資料庫系統期末報告

虎尾美食推薦系統

指導老師：江季翰

組　　　別：第十四組

成　　　員：41043104 郭俞汎
　　　　　　41043146 張哲維
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目錄

一、應用情境

　　當你第一次來到虎尾，人生地不熟，不知道要吃哪一家餐廳的時候該怎麼辦呢，本系統可以根據使用者輸入的喜好類別，推薦合適的餐廳給使用者。使用者要先註冊並登入系統，並且輸入自己的喜好類別後，就可以查看推薦的餐廳以及餐廳的詳細資料。以下是幾個具體的應用情境：

- ◆ 初來乍到，滿足第一次踏足虎尾的美食之旅

  1. 情境描述：小明和他的三個朋友剛從台北開車到虎尾渡假，這是他們第一次來虎尾，對當地的美食店家一無所知。到了晚上，大家都開始肚子餓了，想要找間不錯的餐廳用餐。

  2. 系統應用：
     (1) 小明打開虎尾美食推薦系統，點選註冊新會員，填寫基本資料完成註冊。
     (2) 登入後，系統詢問小明的喜好類別，小明勾選了「燒肉」、「丼飯」和「甜食」三個類別。
     (3) 系統根據小明的喜好，過濾和分析虎尾所有餐廳的菜色類別，很快產生一份推薦名單。
     (4) 透過打開推薦清單中的 Google 地圖連結，小明看到「色鼎燒肉」這家店的介紹：提供燒肉、丼飯和甜點等多種菜色，營業到晚上 11 點，離小明下榻的旅館也不太遠。
     (5) 小明點開看到具體位置和路線導航後，決定就帶著三個朋友前往這家餐廳用餐。

- ◆ 熟門熟路，想換口味卻想不到合適的餐廳

  1. 情境描述：老王是虎尾科大的學生，住在虎尾兩年了，他不喜歡每天都吃同樣的餐點，但卻想不到要吃什麼，詢問同學也得到了「不知道欸？你要吃什麼」的回答。

  2. 系統應用：
     (1) 老王打開虎尾美食推薦系統，登入後系統詢問老王的喜好類別，老王發現自己在上次選擇了「火鍋」這個類別。
     (2) 老王覺得火鍋已經吃過了，取消掉火鍋的選項，改選擇了「麵類」。
     (3) 系統根據老王的喜好，過濾和分析虎尾所有餐廳的菜色類別，很快產生一份推薦名單。
     (4) 在推薦清單中，老王看到「客家庄」、「熬鍋燒」等店家，他們都有販賣麵類，透過打開推薦清單中的 Google 地圖連結後發現「敖鍋燒」比較便宜，於是老王選擇了「熬鍋燒」。
     (5) 老王找了朋友們一起騎車去吃「熬鍋燒」。

二、系統需求說明

1. 系統概述

　　本系統是旨在幫助使用者找尋虎尾地區的美食店家，根據其個人喜好進行推薦。系統主要功能包括管理員登入、會員登入、美食店家資料管理、會員喜好類別輸入、推薦項目清單產生等。

2. 功能需求

　(1) 會員管理
　　◆ 使用者會員註冊
　　◆ 使用者會員登入
　　◆ 使用者忘記密碼功能
　　◆ 管理員查看會員數量 (無法查看會員個人資料)

　(2) 美食店家管理
　　◆ 管理員新增、刪除、更新店家資訊
　　◆ 使用者瀏覽店家列表

　(3) 喜好類別管理
　　◆ 管理員新增、刪除喜好類別
　　◆ 管理員為店家新增類別
　　◆ 使用者設定自己的喜好類別

　(4) 推薦項目生成
　　◆ 系統根據會員的喜好類別，隨機產生符合類別的 2 個推薦店家
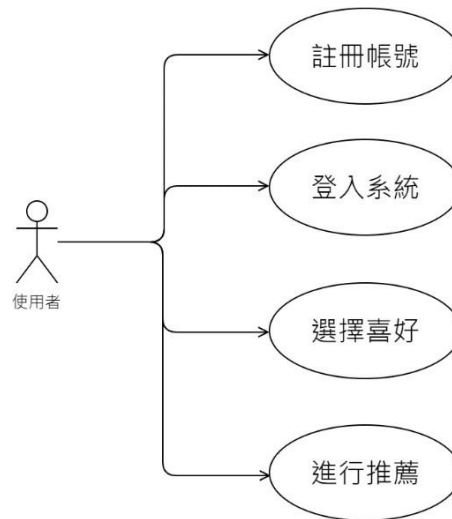
　(5) 安全性
　　◆ 密碼獨立資料表儲存
　　◆ 一般管理員無法查看會員個人資料

三、使用案例

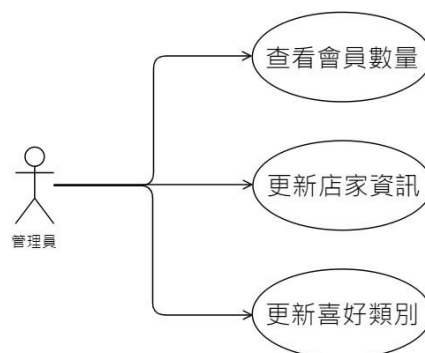1. 使用者角色

在此系統中，使用者的使用過程包含以下幾個步驟：
- 註冊帳號：使用者需要在系統上註冊，這涉及使用者資料的儲存，對應資料庫中「Member」實體。
- 登入系統：使用者可以透過註冊的帳號密碼登入，對應「Member」與「Password」實體的存取。
- 選擇喜好：使用者可以自行選擇喜好類別，對應「Category」與「Preference」實體的關聯與修改。
- 進行推薦：使用者可以點擊推薦功能，對應「Restaurant」與「Recommendation」實體的關聯與新增。

2. 管理員角色

在此系統中，管理員的使用過程包含以下幾個步驟：
- 查看會員數量：管理員可以在系統上查看會員數量，這涉及對「Member」實體數量的存取。

5

- 更新店家資訊：管理員可以在系統上更新店家的相關資訊，這涉及對「Restaurant」與「Hours」實體的修改。
- 更新喜好類別：管理員可以在系統上新增、刪除喜好類別，這涉及對「Category」實體的修改。

