Advanced Backend as a Service (BaaS)

# Agenda

You will continue building your **Dianping** mini-program. Enter the user 🙋

Consider reviews

.Ⅲ中国联通 令

5:37 PM

7 9 53% I

#### 光明邨大酒家







lilvalex0613

打分 \*\*\*



魔都苏式 网月饼 合集攻略

作为上海人,对于苏式月饼的支持绝对大于广 式的, 虽然苏式月饼 的外表很简单, 但是超 有内涵, 最为传统的鲜肉月饼, 刚烤好的时候 ,一口咬下都有汤汁,中秋 ፟ ○到,魔都的月 饼又要大比拼了, 今日就来一篇苏式月饼的攻 略...









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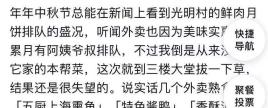
#### annabelleann (11/8)











推荐: 本帮响油鳝丝 红豆沙小圆子









推荐到好物圈

Users can post reviews on restaurants. So relationship-wise:

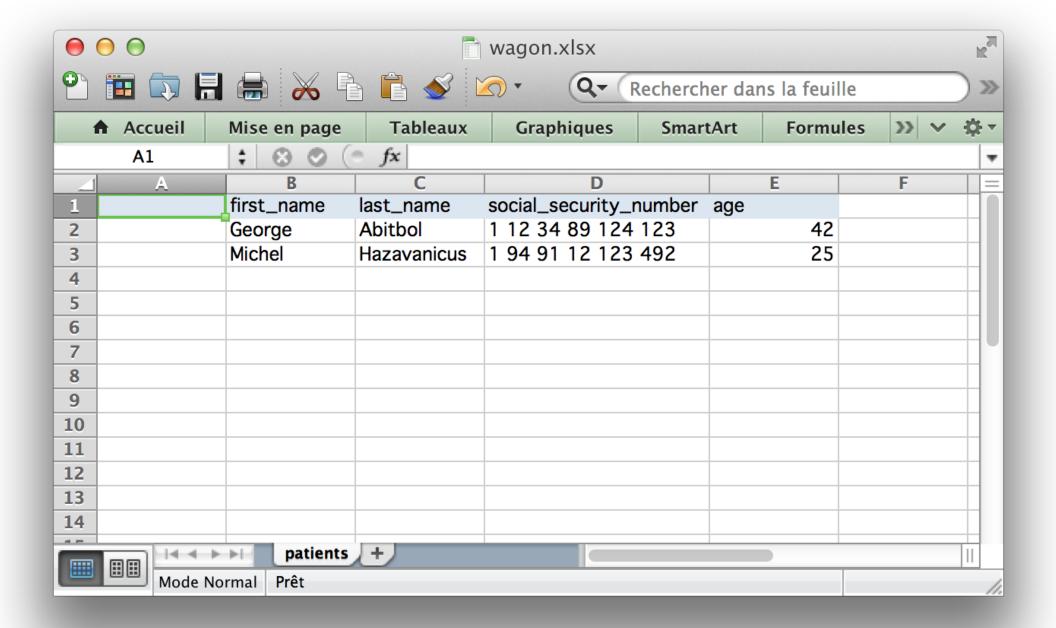
- Each restaurant can be reviewed by many users, and
- Each user can review many restaurants

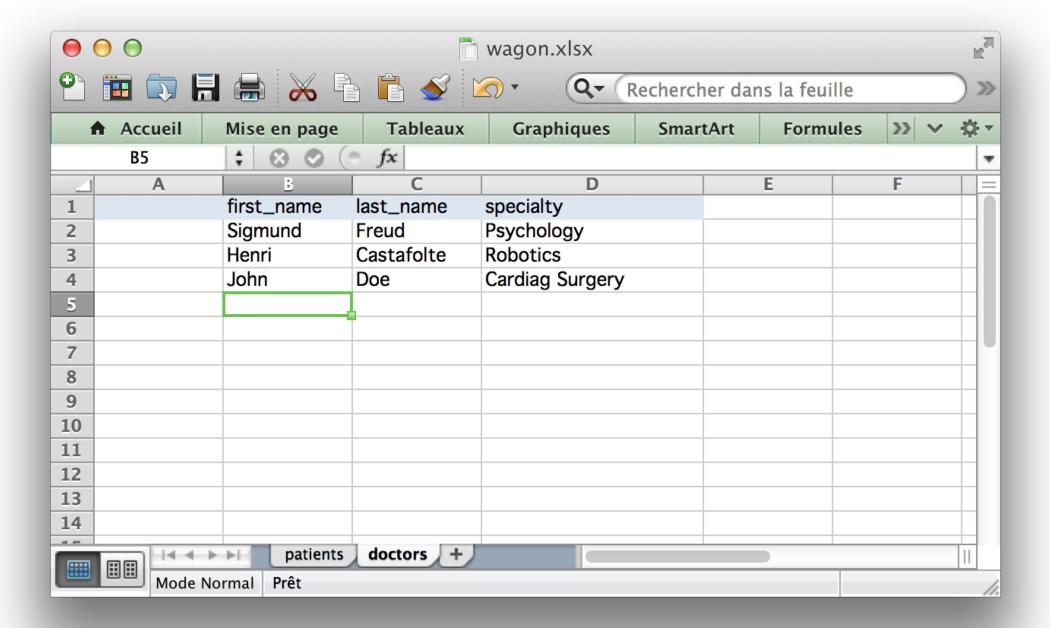
This is called a many-to-many relationship.

