Self-Study
- Custom UITableViewCell
- PhotoKit
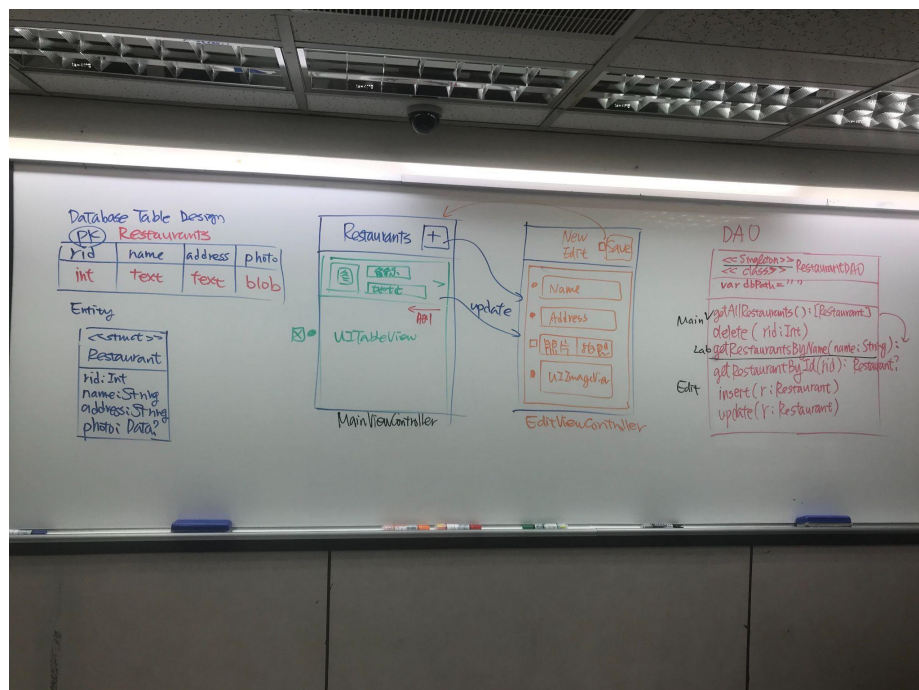 https://medium.com/%E5%BD%BC%E5%BE%97%E6%BD%98%E7%9A%84-swift-ios-app-%E9%96%8B%E7%99%BC%E5%95%8F%E9%A1%8C%E8%A7%A3%E7%AD%94%E9%9B%86/ios-14-%E6%8F%90%E4%BE%9B%E5%A4%9A%E9%81%B8%E7%85%A7%E7%89%87%E5%8A%9F%E8%83%BD%E7%9A%84-phpicker viewcontroller-d9733d203222
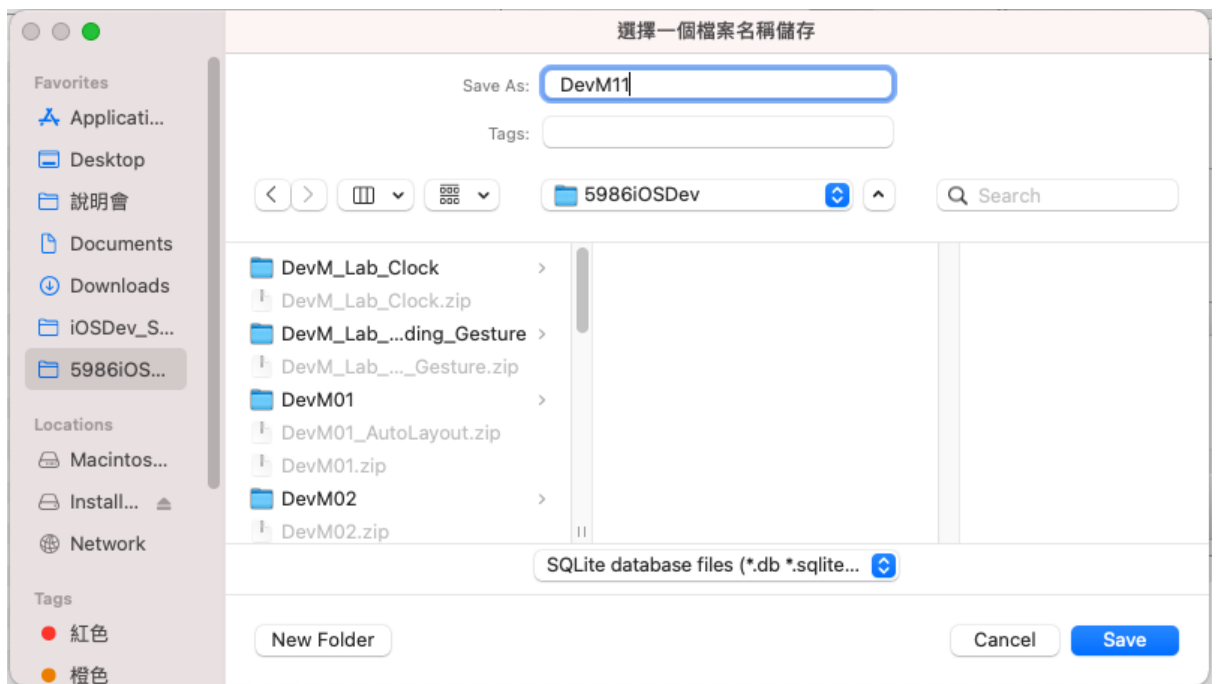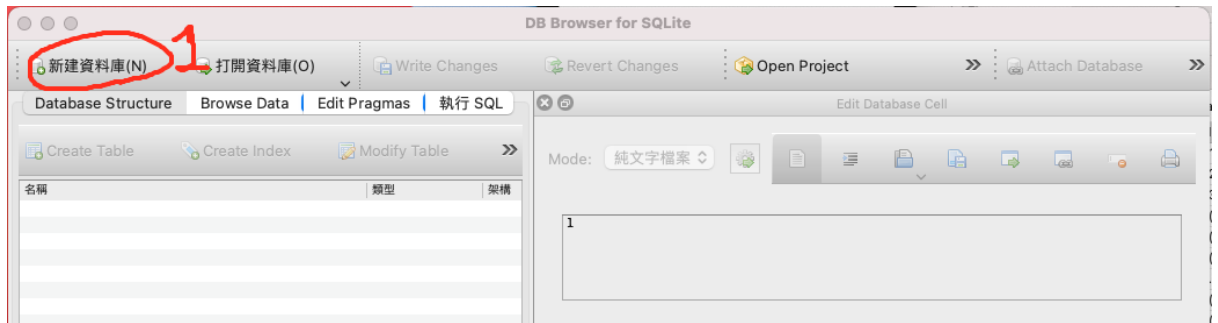
Install DB Browser for sqlite
https://sqlitebrowser.org/

