Company Internal Cafe System

2023-2 Database system Project Presentation

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Team and Roles

홍시은

- Menu List & Search
- Menu Detail Page

김민선

- Order List
- Edit Profile
- Mileage History

신희주

- Home Screen & Sign Up
- Satisfaction Evaluation

Idea

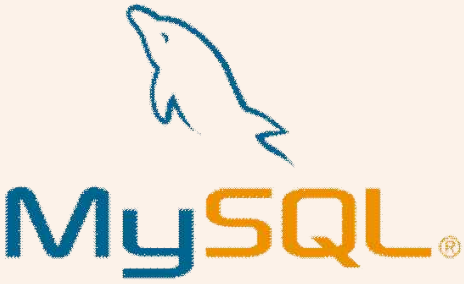
Company Internal Cafe System

The Company Internal Cafe System is designed to facilitate employee coffee orders within the workplace.

Employees can conveniently request beverages from their workstations using the company-provided computers.

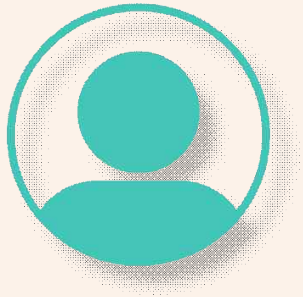
This system streamlines the process, allowing employees to order drinks without leaving their desks, enhancing workplace efficiency and satisfaction.

