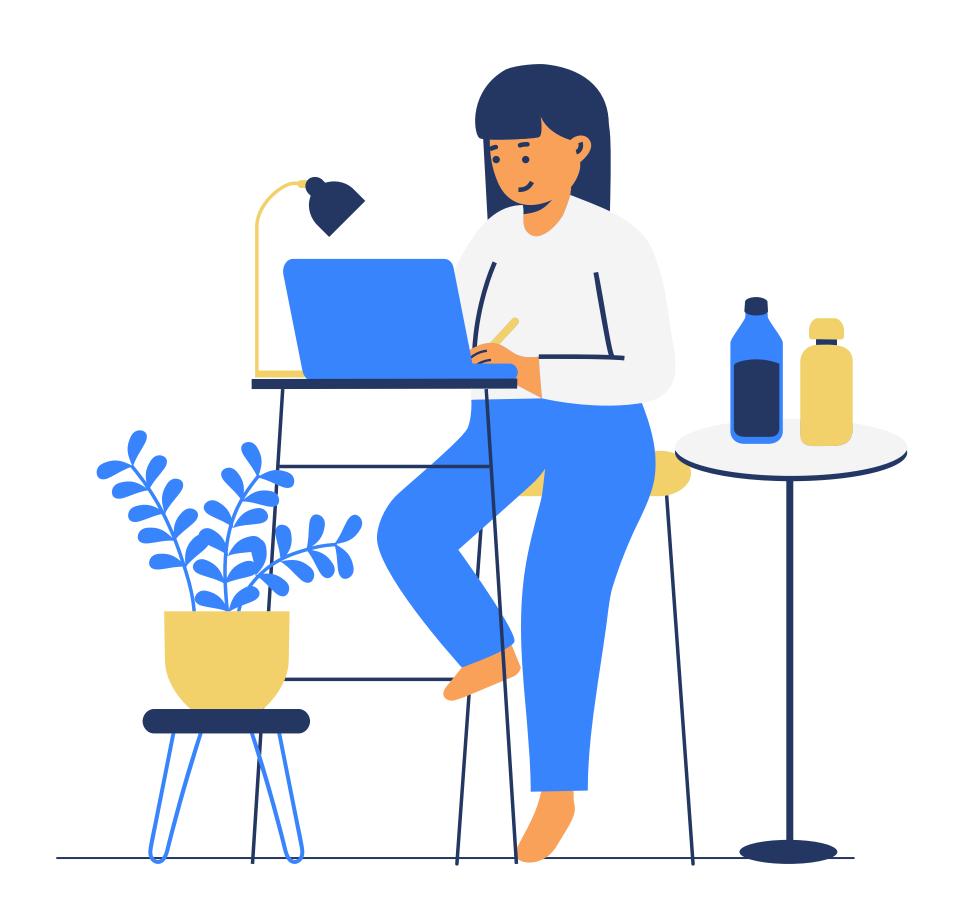
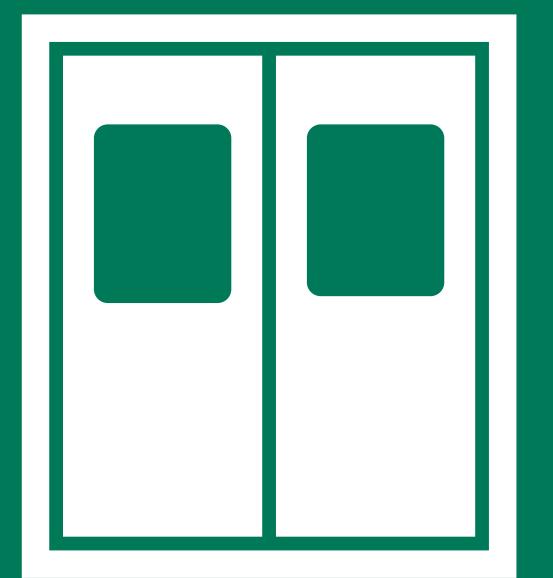
# 7-Eleven

Delivery





## 7 - ELEVEN







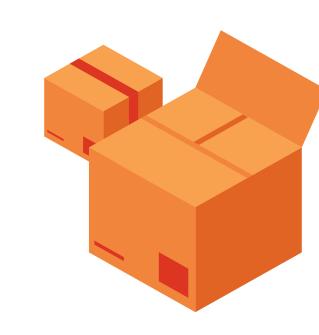
7-Eleven

## Branch



### **Employee**









Stock of Product

## Customers



### **Location Delivery Service**





## Call



## Report The Problem



One customer can order many orders.

One order can be ordered by only one customer.



One order can send by one sender.

One sender can be sent many orders.







One order can order many products.

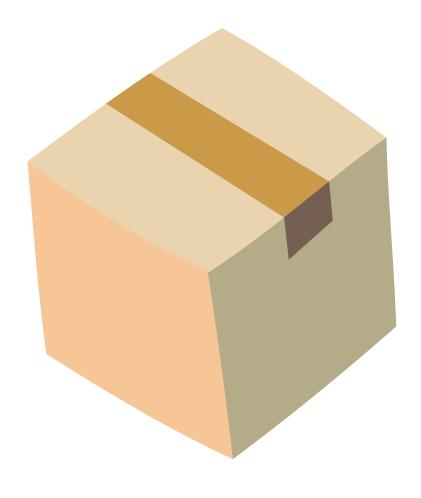
One product can be ordered by many orders.