四、資料概念層模型

1. 會員 (Member) 資料表

Member

欄位名稱	說明	資料型態	是否為空	值域
mId	會員 ID 管理使用	int	N	從 1 開始遞增的整數
mAccount	會員帳號 登入使用	string	N	長度 6~20 的英數字混合 Unique Constraints
mName	姓名	string	N	長度 2~12 的文字
mEmail	電子郵件	string	N	需有 @ 網域 Unique Constraints
mPhone	連絡電話	string	Y	09xxxxxxxx 以上數字
mAddress	常用地址	string	Y	長度 1~64 的文字
mCreateDate	建立日期	date	N	日期格式

2. 喜好類別 (Category) 資料表

Category

欄位名稱	說明	資料型態	是否為空	值域
cId	喜好類別 ID	int	N	從 1 開始遞增的整數
cName	喜好類別名稱	string	N	長度 1~16 的文字

3. 營業時間 (Hours) 資料表

Hours

欄位名稱	說明	資料型態	是否為空	值域
rHoursId	營業時間 ID	int	N	從 1 開始遞增的整數
day	星期幾的營業時間	string	N	符合英文星期縮寫
start_hr	在幾點開始營業	int	Y	符合時間 24 小時制
start_min	在幾分開始營業	int	Y	符合時間的分鐘
end_hr	在幾點結束營業	int	Y	符合時間 24 小時制
end_min	在幾分結束營業	int	Y	符合時間的分鐘

4. 餐廳 (Restaurant) 資料表

Restaurant

欄位名稱	說明	資料型態	是否為空	值域
rId	店家 ID	int	N	從 1 開始遞增的整數
rName	店家名稱	string	N	長度 1~20 的文字
rAddress	店家地址	string	N	長度 1~64 的文字
rPhone	店家電話	string	Y	05622xxxx 以上號碼
rHoursID	營業時間 ID	int	Y	參考 Hours 的 rHoursId
cId	類別 ID	int	N	參考 Category 的 cId
rLink	Google Map 連結	string	Y	Google Map 連結

5. 店家類別 (resCate) 資料表

resCate

欄位名稱	說明	資料型態	是否為空	值域
rId	店家 ID	int	N	參考 Restaurant 的 rId
cId	類別 ID	int	N	參考 Category 的 cId

6. 會員喜好類別 (Preference) 資料表

Preference

欄位名稱	說明	資料型態	是否為空	值域
mId	會員 ID	int	N	參考 Member 的 mId
cId	類別 ID	int	N	參考 Category 的 cId

7. 推薦清單 (Recommendation) 資料表

Recommendation

欄位名稱	說明	資料型態	是否為空	值域
recId	推薦 ID	int	N	從 1 開始遞增的整數
mId	會員 ID	int	N	參考 Member 的 mId
rIdA	店家 1 ID	int	N	參考 Restaurant 的 rId
rIdB	店家 2 ID	int	N	參考 Restaurant 的 rId
recDate	推薦日期	date	N	日期格式

8. 會員密碼 (Password) 資料表

Password

欄位名稱	說明	資料型態	是否為空	值域
mId	會員 ID	int	N	參考 Member 的 mId
mPd	會員密碼	string	N	長度 12~20 的英數字混合

五、ER Diagram
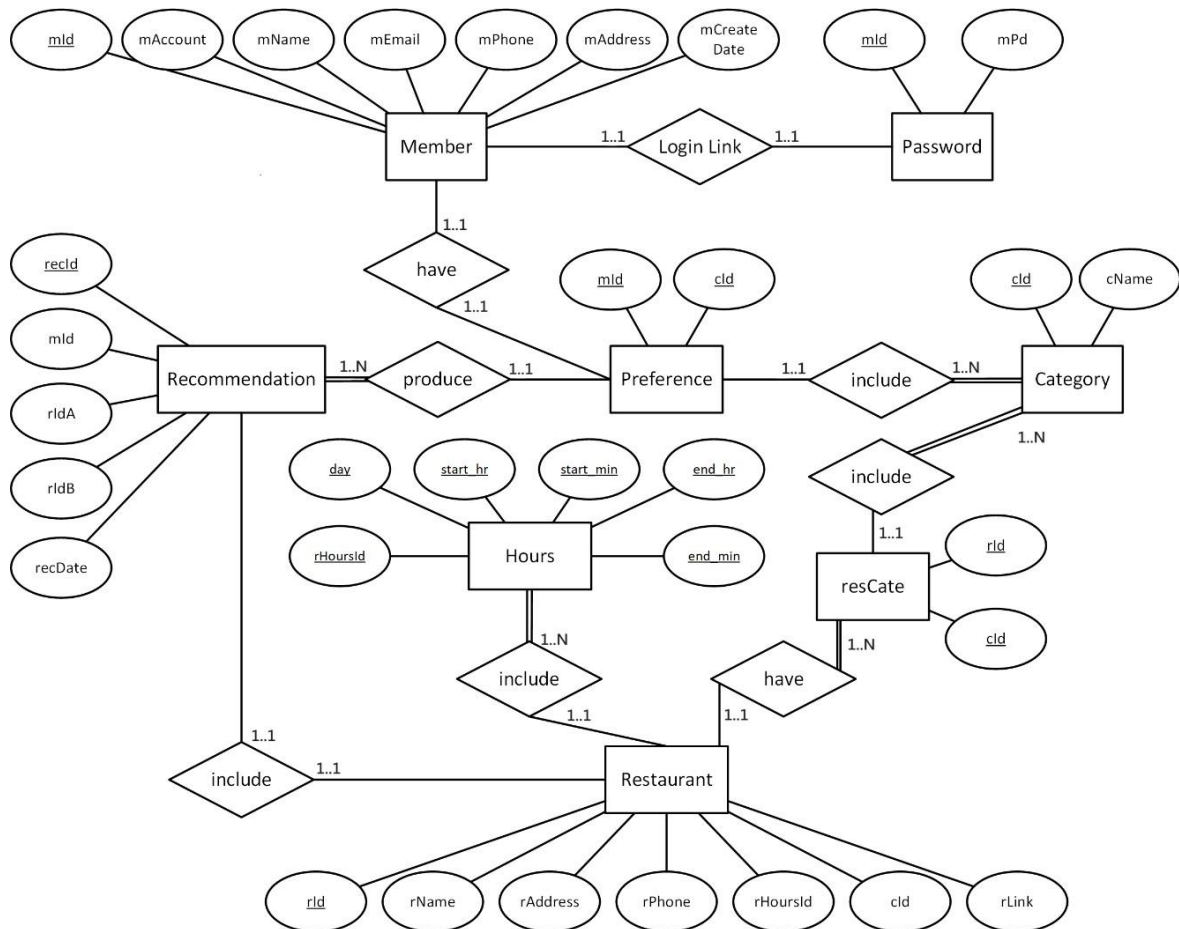
1. 會員 (Member) 資料表屬性
   - 會員 ID (mId)
   - 會員帳號 (mAccount)
   - 姓名 (mName)
   - 電子郵件 (mEmail)
   - 連絡電話 (mPhone)
   - 常用地址 (mAddress)
   - 建立日期 (mCreateDate)