Application Field



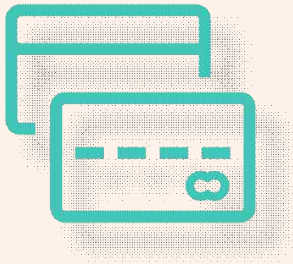
Requirement Analysis

Log In & Log Out



Edit Profile

Requirement Analysis

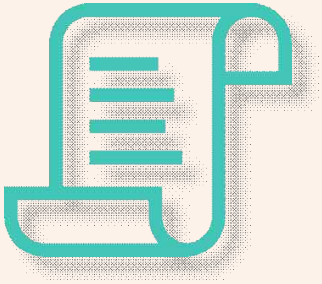


Mileage History

Order List

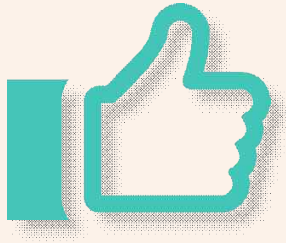
Order History

Requirement Analysis



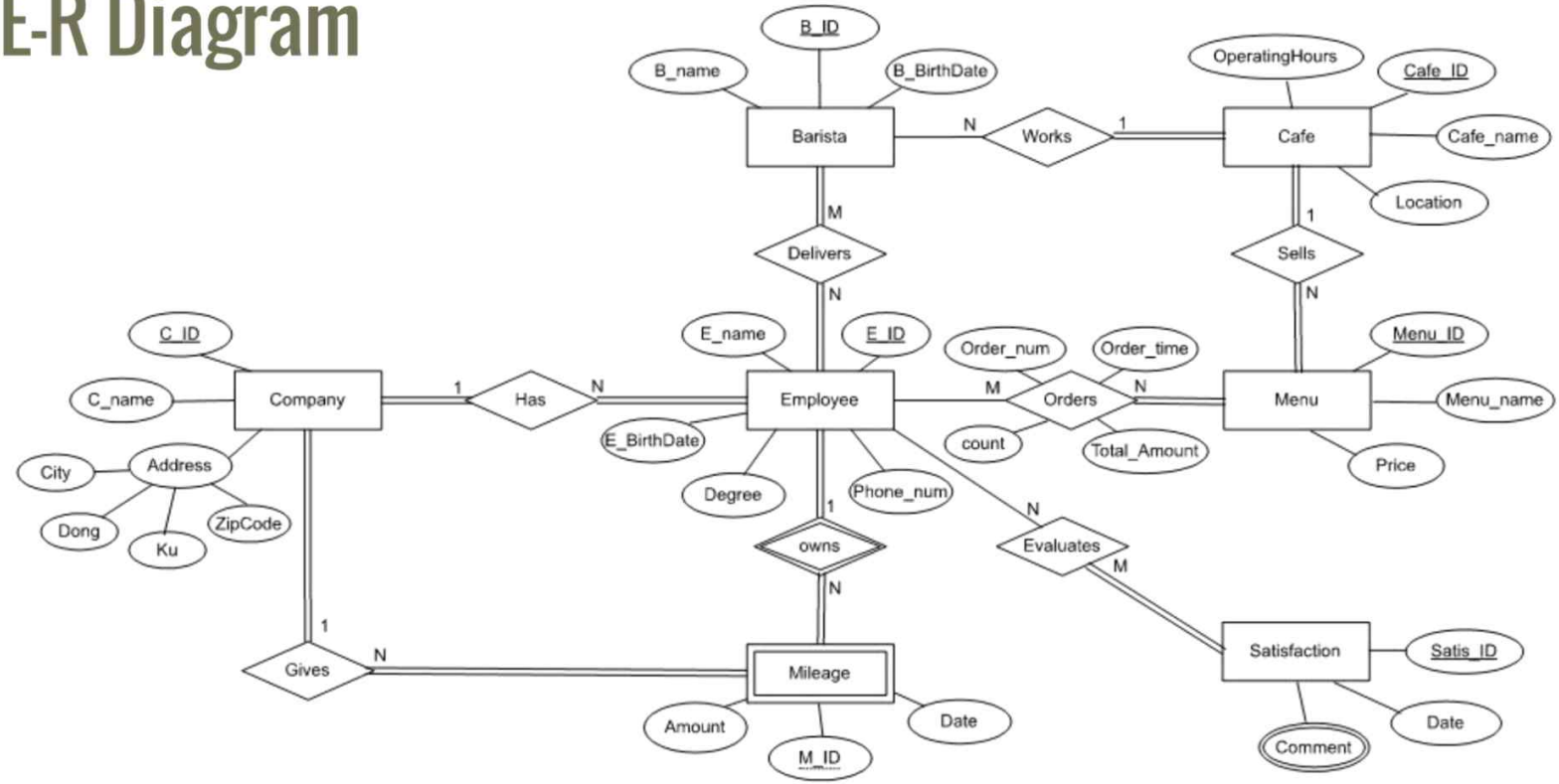
Menu List

Menu Detail

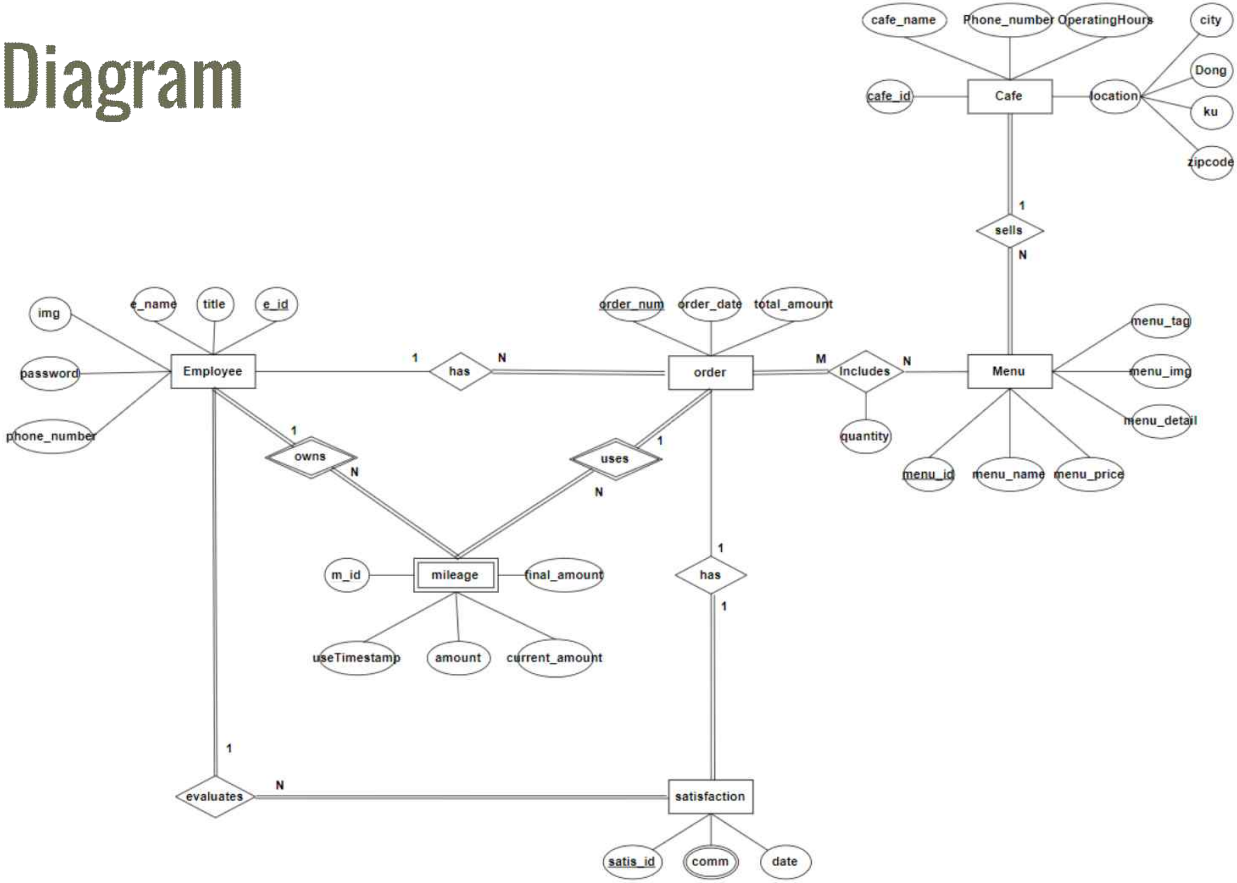


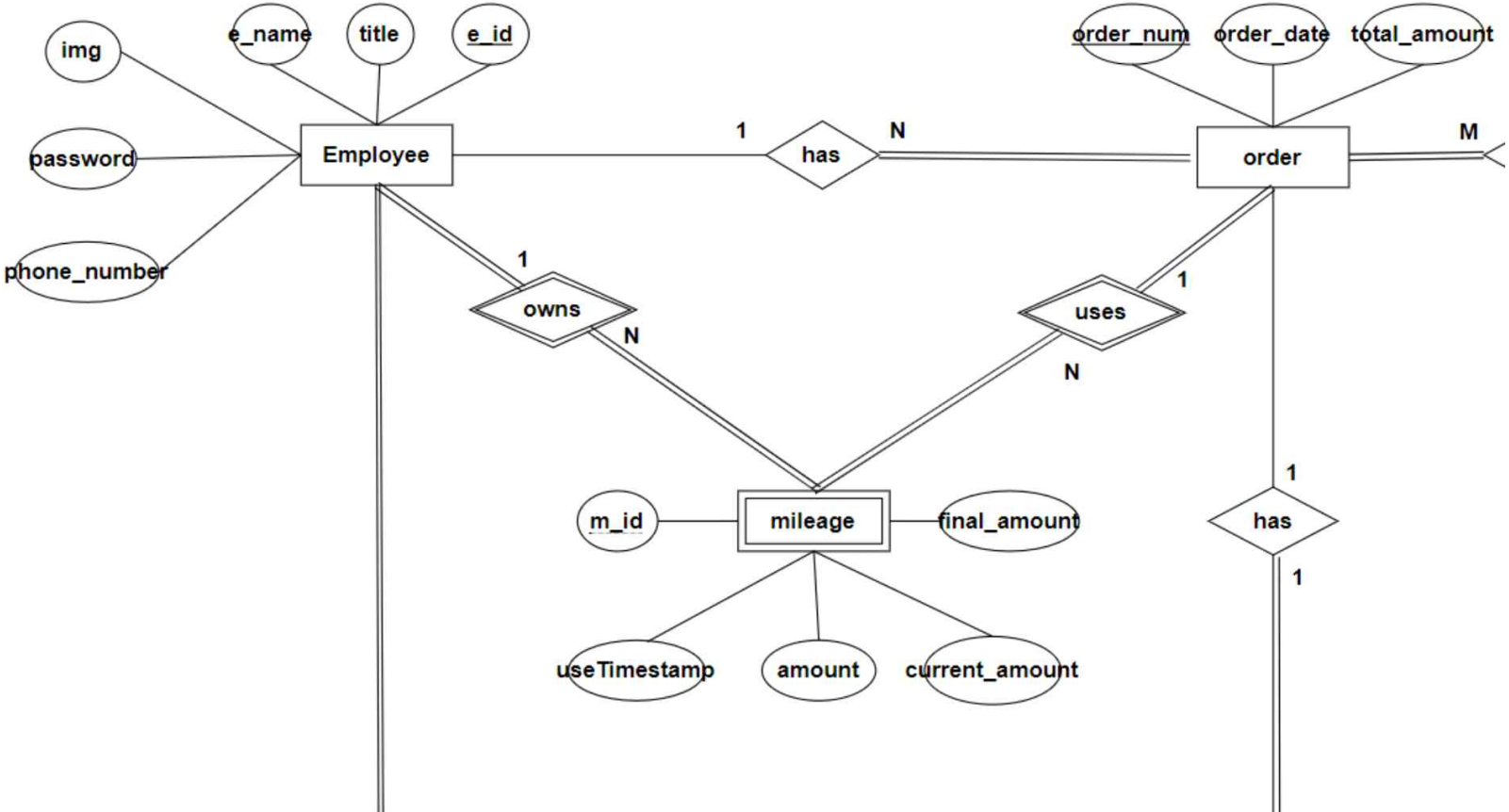
Satisfaction
Evaluation

E-R Diagram

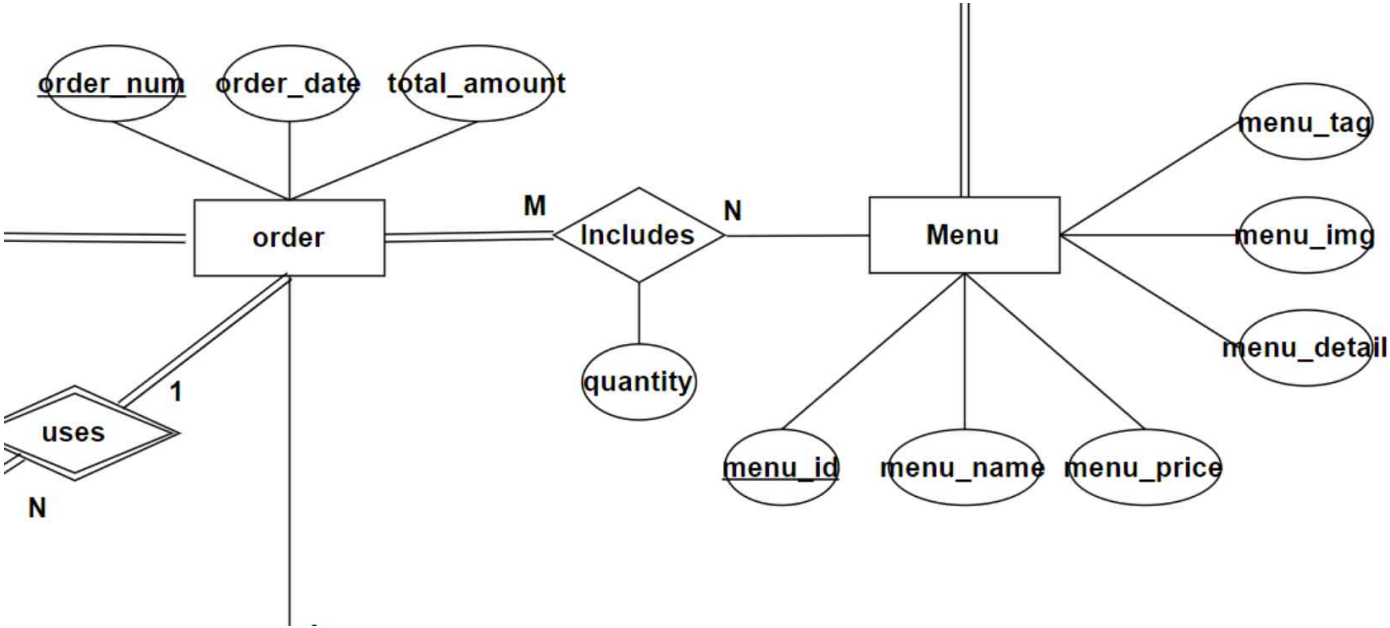

B_ID
B_name
B_BirthDate
Barista
N
Works
1
OperatingHours
Cafe_ID
Cafe
Cafe_name
Location
M
Delivers
1
Sells
N
N
C_ID
C_name
Company
1
Has
N
E_name
E_ID
Employee
E_BirthDate
Degree
Phone_num
Order_num
Order_time
M
Orders
N
count
Total_Amount
Menu_ID
Menu
Menu_name
Price
City
Address
Dong
Ku
ZipCode
1
owns
N
N
Evaluates
M
1
Gives
N
Mileage
Amount
M_ID
Date
Satisfaction
Satis_ID
Date
Comment

