

Online Shopping Database

Here's a basic **MySQL** schema for an online shopping database. This example includes tables for **users**, **products**, **orders**, **order details**, **categories**, and **payments**. Feel free to expand or modify based on additional requirements.

Tables and Schema diagram

Users (user_id, username, email, password, phone, address, created_at)

Categories (category_id, category_name, description)

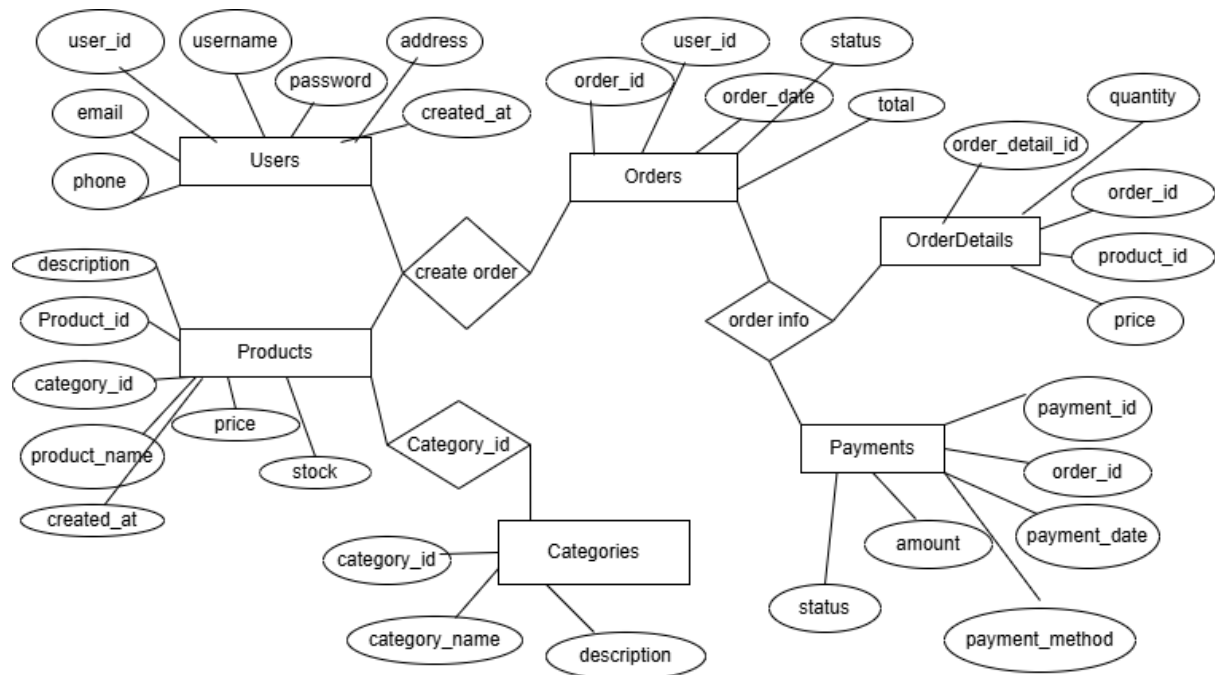
Products (product_id, category_id, product_name, description, price, stock, created_at,)

Orders (order_id, user_id, order_date, status, total)