Many to Many Relationships

# Excel++

Let's go further

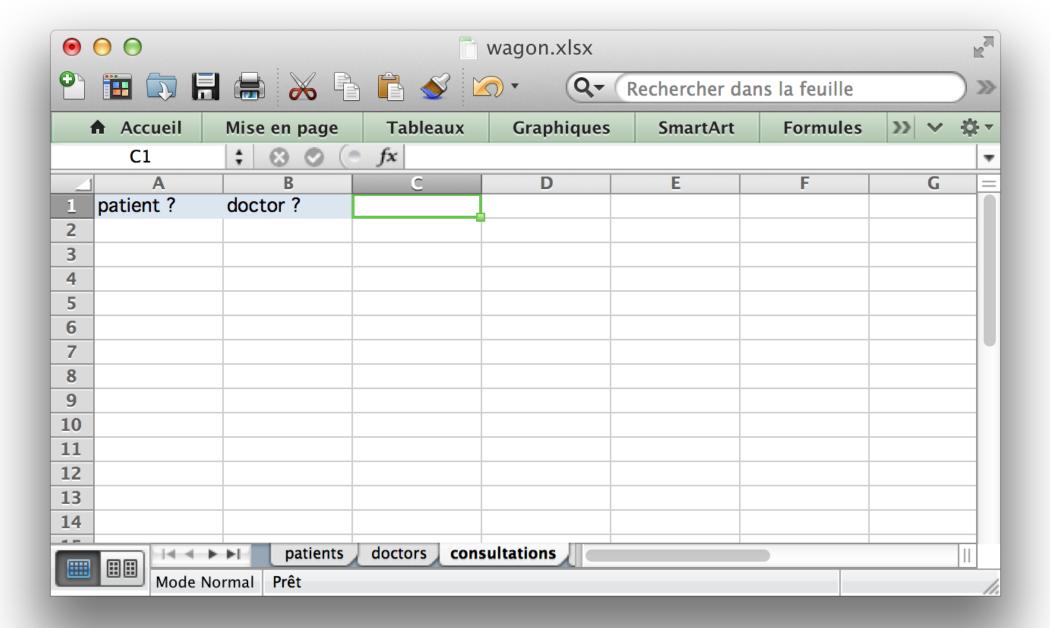




- One doctor can have many patients
- One patient can see many doctors