E-R Diagram


cafe_name
Phone_number
OperatingHours
city
Dong
ku
zipcode
cafe_id
Cafe
location
1
sells
N
img
e_name
title
e_id
password
Employee
1
has
N
order_num
order_date
total_amount
order
M
Includes
N
Menu
menu_tag
menu_img
menu_detail
phone_number
1
owns
N
uses
1
N
quantity
menu_id
menu_name
menu_price
m_id
mileage
final_amount
useTimestamp
amount
current_amount
1
has
1
1
evaluates
N
satisfaction
satis_id
comm
date


img
e_name
title
e_id
password
Employee
phone_number
1
has
N
order_num
order_date
total_amount
order
M
1
owns
N
1
uses
N
m_id
mileage
final_amount
useTimestamp
amount
current_amount
1
has
1

E-R Diagram


order_num
order_date
total_amount
order
M
Includes
N
Menu
menu_tag
menu_img
menu_detail
quantity
1
uses
N
menu_id
menu_name
menu_price

Tables

employee (e_id/pk, title, e_name, phone_number, password, img)

cafe (cafe_id/pk, cafe_name, phone_number, operatingHours,
city, ku, dong, zipcode)

menu2 (menu_id/pk, menu_name, menu_price, menu_img,
menu_detail, menu_tag)

Tables

includes (order_num(pk, fk), menu_id(pk, fk), quantity)

order2 (order_num(pk), total_amount, order_date, e_id(fk))

mileage (m_id(pk), order_num(pk,fk), e_id(pk,fk), useTimestamp, current_amount, amount, final_amount)

Tables

satisfaction (satis_id(pk), date, order_num(fk), e_id(fk))

comm (comment(pk), satis_id(pk,fk))

Normalization

2nf 정규화

satisfaction -> satis_id, satis_date, order_num, order_date, e_id

satisfaction -> satis_id, satis_date, order_num, e_id

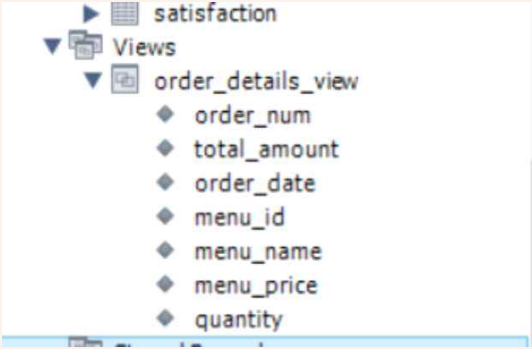
order -> order_num, order_date

Views

```
SELECT o.order_num AS order_num, o.total_amount AS total_amount,
    o.order_date AS order_date, m.menu_id AS menu_id,
    m.menu_name AS menu_name, m.menu_price AS menu_price, i.quantity AS quantity
FROM order2 o
JOIN includes i ON o.order_num = i.order_num
JOIN menu2 m ON i.menu_id = m.menu_id;
```

```
CREATE VIEW order_details_view AS
SELECT o.order_num AS order_num, o.total_amount AS total_amount,
    o.order_date AS order_date, m.menu_id AS menu_id,
    m.menu_name AS menu_name, m.menu_price AS menu_price, i.quantity AS quantity
FROM order2 o
JOIN includes i ON o.order_num = i.order_num
JOIN menu2 m ON i.menu_id = m.menu_id;
```

Views



order_num	total_amount	order_date	menu_id	menu_name	menu_price	quantity
18	10300	2022-03-05 11:49:50	5008	Peach Yogurt Blen...	6300	1
18	10300	2022-03-05 11:49:50	5014	Toffee nut pandoro	4000	1
19	10800	2022-03-07 11:50:01	5005	Cafe Mocha	5000	1
19	10800	2022-03-07 11:50:01	5007	Mango Banana Bl...	5800	1
17	10900	2022-02-25 12:00:24	5000	Americano	5000	2
17	10900	2022-02-25 12:00:24	5001	Caramel Macchiato	5900	2
15	12000	2022-02-05 13:50:18	5009	Strawberry Latte	6100	1
15	12000	2022-02-05 13:50:18	5012	Bacon cheese toast	5900	1

