Milestone 3: SQL Implementation – E-Commerce Platform

# 1. Tables and Metadata

## Table: Customer

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| customer\_id | INT PRIMARY KEY |
| first\_name | VARCHAR(100) |
| last\_name | VARCHAR(100) |
| email | VARCHAR(100) |
| password | VARCHAR(100) |
| address | VARCHAR(100) |
| phone\_number | VARCHAR(100) |

## Table: Product

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| product\_id | INT PRIMARY KEY |
| SKU | VARCHAR(100) |
| description | VARCHAR(100) |
| price | DECIMAL(10,2) |
| stock | INT |
| category\_id | INT |

## Table: Category

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| category\_id | INT PRIMARY KEY |
| name | VARCHAR(100) |

## Table: Order

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| order\_id | INT PRIMARY KEY |
| customer\_id | INT |
| order\_date | DATETIME |
| total\_price | DECIMAL(10,2) |
| shipment\_id | INT |

## Table: Order\_Item

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| order\_item\_id | INT PRIMARY KEY |
| order\_id | INT |
| product\_id | INT |
| quantity | INT |
| price | DECIMAL(10,2) |

## Table: Cart

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| cart\_id | INT PRIMARY KEY |
| customer\_id | INT |
| product\_id | INT |
| quantity | INT |

## Table: Wishlist

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| wishlist\_id | INT PRIMARY KEY |
| customer\_id | INT |
| product\_id | INT |

## Table: Payment

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| payment\_id | INT PRIMARY KEY |
| customer\_id | INT |
| payment\_method | VARCHAR(100) |
| payment\_date | DATETIME |
| amount | DECIMAL(10,2) |

## Table: Shipment

|  |  |
| --- | --- |
| Column Name | Data Type / Constraint |
| shipment\_id | INT PRIMARY KEY |
| shipment\_date | DATETIME |
| address | VARCHAR(100) |
| city | VARCHAR(100) |
| state | VARCHAR(20) |
| country | VARCHAR(50) |
| zip\_code | VARCHAR(10) |

# 2. Sample SQL Queries

SELECT \* FROM Customer;

SELECT \* FROM Product WHERE stock > 0;

SELECT Order.order\_id, Customer.first\_name FROM Order JOIN Customer ON Order.customer\_id = Customer.customer\_id;

SELECT COUNT(\*) FROM Order\_Item WHERE quantity >= 2;

INSERT INTO Category (category\_id, name) VALUES (1, 'Spices');

