



**ITCS216**

**Fundamentals of Database Systems**

**Project Phase II: Database Implementation and Document and Presentation**

**Supermarket: Tops**

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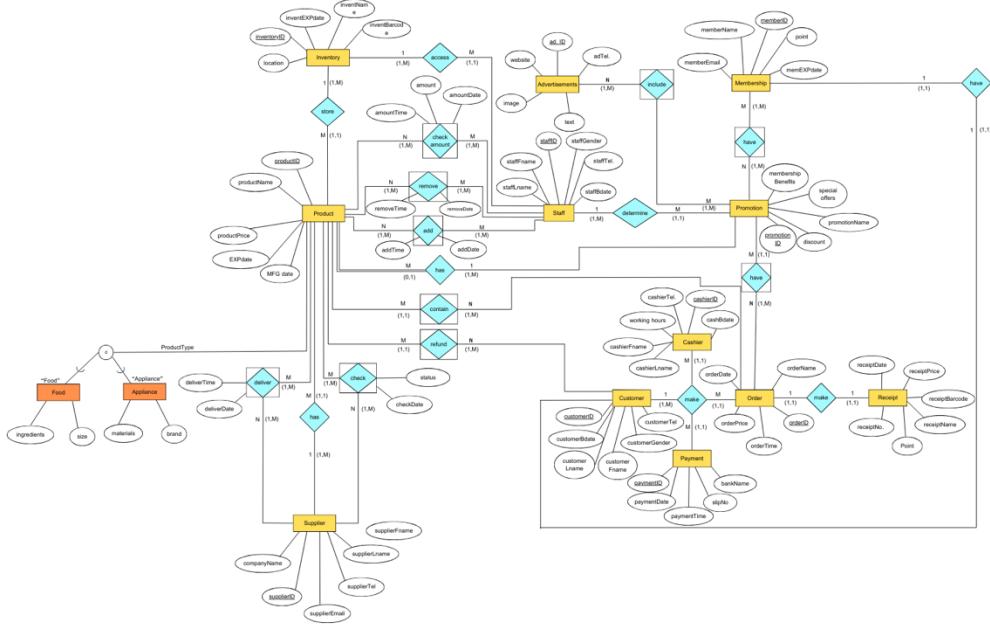
**Presented to**

**Asst. Prof. Dr. Jidapa Kraisangka**

## **Supermarket (Tops)**

Tops Supermarket, a leading retail chain in Thailand, operates under the umbrella of Central Group, a major conglomerate in the region. Established in 1996, Tops has become a significant player in Thailand's grocery sector, renowned for its diverse range of products, from fresh produce to household goods. The supermarket chain aims to provide high-quality products and exceptional customer service, catering to the evolving needs of modern consumers. Tops is committed to sustainability and community engagement, reflecting its broader goal of creating a positive impact both economically and socially. The business domain encompasses hypermarkets, supermarkets, and convenience stores, allowing Tops to serve a wide demographic across Thailand.

## M1: ERD/EERD Transformation



## Entity Relationship Diagram

### Link:

[https://www.canva.com/design/DAGUNvmWCLA/Qn065KCgCy2SPEeMlC41\\_A/edit?utm\\_content=DAGUNvmWCLA&utm\\_campaign=designshare&utm\\_medium=link2&utm\\_source=sharebutton](https://www.canva.com/design/DAGUNvmWCLA/Qn065KCgCy2SPEeMlC41_A/edit?utm_content=DAGUNvmWCLA&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton)

### List of selected entities

Product

Food

Appliance

Supplier

Staff

Promotion

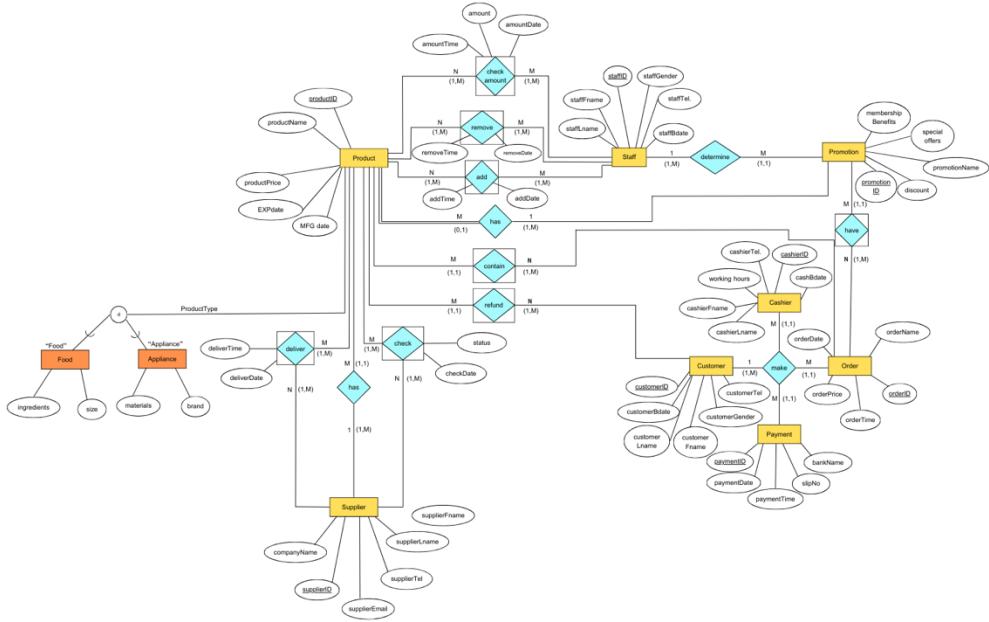
Cashier

Customer

Order

Payment

## Focus on selected entities.



[https://www.canva.com/design/DAGXYV0T9-c/w8aiNkBJCLb6mDUC0xm\\_w/edit?utm\\_content=DAGXYV0T9c&utm\\_campaign=designshare&utm\\_medium=link2&utm\\_source=sharebutton](https://www.canva.com/design/DAGXYV0T9-c/w8aiNkBJCLb6mDUC0xm_w/edit?utm_content=DAGXYV0T9c&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton)

## **Step-by-step Transformation**

### **Step 1: Transforming regular entity types**

#### **Step 1**

Product	<table border="1"><tr><td><u>prodID</u></td><td>prodName</td><td>prodPrice</td><td>MFGdate</td><td>EXPdate</td></tr></table>	<u>prodID</u>	prodName	prodPrice	MFGdate	EXPdate	
<u>prodID</u>	prodName	prodPrice	MFGdate	EXPdate			
Supplier	<table border="1"><tr><td><u>suplID</u></td><td>supFname</td><td>supLname</td><td>comp Name</td><td>supEmail</td><td>supTel</td></tr></table>	<u>suplID</u>	supFname	supLname	comp Name	supEmail	supTel
<u>suplID</u>	supFname	supLname	comp Name	supEmail	supTel		
Staff	<table border="1"><tr><td><u>staffID</u></td><td>staffFname</td><td>staffLname</td><td>staffGender</td><td>staffTel</td><td>staffBdate</td></tr></table>	<u>staffID</u>	staffFname	staffLname	staffGender	staffTel	staffBdate
<u>staffID</u>	staffFname	staffLname	staffGender	staffTel	staffBdate		
Promotion	<table border="1"><tr><td><u>promoID</u></td><td>discount</td><td>promo_Name</td><td>specialoffers</td><td>member_bene</td></tr></table>	<u>promoID</u>	discount	promo_Name	specialoffers	member_bene	
<u>promoID</u>	discount	promo_Name	specialoffers	member_bene			
Cashier	<table border="1"><tr><td><u>cashierID</u></td><td>cashier FName</td><td>cashier LName</td><td>cashierTel</td><td>workingHours</td><td>cashierBdate</td></tr></table>	<u>cashierID</u>	cashier FName	cashier LName	cashierTel	workingHours	cashierBdate
<u>cashierID</u>	cashier FName	cashier LName	cashierTel	workingHours	cashierBdate		
Order	<table border="1"><tr><td><u>orderID</u></td><td>orderName</td><td>orderDate</td><td>orderTime</td><td>orderPrice</td></tr></table>	<u>orderID</u>	orderName	orderDate	orderTime	orderPrice	
<u>orderID</u>	orderName	orderDate	orderTime	orderPrice			
Customer	<table border="1"><tr><td><u>customer ID</u></td><td>customer Fname</td><td>customer Lname</td><td>customer Bdate</td><td>customer Gender</td><td>customerTel</td></tr></table>	<u>customer ID</u>	customer Fname	customer Lname	customer Bdate	customer Gender	customerTel
<u>customer ID</u>	customer Fname	customer Lname	customer Bdate	customer Gender	customerTel		
Payment	<table border="1"><tr><td><u>payID</u></td><td>payDate</td><td>payTime</td><td>slipNo</td><td>bankName</td></tr></table>	<u>payID</u>	payDate	payTime	slipNo	bankName	
<u>payID</u>	payDate	payTime	slipNo	bankName			

**Step 2: Transforming weak entities.**

**Not applicable**

**Step 3: Transforming binary 1:1 relationship types.**

**Not applicable**

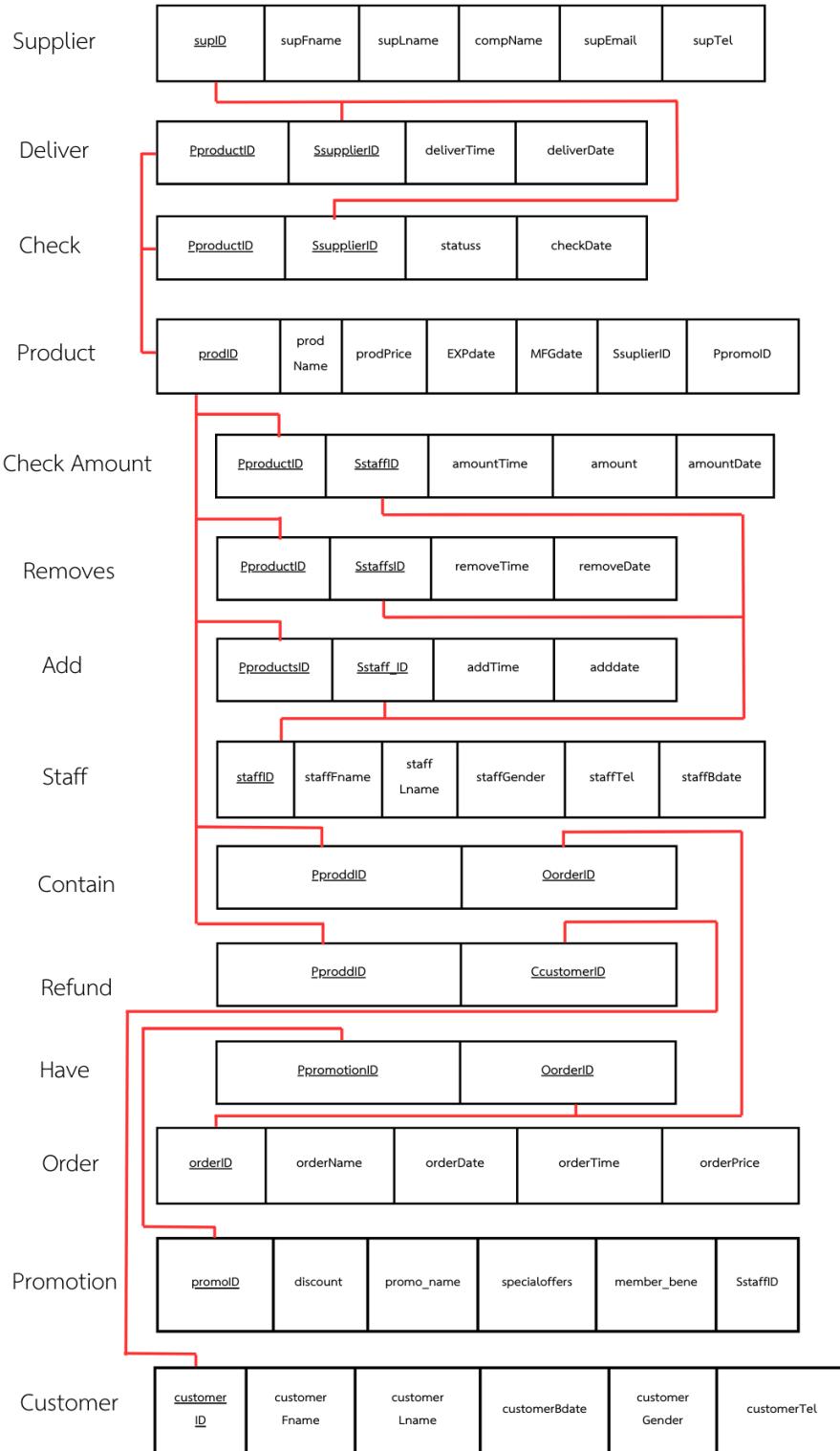
**Step 4: Transforming binary 1: N relationship types.**

**Step 4**

Product	<table border="1"><tr><td><u>prodID</u></td><td>prodName</td><td>prodPrice</td><td>MFGdate</td><td>EXPdate</td><td>SsupplierID</td><td>PpromOID</td></tr></table>	<u>prodID</u>	prodName	prodPrice	MFGdate	EXPdate	SsupplierID	PpromOID
<u>prodID</u>	prodName	prodPrice	MFGdate	EXPdate	SsupplierID	PpromOID		
Supplier	<table border="1"><tr><td><u>supID</u></td><td>supFname</td><td>supLname</td><td>comp Name</td><td>supEmail</td><td>supTel</td></tr></table>	<u>supID</u>	supFname	supLname	comp Name	supEmail	supTel	
<u>supID</u>	supFname	supLname	comp Name	supEmail	supTel			
Staff	<table border="1"><tr><td><u>staffID</u></td><td>staffFName</td><td>staffLname</td><td>staffGender</td><td>staffTel</td><td>staffBdate</td></tr></table>	<u>staffID</u>	staffFName	staffLname	staffGender	staffTel	staffBdate	
<u>staffID</u>	staffFName	staffLname	staffGender	staffTel	staffBdate			
Promotion	<table border="1"><tr><td><u>promOID</u></td><td>discount</td><td>promo_Name</td><td>specialoffers</td><td>member_Bene</td><td>SstaffID</td></tr></table>	<u>promOID</u>	discount	promo_Name	specialoffers	member_Bene	SstaffID	
<u>promOID</u>	discount	promo_Name	specialoffers	member_Bene	SstaffID			

## Step 5: Transforming binary M:N relationship types.

### Step 5

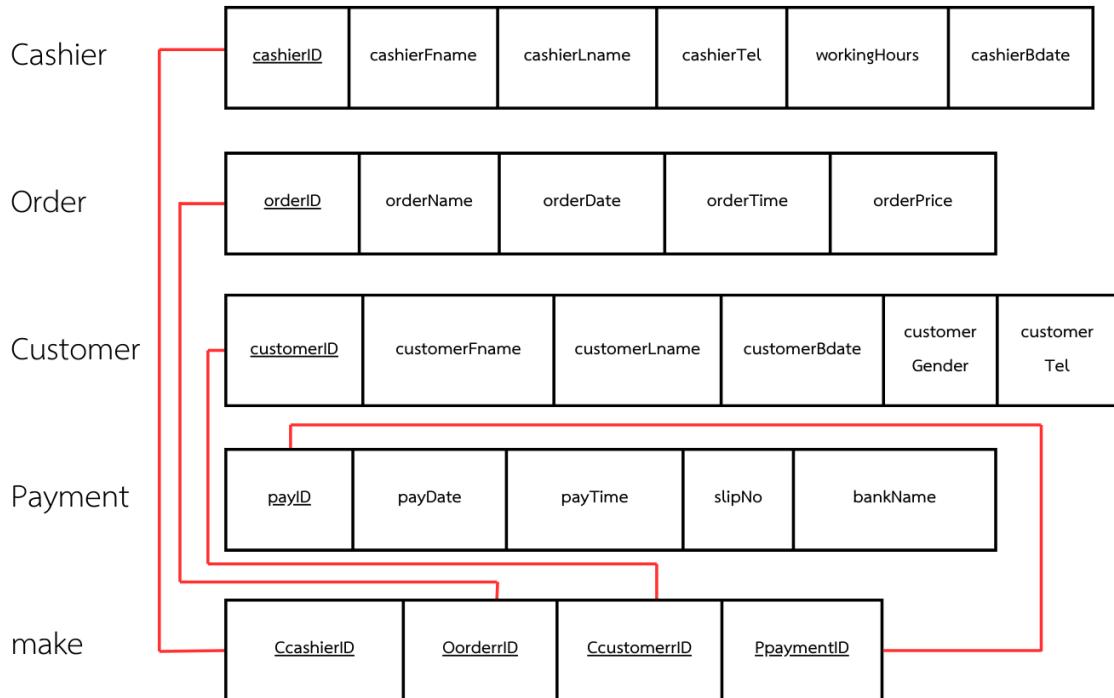


## Step 6: Transforming multi-valued attribute A in relation K.

Not applicable

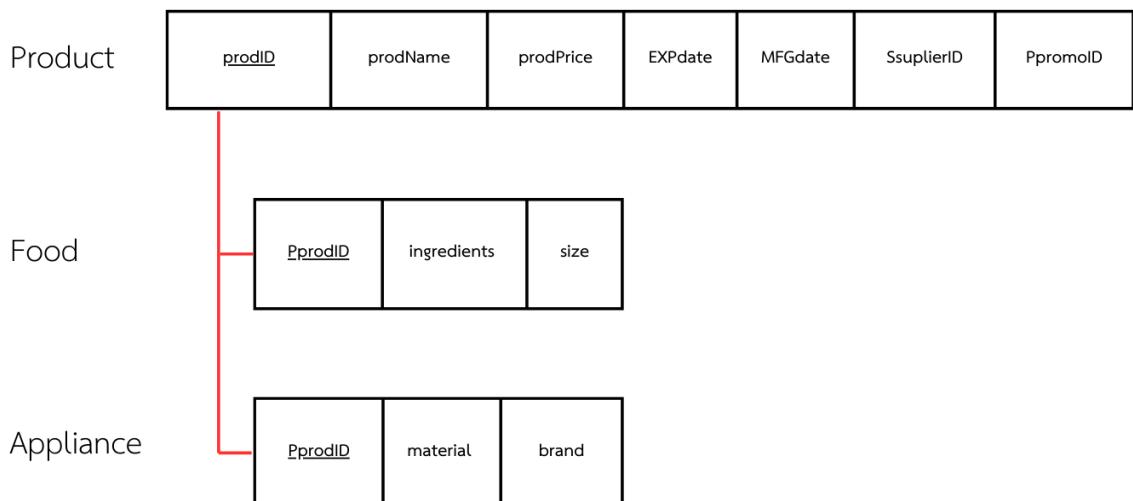
## Step 7: Transforming n-ary relationship types.