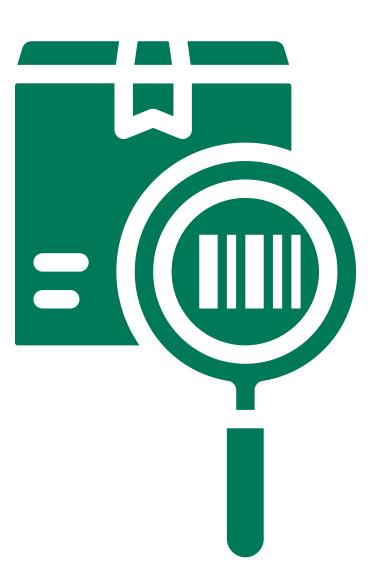




One product has one information about the product.

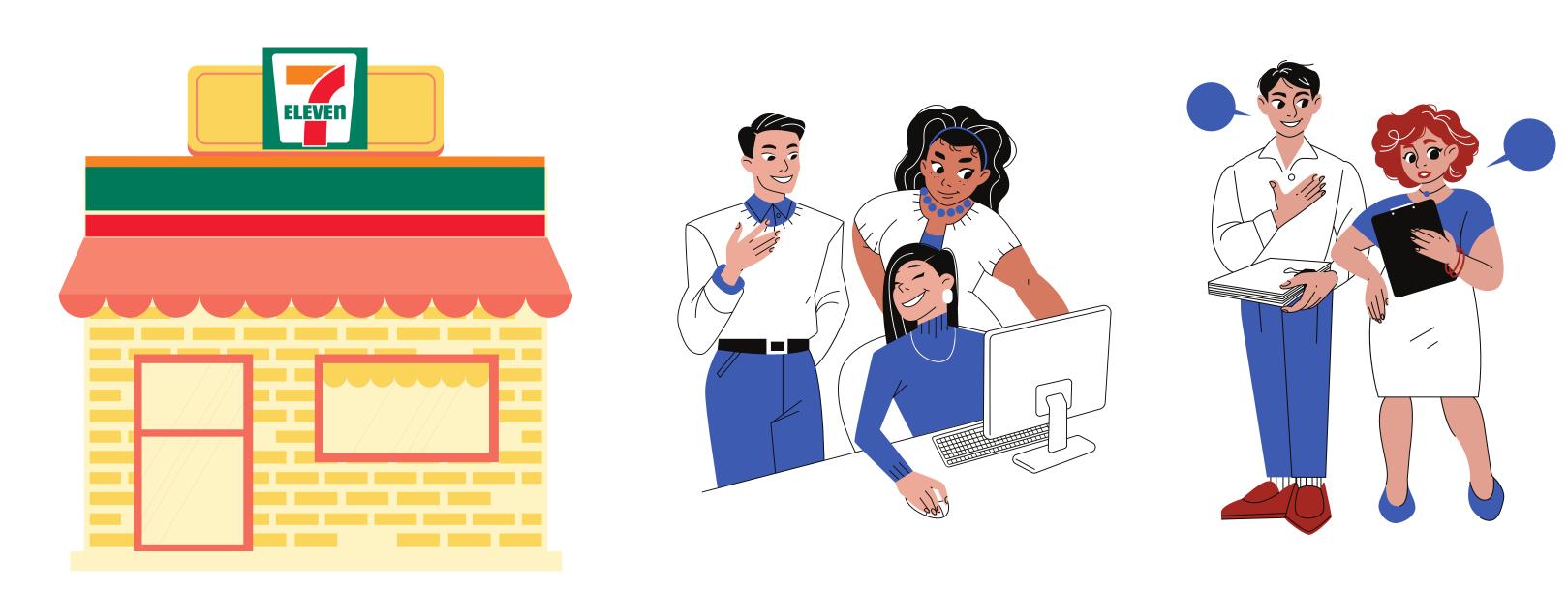
One information about the product has only one product.





One branch can employ many employees.

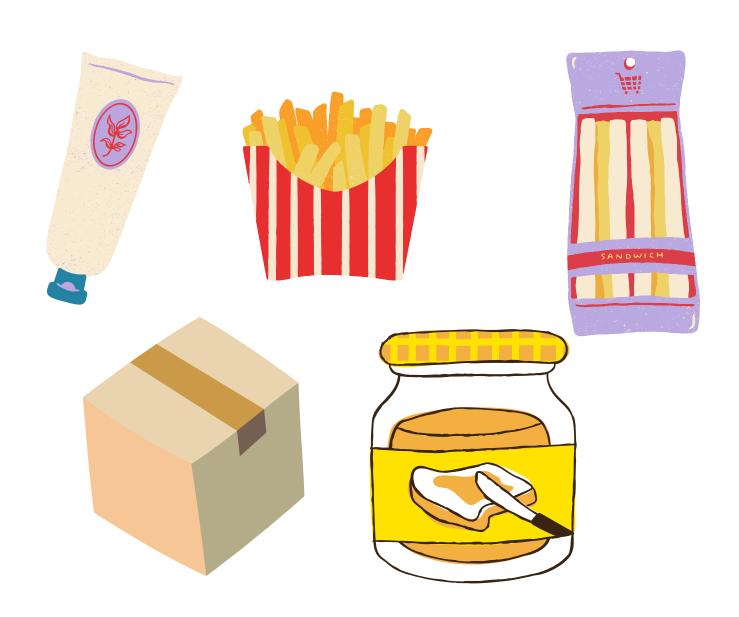
One employee can be employed by one branch.



