific employee.
2. There will be a set minimum and maximum stock level threshold for each product, going below or above such thresholds will send out corresponding notifications. We will use 20% and 120% of the stock levels of each product as minimum and maximum level thresholds, respectively. And stock level floor and ceiling are 0% and 150%, respectively.
3. Expiration dates are tracked and will give out notifications when the product is due in 3 months’ time.

**Employees Table Columns**

* EmployeeID
* EmployeeName
* Position
* Email
* Phone

**Products Table Columns**

* ProductID
* ProductName
* Category
* Unit
* Price
* State (Understocked or Overstocked)

**Stock Table (Junction) Columns**

* StockID
* EmployeeID
* ProductID
* StockDate
* ExpirationDate
* Quantity
* StockAction (Restock or Deplete)