### Step 7

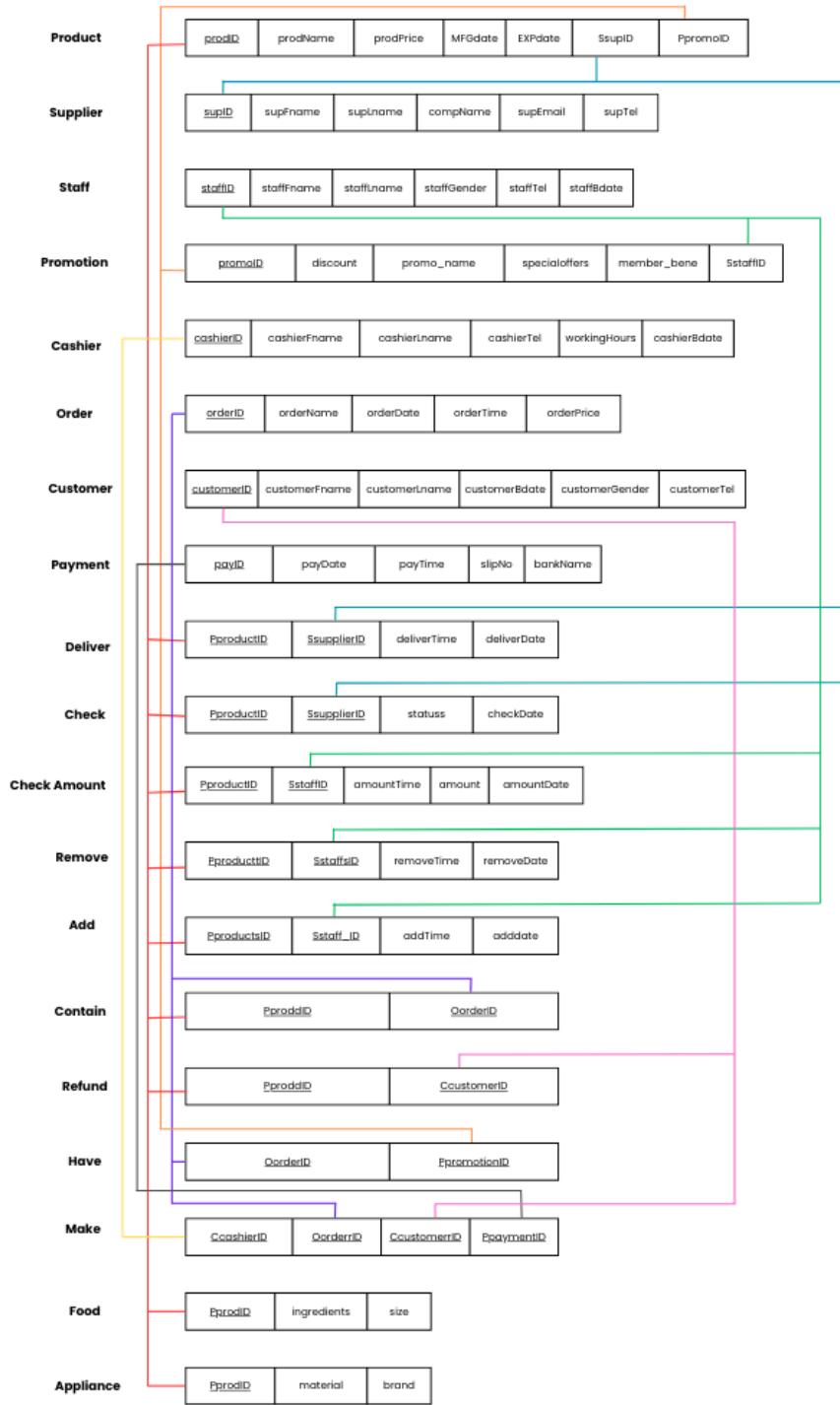


## Step 8A: Transforming specialization or generalization.

### Step 8A



## Final relational schema



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## M2-1: Database Implementation

### Data dictionary

Table Name	Attribute Name	Contents	Type	Format	Null able	Range	Key	FK Reference Table
Supplier	supID	Supplier's ID	CHAR(6)	xxxxxx			PK	
	supFname	Supplier's first name	VARCHAR(32)	xxxxxx				
	supLname	Supplier's last name	VARCHAR(32)	xxxxxx				
	compName	Company's name	VARCHAR(32)	xxxxxx				
	supEmail	Supplier's email	VARCHAR(32)	xxxxxx				
	supTel	Supplier's telephone number	CHAR(10)	xxxxxxxxxx				
Staff	staffID	Staff's ID	CHAR(6)	xx-xxxx			PK	
	staffFname	Staff's First name	VARCHAR(32)	xxxxxx				
	staffLname	Staff's Last name	VARCHAR(32)	xxxxxx				
	staffGender	Staff's gender	CHAR(1)	x		M,F		
	staffTel	Staff's telephone number	CHAR(10)	xxxxxxxxxx				
	staffBdate	Staff's birthdate	DATE	yyyy-mm-dd				
Promotion	promoid	Promotion's ID	CHAR(6)	xxxxxx			PK	
	discount	Discount	INT	x	y			
	promo_name	Promotion's name	VARCHAR(32)	xxxxxx	y			
	specialoffers	Special offers	VARCHAR(32)	xxxxxx				
	member_bene	Membership Benefits	VARCHAR(32)	xxxxxx				
	SstaffID	Staff's ID	CHAR(6)	xxxxxx			FK	staffID [Staff]
Product	prodID	Product's ID	CHAR(13)	xxxxxxxxxx			PK	
	prodName	Product's name	VARCHAR(50)	xxxxxx				
	prodPrice	Product's price	DECIMAL(6,2)	1234.56				
	EXPdate	Expired date	DATE	yyyy-mm-dd				
	MFGdate	Manufacturing date	DATE	yyyy-mm-dd				
	SsupplierID	Supplier's ID	CHAR(6)	xxxxxx			FK	supplierID [Supplier]
	PromoID	Promotion's ID	CHAR(6)	xxxxxx	y		FK	promotionID [Promotion]
Food	PprodID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	ingredients	Ingredients of food	VARCHAR(32)	xxxxxx				
	size	Size of food	VARCHAR(15)	xxxxxx				
Appliance	PprodID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	material	Material	VARCHAR(50)	xxxxxx				
	brand	Brand	VARCHAR(20)	xxxxxx				
Cashier	cashierID	Cashier's ID	CHAR(6)	xxxxxx			PK	
	cashierFname	Cashier's first name	VARCHAR(32)	xxxxxx				
	cashierLname	Cashier's last name	VARCHAR(32)	xxxxxx				
	cashierTel	Cashier's telephone number	CHAR(10)	xxxxxxxxxx				
	workingHours	Working Hours	VARCHAR(10)	xxxxxx				
	cashierBdate	Cashier's birthdate	DATE	yyyy-mm-dd				

Customer	customerID	Customer's ID	CHAR(6)	xxxxxx			PK	
	customerFname	Customer's first name	VARCHAR(32)	xxxxxx				
	customerLname	Customer's last name	VARCHAR(32)	xxxxxx				
	customerBdate	Customer's birthdate	DATE	yyyy-mm-dd				
	customerGender	Customer's gender	CHAR(1)	x	Y	M, F		
	customerTel	Customer's telephone number	CHAR(10)	xxxxxxxxxx				
Order	orderID	Order's ID	CHAR(6)	xxxxxx			PK	
	orderName	Order's name	VARCHAR(32)	xxxxxx				
	orderDate	Order's date	DATE	yyyy-mm-dd				
	orderTime	Order's time	TIME	hh:mm:ss				
	orderPrice	Order's price	DECIMAL(6,2)	12345.67				
Payment	payID	Payment's ID	CHAR(6)	xxxxxx			PK	
	payDate	Payment's date	DATE	yyyy-mm-dd				
	payTime	Payment's time	TIME	hh:mm:ss				
	slipNo	Slip Number	CHAR(10)	xxxxxx				
	bankName	Bank name	VARCHAR(20)	xxxxxx				
Deliver	PproductID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	SsupplierID	Supplier's ID	CHAR(6)	xxxxxx			FK	supplierID [Supplier]
	deliverTime	Deliver's time	TIME	hh:mm:ss				
	deliverDate	Deliver's date	DATE	yyyy-mm-dd				
Check	PproductID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	SsupplierID	Supplier's ID	CHAR(6)	xxxxxx			FK	supplierID [Supplier]
	statuss	Status of Product	VARCHAR(20)	xxxxxx				
	checkDate	Check date	DATE	yyyy-mm-dd				
Check Amount	PproductID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	SstaffID	Staff's ID	CHAR(6)	xxxxxx			FK	staffID [Staff]
	amountTime	Amount time	TIME	hh:mm:ss				
	amount	Amount	INT	x				
	amountDate	Amount date	DATE	yyyy-mm-dd				
Contain	PproddID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	OorderID	Order's ID	CHAR(6)	xxxxxx			FK	OrderID [Order]
Refund	PproddID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	CcustomerID	Customer's ID	CHAR(6)	xxxxxx			FK	customerID [Customer]
Have	OorderID	Order's ID	CHAR(6)	xxxxxx			FK	OrderID [Order]
	PpromotionID	Promotion's ID	CHAR(6)	xxxxxx			FK	PromotionID [Promotion]
Make	CcashierID	Cashier's ID	CHAR(6)	xxxxxx			FK	cashierID [Cashier]
	OorderrID	Order's ID	CHAR(6)	xxxxxx			FK	orderID [Order]
	CcustomerrID	Customer's ID	CHAR(6)	xxxxxx			FK	customerID [Customer]
	PpaymentID	Payment's ID	CHAR(6)	xxxxxx			FK	paymentID [Payment]
Remove	PproducttID	Product's ID	CHAR(13)	xxxxxxxxxx			FK	productID [Product]
	SstaffsID	Staff's ID	CHAR(6)	xxxxxx			FK	staffID [Staff]
	removeTime	Remove time	TIME	hh:mm:ss				
	removeDate	Remove date	DATE	yyyy-mm-dd				

Add	PproductsID	Product's ID	CHAR(13)	xxxxxx			FK	productID [Product]
	Sstaff_ID	Staff's ID	CHAR(6)	xxxxxx			FK	staffID [Satff]
	addTime	Add time	TIME	hh:mm:ss				
	addDate	Add date	DATE	yyyy-mm-dd				

## Screen captures of the databased created in MySQL Server

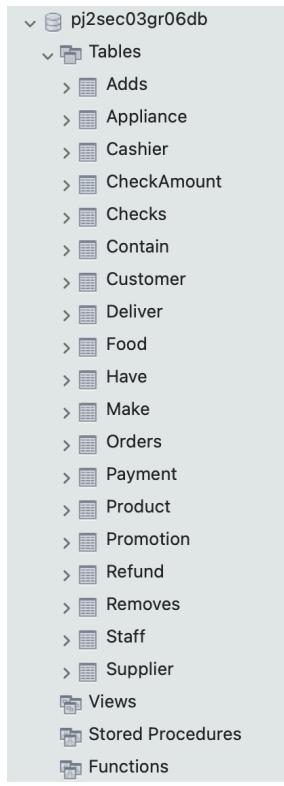


Table Name	Screen capture of table
Product	<pre> CREATE TABLE Product(     prodID CHAR(13),     prodName VARCHAR(50) NOT NULL,     prodPrice DECIMAL(6,2) NOT NULL,     MFGdate DATE NOT NULL,     EXPdate DATE NOT NULL,     SsupID CHAR(6) NOT NULL,     PpromoID CHAR(6),     CONSTRAINT PK_Product PRIMARY KEY(prodID),     CONSTRAINT FK_PromotionID FOREIGN KEY(PromoID)         REFERENCES Promotion(promoID),     CONSTRAINT FK_SupID FOREIGN KEY(SsupID)         REFERENCES Supplier(supID) );  INSERT INTO Product (prodID, prodName, prodPrice, MFGdate, EXPdate, SsupID, PpromoID) VALUES     ('8851932295796', 'Walls Ice Cream Magnum Classic', 50.00, '2024-08-15', '2025-02-14', 'S00003', null),     ('8850718801213', 'Lays Classic Potato Salt', 31.00, '2024-04-22', '2024-12-23', 'S00002', 'PROM01'),     ('8859242900713', 'Sukishi Green Papaya Kimchi', 69.00, '2024-11-05', '2025-03-04', 'S00010', 'PROM04'),     ('4710731050163', 'Farcent Absorb Box', 54.00, '2023-05-12', '2025-01-12', 'S00006', 'PROM05'),     ('8850002020245', 'Kirei Hand Soap Refill', 39.80, '2023-07-29', '2026-05-30', 'S00009', 'PROM09'),     ('8850329102112', 'Meiji Pasteurized Milk Plain', 99.75, '2024-11-14', '2024-11-23', 'S00007', null),     ('88501882270106', 'Foremost UHT Milk Low Fat', 47.50, '2024-11-10', '2024-11-19', 'S00005', null),     ('8851952350796', 'Crystal Water Pack 6', 55.00, '2024-08-10', '2025-08-09', 'S00008', 'PROM06'),     ('4800361028004', 'Nestle Cereal Milo', 10.00, '2024-06-12', '2024-12-05', 'S00001', 'PROM06'),     ('8850358371343', 'Mcgarrett Instant Oat', 55.00, '2024-09-09', '2025-09-08', 'S00004', null),     ('8851473006233', 'Sara Paracetamol', 15.00, '2022-11-02', '2027-11-01', 'S00007', 'PROM09'),     ('8887549037238', 'Panasonic Black Battery AA Pack 4', 69.00, '2023-02-06', '2023-02-05', 'S00001', 'PROM08'),     ('3292070100613', 'Thammachart Laberyrie Salmon Caviar', 690.00, '2024-11-01', '2024-12-01', 'S00010', 'PROM03'),     ('8851906883936', 'Zupa Sparkling Lychee Flavour Drink', 35.00, '2024-05-23', '2025-05-22', 'S00002', 'PROM07'),     ('6920354814471', 'Colgate Optic White', 149.00, '2023-09-17', '2025-09-16', 'S00003', 'PROM01'),     ('4902430565578', 'Head&amp;Shoulder Apple Fresh Shampoo', 109.00, '2023-08-04', '2025-08-03', 'S00004', 'PROM02'),     ('8853474056200', 'Smarter Moisturizing Nail Polish Remover', 55.00, '2024-02-10', '2025-02-09', 'S00005', 'PROM10'),     ('8850007814528', 'Listerine Cool Mint Mouthwash', 249.00, '2024-06-08', '2025-06-07', 'S00006', 'PROM09'),     ('4710731000540', 'Farcent Shoe Deodorizer Spray', 96.00, '2024-10-15', '2025-10-14', 'S00007', null),     ('4550516705907', 'Senka Perfect Whip White', 199.00, '2024-04-24', '2025-10-04', 'S00008', 'PROM05'),     ('8851818341401', 'Biore Perfect Cleansing', 219.00, '2024-03-31', '2025-03-30', 'S00009', 'PROM05'); </pre>

<b>Food</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Food(       PprodID CHAR(13),       ingredients VARCHAR(32) NOT NULL,       size VARCHAR(15) NOT NULL,       CONSTRAINT FK_Food FOREIGN KEY(PprodID)       REFERENCES Product(prodID)     );</code></li>   <li>• <code>INSERT INTO Food(PprodID, ingredients, size) VALUES       ('8851932295796', 'milk and cocoa', '70 g.'),       ('8850718801213', 'potato and salt', '69 g.'),       ('8859242900713', 'papaya and gochujang sauce', '150 g.'),       ('8850329102112', 'milk', '2 ltr.'),       ('8850188270106', 'milk', '1 ltr.'),       ('8851952350796', 'water', '1.5 ltr.'),       ('4800361028004', 'cocoa and wheat', '17 g.'),       ('8850358371343', 'oat', '400 g.'),       ('3292070100613', 'Salmon caviar', '80 g.'),       ('8851906883936', 'Lychee and soda', '240 ml.');     </code></li> </ul>
<b>Appliance</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Appliance(       PprodID CHAR(13),       material VARCHAR(50) NOT NULL,       brand VARCHAR(20) NOT NULL,       CONSTRAINT FK_Appliance FOREIGN KEY(PprodID)       REFERENCES Product(prodID)     );</code></li>   <li>• <code>INSERT INTO Appliance(PprodID, material, brand) VALUES       ('4710731050163', 'charcoal', 'Farcent'),       ('8850002020245', 'water and propylene glycol', 'Kirei'),       ('8851473006233', 'Paracetamol', 'Sara'),       ('8887549037238', 'battery', 'Panasonic'),       ('6920354814471', 'Sodium acrylates', 'Colgate'),       ('4902430565578', 'Water and Sodium Lauryl Sulfate', 'Head&amp;Shoulder'),       ('8853474056200', 'Acetone, propylene glycol, and water', 'Smarter'),       ('8850007814528', 'Eucalyptol, menthol, thymol, and water', 'Listerine'),       ('4710731000540', 'Deionized water and Ethanol', 'Farcent'),       ('4550516705907', 'Potassium hydroxide and Stearic acid etc.', 'Senka'),       ('8851818341401', 'Water and Dipropylene glycol etc.', 'Biore');     </code></li> </ul>
<b>Supplier</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Supplier(       supID CHAR(6),       supFname VARCHAR(32) NOT NULL,       supLname VARCHAR(32) NOT NULL,       compName VARCHAR(32) NOT NULL,       supEmail VARCHAR(32) NOT NULL,       supTel CHAR(10) NOT NULL,       CONSTRAINT PK_Supplier PRIMARY KEY(supID)     );</code></li>   <li>• <code>INSERT INTO Supplier (supID, supFname, supLname, compName, supEmail, supTel) VALUES       ('S00001', 'Chutiwat', 'Somboon', 'SmartLGT Co.,Ltd', 'smart.Logistics@gmail.com', '0882547721'),       ('S00002', 'Marin', 'Ninnakorn', 'Nexpie Co.Ltd', 'nexpie@gmail.com', '0901123456'),       ('S00003', 'Ticha', 'Jiranant', 'GIS Co.Ltd', 'GIS.company@gmail.com', '0742896699'),       ('S00004', 'Ashira', 'Suthai', 'BRABBIT CO.,LTD', 'brabbit.startup@gmail.com', '0614420156'),       ('S00005', 'Chet', 'Kanitkul', 'VGEN CO.,Ltd', 'v.gen@gmail.com', '0895532425'),       ('S00006', 'Danika', 'Yuyongrak', 'Chareon Sook Co.,Ltd', 'chareon.sook@gmail.com', '0892889922'),       ('S00007', 'Ashirakorn', 'Pondechapiphat', 'Maruai Co.,Ltd', 'maruai.company@gmail.com', '0751199596'),       ('S00008', 'Kavin', 'Rattanakul', 'Rungrueang Co.,Ltd', 'rung.rueang@gmail.com', '0906007173'),       ('S00009', 'Chayanon', 'Phakthin', 'ThaiSup Co.,Ltd', 'thai.supplier@gmail.com', '0657798182'),       ('S00010', 'Morayut', 'Prasongporn', 'W.Group Co.,Ltd', 'w.connect.group@gmail.com', '0977890011');     </code></li> </ul>

