**Inventory Management System Schema**

CREATE DATABASE inventory;

USE inventory;

**Category Table**

CREATE TABLE category (

c\_id INT NOT NULL AUTO\_INCREMENT,

category\_name VARCHAR(255) DEFAULT NULL,

);

**Customer Table**

CREATE TABLE customer (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(255) NOT NULL,

contact\_no VARCHAR(20),

address VARCHAR(255),

email VARCHAR(255),

credit INT DEFAULT 0,

debit INT DEFAULT 0,

balance INT GENERATED ALWAYS AS (debit - credit) STORED,

);

**Employees Table**

CREATE TABLE employees (

user\_id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(50) NOT NULL,

email VARCHAR(200) NOT NULL,

address VARCHAR(255) NOT NULL,

password VARCHAR(30) NOT NULL,

mobile VARCHAR(30) NOT NULL,

);

**Product Table**

CREATE TABLE product (

p\_id INT NOT NULL AUTO\_INCREMENT,

product\_name VARCHAR(255) NOT NULL,

quantity INT DEFAULT NULL,

price INT DEFAULT NULL CHECK (price > 0),

Description VARCHAR(255) DEFAULT NULL,

c\_id INT DEFAULT NULL,

FOREIGN KEY (c\_id) REFERENCES category (c\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

**Orders Table**

DROP TABLE IF EXISTS orders;

CREATE TABLE orders (

TotalCost INT DEFAULT NULL,

customer\_id INT DEFAULT NULL,

OrderID INT NOT NULL,

pay\_amount INT DEFAULT NULL,

FOREIGN KEY (customer\_id) REFERENCES customer (id) ON DELETE CASCADE ON UPDATE CASCADE

);

**OrderDetails Table**

CREATE TABLE orderdetails (

OrderID INT DEFAULT NULL,

ProductID INT DEFAULT NULL,

Quantity INT DEFAULT NULL,

UnitPrice INT DEFAULT NULL,

subtotal INT DEFAULT NULL,

FOREIGN KEY (ProductID) REFERENCES product (p\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (OrderID) REFERENCES orders (OrderID) ON DELETE CASCADE ON UPDATE CASCADE

);