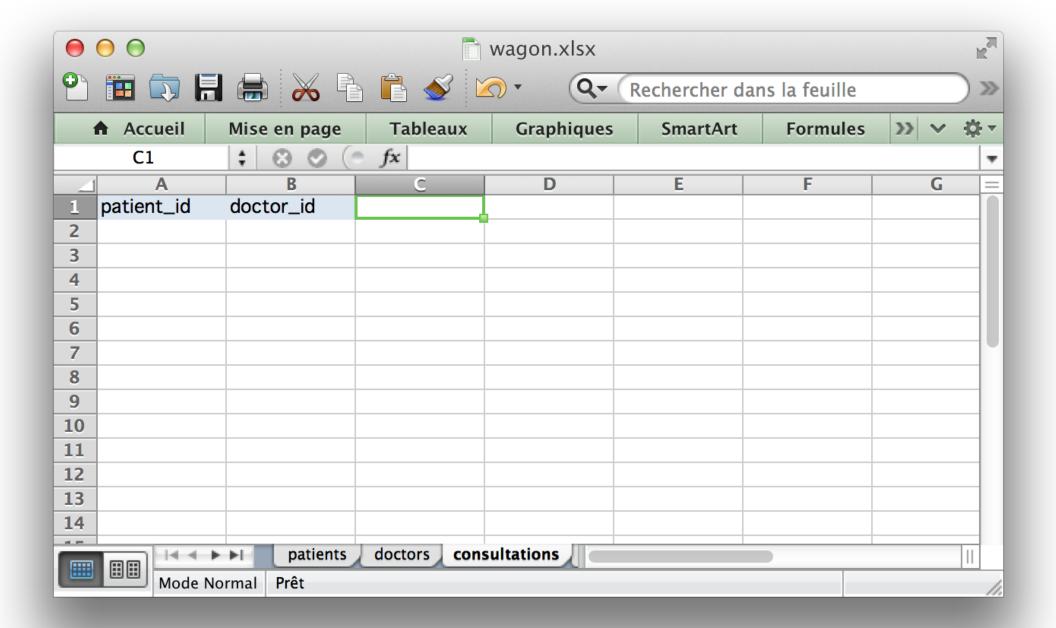
How do we manage this relationship? 👺

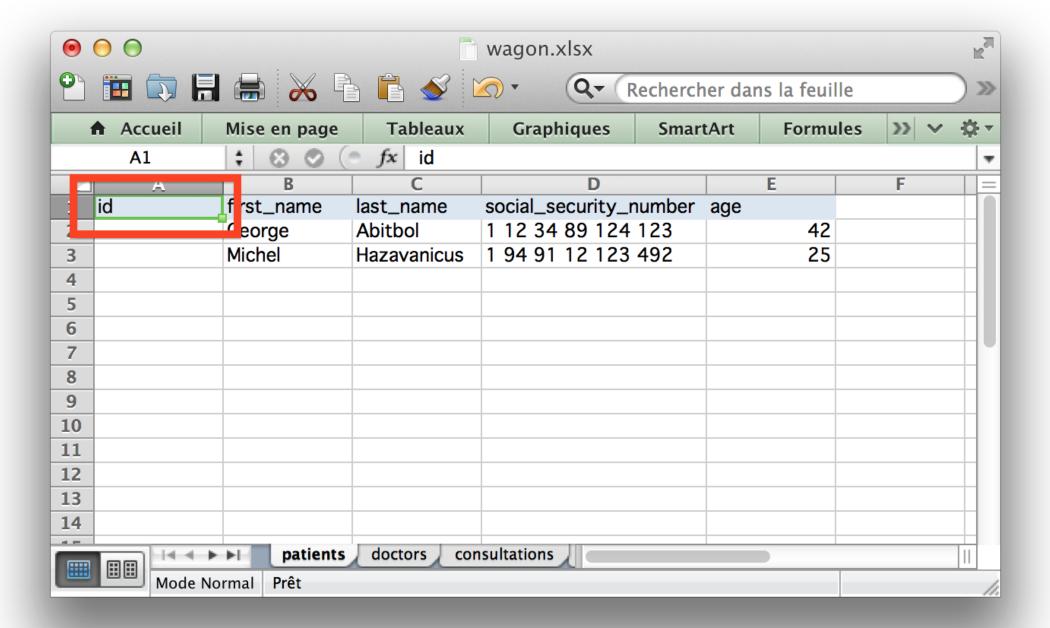
# **Consultations!**

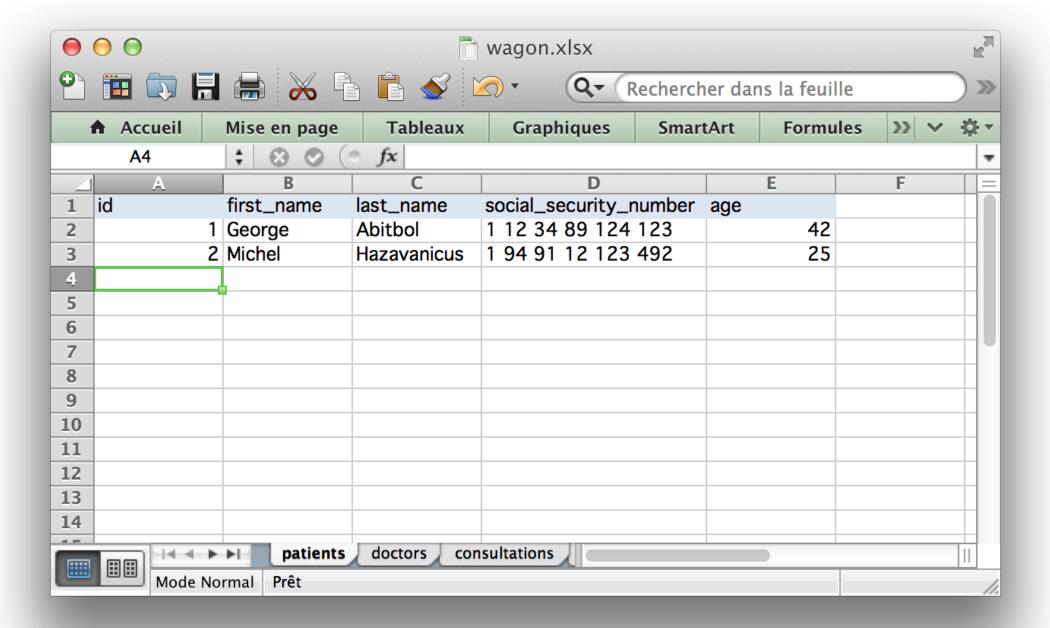