<b>Staff</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Staff(     staffID CHAR(6),     staffFname VARCHAR(32) NOT NULL,     staffLname VARCHAR(32) NOT NULL,     staffGender CHAR(1) NOT NULL,     staffTel CHAR(10) NOT NULL,     staffBdate DATE NOT NULL,     CONSTRAINT PK_Staff PRIMARY KEY(staffID) );</code></li>   <li>• <code>INSERT INTO Staff (staffID, staffFname, staffLname, staffGender, staffTel, staffBdate) VALUES         ('ST0001', 'Pasawee', 'Sriarunotai', 'M', '0897312428', '1987-07-23'),         ('ST0002', 'Kris', 'Kanchanatip', 'M', '0954435250', '1992-11-25'),         ('ST0003', 'Pongpol', 'Panyamit', 'M', '0803326483', '2000-10-09'),         ('ST0004', 'Charissa', 'Jankane', 'F', '0973737282', '1976-02-11'),         ('ST0005', 'Yada', 'Wongpaisarn', 'F', '0892218474', '1988-12-04'),         ('ST0006', 'Nattakit', 'Chaemdara', 'M', '0907492748', '2002-06-27'),         ('ST0007', 'Tatchai', 'Limpanyakul', 'M', '0648263849', '1995-03-18'),         ('ST0008', 'Dechapat', 'Pondechaphiphat', 'M', '0861737463', '1994-03-15'),         ('ST0009', 'Alisara', 'Chareonwat', 'F', '0872374839', '2001-05-01'),         ('ST0010', 'Wasupon', 'Porpananurak', 'M', '0942845521', '1979-10-06');</code></li> </ul>
<b>Promotion</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Promotion(     promoID CHAR(6),     discount INT NOT NULL,     promo_name VARCHAR(32) NOT NULL,     specialoffers VARCHAR(32) NOT NULL,     member_bene VARCHAR(32),     SstaffID CHAR(6) NOT NULL,     CONSTRAINT PK_Promo PRIMARY KEY(promoID),     CONSTRAINT FK_Promo FOREIGN KEY(SstaffID)     REFERENCES Staff(staffID) );</code></li>   <li>• <code>INSERT INTO Promotion (promoID, discount, promo_name, specialoffers, member_bene, SstaffID) VALUES         ('PROM01', 10, 'Weekly Special', 'Buy 1 Get 1 Free', '5% Extra Discount', 'ST0001'),         ('PROM02', 15, 'Holiday Sale', 'Free Gift with Purchase', '10% Cashback', 'ST0002'),         ('PROM03', 20, 'Member Exclusive', 'Free Delivery', 'Double Points', 'ST0003'),         ('PROM04', 25, 'Clearance Sale', 'Up to 50% on Selected Items', null, 'ST0004'),         ('PROM05', 30, 'Flash Sale', 'Limited Time Offer', '5% Extra Discount', 'ST0005'),         ('PROM06', 10, 'Back to School', 'Free Stationery Kit', '5% Extra Points', 'ST0006'),         ('PROM07', 15, 'Weekend Sale', 'Buy 2 Get 1 Free', 'Free Loyalty Points', 'ST0007'),         ('PROM08', 10, 'Festive Discount', '10% Off on Electronics', 'Extended Warranty', 'ST0008'),         ('PROM09', 25, 'Health &amp; Wellness', 'Free Health Kit', 'Extra 10% on Health Products', 'ST0009'),         ('PROM10', 50, 'Year-End Clearance', 'Up to 70% on Clearance Items', null, 'ST0010');</code></li> </ul>
<b>Cashier</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Cashier(     cashierID CHAR(6),     cashierFname VARCHAR(32) NOT NULL,     cashierLname VARCHAR(32) NOT NULL,     cashierTel CHAR(10) NOT NULL,     workingHours VARCHAR(10) NOT NULL,     cashierBdate DATE NOT NULL,     CONSTRAINT PK_Cashier PRIMARY KEY(cashierID) );</code></li>   <li>• <code>INSERT INTO Cashier(cashierID, cashierFname, cashierLname, cashierTel, workingHours, cashierBdate) VALUES         ('CH2101', 'Apichit', 'Chonlapat', '0847721413', 'Morning', '1995-06-16'),         ('CH2102', 'Somchai', 'Chatribood', '0871563434', 'Morning', '1994-04-25'),         ('CH2103', 'Paweeethida', 'Sirattanakul', '0645643782', 'Night', '1990-02-28'),         ('CH2104', 'Varee', 'Deeprasert', '0815324563', 'Morning', '1987-11-12'),         ('CH2105', 'Suwimon', 'Amornsiri', '0834326112', 'Night', '1999-10-21'),         ('CH2106', 'Suradeth', 'Chedmontri', '0856543432', 'Night', '1992-05-05'),         ('CH2107', 'Thanyarat', 'Wattanakriet', '0896903211', 'Morning', '2000-09-19'),         ('CH2108', 'Amornrat', 'Taveechoke', '0956745432', 'Night', '1994-03-26'),         ('CH2109', 'Ployphat', 'Junjam', '0675436556', 'Morning', '1996-07-14'),         ('CH2110', 'Theerawat', 'Chaimonkol', '0865546621', 'Night', '1993-10-11');</code></li> </ul>

<b>Customer</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Customer(       customerID CHAR(6),       customerFname VARCHAR(32) NOT NULL,       customerLname VARCHAR(32) NOT NULL,       customerBdate DATE NOT NULL,       customerGender CHAR(1),       customerTel CHAR(10) NOT NULL,       CONSTRAINT PK_Customer PRIMARY KEY(customerID)     );</code></li>   <li>• <code>INSERT INTO Customer(customerID, customerFname, customerLname, customerBdate, customerGender, customerTel) VALUES       ('C10111', 'Crystalyn', 'Pinamuphal', '1992-04-06', 'M', '0656114709'),       ('C10112', 'Darin', 'Srihabut', '1990-03-25', null, '0897014569'),       ('C10113', 'Nuttacha', 'Panpariwat', '1997-07-04', 'M', '0956147224'),       ('C10114', 'Thitiwat', 'Sangarun', '2003-06-04', 'M', '0804669612'),       ('C10115', 'Patsawee', 'Siripornsak', '1987-02-18', 'F', '0816196687'),       ('C10116', 'Anyarin', 'Srithongchai', '1995-06-09', 'F', '0802128892'),       ('C10117', 'Gavin', 'Dechasiri', '1991-10-10', null, '0697213456'),       ('C10118', 'Phuwin', 'Thrirong', '1989-02-16', 'M', '0827416573'),       ('C10119', 'Nicha', 'Phuwadet', '1990-01-21', 'F', '0884667213'),       ('C10120', 'Thanawat', 'Sooksumboon na ayutthaya', '1985-12-24', null, '0946491152');</code> </li> </ul>
<b>Order</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Orders (       orderID CHAR(6),       orderName VARCHAR(32),       orderDate DATE NOT NULL,       orderTime TIME NOT NULL,       orderPrice DECIMAL(6,2) NOT NULL,       CONSTRAINT PK_orderID PRIMARY KEY(orderID)     );</code></li>   <li>• <code>INSERT INTO Orders(orderID,orderName,orderDate,orderTime,orderPrice) VALUES       ('OD00001', 'Supermarket Order 1', '2024-11-01', '08:15:00', 100.00),       ('OD00002', 'Supermarket Order 2', '2024-11-01', '08:45:00', 150.00),       ('OD00003', 'Supermarket Order 3', '2024-11-01', '09:10:00', 205.25),       ('OD00004', 'Supermarket Order 4', '2024-11-02', '12:00:00', 70.00),       ('OD00005', 'Supermarket Order 5', '2024-11-02', '13:00:00', 1900.75),       ('OD00006', 'Supermarket Order 6', '2024-11-02', '14:35:00', 2500.00),       ('OD00007', 'Supermarket Order 7', '2024-11-02', '18:00:00', 450.00),       ('OD00008', 'Supermarket Order 8', '2024-11-02', '20:10:00', 2333.50),       ('OD00009', 'Supermarket Order 9', '2024-11-02', '20:15:00', 560.25),       ('OD00010', 'Supermarket Order 10', '2024-11-02', '20:30:00', 780.00);</code> </li> </ul>
<b>Payment</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Payment(       payID CHAR(6),       payDate DATE NOT NULL,       payTime TIME NOT NULL,       slipNo CHAR(10) NOT NULL,       bankName VARCHAR(20) NOT NULL,       CONSTRAINT PK_paymentID PRIMARY KEY(payID)     );</code></li>   <li>• <code>INSERT INTO Payment(payID,payDate,payTime,slipNo,bankName) VALUES       ('P00101', '2024-10-01', '09:15:00', 'SLP00001', 'Bangkok Bank'),       ('P00102', '2024-10-01', '10:45:00', 'SLP00002', 'UOB Thailand'),       ('P00103', '2024-10-02', '11:30:00', 'SLP00003', 'TMBThanachart Bank'),       ('P00104', '2024-10-02', '13:20:00', 'SLP00004', 'CitiBank'),       ('P00105', '2024-10-03', '14:50:00', 'SLP00005', 'Bank of Ayudhya'),       ('P00106', '2024-10-03', '16:00:00', 'SLP00006', 'Kasikornbank'),       ('P00107', '2024-10-04', '09:00:00', 'SLP00007', 'Bangkok Bank'),       ('P00108', '2024-10-05', '11:10:00', 'SLP00008', 'UOB Thailand'),       ('P00109', '2024-10-06', '10:15:00', 'SLP00009', 'Kasikornbank'),       ('P00110', '2024-10-06', '12:45:00', 'SLP00010', 'Kasikornbank');</code> </li> </ul>

<b>Deliver</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Deliver( PproductID CHAR(13), SsupplierID CHAR(6), deliverTime TIME NOT NULL, deliverDate DATE NOT NULL, CONSTRAINT FK_PproductID FOREIGN KEY(PproductID) REFERENCES Product(prodID), CONSTRAINT FK_SsupplierID FOREIGN KEY(SsupplierID) REFERENCES Supplier(supID) );</code></li> <li>• <code>INSERT INTO Deliver(PproductID,SsupplierID,deliverTime,deliverDate) VALUES ('8851932295796', 'S00001', '10:30:00', '2024-11-01'), ('8850188270106', 'S00004', '12:15:00', '2024-11-01'), ('4800361028004', 'S00003', '09:00:00', '2024-11-02'), ('8850329102112', 'S00010', '14:45:00', '2024-11-02'), ('8850358371343', 'S00005', '08:30:00', '2024-11-03'), ('4710731050163', 'S00006', '13:20:00', '2024-11-03'), ('8850718801213', 'S00002', '11:10:00', '2024-11-04'), ('4710731050163', 'S00008', '16:00:00', '2024-11-04'), ('8850188270106', 'S00009', '09:40:00', '2024-11-05'), ('8850329102112', 'S00010', '17:30:00', '2024-11-05'), ('8850718801213', 'S00001', '10:10:00', '2024-11-06'), ('4800361028004', 'S00002', '14:55:00', '2024-11-06'), ('8851932295796', 'S00003', '08:45:00', '2024-11-07'), ('8850358371343', 'S00004', '15:25:00', '2024-11-07'), ('8850718801213', 'S00005', '12:30:00', '2024-11-08'), ('4800361028004', 'S00006', '13:50:00', '2024-11-08'), ('8850188270106', 'S00007', '10:00:00', '2024-11-09'), ('8851932295796', 'S00008', '14:00:00', '2024-11-09'), ('8850329102112', 'S00009', '11:30:00', '2024-11-10'), ('4800361028004', 'S00001', '16:10:00', '2024-11-10'), ('4710731050163', 'S00003', '08:55:00', '2024-11-11'), ('4710731050163', 'S00002', '14:40:00', '2024-11-11'), ('8850188270106', 'S00003', '09:20:00', '2024-11-12'), ('4800361028004', 'S00004', '12:50:00', '2024-11-12'), ('8850329102112', 'S00005', '10:15:00', '2024-11-13'), ('8851932295796', 'S00006', '11:50:00', '2024-11-13'), ('8850358371343', 'S00007', '10:00:00', '2024-11-14'), ('4800361028004', 'S00008', '15:30:00', '2024-11-14'), ('8850188270106', 'S00009', '09:10:00', '2024-11-15'), ('8851932295796', 'S00001', '16:20:00', '2024-11-15');</code></li> </ul>
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<b>Check</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Checks ( PproductID CHAR(13), SsupplierID CHAR(6), statuss VARCHAR(20) NOT NULL, checkDate DATE NOT NULL, CONSTRAINT FK_PprodID FOREIGN KEY (PproductID) REFERENCES Product(prodID), CONSTRAINT FK_SsupID FOREIGN KEY (SsupplierID) REFERENCES Supplier(supID) );</code></li> <li>• <code>INSERT INTO Checks (PproductID, SsupplierID, statuss, checkDate) VALUES ('8850358371343', 'S00001', 'Delivered', '2024-11-01'), ('8851906883936', 'S00002', 'Pending', '2024-11-02'), ('4710731000540', 'S00003', 'Delivered', '2024-11-02'), ('4902430565578', 'S00004', 'In Transit', '2024-11-03'), ('8853474056200', 'S00005', 'In Transit', '2024-11-03'), ('8850007814528', 'S00006', 'Delivered', '2024-11-04'), ('8851473006233', 'S00007', 'Pending', '2024-11-04'), ('4550516705907', 'S00008', 'Delivered', '2024-11-05'), ('8851818341401', 'S00009', 'In Transit', '2024-11-05'), ('3292070100613', 'S00010', 'In Transit', '2024-11-05'), ('8850329102112', 'S00001', 'Pending', '2024-11-01'), ('4800361028004', 'S00003', 'Pending', '2024-11-03'), ('8850188270106', 'S00005', 'Delivered', '2024-11-02'), ('8850358371343', 'S00004', 'In Transit', '2024-11-03'), ('4710731000540', 'S00009', 'Pending', '2024-11-03'), ('3292070100613', 'S00007', 'Delivered', '2024-11-05'), ('8850007814528', 'S00006', 'In Transit', '2024-11-03'), ('8851952350796', 'S00008', 'In Transit', '2024-11-05'), ('8859242900713', 'S00010', 'Delivered', '2024-11-04'), ('6920354814471', 'S00003', 'Delivered', '2024-11-05'), ('8850002020245', 'S00008', 'In Transit', '2024-11-01'), ('4800361028004', 'S00003', 'Delivered', '2024-11-02'), ('8850007814528', 'S00006', 'Delivered', '2024-11-02'), ('3292070100613', 'S00007', 'Delivered', '2024-11-03'), ('8851952350796', 'S00008', 'Pending', '2024-11-03'), ('6920354814471', 'S00007', 'Delivered', '2024-11-04'), ('8859242900713', 'S00010', 'Delivered', '2024-11-04'), ('8850358371343', 'S00008', 'Delivered', '2024-11-05'), ('4902430565578', 'S00002', 'Pending', '2024-11-05'), ('4710731000540', 'S00004', 'Pending', '2024-11-05');</code></li> </ul>
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<b>Check Amount</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE CheckAmount ( PproductID CHAR(13), SstaffID CHAR(6), amountTime TIME NOT NULL, amount INT NOT NULL, amountDate DATE NOT NULL, CONSTRAINT FK_prodID FOREIGN KEY (PproductID) REFERENCES Product(prodID), CONSTRAINT FK_SstaffID FOREIGN KEY (SstaffID) REFERENCES Staff(staffID) );</code></li> <li>• <code>INSERT INTO CheckAmount (PproductID, SstaffID, amountTime, amount, amountDate) VALUES ('4710731000540', 'ST0001', '09:15:00', 325,'2024-11-01'), ('8851932295796', 'ST0002', '10:45:00', 55,'2024-11-02'), ('8850002020245', 'ST0003', '11:30:00', 250,'2024-11-02'), ('3292070100613', 'ST0004', '13:20:00', 992,'2024-11-03'), ('6920354814471', 'ST0009', '14:50:00', 450,'2024-11-03'), ('8851952350796', 'ST0008', '16:00:00', 485,'2024-11-04'), ('4550516705907', 'ST0007', '09:00:00', 98,'2024-11-04'), ('8850718801213', 'ST0008', '11:10:00', 145,'2024-11-05'), ('4800361028004', 'ST0004', '10:15:00', 940,'2024-11-05'), ('8887549037238', 'ST0002', '12:45:00', 85,'2024-11-05'), ('4550516705907', 'ST0002', '09:00:00', 35,'2024-11-01'), ('6920354814471', 'ST0007', '10:23:00', 250,'2024-11-02'), ('4710731000540', 'ST0003', '11:19:00', 25,'2024-11-02'), ('8851932295796', 'ST0009', '13:00:00', 912,'2024-11-03'), ('8850358371343', 'ST0010', '14:10:00', 130,'2024-11-03'), ('3292070100613', 'ST0007', '16:10:00', 125,'2024-11-04'), ('4800361028004', 'ST0009', '09:10:00', 198,'2024-11-04'), ('8850188270106', 'ST0003', '11:13:00', 345,'2024-11-05'), ('8851473006233', 'ST0004', '10:18:00', 440,'2024-11-05'), ('8859242900713', 'ST0002', '12:19:00', 55,'2024-11-05'), ('8850007814528', 'ST0001', '11:15:00', 525,'2024-11-01'), ('6920354814471', 'ST0004', '12:45:00', 75,'2024-11-02'), ('8850718801213', 'ST0003', '13:30:00', 80,'2024-11-02'), ('8851952350796', 'ST0007', '14:20:00', 122,'2024-11-03'), ('3292070100613', 'ST0009', '15:50:00', 230,'2024-11-03'), ('8850329102112', 'ST0008', '17:00:00', 455,'2024-11-04'), ('8887549037238', 'ST0007', '17:30:00', 228,'2024-11-04'), ('8851906883936', 'ST0005', '11:50:00', 745,'2024-11-05'), ('4550516705907', 'ST0005', '10:25:00', 840,'2024-11-05'), ('4710731000540', 'ST0006', '12:45:00', 95,'2024-11-05');</code></li> </ul>
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**Refund**

