

Inventory Management System for Electronics Store

Problem Statement

Create a trigger to manage the inventory of an electronics store. The trigger should automatically update the stock levels of the items based on sales transactions recorded in a separate table. The trigger should also log any changes to the inventory in an audit table.

Requirements:

Database Schema:

- **Table: Items**
 - ItemID (INT, Primary Key, Auto Increment)
 - ItemName (VARCHAR(255))
 - Category (VARCHAR(100))
 - Price (DECIMAL(10, 2))
 - Stock (INT)
 - LastUpdated (DATETIME)
- **Table: Sales**
 - SaleID (INT, Primary Key, Auto Increment)
 - ItemID (INT, Foreign Key)
 - QuantitySold (INT)
 - SaleDate (DATETIME)
- **Table: InventoryAudit**
 - AuditID (INT, Primary Key, Auto Increment)
 - ItemID (INT, Foreign Key)
 - OldStock (INT)
 - NewStock (INT)
 - ChangeDate (DATETIME)

Trigger: UpdateInventoryOnSale

- **Action:** After insert on Sales table
- **Functionality:**
 - Automatically update the Stock level in the Items table when a new sale is recorded.
 - Record the old stock level, new stock level, and the date of change in the Inventory Audit table.