Querys

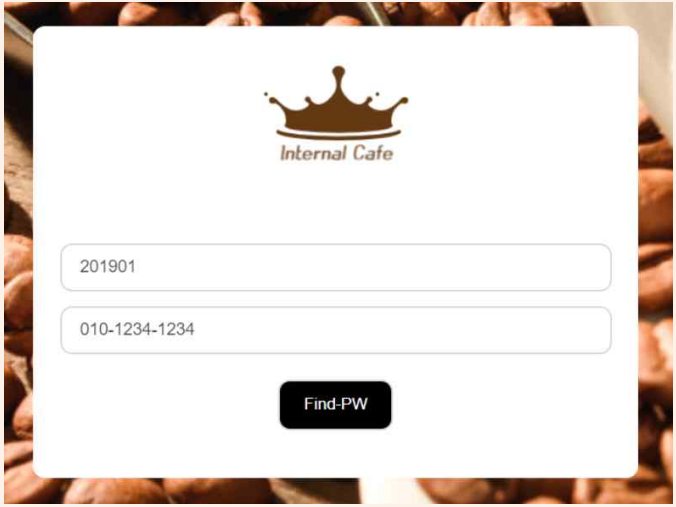
```
$sql = "SELECT * FROM order_details_view WHERE order_num = $orderNum";
$result = $conn->query($sql);
```

주문 상세 내역

메뉴 이름	메뉴 가격	수량
Americano	5000	2
Vanilla Bean Latte	5100	1
Dolce Latte	5900	1

Querys

```
$sql = "SELECT * from employee
        WHERE e_id = '$user_id'
        AND phone_number = '$user_phone'";
```



Querys

```
$current_amount_query =
    "SELECT final_amount
    FROM mileage
    WHERE e_id = '$e_id'
    ORDER BY useTimestamp
    DESC LIMIT 1";
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cel

m_id	order_num	e_id	useTimestamp	current_amount	amount	final_amount
9	19	201901	2022-03-07 11:50:01	4924900	10800	4914100
10	20	201901	2022-03-15 11:50:09	4914100	14800	4899300
11	21	201901	2022-04-05 11:50:22	4899300	55800	4843500
12	22	201901	2022-05-11 11:50:36	4843500	49400	4794100
13	23	201901	2022-06-20 11:53:52	4794100	12200	4781900
25	35	201901	2023-12-11 13:52:00	4781900	25300	4756600
26	36	201901	2023-12-11 13:58:39	4756600	15000	4741600
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Querys

```
$query = "SELECT useTimestamp, current_amount, amount, final_amount
          FROM mileage
          WHERE e_id = $e_id
          ORDER BY useTimestamp ASC";
```

Mileage History

Date	Before Usage	Use Mileage	Remaining Mileage
2022-01-01 11:27:36	0	+5000000	5000000
2022-01-10 11:30:49	5000000	21000	4979000
2022-01-20 15:38:02	5000000	9800	4990200
2022-02-05 13:50:18	4990200	12000	4978200
2022-02-10 11:38:38	4978200	32100	4946100
2022-02-25 12:00:24	4946100	10900	4935200
2022-03-05 11:49:50	4935200	10300	4924900
2022-03-07 11:50:01	4924900	10800	4914100
2022-03-15 11:50:09	4914100	14800	4899300

Querys

```
$query =
"SELECT m_id, useTimestamp, current_amount, amount, final_amount
FROM (
    SELECT m_id, useTimestamp, current_amount, amount, final_amount
    FROM mileage
    WHERE e_id = '$e_id'
    ORDER BY useTimestamp DESC
    LIMIT 6
) AS recent_mileage
ORDER BY useTimestamp ASC";
```

Mileage History

Date	Use Mileage	Final Mileage
2022-03-15 11:50:09	14800	4899300
2022-04-05 11:50:22	55800	4843500
2022-05-11 11:50:36	49400	4794100
2022-06-20 11:53:52	12200	4781900
2023-12-11 13:52:00	25300	4756600
2023-12-11 13:58:39	15000	4741600

Querys