2. 喜好類別 (Category) 資料表屬性
   - 類別 ID (cId)
   - 類別名稱 (cName)

3. 營業時間 (Hours) 資料表屬性
   - 營業時間 ID (rHoursId)
   - 營業星期 (day)
   - 營業開始時 (start_hr)
   - 營業開始分 (start_min)

- ◆ 營業結束時 (end_hr)
- ◆ 營業結束分 (end_min)

4. 餐廳 (Restaurant) 資料表屬性
   - ◆ 店家 ID (rId)
   - ◆ 店家名稱 (rName)
   - ◆ 店家地址 (rAddress)
   - ◆ 店家電話 (rPhone)
   - ◆ 營業時間 ID (rHoursId)
   - ◆ 類別 ID (cId)
   - ◆ Google Map 連結 (rLink)

5. 店家類別 (resCate) 資料表屬性
   - ◆ 店家 ID (rId)
   - ◆ 類別 ID (cId)

6. 會員喜好類別 (Preference) 資料表屬性
   - ◆ 會員 ID (mId)
   - ◆ 類別 ID (cId)

7. 推薦清單 (Recommendation) 資料表屬性
   - ◆ 推薦 ID (recId)
   - ◆ 會員 ID (mId)
   - ◆ 店家 1 ID (rIdA)
   - ◆ 店家 2 ID (rIdB)
   - ◆ 推薦日期 (recDate)

8. 會員密碼 (Password) 資料表屬性
   - ◆ 會員 ID (mId)
   - ◆ 會員密碼 (mPd)

9. 關聯
   - ◆ 「Member」與「Password」實體有一對一 (1..1) 的關係，每個使用者僅有一組密碼。
   - ◆ 「Member」與「Preference」實體有一對一 (1..1) 的關係，每個使用者對應到一整組喜好。
   - ◆ 「Preference」與「Category」實體有一對多 (1..n) 的關係，每組使用者喜好對應到多個喜好類別。
   - ◆ 「Preference」與「Recommendation」實體有一對多 (1..n) 的關係，每組使用者喜好可以產生多個推薦清單。
   - ◆ 「Restaurant」與「Hours」實體有一對多 (1..n) 的關係，每個店家有不同的營業時段。
   - ◆ 「Restaurant」與「Recommendation」實體有一對一 (1..1) 的關係，每個店家對應到一組推薦清單。

- 「Restaurant」與「resCate」實體有一對多 (1..n) 的關係,每個店家對應到多個類別。
- 「resCate」與「Category」實體有一對多 (1..n) 的關係,每個店家類別對應到多個喜好類別。

六、資料庫Schema

1. 會員 (Member) 資料表 SQL

```
CREATE TABLE member(
    mID int NOT NULL AUTO_INCREMENT,
    mName VARCHAR(12) NOT NULL,
    mAccount VARCHAR(20) NOT NULL,
    mEmail VARCHAR(50) NOT NULL,
    mPhone CHAR(10), mAddress
    VARCHAR(64),
    mCreateDate DATE NOT NULL,
    PRIMARY KEY(mID),
    UNIQUE(mAccount),
    UNIQUE(mEmail)
);
```

```
INSERT INTO member (mAccount, mName,mEmail, mPhone, mAddress, mCreateDate)
VALUES
("yf0612",      "郭俞汎", "41043104@nfu.edu.tw", "0900787955", "雲林縣虎尾鎮新生
路 74 號", 20240527),
("pp9988",      "無名氏", "94879487@gmail.com", "0987987987", "雲林縣虎尾鎮文化路
87 號", 20240527),
("chen.meiling", "陳美玲", "chen.meiling@gmail.com", "0921789584", "
雲林縣虎尾鎮中正路 376 號", 20240613),
("zhang.zhihao", "張志豪", "zhang.zhihao@gmail.com", "0918254368", "
雲林縣虎尾鎮忠孝路 126 號", 20240613),
("lin.shuhan", "林書涵", "lin.shuhan@gmail.com", "0909987514", "雲林縣虎尾鎮林森路二
段 24 號", 20240613),
("li.jiaxin", "李嘉欣", "li.jiaxin@gmail.com", "0933452841", "雲林縣虎尾鎮民主八路 44 號",
20240613),
("wang.yuxiang", "王宇翔", "wang.yuxiang@gmail.com", "0932542855", "
雲林縣虎尾鎮西平路 26 號", 20240613);
```

2. 喜好類別 (Category) 資料表 SQL

```
CREATE TABLE category(
    cID INT NOT NULL AUTO_INCREMENT,
```

```sql
    cName VARCHAR(16) NOT NULL,
    PRIMARY KEY(cID)
);

INSERT INTO category(cName) VALUES
("沙拉"),("丼飯"),("咖哩"),("炸物"),("羹類"),("麵類"),("飯類"),
("湯類"),("拉麵"),("日式料理"),("燒肉"),("吃到飽"),("素食"),("鴨肉"),
("麵線"),("冬粉"),("米血"),("蚵仔煎"),("健康餐"),("烏龍麵"),("鍋燒"),
("豆花"),("剉冰"),("火鍋"),("水餃"),("漢堡"),("宵夜"),("輕食"),
("義大利麵"),("咖啡"),("早午餐"),("海鮮"),("炒飯"),("石鍋"),("簡餐"),
("燉飯"),("鬆餅"),("定食"),("燒烤"),("飯糰"),("甜食"),("脆皮豬"),
("焗烤"),("披薩"),("滷味"),("地瓜球"),("地瓜薯條"),("地瓜牛奶"),
("蔥肉煎包"),("韭香煎餃"),("排餐"),("壽司"),("握壽司"),("臭豆腐"),
("鴨血"),("吐司"),("蛋餅"),("飲料"),("生魚片"),("熱炒"),("串燒"),
("酒類"),("套餐"),("牛排"),("豬排"),("雞排"),("鐵板麵"),("玉米濃湯"),
("泡麵"),("台灣菜"),("關東煮"),("蔬食"),("韓式料理"),("炸雞"),
("豆腐鍋"),("義式料理"),("壽喜燒飯"),("牛肉麵"),("滷肉飯"),("雞肉飯"),
("台式便當"),("酒吧"),("燴飯"),("炒麵"),("鹹酥雞"),("飯捲"),("冰品"), ("意麵"),("包子
"),("饅頭");
```

