-- Создание базы данных

CREATE DATABASE IF NOT EXISTS ProductionMaterials

CHARACTER SET utf8mb4

COLLATE utf8mb4\_general\_ci;

USE ProductionMaterials;

-- Таблица: Материалы

CREATE TABLE Materials (

MaterialID INT AUTO\_INCREMENT PRIMARY KEY,

MaterialName VARCHAR(255) NOT NULL,

MaterialType VARCHAR(100),

PackageQuantity DECIMAL(10,2),

Unit VARCHAR(50),

Description TEXT,

ImageURL TEXT,

PricePerUnit DECIMAL(12,2),

StockQuantity DECIMAL(12,2) DEFAULT 0,

MinQuantity DECIMAL(12,2)

);

-- Таблица: Поставщики

CREATE TABLE Suppliers (

SupplierID INT AUTO\_INCREMENT PRIMARY KEY,

SupplierType VARCHAR(100),

CompanyName VARCHAR(255) NOT NULL,

INN VARCHAR(20)

);

-- Таблица: Поставки (связь материалы–поставщики)

CREATE TABLE MaterialSuppliers (

MaterialID INT NOT NULL,

SupplierID INT NOT NULL,

SupplyPrice DECIMAL(12,2),

LastSupplyDate DATE,

PRIMARY KEY (MaterialID, SupplierID),

FOREIGN KEY (MaterialID) REFERENCES Materials(MaterialID) ON DELETE CASCADE,

FOREIGN KEY (SupplierID) REFERENCES Suppliers(SupplierID) ON DELETE CASCADE

);

-- Таблица: История изменения остатков материалов

CREATE TABLE MaterialStockHistory (

HistoryID INT AUTO\_INCREMENT PRIMARY KEY,

MaterialID INT NOT NULL,

ChangeDate DATETIME DEFAULT CURRENT\_TIMESTAMP,

QuantityChange DECIMAL(12,2),

Reason TEXT,

FOREIGN KEY (MaterialID) REFERENCES Materials(MaterialID) ON DELETE CASCADE

);

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-- Materials

LOAD DATA LOCAL INFILE 'C:/import/materials.csv'

INTO TABLE Materials

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(MaterialName, MaterialType, PackageQuantity, Unit, Description, ImageURL, PricePerUnit, StockQuantity, MinQuantity);

-- Suppliers

LOAD DATA LOCAL INFILE 'C:/import/suppliers.csv'

INTO TABLE Suppliers

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(SupplierType, CompanyName, INN);

-- MaterialSuppliers

LOAD DATA LOCAL INFILE 'C:/import/material\_suppliers.csv'

INTO TABLE MaterialSuppliers

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(MaterialID, SupplierID, SupplyPrice, LastSupplyDate);

-- StockHistory

LOAD DATA LOCAL INFILE 'C:/import/stock\_history.csv'

INTO TABLE MaterialStockHistory

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 LINES

(MaterialID, ChangeDate, QuantityChange, Reason);