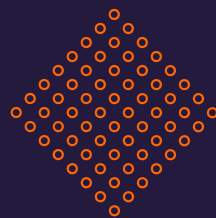


# KU Market Place

2023 Database Project

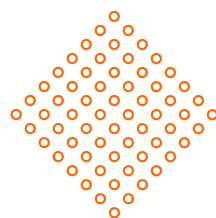
6410546122 Jiratchaya Thongsuthum  
6510545713 Worawalan Chatlatanagulchai  
6510545268 Kantaphat Phapui  
6510545659 Phiranat Chaleekul



**Ecommerce Presentation**



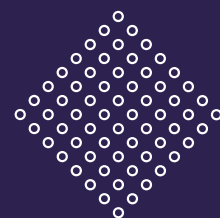
KU Market Place is an E-commerce web application that performs business inquiries such as adding products to the cart, filtering out the newest products, searching for products, etc.



**KU Market Place**

# Activities and Processes

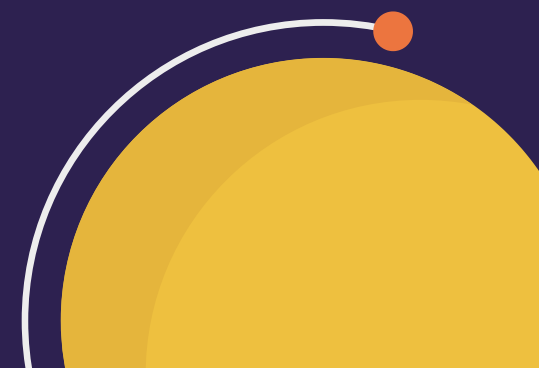
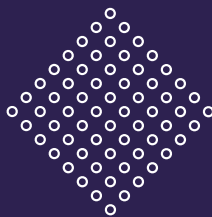
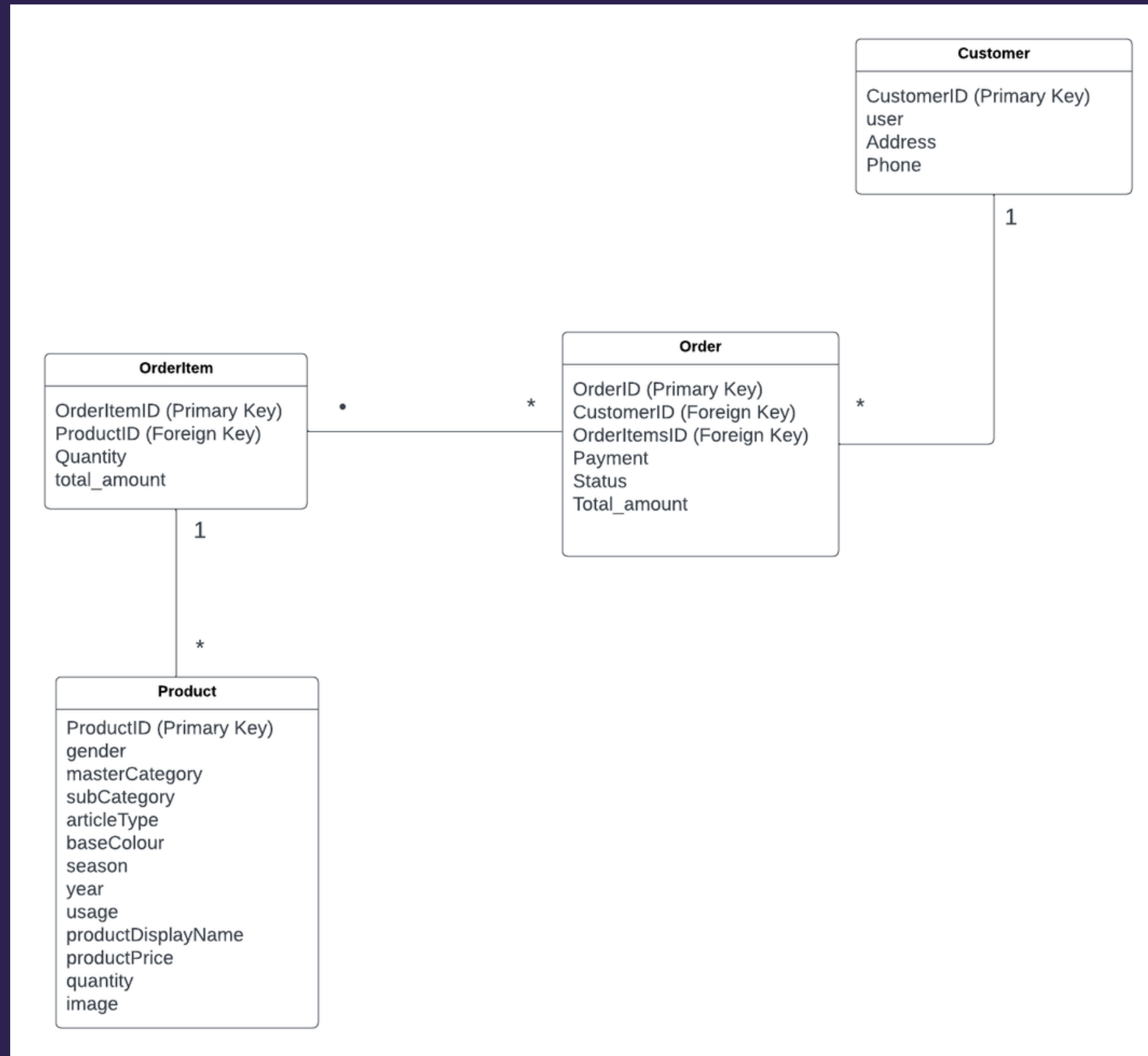
- Add products to a cart
- Remove products from a cart
- Summarize orders
- Compute the total amount of an order
- Search for specific products
- Filter for specific categories of products
- Keep track of each order of user
- Describe information about each product
- Users can login