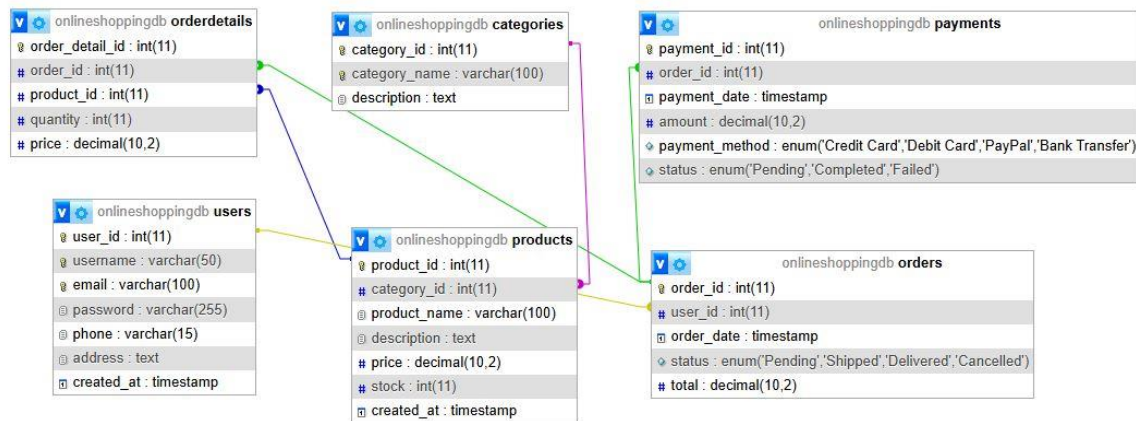
Order_details (order_detail_id, order_id, product_id, quantity, price)

Payments (payment_id, order_id, payment_date, amount, payment_method, status)

ER Diagram:



ERD design with all steps



SQL CODE:

1. Create Database:

```
CREATE DATABASE OnlineShoppingDB;
```

2. Users Table:

```
CREATE TABLE Users (
```

```
    user_id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    username VARCHAR(50) NOT NULL UNIQUE,
```

```
    email VARCHAR(100) NOT NULL UNIQUE,
```

```
    password VARCHAR(255) NOT NULL,
```

```
    phone VARCHAR(15),
```

```
    address TEXT,
```

```
    created_at TIMESTAMP DEFAULT  
CURRENT_TIMESTAMP
```

```
);
```

3. Categories Table:

```
CREATE TABLE Categories (
```

```
    category_id INT AUTO_INCREMENT PRIMARY KEY,
```

```
    category_name VARCHAR(100) NOT NULL UNIQUE,
```

description TEXT
);

4. Products Table:

```
CREATE TABLE Products (  
    product_id INT AUTO_INCREMENT PRIMARY KEY,  
    category_id INT,  
    product_name VARCHAR(100) NOT NULL,  
    description TEXT,  
    price DECIMAL(10, 2) NOT NULL,  
    stock INT NOT NULL,  
    created_at TIMESTAMP DEFAULT  
CURRENT_TIMESTAMP,  
    FOREIGN KEY (category_id) REFERENCES  
Categories(category_id) ON DELETE SET NULL  
);
```

5. Orders Table:

```
CREATE TABLE Orders (  
    order_id INT AUTO_INCREMENT PRIMARY KEY,  
    user_id INT,  
    order_date TIMESTAMP DEFAULT  
CURRENT_TIMESTAMP,  
    status ENUM('Pending', 'Shipped', 'Delivered', 'Cancelled')  
DEFAULT 'Pending', total DECIMAL(10, 2),  
    FOREIGN KEY (user_id) REFERENCES Users(user_id) ON  
DELETE CASCADE  
);
```

6. Order Details Table:

```
CREATE TABLE OrderDetails (  
    order_detail_id INT AUTO_INCREMENT PRIMARY KEY,  
    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  
);
```

7. Payments Table:

```
CREATE TABLE Payments (  
    payment_id INT AUTO_INCREMENT PRIMARY KEY,  
    order_id INT,  
    payment_date TIMESTAMP DEFAULT  
CURRENT_TIMESTAMP,  
    amount DECIMAL(10, 2) NOT NULL,  
    payment_method ENUM('Credit Card', 'Debit Card', 'PayPal',  
'Bank Transfer') DEFAULT 'Credit Card',  
    status ENUM('Pending', 'Completed', 'Failed') DEFAULT  
'Completed',  
    FOREIGN KEY (order_id) REFERENCES Orders(order_id)  
ON DELETE CASCADE  
);
```

-----END-----