One branch stock many products.

One product can be stocked in many branches.





One manager can manage only one branch.

One branch can be managed by one manager.





## ER Diagram

CUSTOMER

USER\_ID

USERNAME

TITLE

FIRSTNAME

LASTNAME

PHONE

**EMAIL** 

DATE\_OF\_BIRTH

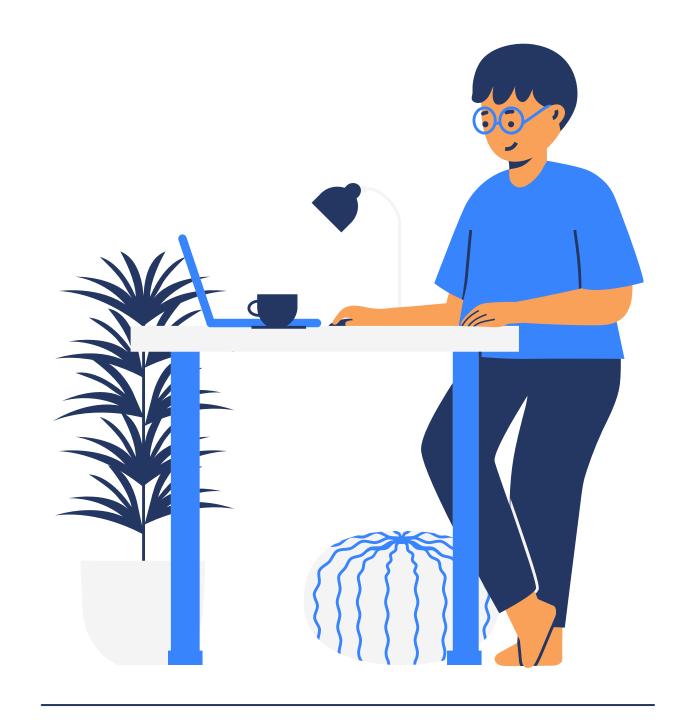
PICTURE\_PROFILE

MODIFIED\_DATE

01

#### **Customer Entity**

Represent a user for a 7-Eleven application that will keep track of basic information of each customer.



ORDER

ORDER\_ID

PAYMENT

ORDER\_NOTE

TOTAL\_UNIT

DATE

02

#### **Order Entity**

Finalizing an order detailed when the customer places an online order.



INFORMATION\_OF\_PRODUCT

INFORMATION\_NO

HOW\_TO\_USE

WARNING

COMPONENT

PRODUCER

LOGO

BARCODE

03

#### **Information Of Product Entity**

Represent the manufacturing information of each product.