**KU Market Place**



# DATABASE DESIGN : Uml Diagram





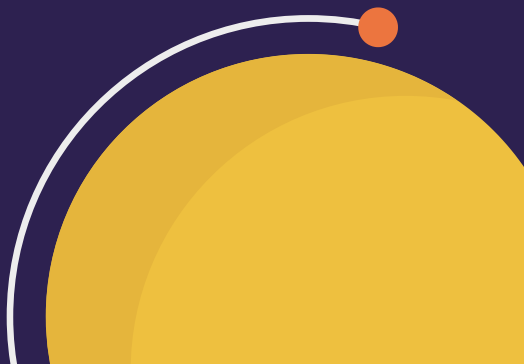
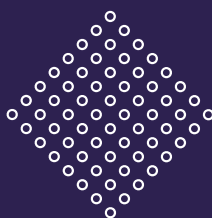
# **DATABASE DESIGN : Dependencies**

**Product -> ProductID (pk), gender, masterCategory, subCategory, articleType, baseColour, season, year, usage, productDisplayName, productPrice, quantity, image**

**OrderItem -> OrderItemID (pk), ProductID (fk), gender, masterCategory, subCategory, articleType, baseColour, season, year, usage, productDisplayName, productPrice, quantity, image, quantity, total\_amount**

**Customer -> CustomerID (pk), user, address, phone**

**CustomerOrder -> OrderID (pk), CustomerID (fk), user, address, phone, OrderItemsID, ProductID, gender, masterCategory, subCategory, articleType, baseColour, season, year, usage, productDisplayName, productPrice, quantity, image, quantity, total\_amount, payment, status, total\_amount**



# DATABASE DESIGN: 3rd Normal Form

# Customer

Customer_id	firstname	lastname	email	address	phone
...	...	...	...	...	...

# OrderItem

id	quantity	product_id	total_amount
...	...	...	...

# Order

id	status	total_amount	customer_id	payment
...	...	...	...	...

# Product

product_id	Product name	articleType	baseColour	gender	season	Category	usage	productPrice	year	product_quantity	image
...	...	...	...	...	...		...	...	...	...	...

