Marketplace Schema

User Table

- **ID :** Unique identifier for each user
- **Name :** User's name
- **Email :** User's email address
- **Password :** User's password
- **Phone Number :** User's contact number
- **Address :** User's address

Products Table

- **ID :** Unique identifier for each product
- **Name :** Product name
- **Description :** Product description
- **Price :** Product price
- **Stock :** Number of items available
- **Image URL :** URL of the product image
- **Category ID :** Identifier for the product's category

Categories Table

- **ID :** Unique identifier for each category
- **Name :** Category name

Orders Table

- **ID :** Unique identifier for each order
- **User ID :** Identifier for the user who placed the order
- **Order Date :** Date when the order was placed
- **Total Price :** Total price of the order
- **Status :** Status of the order (e.g., pending, shipped, delivered)

Order Items Table

- **ID:** Unique identifier for each order item
- **Order ID :** Identifier for the associated order
- **Product ID :** Identifier for the purchased product
- **Quantity :** Number of items purchased
- **Price :** Price of the purchased item

Relationships

- **Users can place Orders**
- **Orders can have multiple Order Items**
- **Order Items are linked to Products**
- **Products belong to Categories**

Schema Diagram

```
+---------------+                +-------------+
|   Users       |                |  Categories |
+---------------+                +-------------+
| ID            |1          1 | ID      |
| Name          |<--------->| Name    |
| Email         |             +-------------+
| Password      |
| Phone Number  |
| Address       |
+---------------+
      |
      1
      |
      |
+---------------+        +-------------+
|  Orders    |1      M|  Products  |
+---------------+        +-------------+
| ID         |<--------->| ID        |
| User ID    |           | Name      |
| Order Date |           | Description |
| Total Price|           | Price     |
| Status     |           | Stock     |
+---------------+         | Image URL |
      |                   | Category ID |
      |                   +-------------+
      1
      |
      |
+---------------+
| Order Items   |
+---------------+
| ID           |
| Order ID     |
| Product ID   |
| Quantity     |
| Price        |
+---------------+
```