```php
$e_id = $_SESSION['e_id'];
$sql =
"SELECT s.satis_id AS satis_id, s.date AS date, s.order_num AS order_num, c.comment AS
comment, COUNT(quantity) AS menu_quantity
FROM satisfaction s, comm c, includes i
WHERE s.order_num = i.order_num
AND c.satis_id = s.satis_id
AND s.e_id = $e_id
GROUP BY i.order_num
ORDER BY s.satis_id";
$result = $conn->query($sql);
```

만족도 평가 내역

일시	주문 번호	메뉴 수량	평가
2022-01-11 11:30:49	13	3	만족
2022-01-21 15:38:02	14	2	보통
2022-02-05 13:50:18	15	2	불만족
2022-02-10 11:38:38	16	6	보통
2022-03-06 11:49:50	18	2	불만족
2022-03-10 11:50:01	19	2	만족
2023-12-11 13:52:30	21	3	보통

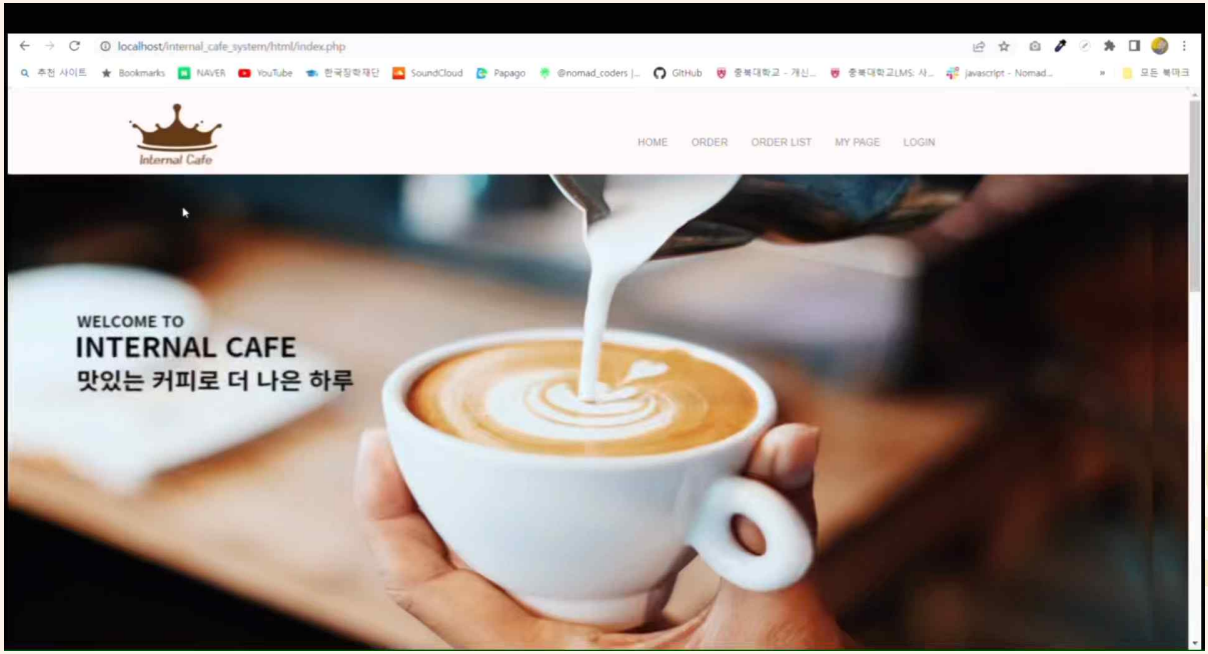
Querys

```
$e_id = $_SESSION['e_id'];
$sql =
"SELECT recent_satisfaction.satis_id, recent_satisfaction.date,
recent_satisfaction.order_num, recent_satisfaction.comment,
recent_satisfaction.menu_quantity
FROM (
    SELECT s.satis_id, s.date, s.order_num, c.comment, COUNT(i.quantity)
    AS menu_quantity
    FROM satisfaction s
    JOIN comm c ON s.satis_id = c.satis_id
    JOIN includes i ON s.order_num = i.order_num
    WHERE s.e_id = $e_id
    GROUP BY s.satis_id, s.date, s.order_num, c.comment
    ORDER BY s.satis_id DESC
    LIMIT 6
) AS recent_satisfaction
ORDER BY recent_satisfaction.satis_id ASC;
";
```

Satisfaction 평가

order Num	Date	Satisfaction
18	2022-03-06 11:49:50	불만족
19	2022-03-10 11:50:01	만족
21	2023-12-11 13:52:30	보통
22	2023-12-11 13:53:55	불만족
23	2023-12-11 13:54:43	불만족
36	2023-12-11 13:59:20	만족

Demo


localhost/internal_cafe_system/html/index.php
Internal Cafe
HOME
ORDER
ORDER LIST
MY PAGE
LOGIN
WELCOME TO
INTERNAL CAFE
맛있는 커피로 더 나은 하루