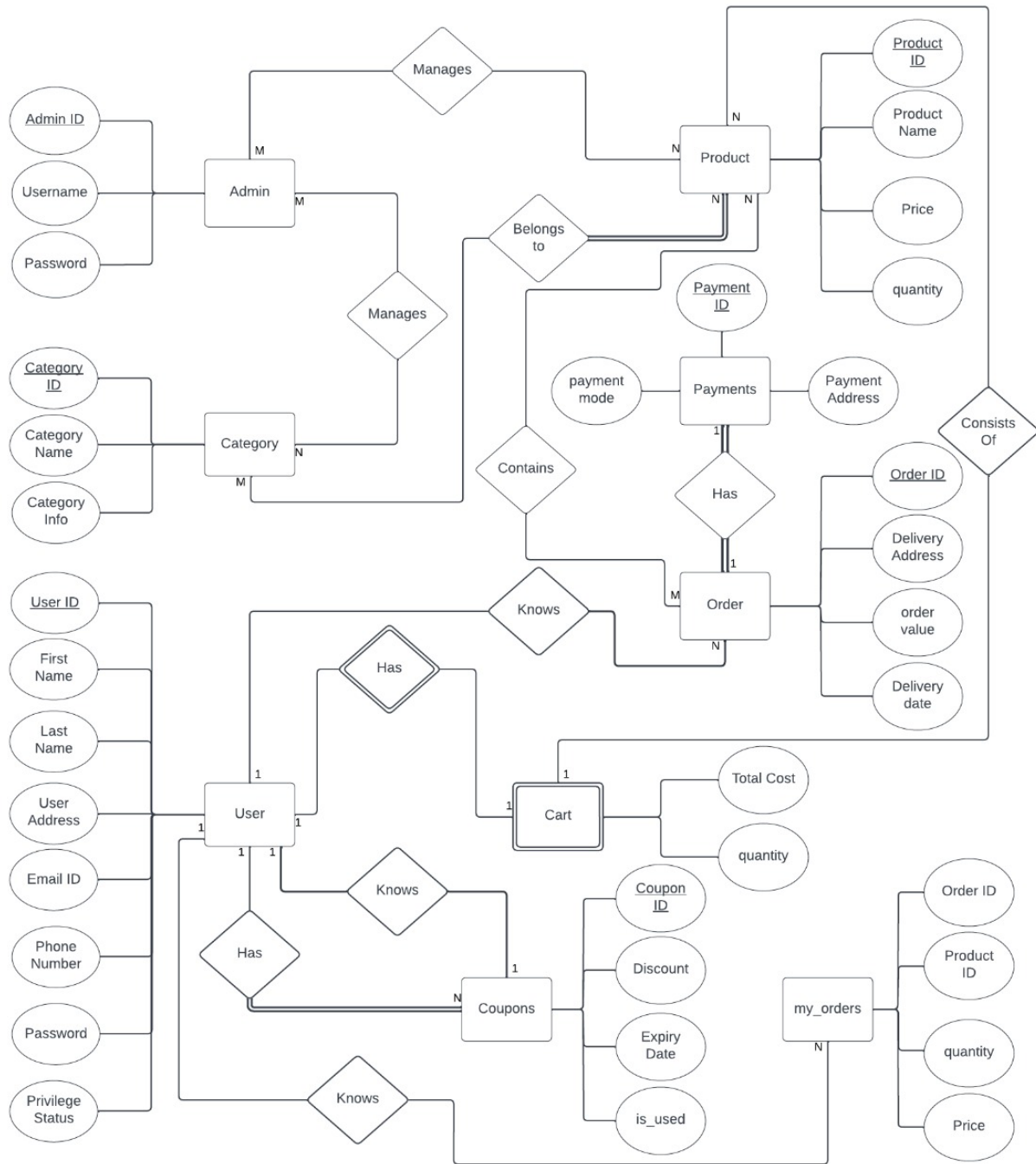