#### PRODUCT

PRODUCT\_ID

NAME\_OF\_PRODUCT

MEMBER\_POINT

PRICE

BRANCH

BRANCH\_ID

BRANCH\_NAME

BRANCH\_PHONE

04

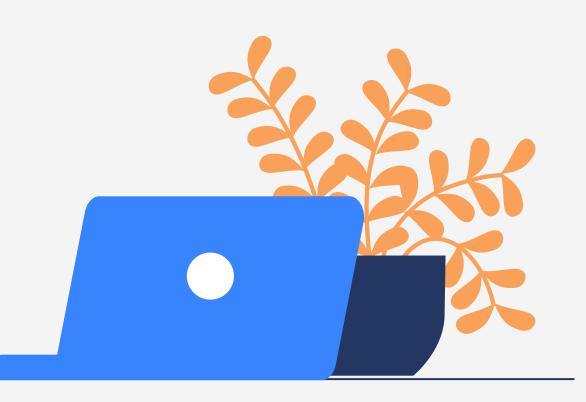
#### **Product Entity**

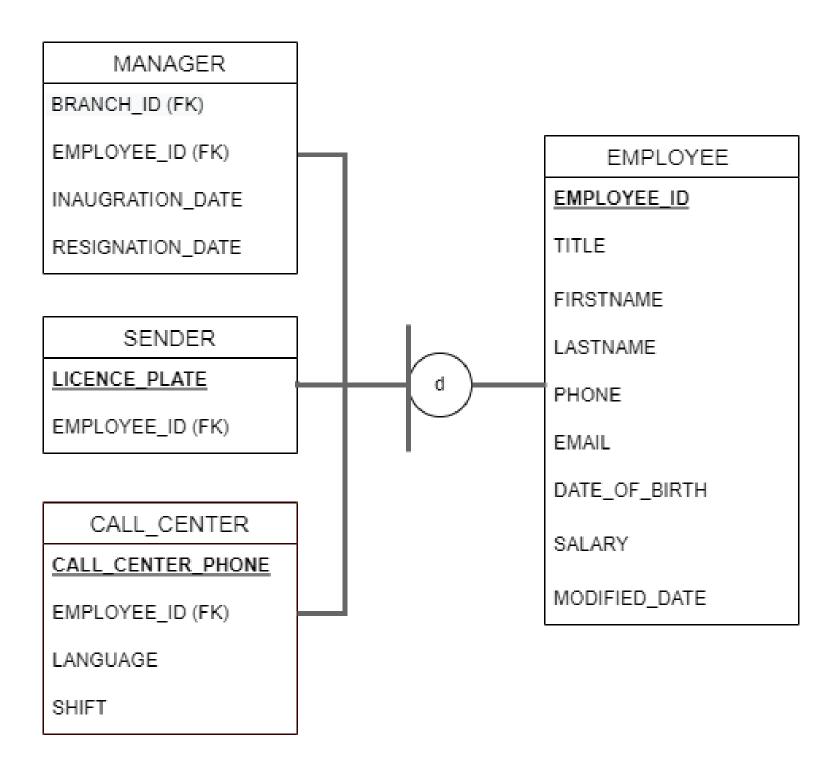
Keep track of the item information of a product.

05

#### **Branch Entity**

Describe the primary data of each 7-Eleven branch.





06

#### **Employee Entity**

Gathering the significant details of employees who work for the 7-Eleven company.

07

#### **Manager Entity**

Hold the specific information for an employee who works as a manager.

80

#### **Sender Entity**

Hold the specific information for an employee who works as a sender.

09

#### Call Center Entity

Hold the specific information for an employee who works as a call center.



10

#### **Location Entity**

Keep track of the address data.

11

## **Location Employee Entity**

Keeping the address location of the employee who works with the 7-Eleven company.

12

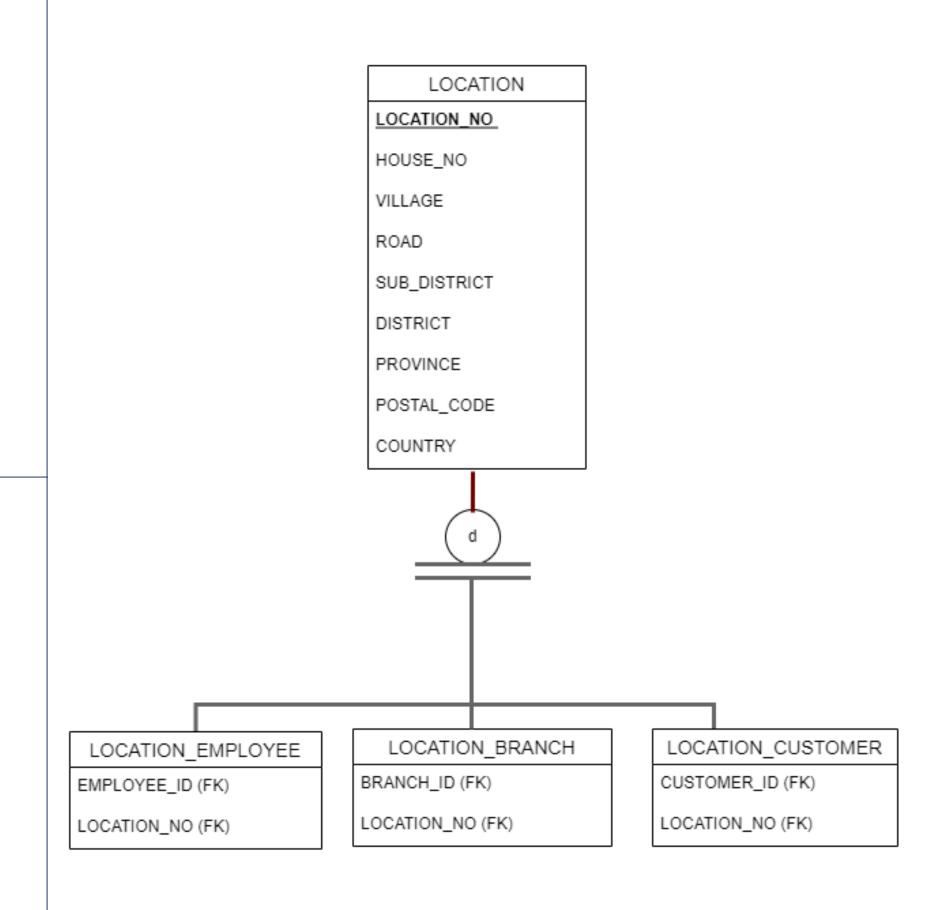
#### **Location Branch Entity**

Keeping the address location of each 7-Eleven branch in Thailand

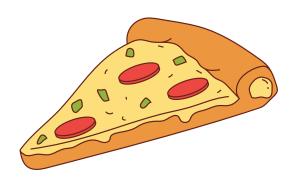
13

## **Location Customer Entity**

Keeping the address location of each user that uses the 7-Eleven delivery application.