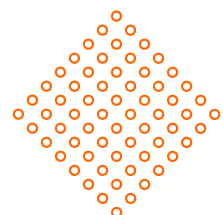
# SQL Queries

## 1.) List all customers and their total order amounts

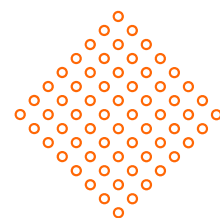
```
SELECT c.CustomerID, c.address, SUM(co.total_amount) AS  
total_order_amount  
FROM Customer c  
LEFT JOIN CustomerOrder co ON c.CustomerID =  
co.CustomerID  
GROUP BY c.CustomerID, c.address;
```

## 2.) Filter products from most to least expensive

```
SELECT ProductID, productPrice, productDisplayName  
FROM Product  
ORDER BY productPrice DESC
```







**KU Market Place**

# SQL Queries

## 3.) Calculate the total sales for each product.

```
SELECT p.ProductID, p.productDisplayName,  
SUM(co.total_amount) AS total_sales  
FROM Product p  
JOIN OrderItem oi ON p.ProductID = oi.ProductID  
JOIN CustomerOrder co ON oi.OrderItemID = co.OrderItemID  
GROUP BY p.ProductID, p.productDisplayName;
```

## 4.) List all orders with 'Credit Card' payment

```
SELECT CustomerID, OrderID, payment FROM CustomerOrder  
WHERE payment = 'Credit Card';
```



# SQL Queries

KU Market Place



## 5.) Find customers who haven't placed any orders

```
SELECT c.CustomerID, c.address  
FROM Customer c  
LEFT JOIN CustomerOrder co ON c.CustomerID = co.CustomerID  
WHERE co.CustomerID IS NULL;
```

## 6.) Retrieve a list of products that are currently out of stock.

```
SELECT * FROM Product  
WHERE quantity = 0;
```

## 7.) Calculate the average order value for all preparing orders.

```
SELECT AVG(total_amount) AS average_prepared_order  
FROM CustomerOrder  
WHERE status = 'Prepare';
```



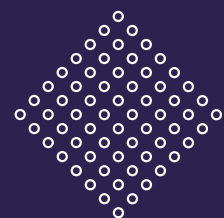
# SQL Queries

## 8.) Identify all preparing orders and their details.

```
SELECT co.OrderID, co.status, co.total_amount  
FROM CustomerOrder co  
JOIN Customer c ON co.CustomerID = c.CustomerID  
WHERE co.status = 'Prepare';
```

## 9.) Identify the most common payment method:

```
SELECT payment, COUNT(*) AS payment_count  
FROM CustomerOrder  
GROUP BY payment  
ORDER BY payment_count DESC
```



**KU Market Place**



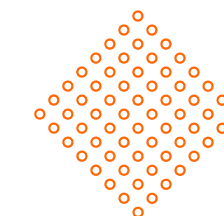
# SQL Queries

## 10.) Count order items for a specific order:

```
SELECT COUNT(*) AS "count"  
FROM OrderItem  
INNER JOIN CustomerOrder  
ON (OrderItem.OrderItemID = CustomerOrder.OrderItemID)  
WHERE CustomerOrder.OrderID = 57;
```

## 11.) Search products by display name with price sorting:

```
SELECT ProductID, gender, masterCategory, subCategory,  
articleType, baseColour, season, year, usage, productDisplayName,  
productPrice, quantity, image  
FROM Product  
WHERE UPPER(Product.productDisplayName) LIKE  
UPPER('%Watch%')  
ORDER BY Product.productPrice DESC;
```



**KU Market Place**

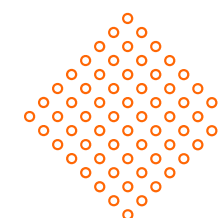
# SQL Queries

## 12.) Retrieve product by ID.

```
SELECT ProductID, gender, masterCategory, subCategory, articleType, baseColour,  
season, year, usage, productDisplayName, productPrice, quantity, image  
FROM Product  
WHERE Product.ProductID = '18696'
```

## 13.) Identify total purchase amount of each customer.

```
SELECT  
CustomerID, totalPurchaseAmount  
FROM (  
SELECT  
c.CustomerID,  
SUM(co.total_amount) AS totalPurchaseAmount  
FROM Customer c  
JOIN CustomerOrder co ON c.CustomerID = co.CustomerID  
GROUP BY c.CustomerID  
) AS CustomerPurchase  
WHERE totalPurchaseAmount > 500;
```



