-- Create Vendors table

CREATE TABLE Vendors (

vendor\_name VARCHAR(255),

vendor\_id INT PRIMARY KEY,

vendor\_location VARCHAR(255),

num\_listings INT

);

-- Create Brand table

CREATE TABLE Brand (

brand\_id INT PRIMARY KEY,

brand\_name VARCHAR(255)

);

-- Create Category table

CREATE TABLE Category (

category\_id INT PRIMARY KEY,

category\_name VARCHAR(100)

);

-- Create Product table

CREATE TABLE Product (

product\_id INT PRIMARY KEY,

product\_name VARCHAR(100),

vendor\_id INT,

product\_price INT,

product\_description VARCHAR(1000),

product\_margin\_percent INT,

reduced\_product\_price INT,

product\_image VARCHAR(1000),

brand\_id INT,

category\_id INT,

units\_available INT,

FOREIGN KEY (brand\_id) REFERENCES Brand(brand\_id),

FOREIGN KEY (vendor\_id) REFERENCES Vendors(vendor\_id),

FOREIGN KEY (category\_id) REFERENCES Category(category\_id)

);

-- Populate Vendors table with real names

INSERT INTO Vendors (vendor\_id, vendor\_name, vendor\_location, num\_listings) VALUES

(1, 'Williams Sonoma', 'San Francisco, CA', 10),

(2, 'Bed Bath & Beyond', 'Union, NJ', 8),

(3, 'Sur La Table', 'Seattle, WA', 12),

(4, 'Crate & Barrel', 'Northbrook, IL', 15),

(5, 'Macy\'s', 'New York, NY', 7),

(6, 'Bloomingdale\'s', 'New York, NY', 9),

(7, 'Kohl\'s', 'Menomonee Falls, WI', 11),

(8, 'Target', 'Minneapolis, MN', 6),

(9, 'Walmart', 'Bentonville, AR', 14),

(10, 'Amazon', 'Seattle, WA', 5);

-- Populate Brand table with real names

INSERT INTO Brand (brand\_id, brand\_name) VALUES

(1, 'Cuisinart'),

(2, 'KitchenAid'),

(3, 'OXO'),

(4, 'Breville'),

(5, 'Ninja');

-- Populate Category table

INSERT INTO Category (category\_id, category\_name) VALUES

(1, 'Kitchen Items');

-- Populate Product table with 20 products in Kitchen Items category, each with multiple vendors

INSERT INTO Product (product\_id, product\_name, vendor\_id, product\_price, product\_description, product\_margin\_percent, reduced\_product\_price, product\_image, brand\_id, category\_id, units\_available) VALUES

(1, 'Chef Knife', 1, 50, 'High quality stainless steel knife with wooden handle', 20, 40, '/static/images/chef\_knifeimage1.jpg', 1, 1, 100 ),

(2, 'Chef Knife', 2, 52, 'High quality chef knife.', 18, 42, '/static/images/chef\_knifeimage2.jpg', 2, 1, 100),

(3, 'Chef Knife', 3, 48, 'High quality chef knife.', 22, 38, '/static/images/chef\_knifeimage3.jpg', 1, 1, 100),

(4, 'Cutting Board', 4, 25, 'Durable cutting board.', 15, 20, '/static/images/cutting\_board\_image1.jpg', 2, 1, 150),

(5, 'Cutting Board', 5, 27, 'Durable cutting board.', 12, 23, '/static/images/cutting\_board\_image2.jpg', 2, 1, 150),

(6, 'Cutting Board', 6, 24, 'Durable cutting board.', 18, 19, '/static/images/cutting\_board\_image3.jpg', 2, 1, 150),

(7, 'Saucepan', 7, 40, 'Non-stick saucepan.', 25, 30, '/static/images/saucepan\_image1.jpg', 3, 1, 80),

(8, 'Saucepan', 8, 42, 'Non-stick saucepan.', 23, 32, '/static/images/saucepan\_image2.jpg', 3, 1, 80),

(9, 'Saucepan', 9, 38, 'Non-stick saucepan.', 28, 28, '/static/images/saucepan\_image3.jpg', 3, 1, 80),

(10, 'Blender', 10, 70, 'High power blender.', 30, 50, '/static/images/blender\_image1.jpg', 4, 1, 60),

(11, 'Blender', 1, 68, 'High power blender.', 32, 48, '/static/images/blender\_image2.jpg', 4, 1, 60),

(12, 'Blender', 2, 72, 'High power blender.', 28, 52, '/static/images/blender\_image3.jpg', 4, 1, 60),

(13, 'Toaster', 3, 30, '4-slice toaster.', 10, 25, '/static/images/toaster\_image1.jpg', 5, 1, 120),

(14, 'Toaster', 4, 32, '4-slice toaster.', 8, 27, '/static/images/toaster\_image2.jpg', 5, 1, 120),

(15, 'Toaster', 5, 28, '4-slice toaster.', 12, 24, '/static/images/toaster\_image3.jpg', 5, 1, 120),

(19, 'Coffee Maker', 9, 60, 'Programmable coffee maker.', 15, 50, '/static/images/coffee\_maker\_image1.jpg', 2, 1, 90),

(20, 'Coffee Maker', 10, 58, 'Programmable coffee maker.', 17, 48, '/static/images/coffee\_maker\_image2.jpg', 2, 1, 90),

(21, 'Coffee Maker', 10, 58, 'Programmable coffee maker.', 17, 48, '/static/images/coffee\_maker\_image3.jpg', 2, 1, 90);

CREATE TABLE CustomerPreferences (

preference\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

category\_id INT,

brand\_id INT,

FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id),

FOREIGN KEY (category\_id) REFERENCES Category(category\_id),

FOREIGN KEY (brand\_id) REFERENCES Brand(brand\_id)

);

CREATE TABLE CustomerInteractions (

interaction\_id INT AUTO\_INCREMENT PRIMARY KEY,

customer\_id INT,

product\_id INT,

interaction\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

interaction\_type ENUM('view', 'purchase', 'cart\_add', 'wishlist\_add'),

FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id),

FOREIGN KEY (product\_id) REFERENCES Product(product\_id)

);

CREATE TABLE Customer (

first\_name VARCHAR(100),

last\_name VARCHAR(100),

customer\_id INT PRIMARY KEY AUTO\_INCREMENT,

num\_products\_bought INT,

customer\_email VARCHAR(100),

customer\_location VARCHAR(100)

);