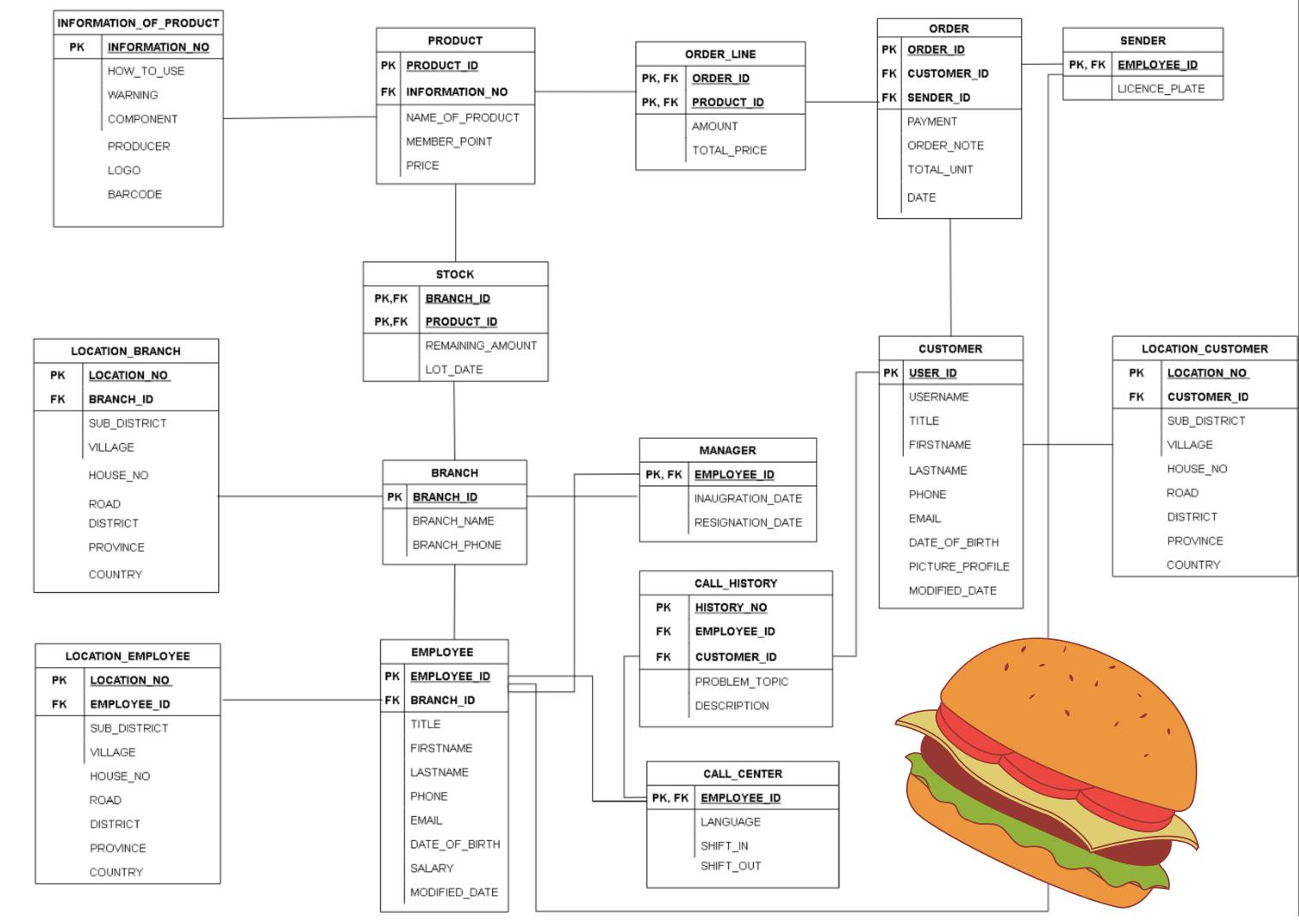


# Final relational schema

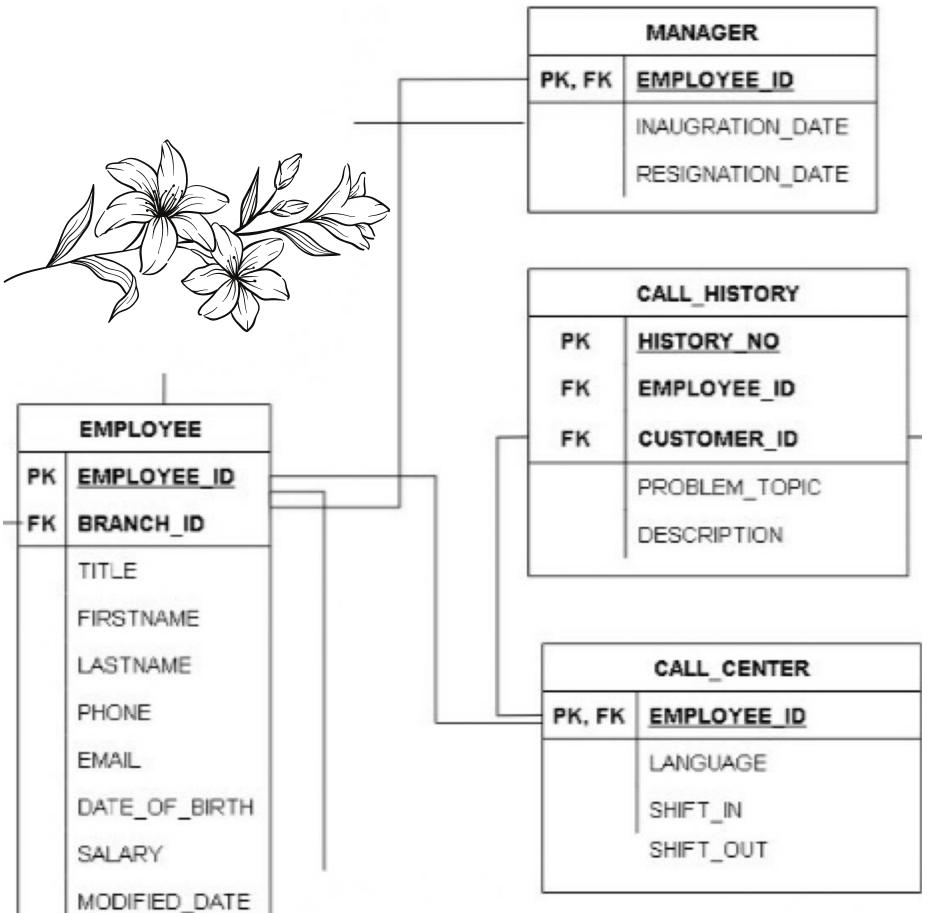


# Overview of final relational schema

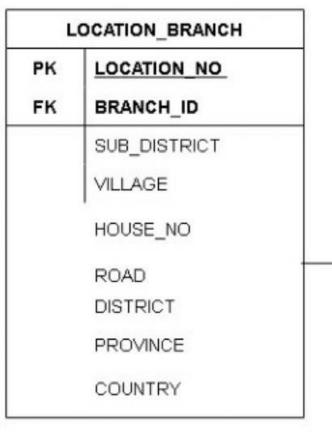






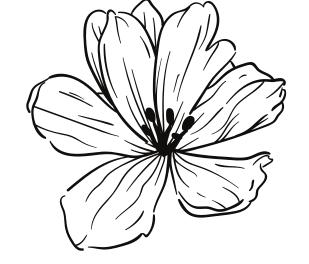


#### Location



PK

FK



BRANCH

BRANCH\_NAME

BRANCH\_PHONE