3. 營業時間 (Hours) 資料表 SQL

```sql
CREATE TABLE hours( rHoursID
    INT NOT NULL,
    day CHAR(3) NOT NULL CHECK(day in('Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', 'Sun')),
    start_hr NUMERIC(2) CHECK(start_hr >= 0 and start_hr <= 24), start_min
    NUMERIC(2) CHECK(start_min>=0 and start_min<60), end_hr
    NUMERIC(2)CHECK (end_hr >= 0 and end_hr <= 24), end_min
    NUMERIC(2)CHECK(end_min>=0 and end_min<60),
    PRIMARY KEY(rHoursID, day, start_hr, start_min, end_hr, end_min)
);

INSERT INTO hours VALUES
(1,  "Mon",  11,  30,  14, 30),  (1,  "Mon",  17,   0, 20,     0),
(1,  "Thu",  11,  30,  14, 30),  (1,  "Thu",  17,   0, 20,     0),
(1,  "Fri",  11,  30,  14, 30),  (1,  "Fri",  17,   0, 20,     0),
(1,  "Sat",  11,  30,  14, 30),  (1,  "Sat",  17,   0, 20,     0),
(1,  "Sun",  11,  30,  14, 30),  (1,  "Sun",  17,   0, 20,     0),
(2,  "Tue",  11, 0, 14,  0),  (2,  "Tue",  17,   0,  20,  0),
(2,  "Wed",  11, 0, 14,  0),  (2,  "Wed",  17,   0,  20,  0),
(2,  "Thu",  11, 0, 14,  0),  (2,  "Thu",  17,   0,  20,  0),
(2,  "Fri",  11, 0, 14,  0),  (2,  "Fri",  17,   0,  20,  0),
(2,  "Sat",  11, 0, 14,  0),  (2,  "Sat",  17,   0,  20,  0),
(3,  "Tue",  6, 30, 12,  30),  (3,  "Wed",  6,  30, 12,  30),
(3,  "Thu",  6, 30, 12,  30),  (3,  "Fri",  6,  30, 12,  30),
(3,  "Sat",  6, 30, 12,  30),  (3,  "Sun",  6,  30, 12,  30),
(4,  "Mon",  11,  14,  17, 21),  (4,  "Tue",  11, 14, 17,   21),
(4,  "Wed",  11,  14,  17, 21),  (4,  "Thu",  11, 14, 17,   21),
(4,  "Fri",  11,  14,  17, 21),  (4,  "Sat",  11, 14, 17,   21),
(4,  "Sun",  11,  14,  17, 21),  (5,  "Mon",  11,   0, 22, 30),
(5,  "Tue",  16, 0, 22,  30),  (5,  "Wed",  16,  0, 22, 30),
(5,  "Thu",  16, 0, 22,  30),  (5,  "Fri",  11,   0, 22, 30),
(5,  "Sat",  10,  50, 23, 0),       (5,  "Sun",  10,  50, 23, 0),
(6,  "Mon",  17,  0,  20,  30),  (6,  "Tue",  17,   0,  20,   30),
```

(6, "Wed", 17, 0, 20, 30), (6, "Thu", 17, 0, 20, 30),
(6, "Fri", 17, 0, 20, 30), (6, "Sat", 17, 0, 20, 30),
(7, "Mon", 11, 0, 14, 0), (7, "Mon", 17, 0, 22, 0),
(7, "Tue", 11, 0, 14, 0), (7, "Tue", 17, 0, 22, 0),
(7, "Wed", 11, 0, 14, 0), (7, "Wed", 17, 0, 22, 0),
(7, "Thu", 11, 0, 14, 0), (7, "Thu", 17, 0, 22, 0),
(7, "Fri", 11, 0, 14, 0), (7, "Fri", 17, 0, 22, 0),
(7, "Sat", 11, 0, 14, 0), (8, "Mon", 11, 30, 14, 0),
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4. 餐廳 (Restaurant) 資料表 SQL

```
CREATE TABLE restaurant(
    rID INT NOT NULL NOT NULL AUTO_INCREMENT,
    rName VARCHAR(30) NOT NULL,
    rAddress VARCHAR(64) NOT NULL,
    rPhone CHAR(10),
    rHoursID INT, cID
    INT,
    rLink VARCHAR(100),
    PRIMARY KEY(rID),
    FOREIGN KEY(cID) REFERENCES category(cID) ON DELETE SET NULL, FOREIGN
    KEY(rHours) REFERENCES hours(rHoursID) ON DELETE SET NULL
);
```

INSERT INTO restaurant(rID,rName,rAddress,rPhone,rHours,rLink) VALUES (1,"樂飯樂販","雲林縣虎尾鎮自強街 31 號","056310673",1, "https://maps.app.goo.gl/4ZT4XMCax78Y1ANt5"),
(2,"第8間咖哩","雲林縣虎尾鎮文化路 88 號","056311288",2,
"https://maps.app.goo.gl/xS93PNQkDyuNdNx9A"),
(3,"虎尾美貞肉羹麵","雲林縣虎尾鎮中山路 23 巷2-2號","",3,
"https://maps.app.goo.gl/29f6CWfwcQXAKyPp9"),
(4,"川息拉麵丼飯","雲林縣虎尾鎮林森路二段 111 號","0921794642",4,
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(5,"色鼎燒肉","雲林縣虎尾鎮林森路二段 125 號","056361748",5,
"https://maps.app.goo.gl/gdmGx9vgotzq7bUn8"), (6,"老王當歸鴨
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(7,"野瘦派","雲林縣虎尾鎮中正路 406 號","056338228",7,
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(9,"虎尾火車鍋燒意麵","雲林縣虎尾鎮文化路 55巷2之2號","0933439226",9,
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(10,"吉慶冰沙豆花","雲林縣虎尾鎮中山路 3-23號","056366559",10,
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(11,"築間幸福鍋物","雲林縣虎尾鎮忠孝路 8 號","056363727",11,
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(13,"伊府將鍋燒","雲林縣虎尾鎮中正路 279-1號","0918212867",13,
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(14,"雲穀牛禾","雲林縣虎尾鎮八德街 58號","",14,
"https://maps.app.goo.gl/q5xR8KDGatui2KfV7"),
(15,"三國饌鴛鴦麻辣鍋","雲林縣虎尾鎮中正路 238號","056325889",15,
"https://maps.app.goo.gl/ox1D7uN5r7y1y5r48"),

