CREATE SCHEMA IF NOT EXISTS invoice\_bill;

-- Use the schema

USE invoice\_bill;

-- Create Customer table

CREATE TABLE Customer (

Customer\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Customer\_Name VARCHAR(255) NOT NULL,

Email VARCHAR(255) NOT NULL

);

-- Create Product table

CREATE TABLE Product (

Product\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Product\_Name VARCHAR(255) NOT NULL,

Category VARCHAR(100),

BarCode VARCHAR(100),

Price DECIMAL(10, 2) NOT NULL

);

-- Create Customer\_Phone table

CREATE TABLE Customer\_Phone (

Phone\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Customer\_ID INT,

PhoneNumber VARCHAR(20),

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID)

ON DELETE CASCADE

);

-- Create Payment table

CREATE TABLE Payment (

Payment\_ID INT PRIMARY KEY,

Payment\_Method VARCHAR(50)

);

-- Create Invoice table with a reference to Payment

CREATE TABLE Invoice (

Invoice\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Customer\_ID INT,

Date DATE NOT NULL,

Total\_Amount DECIMAL(10, 2) NOT NULL,

Payment\_ID INT, -- Reference to Payment

FOREIGN KEY (Customer\_ID) REFERENCES Customer(Customer\_ID)

ON DELETE CASCADE,

FOREIGN KEY (Payment\_ID) REFERENCES Payment(Payment\_ID)

);

ALTER TABLE Invoice AUTO\_INCREMENT = 1;

-- Create Contain table

CREATE TABLE Contain (

Product\_ID INT,

Invoice\_ID INT,

Amount INT,

PRIMARY KEY (Product\_ID, Invoice\_ID),

FOREIGN KEY (Product\_ID) REFERENCES Product(Product\_ID),

FOREIGN KEY (Invoice\_ID) REFERENCES Invoice(Invoice\_ID)

);

-- Create Price\_List table

CREATE TABLE Price\_List (

Product\_ID INT NOT NULL, -- Khóa ngoại từ bảng Product

Date\_Effective DATE NOT NULL, -- Ngày giá có hiệu lực

Price DECIMAL(10, 2) NOT NULL, -- Giá sản phẩm

PRIMARY KEY (Product\_ID, Date\_Effective), -- Khóa chính kết hợp

FOREIGN KEY (Product\_ID) REFERENCES Product(Product\_ID) -- Ràng buộc khóa ngoại

);