PK BRANCH ID

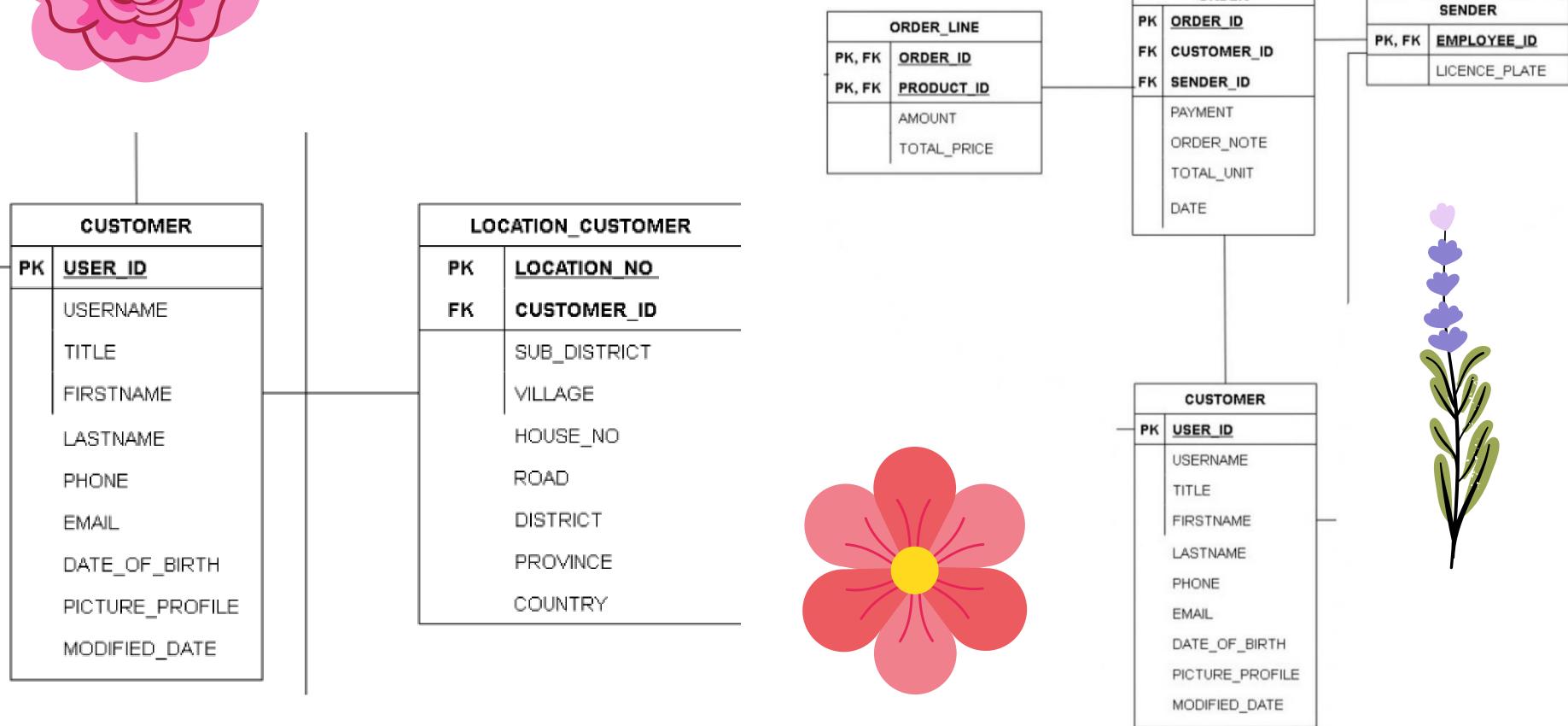
LC	CATION_EMPLOYEE	EMPLOYEE		
ĸ	LOCATION NO	PK	EMPLOYEE_ID	
ĸ	EMPLOYEE_ID	FK	BRANCH_ID	
	SUB_DISTRICT		TITLE	
	VILLAGE		FIRSTNAME	
	HOUSE_NO		LASTNAME	
	ROAD		PHONE	
	DISTRICT		EMAIL	
	PROVINCE		DATE_OF_BIRTH	
	COUNTRY		SALARY	
			MODIFIED DATE	