-  `CREATE TABLE Refund( PprodID CHAR(13), CcustomerID CHAR(6), CONSTRAINT FK_PprodID FOREIGN KEY (PprodID) REFERENCES Product(prodID), CONSTRAINT FK_CcustomerID FOREIGN KEY (CcustomerID) REFERENCES Customer(customerID) );`
- `INSERT INTO Refund(PprodID, CcustomerID) VALUES ('8851932295796', 'C10111'), ('8850718801213', 'C10115'), ('8859242900713', 'C10113'), ('4710731050163', 'C10114'), ('8850002020245', 'C10120'), ('8850329102112', 'C10112'), ('8850188270106', 'C10119'), ('8851952350796', 'C10117'), ('4800361028004', 'C10116'), ('8850358371343', 'C10118'), ('4710731050163', 'C10112'), ('8850002020245', 'C10119'), ('8850329102112', 'C10116'), ('4800361028004', 'C10120'), ('8850358371343', 'C10115'), ('8851952350796', 'C10113'), ('8850188270106', 'C10117'), ('8851932295796', 'C10118'), ('8850718801213', 'C10114'), ('8859242900713', 'C10111'), ('8850188270106', 'C10118'), ('8851932295796', 'C10114'), ('8850718801213', 'C10111'), ('8859242900713', 'C10116'), ('8850002020245', 'C10117'), ('4710731050163', 'C10112'), ('8850002020245', 'C10120'), ('8851952350796', 'C10115'), ('8850329102112', 'C10113'), ('4800361028004', 'C10119');`

**Contain**

-  `CREATE TABLE Contain(`  
 `PprodID CHAR(13),`  
 `OrderID CHAR(6),`  
 `CONSTRAINT FK_PprodID FOREIGN KEY (PprodID)`  
 `REFERENCES Product(prodID),`  
 `CONSTRAINT FK_OrderID FOREIGN KEY (OrderID)`  
 `REFERENCES Orders(orderID)`  
`);`
  
- `INSERT INTO Contain(PprodID, OrderID) VALUES`  
`( '4550516705907', 'OD0009'),`  
`( '8850718801213', 'OD0007'),`  
`( '8851952350796', 'OD0002'),`  
`( '3292070100613', 'OD0005'),`  
`( '4902430565578', 'OD0004'),`  
`( '8851906883936', 'OD0008'),`  
`( '8850007814528', 'OD0010'),`  
`( '8853474056200', 'OD0006'),`  
`( '8851818341401', 'OD0001'),`  
`( '4710731050163', 'OD0003'),`  
`( '8851473006233', 'OD0002'),`  
`( '8887549037238', 'OD0009'),`  
`( '4800361028004', 'OD0007'),`  
`( '8851932295796', 'OD0003'),`  
`( '8859242900713', 'OD0010'),`  
`( '6920354814471', 'OD0001'),`  
`( '8887549037238', 'OD0004'),`  
`( '8850358371343', 'OD0008'),`  
`( '8850718801213', 'OD0006'),`  
`( '8851818341401', 'OD0005'),`  
  
`( '3292070100613', 'OD0005'),`  
`( '8853474056200', 'OD0008'),`  
`( '4710731050163', 'OD0002'),`  
`( '8859242900713', 'OD0003'),`  
`( '8887549037238', 'OD0010'),`  
`( '6920354814471', 'OD0004'),`  
`( '8851906883936', 'OD0007'),`  
`( '8850329102112', 'OD0001'),`  
`( '4550516705907', 'OD0009'),`  
`( '8850007814528', 'OD0006');`

**Have**

-  `CREATE TABLE Have( OrderID CHAR(6), PpromotionID CHAR(6), CONSTRAINT FK_OorderID FOREIGN KEY (OrderID) REFERENCES Orders(orderID), CONSTRAINT FK_PpromotionID FOREIGN KEY (PpromotionID) REFERENCES Promotion(promoID) );`
- `INSERT INTO Have(OrderID, PpromotionID) VALUES ('OD0005', 'PROM09'), ('OD0003', 'PROM08'), ('OD0010', 'PROM06'), ('OD0001', 'PROM10'), ('OD0004', 'PROM02'), ('OD0008', 'PROM05'), ('OD0002', 'PROM07'), ('OD0009', 'PROM04'), ('OD0006', 'PROM03'), ('OD0007', 'PROM01'), ('OD0002', 'PROM07'), ('OD0004', 'PROM06'), ('OD0006', 'PROM04'), ('OD0008', 'PROM02'), ('OD0010', 'PROM09'), ('OD0001', 'PROM10'), ('OD0003', 'PROM01'), ('OD0005', 'PROM08'), ('OD0007', 'PROM03'), ('OD0009', 'PROM05'), ('OD0002', 'PROM07'), ('OD0004', 'PROM09'), ('OD0006', 'PROM08'), ('OD0008', 'PROM06'), ('OD0010', 'PROM10'), ('OD0001', 'PROM01'), ('OD0003', 'PROM03'), ('OD0005', 'PROM02'), ('OD0007', 'PROM04'), ('OD0009', 'PROM05');`

**Make**

-  `CREATE TABLE Make(`  
    `CcashierID CHAR(6),`  
    `OorderrID CHAR(6),`  
    `CcustomerrrID CHAR(6),`  
    `PpaymentID CHAR(6),`  
    `CONSTRAINT FK_CcashierID FOREIGN KEY (CcashierID)`  
        `REFERENCES Cashier(cashierID),`  
    `CONSTRAINT FK_OordersID FOREIGN KEY (OorderrID)`  
        `REFERENCES Orders(orderID),`  
    `CONSTRAINT FK_CcustomerrrID FOREIGN KEY (CcustomerrrID)`  
        `REFERENCES Customer(customerID),`  
    `CONSTRAINT FK_PpaymentID FOREIGN KEY (PpaymentID)`  
        `REFERENCES Payment(payID)`  
    `);`
- `INSERT INTO Make(CcashierID, OorderrID, CcustomerrrID, PpaymentID) VALUES`  
`('CH2102', 'OD0005', 'C10120', 'P00107'),`  
`('CH2105', 'OD0003', 'C10111', 'P00101'),`  
`('CH2107', 'OD0010', 'C10119', 'P00104'),`  
`('CH2110', 'OD0001', 'C10115', 'P00106'),`  
`('CH2103', 'OD0004', 'C10118', 'P00108'),`  
`('CH2104', 'OD0008', 'C10113', 'P00105'),`  
`('CH2101', 'OD0002', 'C10116', 'P00109'),`  
`('CH2109', 'OD0009', 'C10117', 'P00110'),`  
`('CH2108', 'OD0006', 'C10112', 'P00103'),`  
`('CH2106', 'OD0007', 'C10114', 'P00102'),`  
`('CH2104', 'OD0006', 'C10116', 'P00106'),`  
`('CH2107', 'OD0009', 'C10117', 'P00108'),`  
`('CH2106', 'OD0007', 'C10118', 'P00102'),`  
`('CH2108', 'OD0002', 'C10119', 'P00110'),`  
`('CH2105', 'OD0001', 'C10112', 'P00107'),`  
`('CH2109', 'OD0010', 'C10114', 'P00101'),`  
`('CH2110', 'OD0003', 'C10113', 'P00104'),`  
`('CH2101', 'OD0004', 'C10115', 'P00105'),`  
`('CH2102', 'OD0005', 'C10120', 'P00108'),`  
`('CH2103', 'OD0008', 'C10111', 'P00103'),`  
  
`('CH2103', 'OD0007', 'C10111', 'P00105'),`  
`('CH2102', 'OD0010', 'C10112', 'P00109'),`  
`('CH2104', 'OD0006', 'C10113', 'P00106'),`  
`('CH2106', 'OD0004', 'C10114', 'P00108'),`  
`('CH2108', 'OD0002', 'C10120', 'P00103'),`  
`('CH2110', 'OD0005', 'C10119', 'P00104'),`  
`('CH2109', 'OD0001', 'C10117', 'P00107'),`  
`('CH2107', 'OD0003', 'C10115', 'P00101'),`  
`('CH2105', 'OD0008', 'C10118', 'P00102'),`  
`('CH2101', 'OD0009', 'C10116', 'P00110');`

<b>Remove</b>	<ul style="list-style-type: none"> <li>• <code>CREATE TABLE Removes ( PproducttID CHAR(13), SstaffsID CHAR(6), removeTime TIME NOT NULL, removeDate DATE NOT NULL, CONSTRAINT FK_PproducttID FOREIGN KEY(PproducttID) REFERENCES Product(prodID), CONSTRAINT FK_SstaffsID FOREIGN KEY(SstaffsID) REFERENCES Staff(staffID) );</code></li> <li>• <code>INSERT INTO Removes(pproducttID, SstaffsID, removeTime, removedate) VALUES ('8851932295796', 'ST0003', '09:00:00', '2024-11-01'), ('8850188270106', 'ST0005', '09:00:00', '2024-11-01'), ('8850002020245', 'ST0007', '09:00:00', '2024-11-01'), ('8850718801213', 'ST0002', '10:00:00', '2024-11-02'), ('8851932295796', 'ST0009', '11:00:00', '2024-11-02'), ('4800361028004', 'ST0010', '12:00:00', '2024-12-02'), ('8859242900713', 'ST0004', '13:00:00', '2024-12-03'), ('8850329102112', 'ST0006', '06:00:00', '2024-12-03'), ('8850718801213', 'ST0001', '16:00:00', '2024-11-03'), ('4710731050163', 'ST0008', '19:00:00', '2024-11-04'), ('4800361028004', 'ST0007', '07:00:00', '2024-10-04'), ('8850002020245', 'ST0003', '15:00:00', '2024-10-04'), ('8859242900713', 'ST0009', '08:00:00', '2024-12-01'), ('8850188270106', 'ST0010', '08:00:00', '2024-12-01'), ('8850718801213', 'ST0005', '05:00:00', '2024-12-01'), ('8850358371343', 'ST0004', '18:00:00', '2024-12-02'), ('8850358371343', 'ST0006', '19:00:00', '2024-12-02'), ('8851932295796', 'ST0002', '13:00:00', '2024-10-02'), ('4710731050163', 'ST0008', '14:00:00', '2024-10-03'), ('8850358371343', 'ST0001', '09:00:00', '2024-10-03'), ('8850002020245', 'ST0005', '10:00:00', '2024-11-03'), ('8850358371343', 'ST0007', '19:00:00', '2024-11-04'), ('4800361028004', 'ST0009', '09:00:00', '2024-11-04'), ('8859242900713', 'ST0003', '10:00:00', '2024-11-04'), ('8850718801213', 'ST0010', '15:00:00', '2024-09-03'), ('4710731050163', 'ST0004', '10:00:00', '2024-09-03'), ('8850329102112', 'ST0002', '10:00:00', '2024-10-03'), ('8850002020245', 'ST0008', '18:00:00', '2024-11-04'), ('4710731050163', 'ST0006', '09:00:00', '2024-11-04'), ('8850002020245', 'ST0001', '11:00:00', '2024-12-04');</code></li> </ul>
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Add**

```
• CREATE TABLE Adds (
    PproductsID CHAR(13),
    Sstaff_ID CHAR(6),
    addTime TIME NOT NULL,
    addDate DATE NOT NULL,
    CONSTRAINT FK_pproductsID FOREIGN KEY(PproductsID)
        REFERENCES Product(prodID),
    CONSTRAINT FK_sstaff_ID FOREIGN KEY(Sstaff_ID)
        REFERENCES Staff(staffID)
);

• INSERT INTO Adds(PproductsID, Sstaff_ID, addTime, addDate) VALUES
    ("8850358371343", 'ST0003', "10:00:00", "2024-10-01"),
    ("8851932295796", 'ST0005', "09:00:00", "2024-10-01"),
    ("8850002020245", 'ST0008', "09:00:00", "2024-10-01"),
    ("4710731050163", 'ST0001', "10:00:00", "2024-10-02"),
    ("8859242900713", 'ST0007', "11:00:00", "2024-10-02"),
    ("8850718801213", 'ST0002', "10:00:00", "2024-12-02"),
    ("4800361028004", 'ST0010', "13:00:00", "2024-12-03"),
    ("8851952350796", 'ST0004', "00:00:00", "2024-12-03"),
    ("8850329102112", 'ST0009', "16:00:00", "2024-11-03"),
    ("8850188270106", 'ST0006', "19:00:00", "2024-11-04"),
    ("8859242900713", 'ST0005', "07:00:00", "2024-12-04"),
    ("4710731050163", 'ST0008', "15:00:00", "2024-12-04"),
    ("8850358371343", 'ST0002', "08:00:00", "2024-12-01"),
    ("8851932295796", 'ST0001', "10:00:00", "2024-12-01"),
    ("8850002020245", 'ST0006', "05:00:00", "2024-12-01"),
    ("4800361028004", 'ST0009', "08:00:00", "2024-12-02"),
    ("8850188270106", 'ST0003', "19:00:00", "2024-12-02"),
    ("8850718801213", 'ST0007', "13:00:00", "2024-08-02"),
    ("8850329102112", 'ST0010', "14:00:00", "2024-01-03"),
    ("8851952350796", 'ST0004', "09:00:00", "2024-01-03"),

    ("4710731050163", 'ST0008', "10:00:00", "2024-02-03"),
    ("4800361028004", 'ST0005', "19:00:00", "2024-11-04"),
    ("8850358371343", 'ST0006', "09:00:00", "2024-05-04"),
    ("8850329102112", 'ST0009', "10:00:00", "2024-11-04"),
    ("8850002020245", 'ST0001', "15:00:00", "2024-06-03"),
    ("8851932295796", 'ST0007', "10:00:00", "2024-09-03"),
    ("8850188270106", 'ST0002', "10:00:00", "2024-10-03"),
    ("8859242900713", 'ST0003', "18:00:00", "2024-07-04"),
    ("4800361028004", 'ST0004', "09:00:00", "2024-07-04"),
    ("8850358371343", 'ST0008', "11:00:00", "2024-07-04");
```

## Screen captures of each table along with the data in MySQL Server

Table name	Screen capture of table						
<b>Product</b>	prodID	prodName	prodPrice	MFGdate	EXPdate	SsupID	PromoID
	3292070100613	Thammachart Laberyrie Salmon Caviar	690.00	2024-11-01	2024-12-01	S00010	PROM03
	4550516705907	Senka Perfect Whip White	199.00	2024-04-24	2025-10-04	S00008	PROM05
	4710731000540	Farcent Shoe Deodorizer Spray	96.00	2024-10-15	2025-10-14	S00007	NULL
	4710731050163	Farcent Absorb Box	54.00	2023-05-12	2025-01-12	S00006	PROM05
	4800361028004	Nestle Cereal Milo	10.00	2024-06-12	2024-12-05	S00001	PROM06
	4902430565578	Head&Shoulder Apple Fresh Shampoo	109.00	2023-08-04	2025-08-03	S00004	PROM02
	6920354814471	Colgate Optic White	149.00	2023-09-17	2025-09-16	S00003	PROM01
	8850002020245	Kirei Hand Soap Refill	39.00	2023-07-29	2026-05-30	S00009	PROM09
	8850007814528	Listerine Cool Mint Mouthwash	249.00	2024-06-08	2025-06-07	S00006	PROM09
	8850188270106	Foremost UHT Milk Low Fat	47.50	2024-11-10	2024-11-19	S00005	NULL
	8850329102112	Meiji Pasteurized Milk Plain	99.75	2024-11-14	2024-11-23	S00007	NULL
	8850358371343	Mcgarett Instant Oat	55.00	2024-09-09	2025-09-08	S00004	NULL
	8850718801213	Lays Classic Potato Salt	31.00	2024-04-22	2024-12-23	S00002	PROM01
	8851473006233	Sara Paracetamol	15.00	2022-11-02	2027-11-01	S00007	PROM09
	8851818341401	Biore Perfect Cleansing	219.00	2024-03-31	2025-03-30	S00009	PROM05
	8851906883936	Zuza Sparkling Lychee Flavour Drink	35.00	2024-05-23	2025-05-22	S00002	PROM07
	8851932295796	Walls Ice Cream Magnum Classic	50.00	2024-08-15	2025-02-14	S00003	NULL
	8851952350796	Crystal Water Pack 6	55.00	2024-08-10	2025-08-09	S00008	PROM06
	8853474056200	Smarter Moisturizing Nail Polish Remover	55.00	2024-02-10	2025-02-09	S00005	PROM10
	885924900713	Sukishi Green Papaya Kimchi	69.00	2024-11-05	2025-03-04	S00010	PROM04
	8887549037238	Panasonic Black Battery AA Pack 4	69.00	2023-02-06	2023-02-05	S00001	PROM08
<b>Food</b>	PprodID	ingredients	size				
	8851932295796	mile and cocoa	70 g.				
	8850718801213	potato and salt	69 g.				
	885924900713	papaya and gochujang sauce	150 g.				
	8850329102112	milk	2 ltr.				
	8850188270106	milk	1 ltr.				
	8851952350796	water	1.5 ltr.				
	4800361028004	cocoa and wheat	17 g.				
	8850358371343	oat	400 g.				
	3292070100613	Salmon caviar	80 g.				
	8851906883936	Lychee and soda	240 ml.				
<b>Appliance</b>	PprodID	material		brand			
	4710731050163	charcoal		Farcent			
	8850002020245	water and propylene glycol		Kirei			
	8851473006233	Paracetamol		Sara			
	8887549037238	battery		Panasonic			
	6920354814471	Sodium acrylates		Colgate			
	4902430565578	Water and Sodium Lauryl Sulfate		Head&Shoulder			
	8853474056200	Acetone, propylene glycol, and water		Smarter			
	8850007814528	Eucalyptol, menthol, thymol, and water		Listerine			
	4710731000540	Deionized water and Ethanol		Farcent			
<b>Supplier</b>	supID	supName	supLname	compName	supEmail	supTel	
	S00001	Chutiwat	Somboon	SmartLGT Co.,Ltd	smart.Logistics@gmail.com	0882547721	
	S00002	Marin	Ninnakorn	Nexpie Co.Ltd	nexpie@gmail.com	0901123456	
	S00003	Ticha	Jiranant	GIS Co.Ltd	GIS.company@gmail.com	0742896699	
	S00004	Ashira	Suthai	BRABBIT CO.,LTD	brabbit.startup@gmail.com	0614420156	
	S00005	Chet	Kanitkul	VGEN CO.,Ltd	v.gen@gmail.com	0895532425	
	S00006	Danika	Yuyongrak	Chareon Sook Co.,Ltd	chareon.sook@gmail.com	0892889922	
	S00007	Ashirakorn	Pondechapiphat	Maruai Co.,Ltd	maruai.company@gmail.com	0751199596	
	S00008	Kavin	Rattanakul	Rungrueang Co.,Ltd	rung.rueang@gmail.com	0906007173	
	S00009	Chayanon	Phakthin	ThaiSup Co.,Ltd	thai.supplier@gmail.com	0657798182	
	S00010	Worayut	Prasongporn	W.Group Co.,Ltd	w.connect.group@gmail.com	0977890011	