**KU Market Place**

# Web Application Page: Filter products

## Featured Items

Product Name

Product Price

₱

Order By Price

-----

⬆

Gender

Select Gender ▾

Category 1

Select Master Category ▾

Category 2

Select Sub Category ▾

Article

Select Article Type ▾

Colour

Select Colour ▾

Season

Select Season ▾


Usage

Select Usage ▾

Year of Production

Select Year ▾


Search



Baggit Women Brown Handbag

₱6503.25


Women



Manchester United Men Solid Black Track Pants

₱7636.25


Men



Jealous 21 Women Purple Shirt

₱1697.75


Women



Inkfruit Mens Chain Reaction T-shirt

₱4489.0


Men



Skagen Men Black Watch

₱6199.5


Men



Fabindia Men Striped Green Shirt

₱6280.75


Men



CASIO G-Shock Men Black Digital Watch G-7710-1DR G223

₱3616.0


Men



Puma Men Future Cat Remix SF Black Casual Shoes

₱7081.5

Men




Reid & Taylor Men Check Purple Shirts


₱3077.25


Men


# Web Application Page: Sign Up

## Create Account

 Username:

 Email (Optional):

 Password:

 Confirm Password:

Sign Up


Sign In

# Web Application Page: Sign in



Sign in

OR

 Sign in with Google

Sign Up



Username:

admin

Password:

.....

☐ Remember Me

Sign in

OR

Sign Up with Google



# Web Application Page: Products Detail

[LOGOUT](#)[PRODUCTS](#)[CART](#)[ORDER LIST](#)

## Baggit Women Brown Handbag



### Elevate Your Style

Baggit Women Brown Handbag

**B6503.25**

Discover a piece that speaks to your individuality:


- **Gender:** Women
- **Master Category:** Accessories
- **Sub Category:** Bags
- **Article Type:** Handbags
- **Color:** Brown
- **Season:** Summer
- **Usage:** Casual
- **Year of Production:** 2012

Only **144** left in stock! Act now.

Quantity:

ADD TO CART

# Web Application Page: Cart Detail



LOGOUT

PRODUCTS


CART

ORDER LIST

Your Cart

Items in your cart: 1

Total Amount: ฿ 1697.75



Jealous 21 Women Purple Shirt

Gender: Women Master Category: Apparel Sub Category: Topwear Article Type: Shirts Base Colour: Purple Season: Summer Year: 2012 Usage: Casual

Price: ฿ 1697.75

Quantity: 1

Total: ฿ 1697.75

Quantity:

Quantity

Remove

Shipping Address:

463 ประเสริฐมยุกิจ 28

Payment Method: 

Credit Card

Checkout

# Web Application Page: Order Confirmation



LOGOUT PRODUCTS CART ORDER LIST

## Order Confirmation

Thank you for your order.

Number	Shipping Address	Payment	Status	Total Price
84	463 ประเสริฐมนูกิจ 28	PayPal	Delivery	฿ 9979.0

Would you like to purchase another item? Click [here](#).



### Murcia Women Blue Handbag

Gender: Women Master Category: Accessories Sub Category: Bags Article Type: Handbags Base Colour: Blue Season:

Summer Year: 2012 Usage: Casual

Price: ฿ 9979.0

Quantity: 1

Total: 9979.0

# Web Application Page: Display your order list



LOGOUT PRODUCTS CART ORDER LIST

## Order List

Order ID	Customer Name	Product Name	Payment	Order Status	Order Total	Order Details
80	peanutt	Jealous 21 Women Purple Shirt Manchester United Men Solid Black Track Pants	Credit Card	Shipping	32242.75	<a href="#">Details</a>
82	peanutt	Manchester United Men Solid Black Track Pants	Cash on Delivery	Delivery	7636.25	<a href="#">Details</a>
83	peanutt	Ben 10 Boys Navy Blue Slippers Skagen Men Black Watch	Credit Card	Delivery	17968.5	<a href="#">Details</a>
84	peanutt	Murcia Women Blue Handbag	PayPal	Delivery	9979.0	<a href="#">Details</a>
85	peanutt	Fabindia Men Striped Green Shirt	Cash on Delivery	Delivery	6280.75	<a href="#">Details</a>