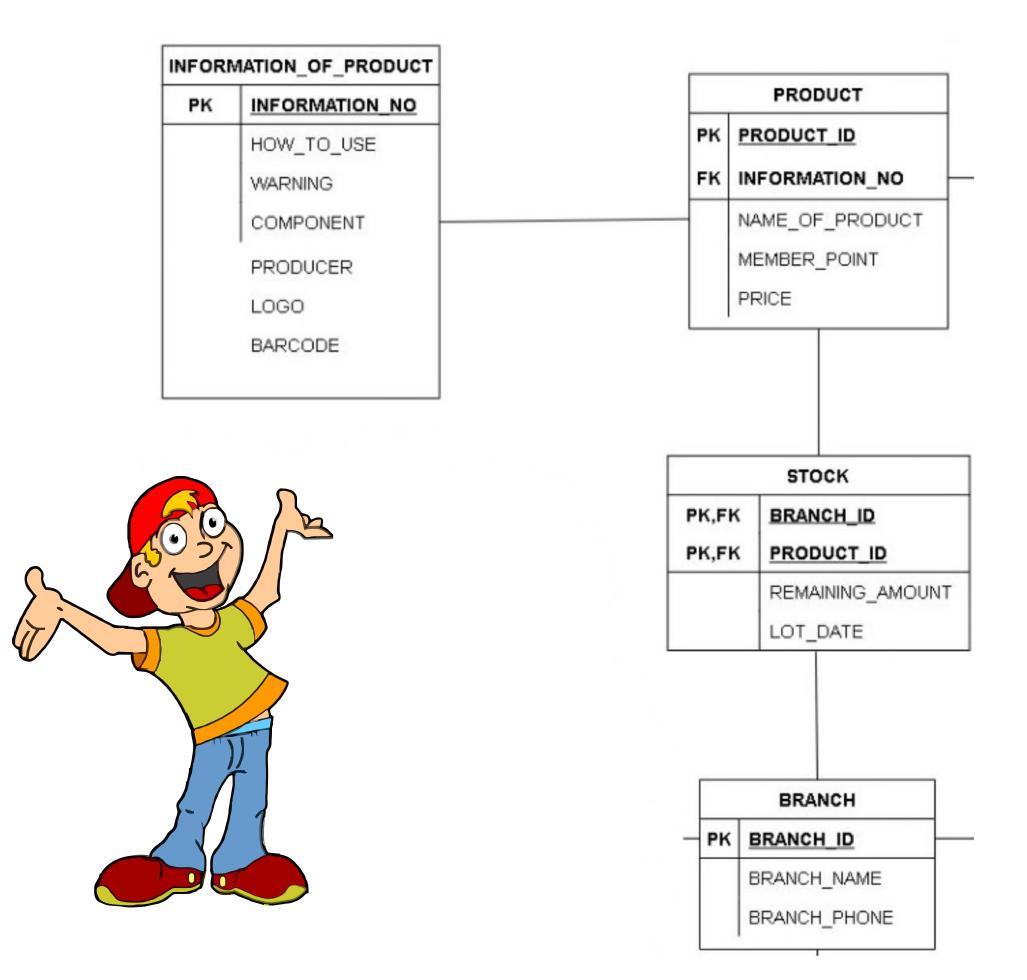
#### Location

#### Order

ORDER



#### **Product**







# Example of SQL scripts 6 outputs

outputs

### Example 1

```
-- 5. List the problems that are related to the application.

SELECT *

FROM call_history

WHERE problem_topic LIKE '%App%';
```