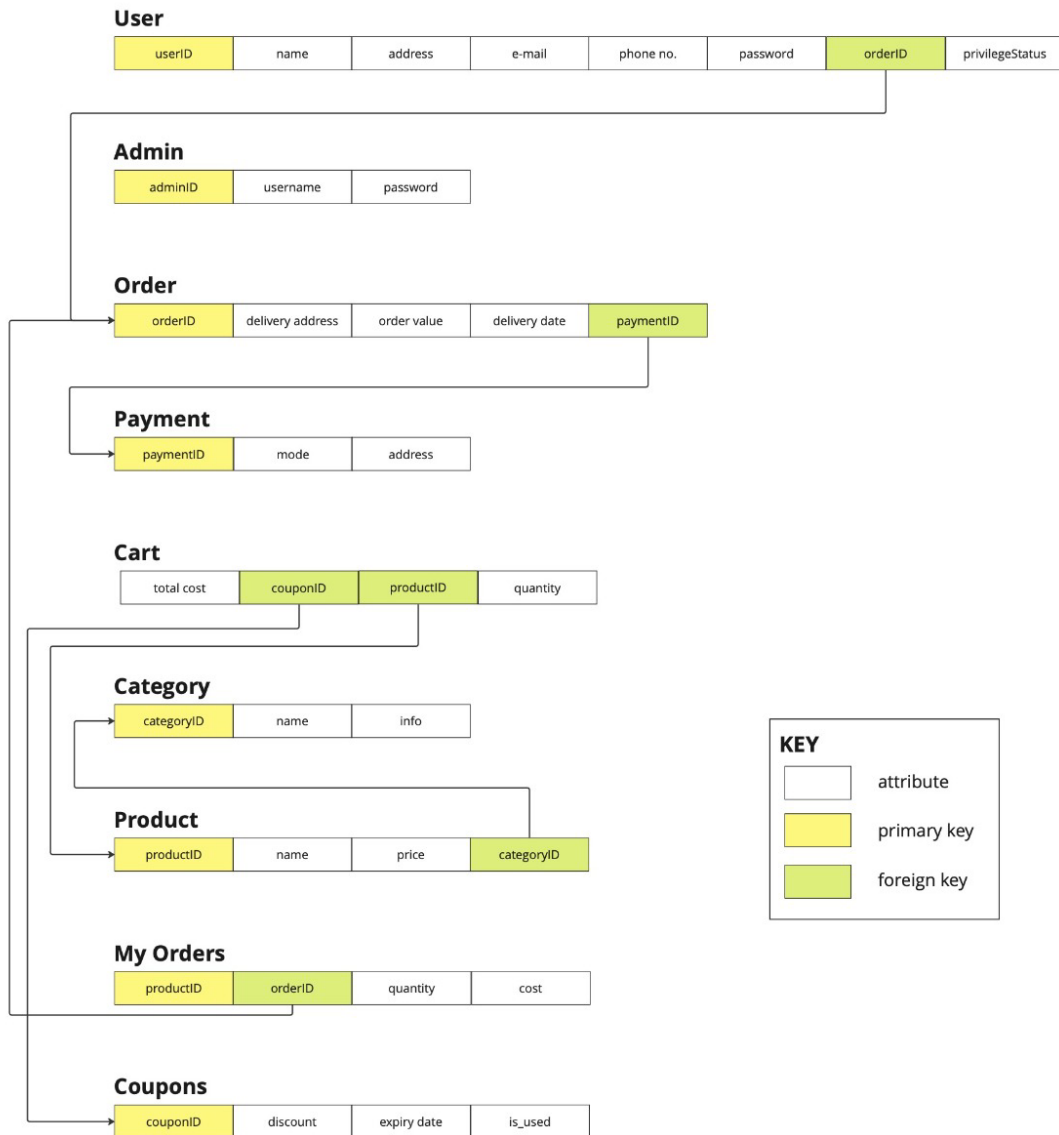


