Ecommerce Store Queries Applied in Project

This file contains SQL queries for data insertion, retrieval, updates, and deletions

Insertion Queries

These queries add new records to the database tables.

-- Insert a New Product Category

INSERT INTO product\_category (category\_name) VALUES ('Electronics');

INSERT INTO product\_category (category\_name) VALUES ('Food');

INSERT INTO product\_category (category\_name) VALUES ('Books');

-- Insert a New Product

INSERT INTO product (name, description, image, category\_id) VALUES ('Smartphone', 'Latest model smartphone', 'https://via.placeholder.com/150', 1);

INSERT INTO product (name, description, image, category\_id) VALUES ('Pizza', 'Delicious pizza pie', 'uploads/pizza.jpg', 2);

INSERT INTO product (name, description, image, category\_id) VALUES ('Bestseller Novel', 'A thrilling novel', 'https://via.placeholder.com/150', 3);

-- Insert a New Product Item

INSERT INTO product\_item (product\_id, SKU, qty\_in\_stock, price) VALUES (1, 'SM001', 100, 699.99);

INSERT INTO product\_item (product\_id, SKU, qty\_in\_stock, price) VALUES (2, 'PZ001', 50, 15.99);

INSERT INTO product\_item (product\_id, SKU, qty\_in\_stock, price) VALUES (3, 'BK001', 200, 14.99);

-- Insert a New User

INSERT INTO site\_user (email\_address, password, phone\_number) VALUES ('user@example.com', 'hashedpassword123', '1234567890');

INSERT INTO site\_user (email\_address, password, phone\_number) VALUES ('admin@example.com', 'hashedadmin456', '0987654321');

-- Insert a New Shopping Cart

INSERT INTO shopping\_cart (user\_id) VALUES (1);

INSERT INTO shopping\_cart (user\_id) VALUES (2);

-- Insert a New Shopping Cart Item

INSERT INTO shopping\_cart\_item (cart\_id, product\_item\_id, qty) VALUES (1, 1, 2);

INSERT INTO shopping\_cart\_item (cart\_id, product\_item\_id, qty) VALUES (1, 2, 1);

-- Insert a New Shipping Method

INSERT INTO shipping\_method (name, price) VALUES ('Standard Shipping', 5.99);

INSERT INTO shipping\_method (name, price) VALUES ('Express Shipping', 15.99);

-- Insert a New Order Status

INSERT INTO order\_status (status) VALUES ('Pending');

INSERT INTO order\_status (status) VALUES ('Shipped');

INSERT INTO order\_status (status) VALUES ('Delivered');

-- Insert a New Shop Order

INSERT INTO shop\_order (order\_date, order\_total, shipping\_address, shipping\_method\_id, order\_status\_id)

VALUES ('2025-05-27 23:54:00', 715.98, '123 Main St, City', 1, 1);

-- Insert a New Order Line

INSERT INTO order\_line (order\_id, product\_item\_id, qty, price) VALUES (1, 1, 1, 699.99);

INSERT INTO order\_line (order\_id, product\_item\_id, qty, price) VALUES (1, 2, 1, 15.99);

Retrieval Queries

These queries fetch data from the database tables.

-- Retrieve All Products with Items

SELECT p.id, p.name, p.description, p.image, pi.id AS item\_id, pi.price, pi.SKU, pi.qty\_in\_stock

FROM product p

LEFT JOIN product\_item pi ON p.id = pi.product\_id;

-- Retrieve Categories for Navigation

SELECT DISTINCT pc.category\_name

FROM product\_category pc

JOIN product p ON pc.id = p.category\_id

LIMIT 8;

-- Retrieve User by Email

SELECT id, email\_address, password, phone\_number

FROM site\_user

WHERE email\_address = 'user@example.com';

-- Retrieve Cart Items for a User

SELECT sci.id, sci.qty, pi.price, p.name, p.image

FROM shopping\_cart sc

JOIN shopping\_cart\_item sci ON sc.id = sci.cart\_id

JOIN product\_item pi ON sci.product\_item\_id = pi.id

JOIN product p ON pi.product\_id = p.id

WHERE sc.user\_id = 1;

-- Retrieve Order Details

SELECT so.id, so.order\_date, so.order\_total, so.shipping\_address, sm.name AS shipping\_method, os.status

FROM shop\_order so

JOIN shipping\_method sm ON so.shipping\_method\_id = sm.id

JOIN order\_status os ON so.order\_status\_id = os.id

WHERE so.id = 1;

-- Retrieve Order Lines for an Order

SELECT ol.id, ol.qty, ol.price, p.name, p.image

FROM order\_line ol

JOIN product\_item pi ON ol.product\_item\_id = pi.id

JOIN product p ON pi.product\_id = p.id

WHERE ol.order\_id = 1;

Update Queries

These queries modify existing records in the database tables.

-- Update Product Details

UPDATE product

SET name = 'Smartphone Pro', description = 'Upgraded smartphone model', image = 'https://via.placeholder.com/200', category\_id = 1

WHERE id = 1;

-- Update Product Item Stock and Price

UPDATE product\_item

SET qty\_in\_stock = 90, price = 749.99

WHERE id = 1;

-- Update User Details

UPDATE site\_user

SET email\_address = 'newuser@example.com', password = 'newhashedpassword789', phone\_number = '9876543210'

WHERE id = 1;

-- Update Cart Item Quantity

UPDATE shopping\_cart\_item

SET qty = 3

WHERE id = 1;

-- Update Order Status

UPDATE shop\_order

SET order\_status\_id = 2

WHERE id = 1;

Deletion Queries

These queries remove records from the database tables.

-- Delete a Product Category

DELETE FROM product\_category WHERE id = 3;

-- Delete a Product

DELETE FROM product WHERE id = 3;

-- Delete a Product Item

DELETE FROM product\_item WHERE id = 3;

-- Delete a Cart Item

DELETE FROM shopping\_cart\_item WHERE id = 2;

-- Delete a Shopping Cart

DELETE FROM shopping\_cart WHERE id = 2;

-- Delete an Order

DELETE FROM shop\_order WHERE id = 1;

-- Delete a User

DELETE FROM site\_user WHERE id = 2;