App開發步驟
1. UI/UX Flow design => UI Components => Target-Action, Delegation
   a. iPhone or iPad
   b. Portrait or Landscape
   c. i18n?
   d. Data Analysis from UI & Design(database design & initial dada)
   e. Entity
   f. Data Access Object
2. AutoLayout
3. IBOutlet/IBAction(Target-Action)
4. 初始化邏輯(viewDidload(...))
   a. UI
   b. Data(properties宣告)
5. Delegation(宣告實作protoocl, override methods, set delegate property)

1. Create DB / Tables

編輯資料表定義

資料表

Restaurants

∨ Advanced

| 欄位 | Constraints |

📄 Add | 📄 Remove | ⊼ Move...top | ⊼ Move up | ⊽ Move down | ⊼ Move..ttom

名稱	類型	NN	PK	AI	U	預設	檢查
rid	INTEGER ⌄	☐	☑	☑	☐		
name	TEXT ⌄	☑	☐	☐	☐		
address	TEXT ⌄	☑	☐	☐	☐		
photo	BLOB ⌄	☐	☐	☐	☐		

```
1  CREATE TABLE "Restaurants" (
2      "rid"    INTEGER,
3      "name"   TEXT NOT NULL,
4      "address"  TEXT NOT NULL,
5      "photo"  BLOB,
6      PRIMARY KEY("rid" AUTOINCREMENT)
7  );
```

取消   確定

DB Browser for SQLite - /Users/ucom/Desktop/5986iOSDev/DevM11.db

📄 新建資料庫(N) | 📄 打開資料庫(O) | 📄 Write Changes | 📄 Revert Changes | 📄 Open Project | ≫ | Attach Database ≫