(16,"三人行炸雞","雲林縣虎尾鎮中正路 299 號","0955439919",16,
"https://maps.app.goo.gl/wmpRt1XkEbqRL4Yv8"),
(17,"熬鍋燒","雲林縣虎尾鎮中正路 175 號","056326672",17,
"https://maps.app.goo.gl/2LoobkbAFFYRcYRF8"),
(18,"福斯咖啡","雲林縣虎尾鎮中正路 396 號","056311130",18,
"https://maps.app.goo.gl/UCw8HxAqmZkuJde69"),
(19,"甜甜早餐概念屋","雲林縣虎尾鎮文化路 7 號","056322366",19,
"https://maps.app.goo.gl/aVJbdDXDn7MsPKxN7"),
(20,"咖哩老師虎尾店","雲林縣虎尾鎮中央街 7 號","0987990993",20,
"https://maps.app.goo.gl/GXRVwwaMDCeFN4ZGA"),

(21,"伍家虎尾鱔魚麵","雲林縣虎尾鎮民生路 50-1 號","0979919137",21,
"https://maps.app.goo.gl/zdpVX1XUsuESkQkz7"),
(22,"春天義禾複合式廚房","雲林縣虎尾鎮林森路一段 375 號","056311616",22,
"https://maps.app.goo.gl/FUtEfYoC7vtpDa5Z7"),
(23,"健康那件小事","雲林縣虎尾鎮中山路 107 號","056330125",23,
"https://maps.app.goo.gl/9oVvF1qNZwgozWTHA"),
(24,"一廣大乾麵","雲林縣虎尾鎮中正路 83 號","",24,
"https://maps.app.goo.gl/mtmADHCRnbPAAzwFA"), (25,"木子","
雲林縣虎尾鎮復興路 5 號","056324075",25,
"https://maps.app.goo.gl/qWpVEE6EurJ15Emy6"),
(26,"覓巷廚坊","雲林縣虎尾鎮林森路一段 614 巷 10 號","0975756020",26,
"https://maps.app.goo.gl/pxpxp9DwirAXpxUj8"),
(27,"微樂生活咖啡","雲林縣虎尾鎮林森路一段 429 號","056311972",27,
"https://maps.app.goo.gl/xvHm5qZQZ3PvBLg48"),
(28,"虎尾有特色滷味","雲林縣虎尾鎮福民路 80 號","0909090702",28,
"https://maps.app.goo.gl/VgbVJujZx7b8TV658"),
(29,"虎尾地瓜球","雲林縣虎尾鎮忠孝路 210 號","0930035031",29,
"https://maps.app.goo.gl/vgh13prZGTbK7Xjn9"),
(30,"黃金比利","雲林縣虎尾鎮立德路 1 號","0958881606",30,
"https://maps.app.goo.gl/SYokA6rbBVtXpJaN9"),

(31,"Sunny Q 陽光公主 義國餐廳","雲林縣虎尾鎮信義路 69 號
","056360298",31, "https://maps.app.goo.gl/eLa9riDxtJ9eVy6K8"),
(32,"火鍋世家 ","雲林縣虎尾鎮林森路 1段號 285 號","056310002",32,
"https://maps.app.goo.gl/WxRzA5gEehSNj9EL6"),
(33,"藝壽司","雲林縣虎尾鎮林森路二段 549 號","0987901873",33,
"https://maps.app.goo.gl/gDorVr5D63fDV5XZ9"),
(34,"野川堂秘境鍋物","雲林縣虎尾鎮林森路二段 440 號","056362877",34,
"https://maps.app.goo.gl/nf2JKSbTyX8j1jNm7"),
(35,"大吉祥香豆腐","雲林縣虎尾鎮林森路二段 301 號","056311158",35,
"https://maps.app.goo.gl/o2KwPcrc4TAVkzcu8"),
(36,"虎尾豆奶攤","雲林縣虎尾鎮林森路二段 246-1 號","056366520",36,
"https://maps.app.goo.gl/TCysf8RGbhicTQnt7"),
(37,"虎尾宮本屋","雲林縣虎尾鎮民主路 58 之 3 號","056360099",37,
"https://maps.app.goo.gl/rgbeKtFtMWhx73EG8"),
(38,"參壹","雲林縣虎尾鎮林森路二段 477 巷 73 號","0985703492",38,
"https://maps.app.goo.gl/umDL2fXiDnTrrVjP6"),
(39,"蒸饌","雲林縣虎尾鎮林森路二段 386 號","056310638",39,
"https://maps.app.goo.gl/BjnEPfMqWfDk1hzv5"),

(40,"春子麵","雲林縣虎尾鎮林森路二段477巷2號","0984266683",40,
"https://maps.app.goo.gl/ZrHrChpgEpMmDHA8A"),

(41,"虎尾婆婆的店","雲林縣虎尾鎮工專路27號","",41,
"https://maps.app.goo.gl/jrEgLfGEHFg4XbtFA"),
(42,"王犇牛排","雲林縣虎尾鎮林森路二段209號","056310982",42,
"https://maps.app.goo.gl/PuK1csGegdS7LrZg7"),
(43,"多肉丼物","雲林縣虎尾鎮四維街26號","056366293",43,
"https://maps.app.goo.gl/g44fXWi7brrR3FbJ8"),
(44,"客家莊","雲林縣虎尾鎮吉安街5號","056332206",44,
"https://maps.app.goo.gl/LTtxYJPgLgn9qsmv6"),
(45,"鹿島和居","雲林縣虎尾鎮立新街91號","0979269115",45,
"https://maps.app.goo.gl/qfqpriXfvPVQWF9r7"),
(46,"全州韓二石","雲林縣虎尾鎮信義路32號","056321999",46,
"https://maps.app.goo.gl/AeL7byf92QkDaAx1A"), (47,"50Pizza","雲林縣虎尾
鎮中正路235號","056330606",47,
"https://maps.app.goo.gl/o8WVfatkyMPXxsJR9"),
(48,"一魂拉麵","雲林縣虎尾鎮立德路137號","056324702",48,
"https://maps.app.goo.gl/aEaYM6U1yNzqSguf6"),
(49,"一江拉麵","雲林縣虎尾鎮林森路二段477巷","056363921",49,
"https://maps.app.goo.gl/7nZoTaNszYNqwx7XA"),
(50,"職人雙響丼","雲林縣虎尾鎮中正路295號","056337578",50,
"https://maps.app.goo.gl/rxKwvMH8ajwWerYn9"),