Staff	staffID	staffFname	staffLname	staffGender	staffTel	staffBdate
	ST0001	Pasawee	Sriarunotai	M	0897312428	1987-07-23
	ST0002	Kris	Kanchanatip	M	0954435250	1992-11-25
	ST0003	Pongpol	Panyamit	M	0803326483	2000-10-09
	ST0004	Charissa	Jankane	F	0973737282	1976-02-11
	ST0005	Yada	Wongpaisarn	F	0892218474	1988-12-04
	ST0006	Nattakit	Chaemdara	M	0907492748	2002-06-27
	ST0007	Tatchai	Limpanyakul	M	0648263849	1995-03-18
	ST0008	Dechapat	Pondechaphiphat	M	0861737463	1994-03-15
	ST0009	Alisara	Chareonwat	F	0872374839	2001-05-01
	ST0010	Wasupon	Pornpananurak	M	0942845521	1979-10-06
Promotion	promoID	discount	promo_name	specialoffers	member_bene	StaffID
	PROM01	10	Weekly Special	Buy 1 Get 1 Free	5% Extra Discount	ST0001
	PROM02	15	Holiday Sale	Free Gift with Purchase	10% Cashback	ST0002
	PROM03	20	Member Exclusive	Free Delivery	Double Points	ST0003
	PROM04	25	Clearance Sale	Up to 50% on Selected Items	NULL	ST0004
	PROM05	30	Flash Sale	Limited Time Offer	5% Extra Discount	ST0005
	PROM06	10	Back to School	Free Stationery Kit	5% Extra Points	ST0006
	PROM07	15	Weekend Sale	Buy 2 Get 1 Free	Free Loyalty Points	ST0007
	PROM08	10	Festive Discount	10% Off on Electronics	Extended Warranty	ST0008
	PROM09	25	Health & Wellness	Free Health Kit	Extra 10% on Health Products	ST0009
	PROM10	50	Year-End Clearance	Up to 70% on Clearance Items	NULL	ST0010
Cashier	cashierID	cashierFname	cashierLname	cashierTel	workingHours	cashierBdate
	CH2101	Apichit	Chonlapat	0847721413	Morning	1995-06-16
	CH2102	Somchai	Chatribood	0871563434	Morning	1994-04-25
	CH2103	Paweethida	Srirattanakul	0645643782	Night	1990-02-28
	CH2104	Varee	Deeprasert	0815324563	Morning	1987-11-12
	CH2105	Suwimon	Amornsiri	0834326112	Night	1999-10-21
	CH2106	Suradeth	Chedmontri	0856543432	Night	1992-05-05
	CH2107	Thanyarat	Wattanakriet	0896903211	Morning	2000-09-19
	CH2108	Amornrat	Taweechoke	0956745432	Night	1994-03-26
	CH2109	Ployphat	Junjam	0675436556	Morning	1996-07-14
	CH2110	Theerawat	Chaimonkol	0865546621	Night	1993-10-11
Customer	customerID	customerFname	customerLname	customerBdate	customerGender	customerTel
	C10111	Crystaly	Pinaumphai	1992-04-06	M	0656114709
	C10112	Darin	Srihabuth	1990-03-25	NULL	0897014569
	C10113	Nuttacha	Panpariwat	1997-07-04	M	0956147224
	C10114	Thitiwat	Sangarun	2003-06-04	M	0804669612
	C10115	Patsawee	Siripornsa	1987-02-18	F	0816196687
	C10116	Anyarin	Srihongchai	1995-06-09	F	0802128892
	C10117	Gavin	Dechasiri	1991-10-10	NULL	0697213456
	C10118	Phuwin	Thrirong	1989-02-16	M	0827416573
	C10119	Nicha	Phuwapet	1990-01-21	F	0884667213
	C10120	Thanawat	Sooksomboon na ayutthaya	1985-12-24	NULL	0946491152
Order	orderID	orderName	orderDate	orderTime	orderPrice	
	OD0001	Supermarket Order 1	2024-11-01	2024-11-01 08:15:00	100.00	
	OD0002	Supermarket Order 2	2024-11-01	2024-11-01 08:45:00	150.00	
	OD0003	Supermarket Order 3	2024-11-01	2024-11-01 09:10:00	205.25	
	OD0004	Supermarket Order 4	2024-11-02	2024-11-02 12:00:00	70.00	
	OD0005	Supermarket Order 5	2024-11-02	2024-11-02 13:00:00	1900.75	
	OD0006	Supermarket Order 6	2024-11-02	2024-11-02 14:35:00	2500.00	
	OD0007	Supermarket Order 7	2024-11-02	2024-11-02 18:00:00	450.00	
	OD0008	Supermarket Order 8	2024-11-02	2024-11-02 20:10:00	2333.50	
	OD0009	Supermarket Order 9	2024-11-02	2024-11-02 20:15:00	560.25	
	OD0010	Supermarket Order 10	2024-11-02	2024-11-02 20:30:00	780.00	

Payment	payID	payDate	payTime	slipNo	bankName
P00101	2024-10-01	2024-10-01	09:15:00	SLP00001	Bangkok Bank
P00102	2024-10-01	2024-10-01	10:45:00	SLP00002	UOB Thailand
P00103	2024-10-02	2024-10-02	11:30:00	SLP00003	TMBThanachart Bank
P00104	2024-10-02	2024-10-02	13:20:00	SLP00004	CitiBank
P00105	2024-10-03	2024-10-03	14:50:00	SLP00005	Bank of Ayudhya
P00106	2024-10-03	2024-10-03	16:00:00	SLP00006	Kasikornbank
P00107	2024-10-04	2024-10-04	09:00:00	SLP00007	Bangkok Bank
P00108	2024-10-05	2024-10-05	11:10:00	SLP00008	UOB Thailand
P00109	2024-10-06	2024-10-06	10:15:00	SLP00009	Kasikornbank
P00110	2024-10-06	2024-10-06	12:45:00	SLP00010	Kasikornbank
Deliver	PproductID	SsupplierID	deliverTime	deliverDate	
8851932295796	S00001	2024-11-01	10:30:00	2024-11-01	
8850188270106	S00004	2024-11-01	12:15:00	2024-11-01	
4800361028004	S00003	2024-11-02	09:00:00	2024-11-02	
8850329102112	S00010	2024-11-02	14:45:00	2024-11-02	
8850358371343	S00005	2024-11-03	08:30:00	2024-11-03	
4710731050163	S00006	2024-11-03	13:20:00	2024-11-03	
8850718801213	S00002	2024-11-04	11:10:00	2024-11-04	
4710731050163	S00008	2024-11-04	16:00:00	2024-11-04	
8850188270106	S00009	2024-11-05	09:40:00	2024-11-05	
8850329102112	S00010	2024-11-05	17:30:00	2024-11-05	
8850718801213	S00001	2024-11-06	10:10:00	2024-11-06	
4800361028004	S00002	2024-11-06	14:55:00	2024-11-06	
8851932295796	S00003	2024-11-07	08:45:00	2024-11-07	
8850358371343	S00004	2024-11-07	15:25:00	2024-11-07	
8850718801213	S00005	2024-11-08	12:30:00	2024-11-08	
4800361028004	S00006	2024-11-08	13:50:00	2024-11-08	
8850188270106	S00007	2024-11-09	10:00:00	2024-11-09	
8851932295796	S00008	2024-11-09	14:00:00	2024-11-09	
8850329102112	S00009	2024-11-10	11:30:00	2024-11-10	
4800361028004	S00001	2024-11-10	16:10:00	2024-11-10	
4710731050163	S00003	2024-11-11	08:55:00	2024-11-11	
4710731050163	S00002	2024-11-11	14:40:00	2024-11-11	
8850188270106	S00003	2024-11-12	09:20:00	2024-11-12	
4800361028004	S00004	2024-11-12	12:50:00	2024-11-12	
8850329102112	S00005	2024-11-13	10:15:00	2024-11-13	
8851932295796	S00006	2024-11-13	11:50:00	2024-11-13	
8850358371343	S00007	2024-11-14	10:00:00	2024-11-14	
4800361028004	S00008	2024-11-14	15:30:00	2024-11-14	
8850188270106	S00009	2024-11-15	09:10:00	2024-11-15	
8851932295796	S00001	2024-11-15	16:20:00	2024-11-15	

Check	PproductID	SsupplierID	statuss	checkDate
	8850358371343	S00001	Delivered	2024-11-01
	8851906883936	S00002	Pending	2024-11-02
	4710731000540	S00003	Delivered	2024-11-02
	4902430565578	S00004	In Transit	2024-11-03
	8853474056200	S00005	In Transit	2024-11-03
	8850007814528	S00006	Delivered	2024-11-04
	8851473006233	S00007	Pending	2024-11-04
	4550516705907	S00008	Delivered	2024-11-05
	8851818341401	S00009	In Transit	2024-11-05
	3292070100613	S00010	In Transit	2024-11-05
	8850329102112	S00001	Pending	2024-11-01
	4800361028004	S00003	Pending	2024-11-03
	8850188270106	S00005	Delivered	2024-11-02
	8850358371343	S00004	In Transit	2024-11-03
	4710731000540	S00009	Pending	2024-11-03
	3292070100613	S00007	Delivered	2024-11-05
	8850007814528	S00006	In Transit	2024-11-03
	8851952350796	S00008	In Transit	2024-11-05
	8859242900713	S00010	Delivered	2024-11-04
	6920354814471	S00003	Delivered	2024-11-05
	8850002020245	S00008	In Transit	2024-11-01
	4800361028004	S00003	Delivered	2024-11-02
	8850007814528	S00006	Delivered	2024-11-02
	3292070100613	S00007	Delivered	2024-11-03
	8851952350796	S00008	Pending	2024-11-03
	6920354814471	S00007	Delivered	2024-11-04
	8859242900713	S00010	Delivered	2024-11-04
	8850358371343	S00008	Delivered	2024-11-05
	4902430565578	S00002	Pending	2024-11-05
	4710731000540	S00004	Pending	2024-11-05

Check Amount	PproductID	SstaffID	amountTime	amount	amountDate
	4710731000540	ST0001	09:15:00	325	2024-11-01
	8851932295796	ST0002	10:45:00	55	2024-11-02
	8850002020245	ST0003	11:30:00	250	2024-11-02
	3292070100613	ST0004	13:20:00	992	2024-11-03
	6920354814471	ST0009	14:50:00	450	2024-11-03
	8851952350796	ST0008	16:00:00	485	2024-11-04
	4550516705907	ST0007	09:00:00	98	2024-11-04
	8850718801213	ST0008	11:10:00	145	2024-11-05
	4800361028004	ST0004	10:15:00	940	2024-11-05
	8887549037238	ST0002	12:45:00	85	2024-11-05
	4550516705907	ST0002	09:00:00	35	2024-11-01
	6920354814471	ST0007	10:23:00	250	2024-11-02
	4710731000540	ST0003	11:19:00	25	2024-11-02
	8851932295796	ST0009	13:00:00	912	2024-11-03
	8850358371343	ST0010	14:10:00	130	2024-11-03
	3292070100613	ST0007	16:10:00	125	2024-11-04
	4800361028004	ST0009	09:10:00	198	2024-11-04
	8850188270106	ST0003	11:13:00	345	2024-11-05
	8851473006233	ST0004	10:18:00	440	2024-11-05
	8859242900713	ST0002	12:19:00	55	2024-11-05
	8850007814528	ST0001	11:15:00	525	2024-11-01
	6920354814471	ST0004	12:45:00	75	2024-11-02
	8850718801213	ST0003	13:30:00	80	2024-11-02
	8851952350796	ST0007	14:20:00	122	2024-11-03
	3292070100613	ST0009	15:50:00	230	2024-11-03
	8850329102112	ST0008	17:00:00	455	2024-11-04
	8887549037238	ST0007	17:30:00	228	2024-11-04
	8851906883936	ST0005	11:50:00	745	2024-11-05
	4550516705907	ST0005	10:25:00	840	2024-11-05
	4710731000540	ST0006	12:45:00	95	2024-11-05
Refund	PproddID	CcustomerID			
	8851932295796	C10111			
	8850718801213	C10115			
	8859242900713	C10113			
	4710731050163	C10114			
	8850002020245	C10120			
	8850329102112	C10112			
	8850188270106	C10119			
	8851952350796	C10117			
	4800361028004	C10116			
	8850358371343	C10118			
	4710731050163	C10112			
	8850002020245	C10119			
	8850329102112	C10116			
	4800361028004	C10120			
	8850358371343	C10115			
	8851952350796	C10113			
	8850188270106	C10117			
	8851932295796	C10118			
	8850718801213	C10114			
	8859242900713	C10111			

	8850188270106	C10118
	8851932295796	C10114
	8850718801213	C10111
	8859242900713	C10116
	8850002020245	C10117
	4710731050163	C10112
	8850002020245	C10120
	8851952350796	C10115
	8850329102112	C10113
	4800361028004	C10119
Contain	PproddID	OrderID
	4550516705907	OD0009
	8850718801213	OD0007
	8851952350796	OD0002
	3292070100613	OD0005
	4902430565578	OD0004
	8851906883936	OD0008
	8850007814528	OD0010
	8853474056200	OD0006
	8851818341401	OD0001
	4710731050163	OD0003
	8851473006233	OD0002
	8887549037238	OD0009
	4800361028004	OD0007
	8851932295796	OD0003
	8859242900713	OD0010
	6920354814471	OD0001
	8887549037238	OD0004
	8850358371343	OD0008
	8850718801213	OD0006
	8851818341401	OD0005
	3292070100613	OD0005
	8853474056200	OD0008
	4710731050163	OD0002
	8859242900713	OD0003
	8887549037238	OD0010
	6920354814471	OD0004
	8851906883936	OD0007
	8850329102112	OD0001
	4550516705907	OD0009
	8850007814528	OD0006

<b>Have</b>	OrderID	PpromotionID		
	OD0005	PROM09		
	OD0003	PROM08		
	OD0010	PROM06		
	OD0001	PROM10		
	OD0004	PROM02		
	OD0008	PROM05		
	OD0002	PROM07		
	OD0009	PROM04		
	OD0006	PROM03		
	OD0007	PROM01		
	OD0002	PROM07		
	OD0004	PROM06		
	OD0006	PROM04		
	OD0008	PROM02		
	OD0010	PROM09		
	OD0001	PROM10		
	OD0003	PROM01		
	OD0005	PROM08		
	OD0007	PROM03		
	OD0009	PROM05		
	OD0002	PROM07		
	OD0004	PROM09		
	OD0006	PROM08		
	OD0008	PROM06		
	OD0010	PROM10		
	OD0001	PROM01		
	OD0003	PROM03		
	OD0005	PROM02		
	OD0007	PROM04		
	OD0009	PROM05		
<b>Make</b>	CcashierID	OorderrID	CcustomerrID	PpaymentID
	CH2102	OD0005	C10120	P00107
	CH2105	OD0003	C10111	P00101
	CH2107	OD0010	C10119	P00104
	CH2110	OD0001	C10115	P00106
	CH2103	OD0004	C10118	P00108
	CH2104	OD0008	C10113	P00105
	CH2101	OD0002	C10116	P00109
	CH2109	OD0009	C10117	P00110
	CH2108	OD0006	C10112	P00103
	CH2106	OD0007	C10114	P00102
	CH2104	OD0006	C10116	P00106
	CH2107	OD0009	C10117	P00108
	CH2106	OD0007	C10118	P00102
	CH2108	OD0002	C10119	P00110
	CH2105	OD0001	C10112	P00107
	CH2109	OD0010	C10114	P00101
	CH2110	OD0003	C10113	P00104
	CH2101	OD0004	C10115	P00105
	CH2102	OD0005	C10120	P00108
	CH2103	OD0008	C10111	P00103
	CH2103	OD0007	C10111	P00105

