**Users Table**

CREATE TABLE Users (

user\_id INT PRIMARY KEY AUTO\_INCREMENT,

username VARCHAR(50) NOT NULL UNIQUE,

password\_hash VARCHAR(255) NOT NULL,

role ENUM('Admin', 'Manager', 'Staff') NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

…………………………………………………………………………………….

**Categories Table**

CREATE TABLE Categories (

category\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL UNIQUE,

description TEXT

);

………………………………………………………………………………………

**Products Table**

CREATE TABLE Products (

product\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

description TEXT,

price DECIMAL(10, 2) NOT NULL,

stock\_level INT DEFAULT 0,

reorder\_point INT DEFAULT 10,

category\_id INT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (category\_id) REFERENCES Categories(category\_id) ON DELETE SET NULL

);

……………………………………………………………………………………………….

**Stock Transactions Table**

CREATE TABLE Stock\_Transactions (

transaction\_id INT PRIMARY KEY AUTO\_INCREMENT,

product\_id INT NOT NULL,

quantity INT NOT NULL,

transaction\_type ENUM('IN', 'OUT') NOT NULL, -- 'IN' for restock, 'OUT' for sales/consumption

timestamp TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (product\_id) REFERENCES Products(product\_id) ON DELETE CASCADE

);

…………………………………………………………………………………………

**Suppliers Table**

CREATE TABLE Suppliers (

supplier\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

contact\_email VARCHAR(100) NOT NULL UNIQUE,

phone\_number VARCHAR(20),

address TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

………………………………………………………………………………………………

**Supplier Order History Table**

CREATE TABLE Supplier\_Order\_History (

order\_id INT PRIMARY KEY AUTO\_INCREMENT,

supplier\_id INT NOT NULL,

product\_id INT NOT NULL,

order\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

quantity INT NOT NULL,

status ENUM('Pending', 'Completed', 'Overdue') NOT NULL,

FOREIGN KEY (supplier\_id) REFERENCES Suppliers(supplier\_id) ON DELETE CASCADE,

FOREIGN KEY (product\_id) REFERENCES Products(product\_id) ON DELETE CASCADE

);

………………………………………………………………………………………………

**User Transactions Table((Tracking which users are associated with stock transactions)**

CREATE TABLE User\_Transactions (

user\_transaction\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT NOT NULL,

transaction\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id) ON DELETE CASCADE,

FOREIGN KEY (transaction\_id) REFERENCES Stock\_Transactions(transaction\_id) ON DELETE CASCADE

);

……………………………………………………………………………………..