	History_No	Employee_ID	Customer_ID	Problem_Topic	Call_Description
١	3	0633917	132011	App error	Cannot access to 7-Eleven application
	7	0649731	132011	App error	Cannot access to 7-Eleven application
	11	0633794	137510	App error	Cannot change an email
	12	0649731	179520	App error	Payment process error
	14	0633964	143002	App error	Payment process error
	19	0633964	137510	App error	Cannot access to 7-Eleven application
	28	0633794	179520	App error	Payment process error
	NULL	NULL	NULL	NULL	NULL

outputs

SELECT name\_of\_product, member\_point, price, how\_to\_use, warning, producer

FROM product AS p INNER JOIN information\_of\_product AS ip ON p.information\_no = ip.information\_no;



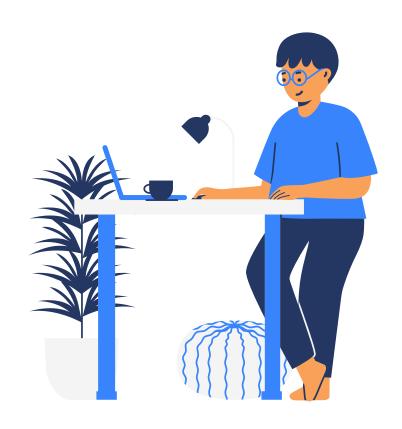
name_of_product	member_point	price	how_to_use	warning	producer
Lay big grab	3	30.00	HULL	This product was processed ingredients containi	Lay
Pancake with strawberry sause	3	30.00	Keep in refridgerator	This product was processed ingredients containi	EZYGO
Chicken nuggets	4	35.00	Please warm nugget in microwave	This product was processed ingredients containi	EZYGO
Fluffy pancake	3	30.00	Keep in refridgerator	This product was processed ingredients containi	Bow Delicious
Sing Drinking Water	1	9.00		-	Singha
Yogurt	2	15.00	Keep in refridgerator	This product was processed ingredients containi	EZYGO
Kit kat	3	25.00	Keep in refridgerator	This product was processed ingredients containi	Nestle
Edair	3	25.00	Keep in refridgerator	This product was processed ingredients containi	EZYGO
Strawberry Mochi	3	30.00	Keep in refridgerator	This product was processed ingredients containi	EZYGO
Brown sugar soy milk	3	25.00	Keep in refridgerator	Best if consumed within 1 day after opening.	Tofusan

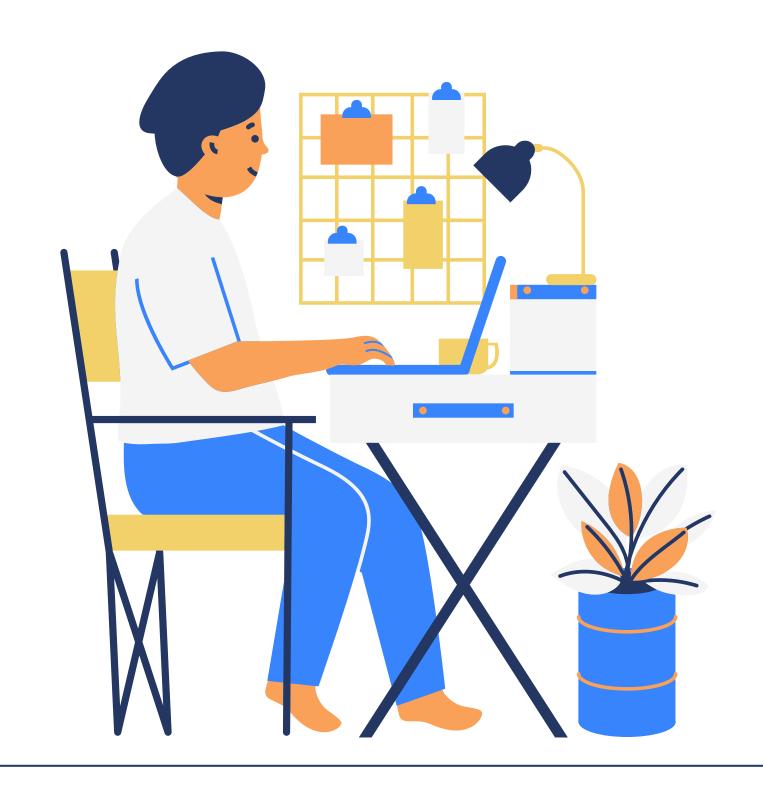
## Example 3

```
SELECT iof.producer, SUM(oi.amount) AS "number of sales"
FROM order_line oi
JOIN product pro ON oi.product_id = pro.product_id
JOIN information_of_product iof ON pro.information_no = iof.information_no
GROUP BY producer
ORDER BY SUM(oi.amount) DESC;
```



	producer	number of sales
•	EZYGO	52
	Bow Delicious	32
	Nestle	26
	Tofusan	19
	Lay	18
	Singha	3





## Thank You

6388113 Poomrapee Wareeboutr

6388133 Pitchaya Teerawongpairoj

6388154 Kontawat Wisetpaitoon

6388196 Sasima Srijanya