```sql
-- Create database
CREATE DATABASE BillingDB;

-- Use the database
USE BillingDB;

-- Table to store customer information
CREATE TABLE Customers (
    CustomerID INT AUTO_INCREMENT PRIMARY KEY,
    CustomerName VARCHAR(255) NOT NULL,
    ContactEmail VARCHAR(100),
    PhoneNumber VARCHAR(20),
    Address TEXT
);

-- Table to store product information
CREATE TABLE Products (
    ProductID INT AUTO_INCREMENT PRIMARY KEY,
    ProductName VARCHAR(255) NOT NULL,
    Description TEXT,
    Price DECIMAL(10, 2) NOT NULL,
    StockQuantity INT NOT NULL
);

-- Table to store invoice information
CREATE TABLE Invoices (
    InvoiceID INT AUTO_INCREMENT PRIMARY KEY,
    CustomerID INT,
    InvoiceDate DATE NOT NULL,
    TotalAmount DECIMAL(10, 2) NOT NULL,
```

```sql
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);


-- Table to store invoice items
CREATE TABLE InvoiceItems (
    InvoiceItemID INT AUTO_INCREMENT PRIMARY KEY,
    InvoiceID INT,
    ProductID INT,
    Quantity INT NOT NULL,
    UnitPrice DECIMAL(10, 2) NOT NULL,
    FOREIGN KEY (InvoiceID) REFERENCES Invoices(InvoiceID),
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)
);


-- Example Inserts into Customers table
INSERT INTO Customers (CustomerName, ContactEmail, PhoneNumber, Address) VALUES
('Acme Corporation', 'info@acmecorp.com', '555-1234', '123 Main Street, Metropolis'),
('Beta LLC', 'contact@betallc.com', '555-5678', '456 Elm Street, Gotham');


-- Example Inserts into Products table
INSERT INTO Products (ProductName, Description, Price, StockQuantity) VALUES
('Widget A', 'High-quality widget', 29.99, 100),
('Gadget B', 'Advanced gadget', 89.99, 50),
('Accessory C', 'Useful accessory', 9.99, 200);


-- Example Inserts into Invoices table
INSERT INTO Invoices (CustomerID, InvoiceDate, TotalAmount) VALUES
(1, '2024-08-15', 139.97),   -- Acme Corporation
(2, '2024-08-16', 99.98);    -- Beta LLC
```

```sql
-- Example Inserts into InvoiceItems table
INSERT INTO InvoiceItems (InvoiceID, ProductID, Quantity, UnitPrice) VALUES
(1, 1, 3, 29.99),   -- 3 Widget A for Acme Corporation
(1, 3, 2, 9.99),    -- 2 Accessory C for Acme Corporation
(2, 2, 1, 89.99);   -- 1 Gadget B for Beta LLC
-- Insert invoice
INSERT INTO Invoices (CustomerID, InvoiceDate, TotalAmount)
VALUES (3, '2024-08-17', 149.98);

-- Insert invoice items
INSERT INTO InvoiceItems (InvoiceID, ProductID, Quantity, UnitPrice)
VALUES (3, 1, 2, 29.99),   -- 2 Widget A for Gamma Industries
    (3, 4, 1, 49.99);   -- 1 Tool D for Gamma Industries
SELECT * FROM Customers;
SELECT * FROM Products;
SELECT i.InvoiceID, c.CustomerName, i.InvoiceDate, i.TotalAmount
FROM Invoices i
JOIN Customers c ON i.CustomerID = c.CustomerID;
SELECT i.InvoiceID, p.ProductName, ii.Quantity, ii.UnitPrice
FROM InvoiceItems ii
JOIN Invoices i ON ii.InvoiceID = i.InvoiceID
JOIN Products p ON ii.ProductID = p.ProductID
WHERE i.InvoiceID = 1;  -- For invoice with ID 1
SELECT i.InvoiceID, i.InvoiceDate, p.ProductName, ii.Quantity, ii.UnitPrice
FROM Invoices i
JOIN InvoiceItems ii ON i.InvoiceID = ii.InvoiceID
JOIN Products p ON ii.ProductID = p.ProductID
WHERE i.CustomerID = 1;  -- For customer with ID 1
```