(51,"捌食光年","雲林縣虎尾鎮長春路13號","056327922",51,
"https://maps.app.goo.gl/QuphK6MXs1KWMwNX6"),
(52,"口福牛肉麵","雲林縣虎尾鎮中正路308號","056362035",52,
"https://maps.app.goo.gl/x4zh7JvedT6V1qBp8"),
(53,"阿財雞肉飯","雲林縣虎尾鎮林森路二段90號","056324516",53,
"https://maps.app.goo.gl/6vJBjZRifUH6wLrq6"),
(54,"大口五米飯","雲林縣虎尾鎮民主路18-13號","056339376",54,
"https://maps.app.goo.gl/j7j5k9kFvBbZwuAbA"),
(55,"老賴茶棧","雲林縣虎尾鎮文化路53號","056322152",55,
"https://maps.app.goo.gl/kUVWmtTyFxJf7ECh6"),
(56,"偷偷飯糰","雲林縣虎尾鎮文化路75號","056325211",56,
"https://maps.app.goo.gl/KhWcgbvFM8AGG61d9"),
(57,"藤原","雲林縣虎尾鎮林森路一段533號","056311452",57,
"https://maps.app.goo.gl/ELyQuecsifqGZSyDA"),
(58,"味道關東煮","雲林縣虎尾鎮中正路296號","056328722",58,
"https://maps.app.goo.gl/d7VVqkKURvpety2c6"),
(59,"茶衛門手創茶飲","雲林縣虎尾鎮中正路306號","056327532",59,
"https://maps.app.goo.gl/cJRKXy9daVURTUTS7"),
(60,"樸樂咖啡","雲林縣虎尾鎮中正路314號","056324806",60,
"https://maps.app.goo.gl/Ew6C89VDSmafHafX9"),

(61,"鮮茶道","雲林縣虎尾鎮中正路312號","056337733",61,
"https://maps.app.goo.gl/kmGRbMYstff6UsD86"),
(62,"雙醬咖哩","雲林縣虎尾鎮中正路319號","056328235",62,
"https://maps.app.goo.gl/YCyJ2Yy2YdzDMnx16"),
(63,"小南老蘇排骨便當","雲林縣虎尾鎮中正路343號","056329692",63,
"https://maps.app.goo.gl/eFSTqbEwtkfmfd488"),

(64,"亞薩漢堡","雲林縣虎尾鎮中正路 351 號","056362269",64,
"https://maps.app.goo.gl/P6hxo8qYr9rcDYka6"),
(65,"五隻豬","雲林縣虎尾鎮中正路 361 號","056332007",65,
"https://maps.app.goo.gl/woyB1q3VMz2ZFmiF8"),
(66,"茶の魔手","雲林縣虎尾鎮中正路 92 號","056323377",66,
"https://maps.app.goo.gl/UJ8i2ecw9Qv5JFeR7"),
(67,"麻古茶坊虎尾科大店","雲林縣虎尾鎮林森路二段 261 號","056323688",67,
"https://maps.app.goo.gl/MFNBgab7WJk9vDFXA"),
(68,"PIZZA HUT必勝客-雲林虎尾店","雲林縣虎尾鎮林森路二段 237號",
"056366262",68,"https://maps.app.goo.gl/rwNA441zoxs6oDBp9"), (69,"胖老爹美式炸
雞 虎尾店","雲林縣虎尾鎮林森路二段 204 號",
"0978881886",69,"https://maps.app.goo.gl/oSY9aRNm7h3eKWr57"), (70,"迷客夏
Milksha 雲林虎尾店","雲林縣虎尾鎮林森路二段 152 號",
"056330177",70,"https://maps.app.goo.gl/f9HRbF2qYGnKqnc58"),

(71,"五花馬水餃館","雲林縣虎尾鎮林森路二段 161 號","056338955",71,
"https://maps.app.goo.gl/M69AxAeksjkpj2Go6"),
(72,"LevinMo 萊莫咖啡","雲林縣虎尾鎮文化路 29-1號","056363879",72,
"https://maps.app.goo.gl/r6cW1sxa9o8xMcgA8"),
(73,"早安山丘（虎尾文化店）","雲林縣虎尾鎮文化路 29 號","056337770",73,
"https://maps.app.goo.gl/3fChYyneh4X8Cqkr5"),
(74,"品都串燒-虎尾店","雲林縣虎尾鎮林森路二段 149號","056362200",74,
"https://maps.app.goo.gl/tSNVxuQyrwVeohHcA"),
(75,"潮味決・湯滷專門店 雲林虎尾分社","雲林縣虎尾鎮文化路 32 號",
"056322511",75,"https://maps.app.goo.gl/4SykhbGY7nQMT6ZA6"), (76,"炸雞大獅 雲
林虎尾店","雲林縣虎尾鎮文化路 32號","056311066",76,
"https://maps.app.goo.gl/3stW2z2sqGdmGByeA"),
(77,"格寧貳貳","雲林縣虎尾鎮中正路 286 號","056311172",77,
"https://maps.app.goo.gl/dZqyoBpv8V2ufeb1A"),
(78,"成功牛排虎尾店","雲林縣虎尾鎮中正路 276號","056324027",78,
"https://maps.app.goo.gl/ahSVRV6LTvJBpnjE7"),
(79,"六扇門時尚湯鍋 虎尾中正店","雲林縣虎尾鎮中正路 264 號",
"056337737",79,"https://maps.app.goo.gl/HZkBAU3AUbpnFGTJ8"), (80,"三媽臭臭鍋-
雲林虎尾店","雲林縣虎尾鎮忠孝路 61 號","056332946",80,
"https://maps.app.goo.gl/4ZhUktyhHj5Wv5Lj8"),