	CH2102	OD0010	C10112	P00109
	CH2104	OD0006	C10113	P00106
	CH2106	OD0004	C10114	P00108
	CH2108	OD0002	C10120	P00103
	CH2110	OD0005	C10119	P00104
	CH2109	OD0001	C10117	P00107
	CH2107	OD0003	C10115	P00101
	CH2105	OD0008	C10118	P00102
	CH2101	OD0009	C10116	P00110
Remove	pproductID	SstaffsID	removeTime	removedate
	8851932295796	ST0003	09:00:00	2024-11-01
	8850188270106	ST0005	09:00:00	2024-11-01
	8850002020245	ST0007	09:00:00	2024-11-01
	8850718801213	ST0002	10:00:00	2024-11-02
	8851932295796	ST0009	11:00:00	2024-11-02
	4800361028004	ST0010	12:00:00	2024-12-02
	8859242900713	ST0004	13:00:00	2024-12-03
	8850329102112	ST0006	06:00:00	2024-12-03
	8850718801213	ST0001	16:00:00	2024-11-03
	4710731050163	ST0008	19:00:00	2024-11-04
	4800361028004	ST0007	07:00:00	2024-10-04
	8850002020245	ST0003	15:00:00	2024-10-04
	8859242900713	ST0009	08:00:00	2024-12-01
	8850188270106	ST0010	08:00:00	2024-12-01
	8850718801213	ST0005	05:00:00	2024-12-01
	8850358371343	ST0004	18:00:00	2024-12-02
	8850358371343	ST0006	19:00:00	2024-12-02
	8851932295796	ST0002	13:00:00	2024-10-02
	4710731050163	ST0008	14:00:00	2024-10-03
	8850358371343	ST0001	09:00:00	2024-10-03
	8850002020245	ST0005	10:00:00	2024-11-03
	8850358371343	ST0007	19:00:00	2024-11-04
	4800361028004	ST0009	09:00:00	2024-11-04
	8859242900713	ST0003	10:00:00	2024-11-04
	8850718801213	ST0010	15:00:00	2024-09-03
	4710731050163	ST0004	10:00:00	2024-09-03
	8850329102112	ST0002	10:00:00	2024-10-03
	8850002020245	ST0008	18:00:00	2024-11-04
	4710731050163	ST0006	09:00:00	2024-11-04
	8850002020245	ST0001	11:00:00	2024-12-04

Add	PproductsID	Sstaff_ID	addTime	addDate
	8850358371343	ST0003	10:00:00	2024-10-01
	8851932295796	ST0005	09:00:00	2024-10-01
	8850002020245	ST0008	09:00:00	2024-10-01
	4710731050163	ST0001	10:00:00	2024-10-02
	8859242900713	ST0007	11:00:00	2024-10-02
	8850718801213	ST0002	10:00:00	2024-12-02
	4800361028004	ST0010	13:00:00	2024-12-03
	8851952350796	ST0004	00:00:00	2024-12-03
	8850329102112	ST0009	16:00:00	2024-11-03
	8850188270106	ST0006	19:00:00	2024-11-04
	8859242900713	ST0005	07:00:00	2024-12-04
	4710731050163	ST0008	15:00:00	2024-12-04
	8850358371343	ST0002	08:00:00	2024-12-01
	8851932295796	ST0001	10:00:00	2024-12-01
	8850002020245	ST0006	05:00:00	2024-12-01
	4800361028004	ST0009	08:00:00	2024-12-02
	8850188270106	ST0003	19:00:00	2024-12-02
	8850718801213	ST0007	13:00:00	2024-08-02
	8850329102112	ST0010	14:00:00	2024-01-03
	8851952350796	ST0004	09:00:00	2024-01-03
	4710731050163	ST0008	10:00:00	2024-02-03
	4800361028004	ST0005	19:00:00	2024-11-04
	8850358371343	ST0006	09:00:00	2024-05-04
	8850329102112	ST0009	10:00:00	2024-11-04
	8850002020245	ST0001	15:00:00	2024-06-03
	8851932295796	ST0007	10:00:00	2024-09-03
	8850188270106	ST0002	10:00:00	2024-10-03
	8859242900713	ST0003	18:00:00	2024-07-04
	4800361028004	ST0004	09:00:00	2024-07-04
	8850358371343	ST0008	11:00:00	2024-07-04

## Query Description

- **6688069 Worasuda Ngamyingsurat**

<b>Query # 1</b>	List of products that have promotion and will be expired in 2024.																			
<b>Owner</b>	6688069 Worasuda Ngamyingsurat																			
<b>Objective</b>	To display the products that have promotion, which will be expired in year 2024, including product ID, product name, expired date and sorted by product ID.																			
<b>Query</b>	<pre>SELECT prodID, prodName, EXPdate, PpromoID FROM product WHERE YEAR(EXPdate) = YEAR(CURDATE()) AND PpromoID IS NOT NULL ORDER BY prodID ASC;</pre>																			
<b>Result</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>prodID</th> <th>prodName</th> <th>EXPdate</th> <th>PpromoID</th> </tr> </thead> <tbody> <tr> <td>3292070100613</td> <td>Thammachart Laberyrie Salmon Caviar</td> <td>2024-12-01</td> <td>PROM03</td> </tr> <tr> <td>4800361028004</td> <td>Nestle Cereal Milo</td> <td>2024-12-05</td> <td>PROM06</td> </tr> <tr> <td>8850718801213</td> <td>Lays Classic Potato Salt</td> <td>2024-12-23</td> <td>PROM01</td> </tr> </tbody> </table>				prodID	prodName	EXPdate	PpromoID	3292070100613	Thammachart Laberyrie Salmon Caviar	2024-12-01	PROM03	4800361028004	Nestle Cereal Milo	2024-12-05	PROM06	8850718801213	Lays Classic Potato Salt	2024-12-23	PROM01
prodID	prodName	EXPdate	PpromoID																	
3292070100613	Thammachart Laberyrie Salmon Caviar	2024-12-01	PROM03																	
4800361028004	Nestle Cereal Milo	2024-12-05	PROM06																	
8850718801213	Lays Classic Potato Salt	2024-12-23	PROM01																	

<b>Query # 2</b>	List of male staffs who was born before year 2000.																											
<b>Owner</b>	6688069 Worasuda Ngamyingsurat																											
<b>Objective</b>	To display the staffs who was born before year 2000 and is male, including staff ID, staff name (first name and last name), staff birth date, staff's telephone number, and sorted by staff ID.																											
<b>Query</b>	<pre>SELECT staffID, CONCAT(staffFname, ' ', staffLname) AS 'Staff name', staffBdate, staffTel FROM staff WHERE staffGender = 'M' AND YEAR(staffBdate) &lt; 2000 ORDER BY staffID ASC;</pre>																											
<b>Result</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>staffID</th> <th>Staff name</th> <th>staffBdate</th> <th>staffTel</th> </tr> </thead> <tbody> <tr> <td>ST0001</td> <td>Pasawee Sriarunotai</td> <td>1987-07-23</td> <td>0897312428</td> </tr> <tr> <td>ST0002</td> <td>Kris Kanchanatip</td> <td>1992-11-25</td> <td>0954435250</td> </tr> <tr> <td>ST0007</td> <td>Tatchai Limpanyakul</td> <td>1995-03-18</td> <td>0648263849</td> </tr> <tr> <td>ST0008</td> <td>Dechapat Pondechaphiphat</td> <td>1994-03-15</td> <td>0861737463</td> </tr> <tr> <td>ST0010</td> <td>Wasupon Pornpananurak</td> <td>1979-10-06</td> <td>0942845521</td> </tr> </tbody> </table>				staffID	Staff name	staffBdate	staffTel	ST0001	Pasawee Sriarunotai	1987-07-23	0897312428	ST0002	Kris Kanchanatip	1992-11-25	0954435250	ST0007	Tatchai Limpanyakul	1995-03-18	0648263849	ST0008	Dechapat Pondechaphiphat	1994-03-15	0861737463	ST0010	Wasupon Pornpananurak	1979-10-06	0942845521
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ST0010	Wasupon Pornpananurak	1979-10-06	0942845521																									

<b>Query # 3</b>	Find the date that have average price of order exceeds 1000 in one day.			
<b>Owner</b>	6688069 Worasuda Ngamyingsurat			
<b>Objective</b>	To calculate the average price of orders in each day and display the date that have average price exceeds 1000, including order date and total price.			
<b>Query</b>	<pre>SELECT orderDate, ROUND(AVG(orderPrice), 2) AS 'Average price of orders' FROM orders GROUP BY orderDate HAVING AVG(orderPrice) &gt; 1000;</pre>			

<b>Result</b>	orderDate   Average price of orders
	2024-11-02   1227.79

<b>Query # 4</b>	List of transactions that cashiers who work in the morning make.																																																															
<b>Owner</b>	6688069 Worasuda Ngamyingsurat																																																															
<b>Objective</b>	To display the list of transactions of cashier who work in the morning have made (make table) by including cashier ID, cashier name (first name and last name), order price, bank name, and sorted by cashier ID.																																																															
<b>Query</b>	<pre> SELECT DISTINCT c.cashierID, CONCAT(c.cashierFname, '', c.cashierLname) AS 'Cashier name', o.orderPrice, p.bankName FROM make m INNER JOIN orders o ON m.OorderID = o.orderID INNER JOIN payment p ON m.PpaymentID = p.payID INNER JOIN cashier c ON m.CcashierID = c.cashierID WHERE c.workingHours = 'Morning' ORDER BY c.cashierID; </pre>																																																															
<b>Result</b>	<table border="1"> <thead> <tr> <th>cashierID</th> <th>Cashier name</th> <th>orderPrice</th> <th>bankName</th> </tr> </thead> <tbody> <tr><td>CH2101</td><td>Apichit Chonlapat</td><td>150.00</td><td>Kasikornbank</td></tr> <tr><td>CH2101</td><td>Apichit Chonlapat</td><td>70.00</td><td>Bank of Ayudhya</td></tr> <tr><td>CH2101</td><td>Apichit Chonlapat</td><td>560.25</td><td>Kasikornbank</td></tr> <tr><td>CH2102</td><td>Somchai Chatribood</td><td>1900.75</td><td>Bangkok Bank</td></tr> <tr><td>CH2102</td><td>Somchai Chatribood</td><td>1900.75</td><td>UOB Thailand</td></tr> <tr><td>CH2102</td><td>Somchai Chatribood</td><td>780.00</td><td>Kasikornbank</td></tr> <tr><td>CH2104</td><td>Varee Deepraserth</td><td>2333.50</td><td>Bank of Ayudhya</td></tr> <tr><td>CH2104</td><td>Varee Deepraserth</td><td>2500.00</td><td>Kasikornbank</td></tr> <tr><td>CH2107</td><td>Thanyarat Wattanakriet</td><td>780.00</td><td>CitiBank</td></tr> <tr><td>CH2107</td><td>Thanyarat Wattanakriet</td><td>560.25</td><td>UOB Thailand</td></tr> <tr><td>CH2107</td><td>Thanyarat Wattanakriet</td><td>205.25</td><td>Bangkok Bank</td></tr> <tr><td>CH2109</td><td>Ployphat Junjam</td><td>560.25</td><td>Kasikornbank</td></tr> <tr><td>CH2109</td><td>Ployphat Junjam</td><td>780.00</td><td>Bangkok Bank</td></tr> <tr><td>CH2109</td><td>Ployphat Junjam</td><td>100.00</td><td>Bangkok Bank</td></tr> </tbody> </table>				cashierID	Cashier name	orderPrice	bankName	CH2101	Apichit Chonlapat	150.00	Kasikornbank	CH2101	Apichit Chonlapat	70.00	Bank of Ayudhya	CH2101	Apichit Chonlapat	560.25	Kasikornbank	CH2102	Somchai Chatribood	1900.75	Bangkok Bank	CH2102	Somchai Chatribood	1900.75	UOB Thailand	CH2102	Somchai Chatribood	780.00	Kasikornbank	CH2104	Varee Deepraserth	2333.50	Bank of Ayudhya	CH2104	Varee Deepraserth	2500.00	Kasikornbank	CH2107	Thanyarat Wattanakriet	780.00	CitiBank	CH2107	Thanyarat Wattanakriet	560.25	UOB Thailand	CH2107	Thanyarat Wattanakriet	205.25	Bangkok Bank	CH2109	Ployphat Junjam	560.25	Kasikornbank	CH2109	Ployphat Junjam	780.00	Bangkok Bank	CH2109	Ployphat Junjam	100.00	Bangkok Bank
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<b>Query # 5</b>	List of products and promotion details.			
<b>Owner</b>	6688069 Worasuda Ngamyingsurat			
<b>Objective</b>	Use left outer join to display the product and promotion detail of each product which product ID starts with '88', including product ID, product name, promotion name, discount, and sorted by product ID.			
<b>Query</b>	<pre> SELECT p.prodID, p.prodName, m.promo_name, CONCAT(m.discount, '%') AS 'Discount' FROM product p LEFT OUTER JOIN promotion m ON p.PromoID = m.promoID WHERE p.prodID LIKE '88%' ORDER BY p.prodID ASC; </pre>			

Result	prodID	prodName	promo_name	Discount
8850002020245	Kirei Hand Soap Refill	Health & Wellness	25%	
8850007814528	Listerine Cool Mint Mouthwash	Health & Wellness	25%	
8850188270106	Foremost UHT Milk Low Fat	NULL	NULL	
8850329102112	Meiji Pasteurized Milk Plain	NULL	NULL	
8850358371343	Mcgarett Instant Oat	NULL	NULL	
8850718801213	Lays Classic Potato Salt	Weekly Special	10%	
8851473006233	Sara Paracetamol	Health & Wellness	25%	
8851818341401	Biore Perfect Cleansing	Flash Sale	30%	
8851906883936	Zuza Sparkling Lychee Flavour Drink	Weekend Sale	15%	
8851932295796	Walls Ice Cream Magnum Classic	NULL	NULL	
8851952350796	Crystal Water Pack 6	Back to School	10%	
8853474056200	Smarter Moisturizing Nail Polish Re...	Year-End Cleara...	50%	
8859242900713	Sukishi Green Papaya Kimchi	Clearance Sale	25%	
8887549037238	Panasonic Black Battery AA Pack 4	Festive Discount	10%	

- **6688072 Kemjira Nugboon**

Query # 6	The List of female customers who has age more than 25 years old, sorted by the youngest to the oldest.														
Owner	6688072 Kemjira Nugboon														
Objective	To display a customer older than 25 years old which are woman including customer ID, full name, and ages, sorted from youngest to oldest.														
Query	<pre>SELECT customerID,concat(customerFname, " ",customerLname) AS Name, (year(curdate())-year(customerBdate)) AS Age FROM Customer WHERE (year(curdate())-year(customerBdate)) &gt; 25 AND customerGender= 'F' ORDER BY Age ASC;</pre>														
Result	<table border="1"> <thead> <tr> <th>customerID</th> <th>Name</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>C10116</td> <td>Anyarin Srithongchai</td> <td>29</td> </tr> <tr> <td>C10119</td> <td>Nicha Phuwadet</td> <td>34</td> </tr> <tr> <td>C10115</td> <td>Patsawee Siripornsak</td> <td>37</td> </tr> </tbody> </table>			customerID	Name	Age	C10116	Anyarin Srithongchai	29	C10119	Nicha Phuwadet	34	C10115	Patsawee Siripornsak	37
customerID	Name	Age													
C10116	Anyarin Srithongchai	29													
C10119	Nicha Phuwadet	34													
C10115	Patsawee Siripornsak	37													

Query # 7	Round the order price and sorted by the highest price to lowest price.																								
Owner	6688072 Kemjira Nugboon																								
Objective	To display the order ID with their rounded prices, sorted by the highest price to lowest price.																								
Query	<pre>SELECT orderID,ROUND(orderPrice) as Price FROM ORDERS ORDER BY orderPrice DESC;</pre>																								
Result	<table border="1"> <thead> <tr> <th>orderID</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>OD0006</td> <td>2500</td> </tr> <tr> <td>OD0008</td> <td>2334</td> </tr> <tr> <td>OD0005</td> <td>1901</td> </tr> <tr> <td>OD0010</td> <td>780</td> </tr> <tr> <td>OD0009</td> <td>560</td> </tr> <tr> <td>OD0007</td> <td>450</td> </tr> <tr> <td>OD0003</td> <td>205</td> </tr> <tr> <td>OD0002</td> <td>150</td> </tr> <tr> <td>OD0001</td> <td>100</td> </tr> <tr> <td>OD0004</td> <td>70</td> </tr> </tbody> </table>			orderID	Price	OD0006	2500	OD0008	2334	OD0005	1901	OD0010	780	OD0009	560	OD0007	450	OD0003	205	OD0002	150	OD0001	100	OD0004	70
orderID	Price																								
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OD0004	70																								

<b>Query # 8</b>	Calculate the total of Amount for each product for date 2024-11-05 that total of product is greater than 500.								
<b>Owner</b>	6688072 Kemjira Nugboon								
<b>Objective</b>	Calculate the total sales amount for each product on 2024-11-05 and filter the results to include only those products whose total sales amount exceeds 500.								
<b>Query</b>	<pre>SELECT PproductID,SUM(amount) AS total_amount FROM CheckAmount WHERE amountDate ='2024-11-05' GROUP BY PproductID HAVING total_amount &gt; 500;</pre>								
<b>Result</b>	<table border="1"> <thead> <tr> <th>PproductID</th> <th>total_amount</th> </tr> </thead> <tbody> <tr> <td>4550516705907</td> <td>840</td> </tr> <tr> <td>4800361028004</td> <td>940</td> </tr> <tr> <td>8851906883936</td> <td>745</td> </tr> </tbody> </table>	PproductID	total_amount	4550516705907	840	4800361028004	940	8851906883936	745
PproductID	total_amount								
4550516705907	840								
4800361028004	940								
8851906883936	745								

