

```
CREATE TABLE images (  
    image_id TEXT PRIMARY KEY,  
    url TEXT,  
    product_id TEXT REFERENCES products(product_id) ON DELETE CASCADE  
);
```

```
CREATE TABLE products (  
    product_id TEXT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    category VARCHAR(50) NOT NULL,  
    description TEXT,  
    price INTEGER NOT NULL CHECK (price >= 0),  
    shipping_cost INTEGER NOT NULL CHECK (shipping_cost >= 0),  
    brand VARCHAR(25) NOT NULL,  
    stock_status BOOLEAN NOT NULL DEFAULT FALSE,  
    shipping_time INTEGER NOT NULL CHECK (shipping_time > 0),  
    active BOOLEAN NOT NULL DEFAULT FALSE  
);  
CREATE UNIQUE INDEX idx_product_name ON products (name);
```

```
CREATE TABLE orders_products (  
    order_id TEXT NOT NULL REFERENCES orders(order_id) ON DELETE CASCADE,  
    product_id TEXT REFERENCES products(product_id) ON DELETE SET NULL,  
    PRIMARY KEY (order_id, product_id)  
);
```

```
CREATE TABLE orders (  
    order_id TEXT PRIMARY KEY,  
    user_id TEXT REFERENCES users(user_id) ON DELETE SET NULL,  
    order_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    total_amount INTEGER NOT NULL CHECK (total_amount >= 0),  
    delivery_fullname VARCHAR(50),  
    delivery_address TEXT,  
    delivery_postcode VARCHAR(10),  
    payment_method VARCHAR(20) NOT NULL,  
    order_status VARCHAR(20) NOT NULL,  
    delivery_status VARCHAR(20) NULL  
);
```

```
CREATE TABLE messages (  
    message_id TEXT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    email VARCHAR(100) NOT NULL,  
    subject VARCHAR(100) NULL,  
    message TEXT NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

```
CREATE TABLE reviews (  
    review_id TEXT PRIMARY KEY,  
    product_id TEXT NOT NULL REFERENCES products(product_id) ON DELETE CASCADE,  
    user_id TEXT REFERENCES users(user_id) ON DELETE SET NULL,  
    rating INTEGER NOT NULL,  
    comment TEXT,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

```
CREATE TABLE users (  
    user_id TEXT PRIMARY KEY,  
    email VARCHAR(100) NOT NULL UNIQUE,  
    password VARCHAR(100) NOT NULL,  
    phone VARCHAR(20),  
    address TEXT,  
    postcode VARCHAR(10),  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    role VARCHAR(20) NOT NULL,  
    active BOOLEAN NOT NULL DEFAULT TRUE,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```