Inventory Management System

Basic Inventory Management System made with SQL

[EN] This system could include creation of tables to store data about products, suppliers, locations and available stock, aswell as creation of some relationships between these tables to supervise stock's situation and it's fluctuations.

[RO] Acest sistem ar putea include crearea unor tabele pentru a stoca informaţii despre produse, furnizori, locaţii şi stocul disponibil, precum şi crearea unor relaţii între aceste tabele pentru a putea urmări starea inventarului şi mişcările acestuia.

```sql
-- [EN] Tables Creation
-- [RO] Creare tabele
CREATE TABLE Products (
    Product_ID INT PRIMARY KEY,
    Product_Name VARCHAR(255) NOT NULL,
    Unit_Price DECIMAL(10, 2),
    Supplier_ID INT,
    Location_ID INT
);

CREATE TABLE Suppliers (
    Supplier_ID INT PRIMARY KEY,
    Supplier_Name VARCHAR(255) NOT NULL,
    Contact_Name VARCHAR(255),
    Phone VARCHAR(20),
    Email VARCHAR(255)
);

CREATE TABLE Locations (
    Location_ID INT PRIMARY KEY,
    Location_Name VARCHAR(255) NOT NULL
);

CREATE TABLE Inventory (
    Product_ID INT,
    Location_ID INT,
    Quantity INT,
    PRIMARY KEY (Product_ID, Location_ID)
);

-- [EN] Filling tables with data
-- [RO] Populare tabele cu date
INSERT INTO Suppliers (Supplier_ID, Supplier_Name, Contact_Name, Phone, Email)
VALUES
(1, 'Supplier 1', 'Contact 1', '123-456-7890', 'supplier1@example.com'),
```

```sql
(2, 'Supplier 2', 'Contact 2', '123-456-7890', 'supplier2@example.com'),
(3, 'Supplier 3', 'Contact 3', '123-456-7890', 'supplier3@example.com');

INSERT INTO Locations (Location_ID, Location_Name)
VALUES
(1, 'Location 1'),
(2, 'Location 2'),
(3, 'Location 3');

INSERT INTO Products (Product_ID, Product_Name, Unit_Price, Supplier_ID, Location_ID)
VALUES
(1, 'Product 1', 9.99, 1, 1),
(2, 'Product 2', 19.99, 2, 2),
(3, 'Product 3', 29.99, 3, 3);

INSERT INTO Inventory (Product_ID, Location_ID, Quantity)
VALUES
(1, 1, 10),
(2, 2, 20),
(3, 3, 30);

-- [EN] Stock Updates operations
-- [EN] Updating product stock
-- [RO] Realizare operații de actualizare a stocului
-- [RO] Actualizare stoc produs
UPDATE Inventory SET Quantity = Quantity - 5 WHERE Product_ID = 1 AND Location_ID = 1;

-- [EN] Adding new product in stock
-- [RO] Adăugare produs nou în inventar
INSERT INTO Products (Product_ID, Product_Name, Unit_Price, Supplier_ID, Location_ID)
VALUES
(4, 'Product 4', 39.99, 1, 2);

INSERT INTO Inventory (Product_ID, Location_ID, Quantity)
VALUES
(4, 2, 15);
```