# Online Shopping Application

## 1. Database Design

Based on the project requirements, the following tables are proposed:

### Users

* - UserID (Primary Key)
* - Name
* - Email (Unique)
* - Password
* - Address
* - Phone
* - Role (User/Admin)

### Products

* - ProductID (Primary Key)
* - Name
* - Description
* - Price
* - Stock
* - CategoryID (Foreign Key)
* - ImageURL

### Categories

* - CategoryID (Primary Key)
* - CategoryName

### Orders

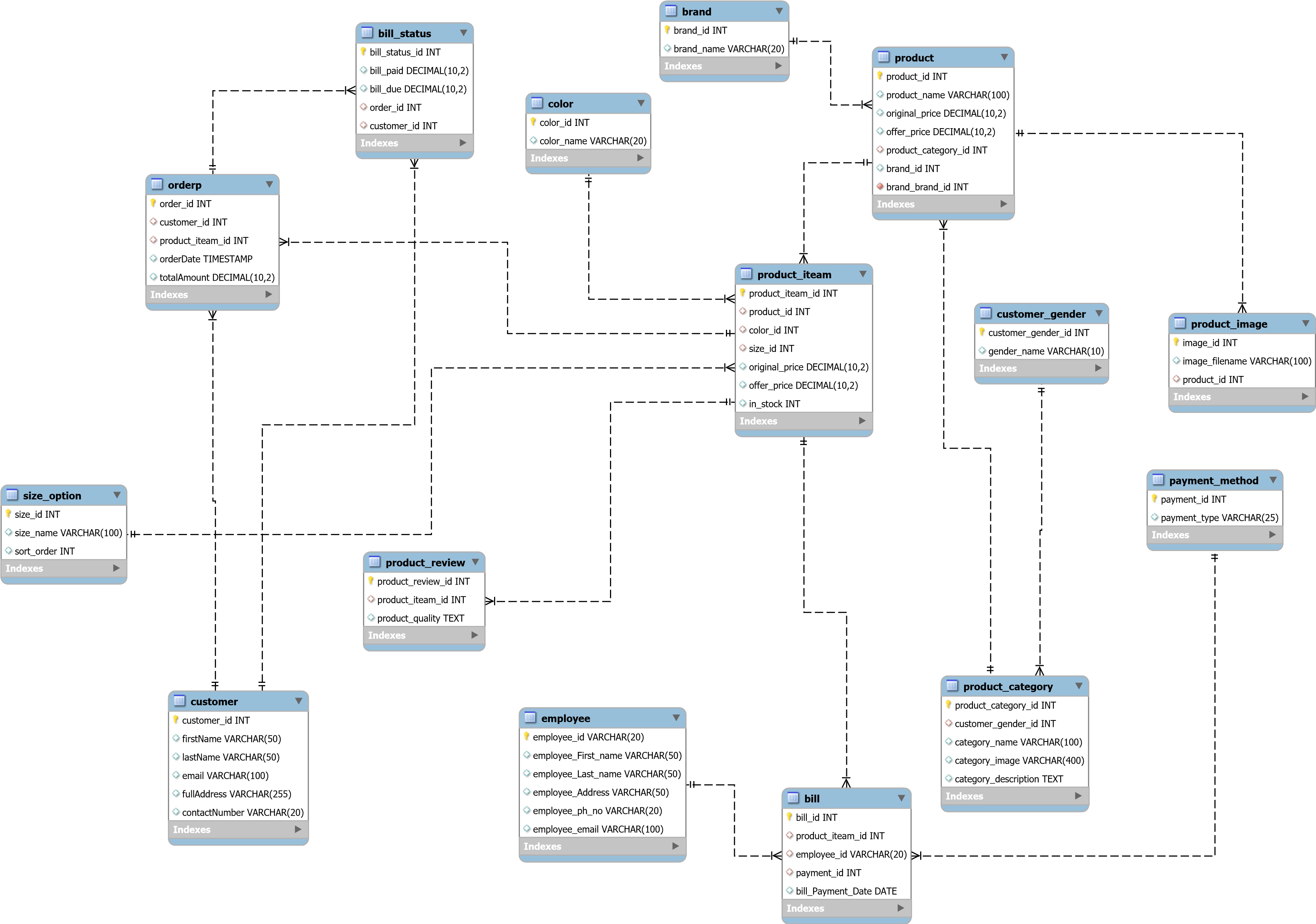
* - OrderID (Primary Key)
* - UserID (Foreign Key)
* - OrderDate
* - TotalAmount
* - Status (Pending/Shipped/Delivered)

### OrderDetails

* - OrderDetailID (Primary Key)
* - OrderID (Foreign Key)
* - ProductID (Foreign Key)
* - Quantity
* - Subtotal

### Cart

* - CartID (Primary Key)
* - UserID (Foreign Key)
* - ProductID (Foreign Key)
* - Quantity

**2. ER Diagram:** The ER diagram visually represents the relationships between the entities. The main entities include Users, Products, Categories, Orders, OrderDetails, Cart etc. Attributes and primary keys are defined for each’

3. Normalization