ER Diagram



Relational Model



miro

Schema

1. admin

admin(adminID, username, pass)

| | |
|----------|--------------------------------------------------|
| adminID | INT PRIMARY KEY NOT NULL AUTO_INCREMENT |
| username | VARCHAR(10) NOT NULL |
| pass | VARCHAR(20) NOT NULL |

2. Cart

Cart(userID, total_cost, productID, quantity)

| | |
|------------|-----------------------------------------------------------|
| userID | INT NOT NULL FOREIGN KEY REFERENCES user |
| total_cost | INT DEFAULT VALUE 0 CHECK total_cost >= 0 |
| productID | INT NOT NULL FOREIGN KEY REFERENCES product |
| Quantity | INT NOT NULL DEFAULT VALUE 1 CHECK quantity >= 1 |

3. Category

Category(categoryID, category_name, info)

| | |
|---------------|--------------------------------------------------|
| categoryID | INT PRIMARY KEY NOT NULL AUTO_INCREMENT |
| category_name | VARCHAR(50) NOT NULL |
| info | VARCHAR(50) DEFAULT NULL |

4. Coupons

Coupons(couponID, discount, expiry, is_used)

| | |
|----------|----------------------------------------------------------|
| couponID | CHAR(10) PRIMARY KEY NOT NULL |
| discount | INT NOT NULL DEFAULT VALUE 0 CHECK discount > 0 |
| expiry | DATE NOT NULL |
| is_used | TINYINT(1) NOT NULL DEFAULT VALUE 0 |

5. my_orders

my_orders(orderID, productID, quantity, cost)

| | |
|-----------|-------------------------------------------------------------------|
| orderID | INT NOT NULL PRIMARY KEY FOREIGN KEY REFERENCES order |
| productID | INT NOT NULL PRIMARY KEY |
| quantity | INT NOT NULL DEFAULT VALUE 1 |
| cost | INT NOT NULL DEFAULT VALUE 0 |

6. Order

Order(orderID, delivery_address, userID, order_value,
delivery_date, couponID, paymentID)

| | |
|------------------|---------------------------------------------------------------|
| orderID | INT NOT NULL PRIMARY KEY AUTO_INCREMENT |
| delivery_address | VARCHAR(50) NOT NULL |
| userID | INT NOT NULL FOREIGN KEY REFERENCES user |
| order_value | INT NOT NULL CHECK order_value >= 0 |
| delivery_date | DATE NOT NULL |
| couponID | CHAR(10) DEFAULT NULL FOREIGN KEY REFERENCES coupons |
| paymentID | INT NOT NULL FOREIGN KEY REFERENCES payments |

7. Payments

Payments(paymentID, payment_mode, payment_address)

| | |
|-----------------|--------------------------------|
| paymentID | INT PRIMARY KEY NOT NULL |
| payment_mode | VARCHAR(10) NOT NULL |
| payment_address | VARCHAR(20) NOT NULL |

8. Product

Product(productID, product_name, price, quantity)

| | |
|--------------|--------------------------------------------------|
| productID | INT PRIMARY KEY NOT NULL AUTO_INCREMENT |
| product_name | VARCHAR(10) NOT NULL |
| price | DOUBLE NOT NULL DEFAULT VALUE 0 |
| quantity | INT NOT NULL DEFAULT VALUE 0 |

9. Product_category_map

Product_category_map(productID, categoryID)

| | |
|------------|----------------------------------------------------------------------|
| productID | INT PRIMARY KEY NOT NULL FOREIGN KEY REFERENCES product |
| categoryID | INT PRIMARY KEY NOT NULL FOREIGN KEY REFERENCES category |

10. User

User(userID, first_name, last_name, user_address, email_id, phone_number, pass, privilege_status)

| | |
|------------------|--------------------------------------------------------------------------------------|
| userID | INT NOT NULL PRIMARY KEY AUTO_INCREMENT |
| first_name | VARCHAR(20) NOT NULL |
| last_name | VARCHAR(20) DEFAULT NULL |
| user_address | VARCHAR(50) NOT NULL |
| email_id | VARCHAR(20) NOT NULL |
| phone_number | BIGINT NOT NULL CHECK phone_number > 1000000000 and phone_number < 10000000000 |
| pass | VARCHAR(20) NOT NULL |
| privilege_status | VARCHAR(10) NOT NULL DEFAULT VALUE normal |