<b>Query # 9</b>	Find product that need to refund.																																	
<b>Owner</b>	6688072 Kemjira Nugboon																																	
<b>Objective</b>	To identify the products that require a refund by retrieving their unique identifiers, names, and prices from the database through a join operation between the Product and Refund tables.																																	
<b>Query</b>	<pre>SELECT DISTINCT prodID,prodName,prodPrice FROM Product p INNER JOIN Refund r ON p.prodID = r.PproddID;</pre>																																	
<b>Result</b>	<table border="1"> <thead> <tr> <th>prodID</th> <th>prodName</th> <th>prodPrice</th> </tr> </thead> <tbody> <tr> <td>4710731050163</td> <td>Farcent Absorb Box</td> <td>54.00</td> </tr> <tr> <td>4800361028004</td> <td>Nestle Cereal Milo</td> <td>10.00</td> </tr> <tr> <td>8850002020245</td> <td>Kirei Hand Soap Refill</td> <td>39.00</td> </tr> <tr> <td>8850188270106</td> <td>Foremost UHT Milk Low Fat</td> <td>47.50</td> </tr> <tr> <td>8850329102112</td> <td>Meiji Pasteurized Milk Plain</td> <td>99.75</td> </tr> <tr> <td>8850358371343</td> <td>Mcgarrett Instant Oat</td> <td>55.00</td> </tr> <tr> <td>8850718801213</td> <td>Lays Classic Potato Salt</td> <td>31.00</td> </tr> <tr> <td>8851932295796</td> <td>Walle Ice Cream Magnum Classic</td> <td>50.00</td> </tr> <tr> <td>8851952350796</td> <td>Crystal Water Pack 6</td> <td>55.00</td> </tr> <tr> <td>8859242900713</td> <td>Sukishi Green Papaya Kimchi</td> <td>69.00</td> </tr> </tbody> </table>	prodID	prodName	prodPrice	4710731050163	Farcent Absorb Box	54.00	4800361028004	Nestle Cereal Milo	10.00	8850002020245	Kirei Hand Soap Refill	39.00	8850188270106	Foremost UHT Milk Low Fat	47.50	8850329102112	Meiji Pasteurized Milk Plain	99.75	8850358371343	Mcgarrett Instant Oat	55.00	8850718801213	Lays Classic Potato Salt	31.00	8851932295796	Walle Ice Cream Magnum Classic	50.00	8851952350796	Crystal Water Pack 6	55.00	8859242900713	Sukishi Green Papaya Kimchi	69.00
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8851952350796	Crystal Water Pack 6	55.00																																
8859242900713	Sukishi Green Papaya Kimchi	69.00																																

<b>Query # 10</b>	List staff who remove data.
<b>Owner</b>	6688072 Kemjira Nugboon
<b>Objective</b>	To list all staff who have removed data, showing their ID, name, product ID, and removal date and time.
<b>Query</b>	<pre>SELECT s.staffID,concat(staffFname, " ",staffLname) as Name,PproductID,removeTime,removeDate FROM Staff s LEFT OUTER JOIN Removes r ON s.staffID = r.SstaffsID;</pre>

Result	staffID	Name	PproductID	removeTime	removeDate
	ST0001	Pasawee Sriarunotai	8850718801213	16:00:00	2024-11-03
	ST0001	Pasawee Sriarunotai	8850358371343	09:00:00	2024-10-03
	ST0001	Pasawee Sriarunotai	8850002020245	11:00:00	2024-12-04
	ST0002	Kris Kanchanatip	8850718801213	10:00:00	2024-11-02
	ST0002	Kris Kanchanatip	8851932295796	13:00:00	2024-10-02
	ST0002	Kris Kanchanatip	8850329102112	10:00:00	2024-10-03
	ST0003	Pongpol Panyamit	8851932295796	09:00:00	2024-11-01
	ST0003	Pongpol Panyamit	8850002020245	15:00:00	2024-10-04
	ST0003	Pongpol Panyamit	8859242900713	10:00:00	2024-11-04
	ST0004	Charissa Jankane	8859242900713	13:00:00	2024-12-03
	ST0004	Charissa Jankane	8850358371343	18:00:00	2024-12-02
	ST0004	Charissa Jankane	4710731050163	10:00:00	2024-09-03
	ST0005	Yada Wongpaisarn	8850188270106	09:00:00	2024-11-01
	ST0005	Yada Wongpaisarn	8850718801213	05:00:00	2024-12-01
	ST0005	Yada Wongpaisarn	8850002020245	10:00:00	2024-11-03
	ST0006	Nattakit Chaemdara	8850329102112	06:00:00	2024-12-03
	ST0006	Nattakit Chaemdara	8850358371343	19:00:00	2024-12-02
	ST0006	Nattakit Chaemdara	4710731050163	09:00:00	2024-11-04
	ST0007	Tatchai Limpanyakul	8850002020245	09:00:00	2024-11-01
	ST0007	Tatchai Limpanyakul	4800361028004	07:00:00	2024-10-04
	ST0007	Tatchai Limpanyakul	8850358371343	19:00:00	2024-11-04
	ST0008	Dechapat Pondech...	4710731050163	19:00:00	2024-11-04
	ST0008	Dechapat Pondech...	4710731050163	14:00:00	2024-10-03
	ST0008	Dechapat Pondech...	8850002020245	18:00:00	2024-11-04
	ST0009	Alisara Chareonwat	8851932295796	11:00:00	2024-11-02
	ST0009	Alisara Chareonwat	8859242900713	08:00:00	2024-12-01
	ST0009	Alisara Chareonwat	4800361028004	09:00:00	2024-11-04
	ST0010	Wasupon Pornpan...	4800361028004	12:00:00	2024-12-02
	ST0010	Wasupon Pornpan...	8850188270106	08:00:00	2024-12-01
	ST0010	Wasupon Pornpan...	8850718801213	15:00:00	2024-09-03

- **6688099 Nuttanee Reamprasert**

Query # 11	List of Promotion that have Name start with "H" and discount more than 15%															
Owner	6688099 Nuttanee Reamprasert															
Objective	To display List of Promotion that have Name start with "H" and discount more than 15%															
Query	SELECT promo_name , discount, specialoffers, member_bene FROM Promotion WHERE promo_name LIKE "H%" AND discount >= 15;															
Result	<table border="1"> <thead> <tr> <th>promo_name</th> <th>discount</th> <th>specialoffers</th> <th>member_bene</th> </tr> </thead> <tbody> <tr><td>Holiday Sale</td><td>15</td><td>Free Gift with Purchase</td><td>10% Cashback</td></tr> <tr><td>Health &amp; Wellness</td><td>25</td><td>Free Health Kit</td><td>Extra 10% on Health Products</td></tr> </tbody> </table>				promo_name	discount	specialoffers	member_bene	Holiday Sale	15	Free Gift with Purchase	10% Cashback	Health & Wellness	25	Free Health Kit	Extra 10% on Health Products
promo_name	discount	specialoffers	member_bene													
Holiday Sale	15	Free Gift with Purchase	10% Cashback													
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Query # 12	List customer full and upper name																																			
Owner	6688099 Nuttanee Reamprasert																																			
Objective	To display customer ID ,full name and Gender																																			
Query	SELECT customerID,UPPER(CONCAT(customerFname," ",customerLname)) AS CustomerFullName, customerGender FROM Customer;																																			
Result	<table border="1"> <thead> <tr> <th>customerID</th> <th>CustomerFullName</th> <th>customerGend...</th> </tr> </thead> <tbody> <tr><td>C10111</td><td>CRYSTALYN PINAUMPHAI</td><td>M</td></tr> <tr><td>C10112</td><td>DARIN SRIHABUTH</td><td>NULL</td></tr> <tr><td>C10113</td><td>NUTTACHA PANPARIWAT</td><td>M</td></tr> <tr><td>C10114</td><td>THITIWAT SANGARUN</td><td>M</td></tr> <tr><td>C10115</td><td>PATSAWEE SIRIPORNSAK</td><td>F</td></tr> <tr><td>C10116</td><td>ANYARIN SRITHONGCHAI</td><td>F</td></tr> <tr><td>C10117</td><td>GAVIN DECHASIRI</td><td>NULL</td></tr> <tr><td>C10118</td><td>PHUWIN THIRIENG</td><td>M</td></tr> <tr><td>C10119</td><td>NICHA PHUWADET</td><td>F</td></tr> <tr><td>C10120</td><td>THANAWAT SOOKSOMBOON NA AYUTTHAYA</td><td>NULL</td></tr> </tbody> </table>			customerID	CustomerFullName	customerGend...	C10111	CRYSTALYN PINAUMPHAI	M	C10112	DARIN SRIHABUTH	NULL	C10113	NUTTACHA PANPARIWAT	M	C10114	THITIWAT SANGARUN	M	C10115	PATSAWEE SIRIPORNSAK	F	C10116	ANYARIN SRITHONGCHAI	F	C10117	GAVIN DECHASIRI	NULL	C10118	PHUWIN THIRIENG	M	C10119	NICHA PHUWADET	F	C10120	THANAWAT SOOKSOMBOON NA AYUTTHAYA	NULL
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C10119	NICHA PHUWADET	F																																		
C10120	THANAWAT SOOKSOMBOON NA AYUTTHAYA	NULL																																		

<b>Query # 13</b>	Calculate average of discount for each promotion which promotion name start with "H" and total of discount is greater than 5.						
<b>Owner</b>	6688099 Nuttanana Reamprasert						
<b>Objective</b>	display average of discount for each promotion which promotion name start with "H" and total of discount is greater than 5.						
<b>Query</b>	<pre>SELECT promoID, AVG(discount) AS avgDiscount FROM Promotion WHERE promo_name LIKE "H%" GROUP BY promoID HAVING avgDiscount &gt;= 5;</pre>						
<b>Result</b>	<table border="1"> <thead> <tr> <th>promoID</th> <th>avgDiscount</th> </tr> </thead> <tbody> <tr> <td>PROM02</td> <td>15.0000</td> </tr> <tr> <td>PROM09</td> <td>25.0000</td> </tr> </tbody> </table>	promoID	avgDiscount	PROM02	15.0000	PROM09	25.0000
promoID	avgDiscount						
PROM02	15.0000						
PROM09	25.0000						

<b>Query # 14</b>	to list staff members associated with promotions																																																																		
<b>Owner</b>	6688099 Nuttanana Reamprasert																																																																		
<b>Objective</b>	To identify the staff members responsible for managing or associated with specific promotions.																																																																		
<b>Query</b>	<pre>SELECT DISTINCT staffID, staffFname, staffLname, promo_name, specialoffers, member_bene FROM Staff s INNER JOIN Promotion p ON s.staffID = p.SstaffID;</pre>																																																																		
<b>Result</b>	<table border="1"> <thead> <tr> <th>staffID</th> <th>staffFname</th> <th>staffLname</th> <th>promo_name</th> <th>specialoffers</th> <th>member_bene</th> </tr> </thead> <tbody> <tr> <td>ST0001</td> <td>Pasawee</td> <td>Sriarunotai</td> <td>Weekly Special</td> <td>Buy 1 Get 1 Free</td> <td>5% Extra Discount</td> </tr> <tr> <td>ST0002</td> <td>Kris</td> <td>Kanchanatip</td> <td>Holiday Sale</td> <td>Free Gift with Purchase</td> <td>10% Cashback</td> </tr> <tr> <td>ST0003</td> <td>Pongpol</td> <td>Panyamit</td> <td>Member Exclusive</td> <td>Free Delivery</td> <td>Double Points</td> </tr> <tr> <td>ST0004</td> <td>Charissa</td> <td>Jankara</td> <td>Clearance Sale</td> <td>Up to 50% on Selected Items</td> <td>NULL</td> </tr> <tr> <td>ST0005</td> <td>Yada</td> <td>Wongpaisarn</td> <td>Flash Sale</td> <td>Limited Time Offer</td> <td>5% Extra Discount</td> </tr> <tr> <td>ST0006</td> <td>Nattakit</td> <td>Chaemdara</td> <td>Back to School</td> <td>Free Stationery Kit</td> <td>5% Extra Points</td> </tr> <tr> <td>ST0007</td> <td>Tatchai</td> <td>Limpanyakul</td> <td>Weekend Sale</td> <td>Buy 2 Get 1 Free</td> <td>Free Loyalty Points</td> </tr> <tr> <td>ST0008</td> <td>Dechapat</td> <td>Pondechaphiphat</td> <td>Festive Discount</td> <td>10% Off on Electronics</td> <td>Extended Warranty</td> </tr> <tr> <td>ST0009</td> <td>Alisara</td> <td>Chareonwat</td> <td>Health &amp; Wellness</td> <td>Free Health Kit</td> <td>Extra 10% on Health Products</td> </tr> <tr> <td>ST0010</td> <td>Wasupon</td> <td>Porpananurak</td> <td>Year-End Clearance</td> <td>Up to 70% on Clearance Items</td> <td>NULL</td> </tr> </tbody> </table>	staffID	staffFname	staffLname	promo_name	specialoffers	member_bene	ST0001	Pasawee	Sriarunotai	Weekly Special	Buy 1 Get 1 Free	5% Extra Discount	ST0002	Kris	Kanchanatip	Holiday Sale	Free Gift with Purchase	10% Cashback	ST0003	Pongpol	Panyamit	Member Exclusive	Free Delivery	Double Points	ST0004	Charissa	Jankara	Clearance Sale	Up to 50% on Selected Items	NULL	ST0005	Yada	Wongpaisarn	Flash Sale	Limited Time Offer	5% Extra Discount	ST0006	Nattakit	Chaemdara	Back to School	Free Stationery Kit	5% Extra Points	ST0007	Tatchai	Limpanyakul	Weekend Sale	Buy 2 Get 1 Free	Free Loyalty Points	ST0008	Dechapat	Pondechaphiphat	Festive Discount	10% Off on Electronics	Extended Warranty	ST0009	Alisara	Chareonwat	Health & Wellness	Free Health Kit	Extra 10% on Health Products	ST0010	Wasupon	Porpananurak	Year-End Clearance	Up to 70% on Clearance Items	NULL
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<b>Query # 15</b>	lists all products with a price greater than 50 and includes data about promotions using a LEFT OUTER JOIN.
<b>Owner</b>	6688099 Nuttanana Reamprasert
<b>Objective</b>	Display all products with a price greater than 50 and associated with a promotion.
<b>Query</b>	<pre>SELECT prodID, prodName, prodPrice FROM Product LEFT OUTER JOIN Promotion ON Product.PromoID=Promotion.promoID WHERE prodPrice &gt; 50;</pre>

Result	prodID	prodName	prodPrice
3292070100613	Thammachart Laberyrie Salmon Caviar	690.00	
4550516705907	Senka Perfect Whip White	199.00	
4710731000540	Farcent Shoe Deodorizer Spray	96.00	
4710731050163	Farcent Absorb Box	54.00	
4902430565578	Head&Shoulder Apple Fresh Shampoo	109.00	
6920354814471	Colgate Optic White	149.00	
8850007814528	Listerine Cool Mint Mouthwash	249.00	
8850329102112	Meiji Pasteurized Milk Plain	99.75	
8850358371343	Mcgarett Instant Oat	55.00	
8851818341401	Biore Perfect Cleansing	219.00	
8851952350796	Crystal Water Pack 6	55.00	
8853474056200	Smarter Moisturizing Nail Polish Rem...	55.00	
8859242900713	Sukishi Green Papaya Kimchi	69.00	
8887549037238	Panasonic Black Battery AA Pack 4	69.00	

- **6688129 Patsatraporn Thongdeesakul**

Query # 16	List of order name and ID that have price more than 300 baht and order food after 13:00																															
Owner	6688129 Patsatraporn Thongdeesakul																															
Objective	To list specific details about the Orders table that meet the following the order Price is greater than or equal to 300 baht and the orderTime is after 13:00																															
Query	<pre>SELECT orderID, orderName, orderPrice, orderTime FROM Orders WHERE orderPrice &gt;= 300 AND orderTime &gt; '13:00:00' ORDER BY orderID;</pre>																															
Result	<table border="1"> <thead> <tr> <th>orderID</th> <th>orderName</th> <th>orderPrice</th> <th>orderTime</th> </tr> </thead> <tbody> <tr> <td>OD0006</td> <td>Supermarket Order 6</td> <td>2500.00</td> <td>14:35:00</td> </tr> <tr> <td>OD0007</td> <td>Supermarket Order 7</td> <td>450.00</td> <td>18:00:00</td> </tr> <tr> <td>OD0008</td> <td>Supermarket Order 8</td> <td>2333.50</td> <td>20:10:00</td> </tr> <tr> <td>OD0009</td> <td>Supermarket Order 9</td> <td>560.25</td> <td>20:15:00</td> </tr> <tr> <td>OD0010</td> <td>Supermarket Order 10</td> <td>780.00</td> <td>20:30:00</td> </tr> <tr> <td>NULL</td> <td>NULL</td> <td>NULL</td> <td>NULL</td> </tr> </tbody> </table>				orderID	orderName	orderPrice	orderTime	OD0006	Supermarket Order 6	2500.00	14:35:00	OD0007	Supermarket Order 7	450.00	18:00:00	OD0008	Supermarket Order 8	2333.50	20:10:00	OD0009	Supermarket Order 9	560.25	20:15:00	OD0010	Supermarket Order 10	780.00	20:30:00	NULL	NULL	NULL	NULL
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OD0009	Supermarket Order 9	560.25	20:15:00																													
OD0010	Supermarket Order 10	780.00	20:30:00																													
NULL	NULL	NULL	NULL																													

Query # 17	List of customer full name that have birthday date after 1989.																																			
Owner	6688129 Patsatraporn Thongdeesakul																																			
Objective	Shows the full customer name and who was born after 1989.																																			
Query	<pre>SELECT customerID, CONCAT(customerFname, " ", customerLname) AS "Full name" ,customerBdate FROM Customer WHERE customerBdate &gt; '1989-12-31';</pre>																																			
Result	<table border="1"> <thead> <tr> <th>customerID</th> <th>Full name</th> <th>customerBda...</th> <th></th> </tr> </thead> <tbody> <tr> <td>C10111</td> <td>Crystalyn Pinaumphai</td> <td>1992-04-06</td> <td></td> </tr> <tr> <td>C10112</td> <td>Darin Srihabuth</td> <td>1990-03-25</td> <td></td> </tr> <tr> <td>C10113</td> <td>Nuttacha Panpariwat</td> <td>1997-07-04</td> <td></td> </tr> <tr> <td>C10114</td> <td>Thitiwat Sangarun</td> <td>2003-06-04</td> <td></td> </tr> <tr> <td>C10116</td> <td>Anyarin Srithongchai</td> <td>1995-06-09</td> <td></td> </tr> <tr> <td>C10117</td> <td>Gavin Dechasiri</td> <td>1991-10-10</td> <td></td> </tr> <tr> <td>C10119</td> <td>Nicha Phuwasdet</td> <td>1990-01-21</td> <td></td> </tr> </tbody> </table>				customerID	Full name	customerBda...		C10111	Crystalyn Pinaumphai	1992-04-06		C10112	Darin Srihabuth	1990-03-25		C10113	Nuttacha Panpariwat	1997-07-04		C10114	Thitiwat Sangarun	2003-06-04		C10116	Anyarin Srithongchai	1995-06-09		C10117	Gavin Dechasiri	1991-10-10		C10119	Nicha Phuwasdet	1990-01-21	
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C10117	Gavin Dechasiri	1991-10-10																																		
C10119	Nicha Phuwasdet	1990-01-21																																		