(81,"色鼎燒肉虎尾店","雲林縣虎尾鎮林森路二段 125 號","056361748",81,
"https://maps.app.goo.gl/jg5YVzCvK5rNyV4i7"),
(82,"王煮麵舖","雲林縣虎尾鎮忠孝路 75號","0910478587",82,
"https://maps.app.goo.gl/rxCGusBm12YbuY4w7"),
(83,"無空間廚坊","雲林縣虎尾鎮忠孝路 58號","056335669",83,
"https://maps.app.goo.gl/GZSNqDUrA56dC1eb6"),
(84,"後院 houyuan","雲林縣虎尾鎮忠孝路 2號","",84,
"https://maps.app.goo.gl/GUCYTi6dB63FMzwRA"),
(85,"老廣的炒飯","雲林縣虎尾鎮中正路 248號","0930141556",85,
"https://maps.app.goo.gl/QSAeDjdKWAt2Xs8AA"),
(86,"天勝炒飯·麵·燴飯","雲林縣虎尾鎮中正路 263號","0982939317",86,
"https://maps.app.goo.gl/Mzo2CqRXfwnrKJxz5"),
(87,"耐肯輕食炸雞","雲林縣虎尾鎮中正路 265號","056326917",87,
"https://maps.app.goo.gl/53PzqxgkFiCyHWqZ8"),

(88,"吉香屋海苔飯捲","雲林縣虎尾鎮中正路 267 號","056312623",88,
"https://maps.app.goo.gl/dgbXkiuMbu2QxdzJ9"),
(89,"得正#虎尾中正計畫","雲林縣虎尾鎮中正路 206 號","056323663",89,
"https://maps.app.goo.gl/WQ9E7KBS7P61NgiQA"),
(90,"棕梠樹時尚早午餐","雲林縣虎尾鎮中山路 25-9 號","056362987",90,
"https://maps.app.goo.gl/LTTqTaaLPfypChyNA"),

(91,"貨櫃炸雞","雲林縣虎尾鎮四維街 6 號","0900350528",91,
"https://maps.app.goo.gl/gPNiQYwfBPVL9Dp86"), (92,"Mr.渣登","雲
林縣虎尾鎮四維街 18 號","056365237",92,
"https://maps.app.goo.gl/gPNiQYwfBPVL9Dp86"),
(93,"食神滷味 - 雲林虎尾店","雲林縣虎尾鎮四維街 11 號","0952533125",93,
"https://maps.app.goo.gl/LNKCQJBZMNHpiTG86"),
(94,"虎尾榕樹下 綿綿冰","雲林縣虎尾鎮四維街 35-5 號","056365310",94,
"https://maps.app.goo.gl/XfWxeP34mqZFGFgU9"),
(95,"樂鍋吐司 IronPan","雲林縣虎尾鎮四維街 35-7 號","056360961",95,
"https://maps.app.goo.gl/XfWxeP34mqZFGFgU9"),
(96,"頂山門烤肉","雲林縣虎尾鎮四維街 39 號","0932693382",96,
"https://maps.app.goo.gl/2BPf7L5t8xKwxYhH8"),
(97,"蕃茄村 Brunch&Cafe 虎尾四維店","雲林縣虎尾鎮四維街 51 號",
"056336818",97,"https://maps.app.goo.gl/JowBAzf1JERcPsHH8"), (98,"阿亮香雞排","
雲林縣虎尾鎮工專路 105 巷口號","0922389928",98,
"https://maps.app.goo.gl/QCHZQmJm7CXxSGAC7"),
(99,"Story C.U.P 故事咖啡","雲林縣虎尾鎮立新街 80 號","056339008",99,
"https://maps.app.goo.gl/XFNT1Lr7ksVQ4i8t6"),
(100,"樂包子 LeBaozi","雲林縣虎尾鎮林森路二段 25 號","056327120",100,
"https://maps.app.goo.gl/RoMLpUzL2HtZSF459");

5. 店家類別 (resCate) 資料表 SQL

```
CREATE          TABLE
    resCate( rID INT NOT
    NULL, cID INT NOT
    NULL,
    PRIMARY KEY(rID, cID),
    FOREIGN KEY(rID) REFERENCES restaurant(rID) ON DELETE CASCADE,
    FOREIGN KEY(cID) REFERENCES category(cID) ON DELETE CASCADE
);

INSERT INTO resCate(rID,cID) VALUES
(1,1),(1,2),(1,3),(2,1),(2,3),(2,4),(3,5),(3,6),(3,7),(3,8),(4,2),
(4,4),(4,9),(4,10),(5,4),(5,10),(5,11),(5,12),(5,13),(6,14),(6,15),
(6,16),(6,17),(6,18),(7,19),(8,2),(8,4),(8,20),(9,21),(10,22),
(10,23),(10,41),(10,88),(11,24),(12,6),(12,7),(12,8),(12,25),(12,26),
(12,4),(12,27),(13,21),(14,6),(14,7),(14,8),(15,24),(16,4),(17,21),
(17,6),(17,7),(18,28),(18,29),(18,2),(18,30),(19,26),(19,31),(20,3),
(20,11),(20,25),(21,32),(21,7),(21,33),(21,6),(21,8),(22,34),(22,24),
(22,35),(22,29),(22,36),(22,43),(22,4),(22,37),(22,1),(23,19),(24,7),
(24,6),(24,8),(25,38),(25,39),(25,4),(26,6),(26,40),(26,8),(26,41),
(26,42),(27,29),(27,36),(27,24),(27,34),(27,43),(27,3),(27,44),
(27,19),(27,8),(27,1),(27,4),(28,45),(29,46),(29,47),(29,48),(30,49),
(30,50),(31,29),(31,36),(31,44),(31,24),(31,51),(31,1),(31,4),
(32,24),(33,2),(33,52),(33,53),(33,10),(34,24),(35,54),(35,55),
```