Database Structure | Browse Data | Edit Pragmas | 執行 SQL

Edit Database Cell

📄 Create Table | 📄 Create Index | 📄 Print

Mode: 純文字檔案 ⌄

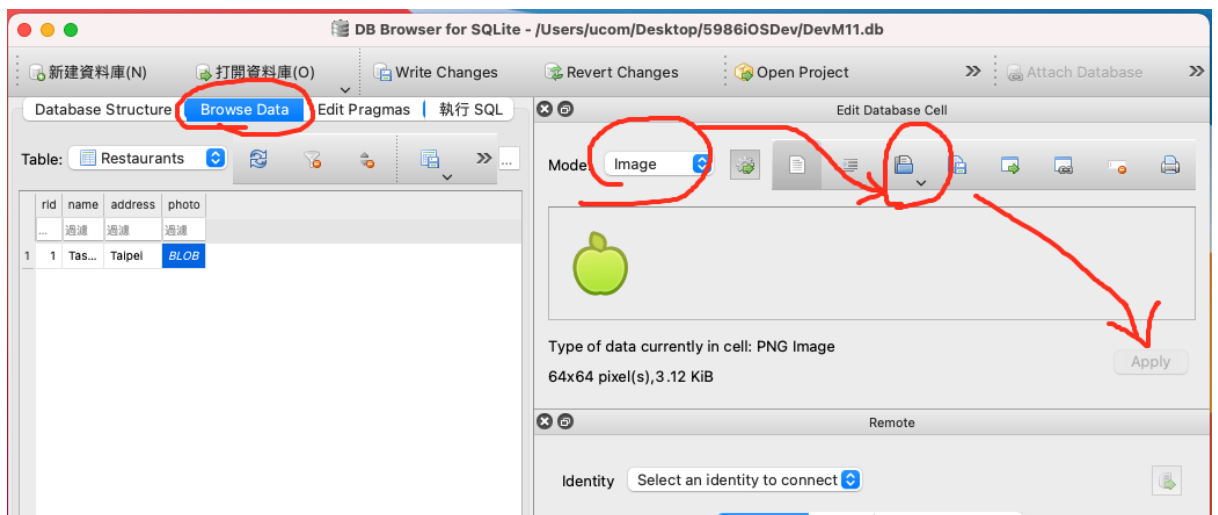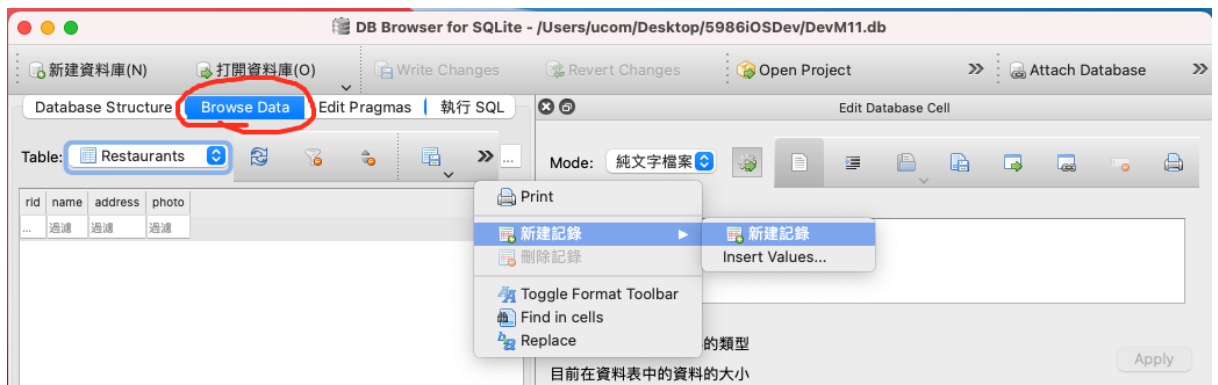| 名稱	類型	架構
∨ 📄 資料表 (2)		
> 📄 Restaurants		CREAT
> 📄 sqlite_sequence		CREAT
索引 (0)		
📄 視圖 (0)		
📄 觸發器 (0)		

```
1
```

目前在儲存格中的資料的類型
目前在資料表中的資料的大小

Apply

Remote

2. Entity Class

```
struct Restaurant {
    var rid = 0
    var name = ""
    var address = ""
    var photo: Data?
}
```

3. Xcode Project
   ○ Project Setting
   ○ Bridge FIle Setting
4. DAO Class
   ○ Singleton Design Pattern
   ○ initialization function
   ○ getAllRestaurants(): [Restaurant]
   ○ getRestaurantsByName(_ name:String): [Restaurant]
   ○ getRestaurantById(_ rid: Int): Restaurant?
   ○ insert(_data: Restaurant)

Homework:
- **Review 今日上課進度**
- **規劃專題Wireframe**
- **規劃專題離線資料庫(excel)**
- **設定Sqlite DB**
- **建立專案**