<b>Query # 18</b>	To find products with expiration dates before 2025 and at the cheapest prices.				
<b>Owner</b>	6688129 Patsatraporn Thongdeesakul				
<b>Objective</b>	Show the cheapest products name with expiration dates before 2025.				
<b>Query</b>	<pre>SELECT prodName, MIN(prodPrice) AS MinPrice FROM Product WHERE EXPdate &lt; '2025-01-01' GROUP BY prodName ORDER BY MIN(prodPrice) ASC LIMIT 1;</pre>				
<b>Result</b>	<table border="1"> <thead> <tr> <th>prodName</th> <th>MinPrice</th> </tr> </thead> <tbody> <tr> <td>Nestle Cereal Milo</td> <td>10.00</td> </tr> </tbody> </table>	prodName	MinPrice	Nestle Cereal Milo	10.00
prodName	MinPrice				
Nestle Cereal Milo	10.00				

<b>Query # 19</b>	To find out what products this supplier ID S00003 ships.									
<b>Owner</b>	6688129 Patsatraporn Thongdeesakul									
<b>Objective</b>	To show information about which products name this supplier name and ID S00003 has shipped.									
<b>Query</b>	<pre>SELECT s.supID, CONCAT(s.supFname, " ", s.supLname) AS "Full name", p.prodName FROM Supplier s INNER JOIN Product p ON s.supID = p.SsupID</pre>									
<b>Result</b>	<table border="1"> <thead> <tr> <th>supID</th> <th>Full name</th> <th>prodName</th> </tr> </thead> <tbody> <tr> <td>S00003</td> <td>Ticha Jiranant</td> <td>Colgate Optic White</td> </tr> <tr> <td>S00003</td> <td>Ticha Jiranant</td> <td>Walls Ice Cream Magnum Classic</td> </tr> </tbody> </table>	supID	Full name	prodName	S00003	Ticha Jiranant	Colgate Optic White	S00003	Ticha Jiranant	Walls Ice Cream Magnum Classic
supID	Full name	prodName								
S00003	Ticha Jiranant	Colgate Optic White								
S00003	Ticha Jiranant	Walls Ice Cream Magnum Classic								

<b>Query # 20</b>	Find information about what product code 8850188270106 , what is the product name, and the date and time it will be shipped.
<b>Owner</b>	6688129 Patsatraporn Thongdeesakul
<b>Objective</b>	Display the product code 8850188270106, what is the productname, and what day and time it was shipped.
<b>Query</b>	<pre>SELECT     p.prodID,     p.prodName,     d.deliverTime,     d.deliverDate FROM Product p LEFT OUTER JOIN Deliver d ON p.prodID = d.PproductID WHERE p.prodID = '8850188270106';</pre>

Result	prodID	prodName	deliverTime	deliverDate
8850188270106	Foremost UHT Milk Low Fat	12:15:00	2024-11-01	
8850188270106	Foremost UHT Milk Low Fat	09:40:00	2024-11-05	
8850188270106	Foremost UHT Milk Low Fat	10:00:00	2024-11-09	
8850188270106	Foremost UHT Milk Low Fat	09:20:00	2024-11-12	
8850188270106	Foremost UHT Milk Low Fat	09:10:00	2024-11-15	

- **6688210 Thanaporn Pinsakul**

Query # 21	List all cashiers who have first name begin with “S” and have working hours in night at Tops.																
Owner	6688210 Thanaporn Pinsakul																
Objective	To display information about cashierID, cashierFname, cashierTel, and workingHours of the cashier that have a first name beginning with “S” and works at night.																
Query	<pre>SELECT cashierID, cashierFname, cashierTel, workingHours FROM Cashier WHERE cashierFname LIKE 'S%' AND workingHours = 'Night';</pre>																
Result	<table border="1"> <thead> <tr> <th>cashierID</th> <th>cashierFname</th> <th>cashierTel</th> <th>workingHours</th> </tr> </thead> <tbody> <tr> <td>CH2105</td> <td>Suwimon</td> <td>0834326112</td> <td>Night</td> </tr> <tr> <td>CH2106</td> <td>Suradeth</td> <td>0856543432</td> <td>Night</td> </tr> <tr> <td>NULL</td> <td>NULL</td> <td>NULL</td> <td>NULL</td> </tr> </tbody> </table>	cashierID	cashierFname	cashierTel	workingHours	CH2105	Suwimon	0834326112	Night	CH2106	Suradeth	0856543432	Night	NULL	NULL	NULL	NULL
cashierID	cashierFname	cashierTel	workingHours														
CH2105	Suwimon	0834326112	Night														
CH2106	Suradeth	0856543432	Night														
NULL	NULL	NULL	NULL														

Query # 22	List the full names of suppliers whose last names start with the uppercase letter “P”.												
Owner	6688210 Thanaporn Pinsakul												
Objective	To display information about the first and last name, ID, and email addresses of suppliers whose last names start with the letter “P” and whose full names are in capital letters, who manufacture and sell products to this supermarket.												
Query	<pre>SELECT supID, UPPER(CONCAT(supFname, " ", supLname)) AS "Full Name", supEmail FROM Supplier WHERE supLname LIKE 'P%';</pre>												
Result	<table border="1"> <thead> <tr> <th>supID</th> <th>Full Name</th> <th>supEmail</th> </tr> </thead> <tbody> <tr> <td>S00007</td> <td>ASHIRAKORN PONDECHAPIPHAT</td> <td>maruai.company@gmail.com</td> </tr> <tr> <td>S00009</td> <td>CHAYANON PHAKTHIN</td> <td>thai.supplier@gmail.com</td> </tr> <tr> <td>S00010</td> <td>WORAYUT PRASONGPORN</td> <td>w.connect.group@gmail.com</td> </tr> </tbody> </table>	supID	Full Name	supEmail	S00007	ASHIRAKORN PONDECHAPIPHAT	maruai.company@gmail.com	S00009	CHAYANON PHAKTHIN	thai.supplier@gmail.com	S00010	WORAYUT PRASONGPORN	w.connect.group@gmail.com
supID	Full Name	supEmail											
S00007	ASHIRAKORN PONDECHAPIPHAT	maruai.company@gmail.com											
S00009	CHAYANON PHAKTHIN	thai.supplier@gmail.com											
S00010	WORAYUT PRASONGPORN	w.connect.group@gmail.com											

Query # 23	List the total price of all products supplied by each supplier.
Owner	6688210 Thanaporn Pinsakul

<b>Objective</b>	To calculate and display only those suppliers whose total product price exceed 300.						
<b>Query</b>	<pre>SELECT SsupID, SUM(prodPrice) AS "Total_price" FROM Product GROUP BY SsupID HAVING SUM(prodPrice) &gt; 300;</pre>						
<b>Result</b>	<table border="1"> <thead> <tr> <th>SsupID</th> <th>Total_price</th> </tr> </thead> <tbody> <tr> <td>S00006</td> <td>303.00</td> </tr> <tr> <td>S00010</td> <td>759.00</td> </tr> </tbody> </table>	SsupID	Total_price	S00006	303.00	S00010	759.00
SsupID	Total_price						
S00006	303.00						
S00010	759.00						

<b>Query # 24</b>	List the information about products with the status “Delivered”.																																																																																										
<b>Owner</b>	6688210 Thanaporn Pinsakul																																																																																										
<b>Objective</b>	To retrieve detailed information about delivered products, including the product ID, product name, supplier ID, supplier name, delivery status, and the date of delivery.																																																																																										
<b>Query</b>	<pre>SELECT c.PproductID, p.prodName, c.SsupplierID, s.supFname, c.statuss, c.checkDate FROM Checks c INNER JOIN Product p ON c.PproductID = p.prodID INNER JOIN Supplier s ON c.SsupplierID = s.supID WHERE c.statuss = 'Delivered';</pre>																																																																																										
<b>Result</b>	<table border="1"> <thead> <tr> <th>PproductID</th> <th>prodName</th> <th>SsupplierID</th> <th>supFname</th> <th>statuss</th> <th>checkDate</th> </tr> </thead> <tbody> <tr> <td>8850358371343</td> <td>Mcgarett Instant Oat</td> <td>S00001</td> <td>Chutiwat</td> <td>Delivered</td> <td>2024-11-01</td> </tr> <tr> <td>4710731000540</td> <td>Farcent Shoe Deodorizer Spray</td> <td>S00003</td> <td>Ticha</td> <td>Delivered</td> <td>2024-11-02</td> </tr> <tr> <td>8850007814528</td> <td>Listerine Cool Mint Mouthwash</td> <td>S00006</td> <td>Danika</td> <td>Delivered</td> <td>2024-11-04</td> </tr> <tr> <td>4550516705907</td> <td>Senka Perfect Whit White</td> <td>S00008</td> <td>Kavin</td> <td>Delivered</td> <td>2024-11-05</td> </tr> <tr> <td>8850188270106</td> <td>Foremost UHT Milk Low Fat</td> <td>S00005</td> <td>Chet</td> <td>Delivered</td> <td>2024-11-02</td> </tr> <tr> <td>3292070100613</td> <td>Thammachart Laberyrie Salmon Caviar</td> <td>S00007</td> <td>Ashirakorn</td> <td>Delivered</td> <td>2024-11-05</td> </tr> <tr> <td>8859242900713</td> <td>Sukishi Green Papaya Kimchi</td> <td>S00010</td> <td>Worayut</td> <td>Delivered</td> <td>2024-11-04</td> </tr> <tr> <td>6920354814471</td> <td>Colgate Optic White</td> <td>S00003</td> <td>Ticha</td> <td>Delivered</td> <td>2024-11-05</td> </tr> <tr> <td>4800361028004</td> <td>Nestle Cereal Milo</td> <td>S00003</td> <td>Ticha</td> <td>Delivered</td> <td>2024-11-02</td> </tr> <tr> <td>8850007814528</td> <td>Listerine Cool Mint Mouthwash</td> <td>S00006</td> <td>Danika</td> <td>Delivered</td> <td>2024-11-02</td> </tr> <tr> <td>3292070100613</td> <td>Thammachart Laberyrie Salmon Caviar</td> <td>S00007</td> <td>Ashirakorn</td> <td>Delivered</td> <td>2024-11-03</td> </tr> <tr> <td>6920354814471</td> <td>Colgate Optic White</td> <td>S00007</td> <td>Ashirakorn</td> <td>Delivered</td> <td>2024-11-04</td> </tr> <tr> <td>8859242900713</td> <td>Sukishi Green Papaya Kimchi</td> <td>S00010</td> <td>Worayut</td> <td>Delivered</td> <td>2024-11-04</td> </tr> <tr> <td>8850358371343</td> <td>Mcgarett Instant Oat</td> <td>S00008</td> <td>Kavin</td> <td>Delivered</td> <td>2024-11-05</td> </tr> </tbody> </table>	PproductID	prodName	SsupplierID	supFname	statuss	checkDate	8850358371343	Mcgarett Instant Oat	S00001	Chutiwat	Delivered	2024-11-01	4710731000540	Farcent Shoe Deodorizer Spray	S00003	Ticha	Delivered	2024-11-02	8850007814528	Listerine Cool Mint Mouthwash	S00006	Danika	Delivered	2024-11-04	4550516705907	Senka Perfect Whit White	S00008	Kavin	Delivered	2024-11-05	8850188270106	Foremost UHT Milk Low Fat	S00005	Chet	Delivered	2024-11-02	3292070100613	Thammachart Laberyrie Salmon Caviar	S00007	Ashirakorn	Delivered	2024-11-05	8859242900713	Sukishi Green Papaya Kimchi	S00010	Worayut	Delivered	2024-11-04	6920354814471	Colgate Optic White	S00003	Ticha	Delivered	2024-11-05	4800361028004	Nestle Cereal Milo	S00003	Ticha	Delivered	2024-11-02	8850007814528	Listerine Cool Mint Mouthwash	S00006	Danika	Delivered	2024-11-02	3292070100613	Thammachart Laberyrie Salmon Caviar	S00007	Ashirakorn	Delivered	2024-11-03	6920354814471	Colgate Optic White	S00007	Ashirakorn	Delivered	2024-11-04	8859242900713	Sukishi Green Papaya Kimchi	S00010	Worayut	Delivered	2024-11-04	8850358371343	Mcgarett Instant Oat	S00008	Kavin	Delivered	2024-11-05
PproductID	prodName	SsupplierID	supFname	statuss	checkDate																																																																																						
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8859242900713	Sukishi Green Papaya Kimchi	S00010	Worayut	Delivered	2024-11-04																																																																																						
8850358371343	Mcgarett Instant Oat	S00008	Kavin	Delivered	2024-11-05																																																																																						

<b>Query # 25</b>	To provide of product addition, product detail, and staff.
<b>Owner</b>	6688210 Thanaporn Pinsakul
<b>Objective</b>	To display product addition records, product details, and staff involvement by combining data from the Adds, Product, and Staff.
<b>Query</b>	<pre>SELECT a.PproductsID, p.prodName, a.Sstaff_ID, s.staffFname, a.addTime, a.addDate FROM Adds a LEFT OUTER JOIN Product p ON a.PproductsID = p.prodID RIGHT OUTER JOIN Staff s ON a.Sstaff_ID = s.staffID;</pre>

Result	PproductsID	prodName	Sstaff_ID	staffName	addTime	addDate
	4710731050163	Farcent Absorb Box	ST0001	Pasawee	10:00:00	2024-10-02
	8851932295796	Walls Ice Cream Magnum Classic	ST0001	Pasawee	10:00:00	2024-12-01
	8850002020245	Kirei Hand Soap Refill	ST0001	Pasawee	15:00:00	2024-06-03
	8850718801213	Lays Classic Potato Salt	ST0002	Kris	10:00:00	2024-12-02
	8850358371343	Mcgarett Instant Oat	ST0002	Kris	08:00:00	2024-12-01
	8850188270106	Foremost UHT Milk Low Fat	ST0002	Kris	10:00:00	2024-10-03
	8850358371343	Mcgarett Instant Oat	ST0003	Pongpol	10:00:00	2024-10-01
	8850188270106	Foremost UHT Milk Low Fat	ST0003	Pongpol	19:00:00	2024-12-02
	8859242900713	Sukishi Green Papaya Kimchi	ST0003	Pongpol	18:00:00	2024-07-04
	8851952350796	Crystal Water Pack 6	ST0004	Charissa	00:00:00	2024-12-03
	8851952350796	Crystal Water Pack 6	ST0004	Charissa	09:00:00	2024-01-03
	4800361028004	Nestle Cereal Milo	ST0004	Charissa	09:00:00	2024-07-04
	8851932295796	Walls Ice Cream Magnum Classic	ST0005	Yada	09:00:00	2024-10-01
	8859242900713	Sukishi Green Papaya Kimchi	ST0005	Yada	07:00:00	2024-12-04
	4800361028004	Nestle Cereal Milo	ST0005	Yada	19:00:00	2024-11-04
	8850188270106	Foremost UHT Milk Low Fat	ST0006	Nattakit	19:00:00	2024-11-04
	8850002020245	Kirei Hand Soap Refill	ST0006	Nattakit	05:00:00	2024-12-01
	8850358371343	Mcgarett Instant Oat	ST0006	Nattakit	09:00:00	2024-05-04
	8859242900713	Sukishi Green Papaya Kimchi	ST0007	Tatchai	11:00:00	2024-10-02
	8850718801213	Lays Classic Potato Salt	ST0007	Tatchai	13:00:00	2024-08-02
	8851932295796	Walls Ice Cream Magnum Classic	ST0007	Tatchai	10:00:00	2024-09-03
	8850002020245	Kirei Hand Soap Refill	ST0008	Dechapat	09:00:00	2024-10-01
	4710731050163	Farcent Absorb Box	ST0008	Dechapat	15:00:00	2024-12-04
	4710731050163	Farcent Absorb Box	ST0008	Dechapat	10:00:00	2024-02-03
	8850358371343	Mcgarett Instant Oat	ST0008	Dechapat	11:00:00	2024-07-04
	8850329102112	Meiji Pasteurized Milk Plain	ST0009	Alisara	16:00:00	2024-11-03
	4800361028004	Nestle Cereal Milo	ST0009	Alisara	08:00:00	2024-12-02
	8850329102112	Meiji Pasteurized Milk Plain	ST0009	Alisara	10:00:00	2024-11-04
	4800361028004	Nestle Cereal Milo	ST0010	Wasupon	13:00:00	2024-12-03
	8850329102112	Meiji Pasteurized Milk Plain	ST0010	Wasupon	14:00:00	2024-01-03

## References

- [1] "Tops Supermarket," 1 September 2024. [Online]. Available: <https://www.tops.co.th/th/brands-for-you>
- [2] Central Retail Group. (2024, August 28). *Central Food Retail Group marks 28 years of Tops with a bold new vision as a truly world-class omni-channel lifestyle food retail targeting to achieve 1000 stores by 2027, solidifying its position as Thailand's largest supermarket chain.* Retrieved from <https://www.centralretail.com/en/newsroom/news-and-activities/835/central-food-retail-group-marks-28-years-of-tops-with-a-bold-new-vision-as-a-truly-world-class-omni-channel-lifestyle-food-retail-targeting-to-achieve-1000-stores-by-2027-solidifying-its-position-as-thailand-s-largest-supermarket-chain>
- [3] Tops Supermarket. (n.d.). *Tops Supermarket: มาก็ท* [Tops Supermarket: Market]. Retrieved from <https://www.tops.co.th/th/brands-for-you>