(35,6),(35,7),(36,43),(36,26),(36,56),(36,6),(36,57),(36,58),(36,27),
(37,29),(37,52),(37,53),(37,4),(37,1),(37,10),(38,4),(38,7),(38,6),
(38,60),(38,61),(38,8),(38,62),(38,10),(39,24),(40,6),(40,7),(40,8),
(40,63),(41,6),(41,7),(41,8),(42,64),(42,65),(42,66),(42,67),(42,1),
(42,68),(42,41),(43,2),(43,6),(43,69),(43,4),(43,8),(43,58),(43,10),
(44,70),(44,60),(44,8),(44,6),(44,7),(45,2),(45,6),(45,7),(45,71),
(45,72),(46,73),(46,74),(46,4),(46,34),(46,75),(47,76),(47,29),
(47,44),(47,68),(48,9),(48,2),(48,4),(48,10),(49,9),(49,2),(49,4),
(49,10),(50,2),(50,20),(50,4),(50,10),(51,29),(51,30),(51,77),
(52,78),(52,79),(52,25),(52,6),(52,7),(53,80),(53,79),(53,7),(54,81),
(54,6),(54,7),(55,58),(56,40),(56,2),(56,10),(57,52),(57,2),(57,10),
(58,71),(59,58),(60,58),(61,58),(62,3),(62,4),(63,81),(64,31),
(64,26),(64,67),(65,7),(65,25),(65,6),(66,58),(67,58),(68,44),
(69,74),(69,4),(70,58),(71,25),(71,7),(71,6),(72,30),(72,58),(73,26),
(73,67),(73,58),(73,31),(74,61),(74,39),(74,27),(75,45),(76,74),
(76,4),(76,7),(77,6),(77,7),(77,26),(77,27),(78,67),(78,64),(79,24),
(80,24),(81,11),(82,6),(83,29),(83,36),(83,66),(84,30),(84,58),
(84,41),(84,35),(84,82),(85,33),(85,83),(85,84),(86,33),(86,83),
(86,84),(87,74),(87,85),(88,86),(89,58),(90,31),(90,6),(91,74),
(91,27),(92,29),(92,37),(92,40),(92,63),(92,31),(93,45),(93,27),
(94,87),(95,88),(95,56),(95,31),(96,39),(96,61),(96,27),(97,26),
(97,57),(97,31),(98,66),(98,85),(98,27),(99,30),(99,58),(99,41),
(99,35),(100,89),(100,90),(100,58);

6. 會員喜好類別 (Preference) 資料表 SQL

CREATE TABLE
    preference(mID INT NOT
    NULL, cID INT NOT
    NULL,
    PRIMARY KEY(mID, cID),
    FOREIGN KEY(mID) REFERENCES member(mID) ON DELETE CASCADE,
    FOREIGN KEY(cID) REFERENCES category(cID) ON DELETE CASCADE
);

INSERT INTO preference VALUES
(02, 10), (02, 20), (02, 24), (02, 25), (04, 12),
(04, 40), (04, 80), (05, 01), (05, 02), (05, 03);

7. 推薦清單 (Recommendation) 資料表 SQL

CREATE TABLE recommendation(
    recID INT NOT NULL AUTO_INCREMENT,
    mID INT NOT NULL,
    rIDA INT NOT NULL,
    rIDB INT NOT NULL,
    recDate DATE NOT NULL,
    PRIMARY KEY(recID),
    FOREIGN KEY(mID) REFERENCES member(mID) ON DELETE CASCADE,
    FOREIGN KEY(rIDA) REFERENCES restaurant(rID) ON DELETE CASCADE,
    FOREIGN KEY(rIDB) REFERENCES restaurant(rID) ON DELETE CASCADE
);

INSERT INTO recommendation(mID,rIDA,rIDB,recDate) VALUES
(2,34,48,20240530),(2,5,79,20240530),(2,20,43,20240531),
(2,4,52,20240531),(2,49,71,20240601),(2,11,12,20240601),
(5,1,49,20240531),(5,1,48,20240531),(5,37,45,20240601),
(5,43,57,20240601);

8. 會員密碼 (Password) 資料表 SQL

```
CREATE TABLE
    password( mID INT NOT
    NULL,
    mPd CHAR(20) NOT NULL,
    PRIMARY KEY(mID),
    OREIGN key(mID) REFERENCES member(mID) ON DELETE CASCADE
);
```

七、View SQL

1. 進行推薦的 View

```
CREATE VIEW creRec AS
WITH rd AS(
    SELECT DISTINCT r.rName
    FROM restaurant AS r, hours AS h
    NATURAL JOIN rescate AS rc
    NATURAL JOIN member AS m
    NATURAL JOIN preference AS p
    NATURAL JOIN category AS c
    WHERE left(DAYNAME(NOW()),3) = h.day
        AND rc.rID = r.rID AND
        m.mID = p.mID AND
        p.cID = c.cID
        AND substring_index(user(),'@',1) = m.mAccount AND
        h.rHoursID = r.rHours
    ORDER BY rand() LIMIT
    2
)
SELECT DISTINCT
r.rName, h.day, h.start_hr, h.start_min, h.end_hr, h.end_min FROM restaurant AS r,
hours AS h
NATURAL JOIN rescate AS rc
NATURAL JOIN member AS m
NATURAL JOIN preference AS p
NATURAL JOIN category AS c
WHERE rName IN (SELECT rName FROM rd)
    AND left(DAYNAME(NOW()),3) = h.day
    AND rc.rID = r.rID AND
    m.mID = p.mID AND
    p.cID = c.cID
    AND h.rHoursID = r.rHours ORDER
BY r.rID,start_hr;
```

2. 查看使用者自選喜好的 View

```
CREATE VIEW mineFav AS
SELECT  m.mName,c.cName
FROM preference AS p,member AS m,category AS c WHERE
m.mID = p.mID
    AND p.cID = c.cID
    AND substring_index(USER(),'@',1) = m.mAccount;
```

3. 管理員查看會員數量的 View

```
CREATE VIEW MemberCount AS
SELECT count(mID) AS MemberCount
FROM member;
```

八、使用者權限SQL

```
CREATE USER 'yf0612'@'%' IDENTIFIED BY '41043104';

CREATE USER 'pp99886'@'%' IDENTIFIED BY '94879487';

GRANT ALL PRIVILEGES ON hfrs.* TO 'yf0612'@'%';

GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.category
    TO 'pp99886'@'%';
GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.hours
    TO 'pp99886'@'%';
GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.restaurant
    TO 'pp99886'@'%';
GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.resCate
    TO 'pp99886'@'%';
GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.preference
    TO 'pp99886'@'%';
GRANT DELETE, INSERT, SELECT, UPDATE ON hfrs.recommendation
    TO 'pp99886@'%';
GRANT SELECT ON hfrs.memberCount TO 'pp99886'
```