

## E-Commerce Database Design

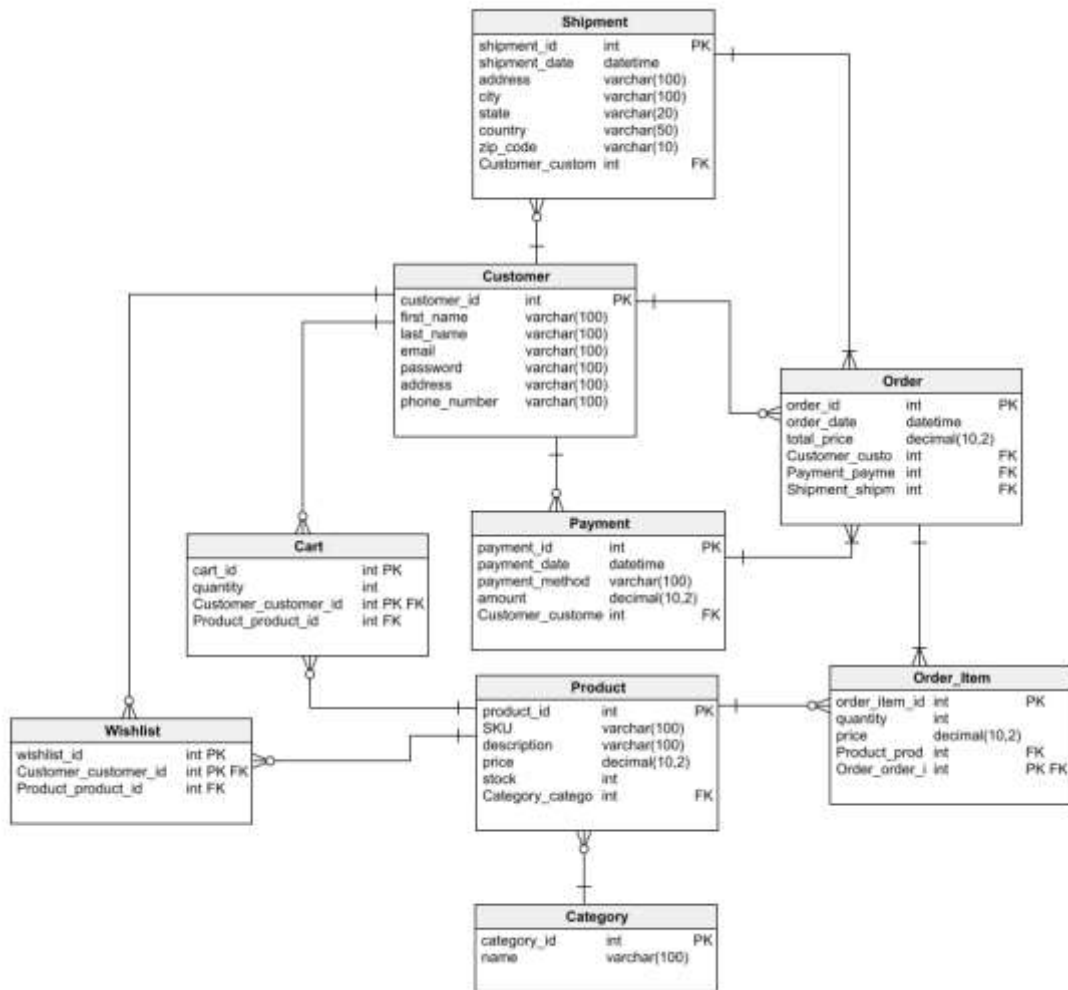
The database must handle **products, users, orders, payments, shipping, and reviews** efficiently.

### 1- Entity-Relationship (ERD) Mapping

Below is the **ER model** showing entities and their relationships:

#### Entities & Relationships

1. **User** (Customers & Admins)
  - A user can place multiple orders.
  - A user can write multiple reviews.
2. **Product**
  - A product belongs to one category.
  - A product can have multiple reviews.
  - A product can be in multiple orders.
3. **Category**
  - A category can have multiple products.
4. **Order**
  - An order belongs to a user.
  - An order has multiple order items.
5. **OrderItem** (Line Items)
  - An order contains multiple products.
6. **Payment**
  - An order can have one payment.
7. **Shipping**
  - An order can have one shipping record.
8. **Review**
  - A user writes reviews on a product.



# ERD Diagram

