

Database Schema (MySQL)

Tables:

1. **Users** – Store user and admin details.
2. **Products** – Store toy details.
3. **Categories** – Organize products.
4. **Orders** – Store order details.
5. **Order_Items** – Store items in an order.
6. **Cart** – Store user cart data.
7. **Wishlist** – Store wishlist items.
8. **Reviews** – Store user reviews and ratings.
9. **Payments** – Store payment details.
10. **Admin** – Store admin credentials.

Database Structure

1. Users Table

```
CREATE TABLE Users (  
    user_id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(255) NOT NULL,  
    email VARCHAR(255) UNIQUE NOT NULL,  
    password VARCHAR(255) NOT NULL,  
    phone VARCHAR(20),  
    address TEXT,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

2. Admin Table

```
CREATE TABLE Admin (  
    admin_id INT PRIMARY KEY AUTO_INCREMENT,  
    username VARCHAR(255) UNIQUE NOT NULL,  
    email VARCHAR(255) UNIQUE NOT NULL,  
    password VARCHAR(255) NOT NULL  
);
```

3. Categories Table

```
CREATE TABLE Categories (  
    category_id INT PRIMARY KEY AUTO_INCREMENT,  
    category_name VARCHAR(255) NOT NULL  
);
```

4. Products Table

```
CREATE TABLE Products (  
    product_id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(255) NOT NULL,  
    description TEXT,  
    price DECIMAL(10,2) NOT NULL,  
    stock INT NOT NULL,  
    category_id INT,  
    image_url VARCHAR(255),  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (category_id) REFERENCES Categories(category_id) ON DELETE SET NULL  
);
```

5. Cart Table

```
CREATE TABLE Cart (  
    cart_id INT PRIMARY KEY AUTO_INCREMENT,  
    user_id INT,  
    product_id INT,  
    quantity INT NOT NULL DEFAULT 1,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE,  
    FOREIGN KEY (product_id) REFERENCES Products(product_id) ON DELETE CASCADE  
);
```

6. Wishlist Table

```
CREATE TABLE Wishlist (  

```

```
wishlist_id INT PRIMARY KEY AUTO_INCREMENT,  
user_id INT,  
product_id INT,  
FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE,  
FOREIGN KEY (product_id) REFERENCES Products(product_id) ON DELETE CASCADE  
);
```

7. Orders Table

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```
CREATE TABLE Orders (  
    order_id INT PRIMARY KEY AUTO_INCREMENT,  
    user_id INT,  
    total_amount DECIMAL(10,2) NOT NULL,  
    status ENUM('Pending', 'Processing', 'Shipped', 'Delivered', 'Cancelled') DEFAULT 'Pending',  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE  
);
```

8. Order_Items Table

```
CREATE TABLE Order_Items (  
    order_item_id INT PRIMARY KEY AUTO_INCREMENT,  
    order_id INT,  
    product_id INT,  
    quantity INT NOT NULL,  
    price DECIMAL(10,2) NOT NULL,  
    FOREIGN KEY (order_id) REFERENCES Orders(order_id) ON DELETE CASCADE,  
    FOREIGN KEY (product_id) REFERENCES Products(product_id) ON DELETE CASCADE  
);
```

9. Payments Table

```
CREATE TABLE Payments (  
    payment_id INT PRIMARY KEY AUTO_INCREMENT,  
    order_id INT,  
    amount DECIMAL(10,2) NOT NULL,  
    payment_method VARCHAR(50) NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (order_id) REFERENCES Orders(order_id) ON DELETE CASCADE  
);
```

```
payment_id INT PRIMARY KEY AUTO_INCREMENT,  
order_id INT,  
user_id INT,  
payment_method ENUM('Credit Card', 'PayPal', 'Bank Transfer', 'Cash on Delivery'),  
payment_status ENUM('Pending', 'Completed', 'Failed') DEFAULT 'Pending',  
transaction_id VARCHAR(255) UNIQUE,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (order_id) REFERENCES Orders(order_id) ON DELETE CASCADE,  
FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE  
);
```

10. Reviews Table

```
CREATE TABLE Reviews (  
    review_id INT PRIMARY KEY AUTO_INCREMENT,  
    user_id INT,  
    product_id INT,  
    rating INT CHECK (rating BETWEEN 1 AND 5),  
    review TEXT,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES Users(user_id) ON DELETE CASCADE,  
    FOREIGN KEY (product_id) REFERENCES Products(product_id) ON DELETE CASCADE  
);
```