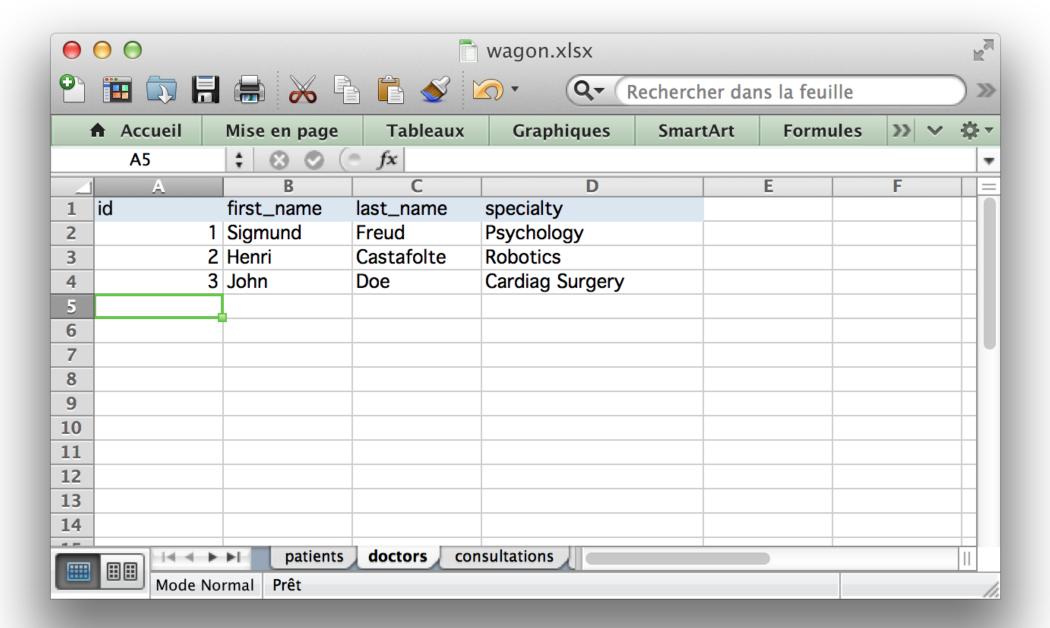
Another problem - what if we have two doctors named Mary?...

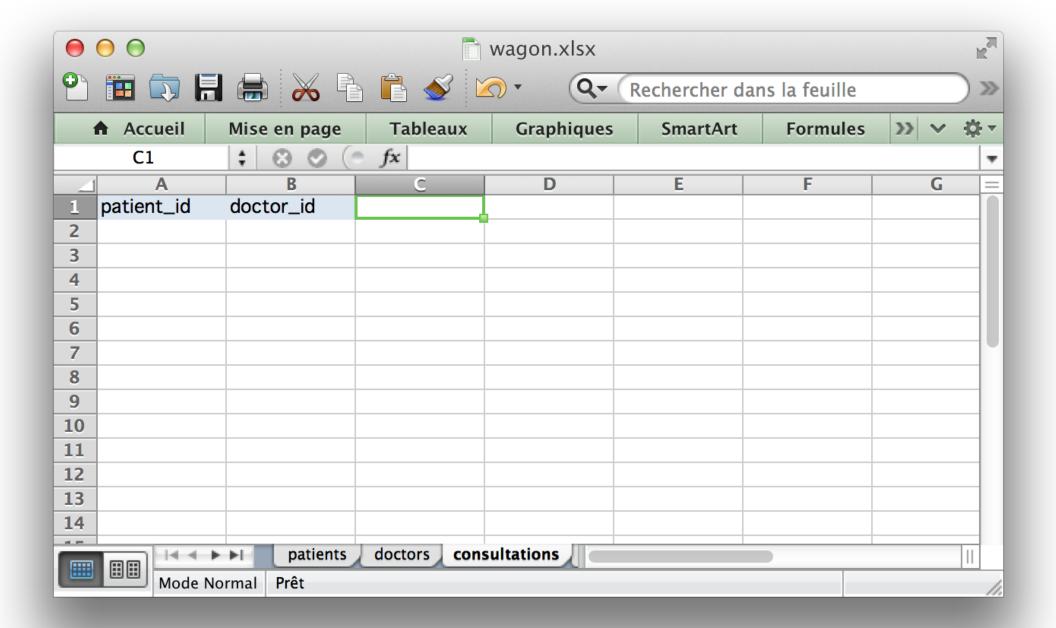
...and two patients named George?



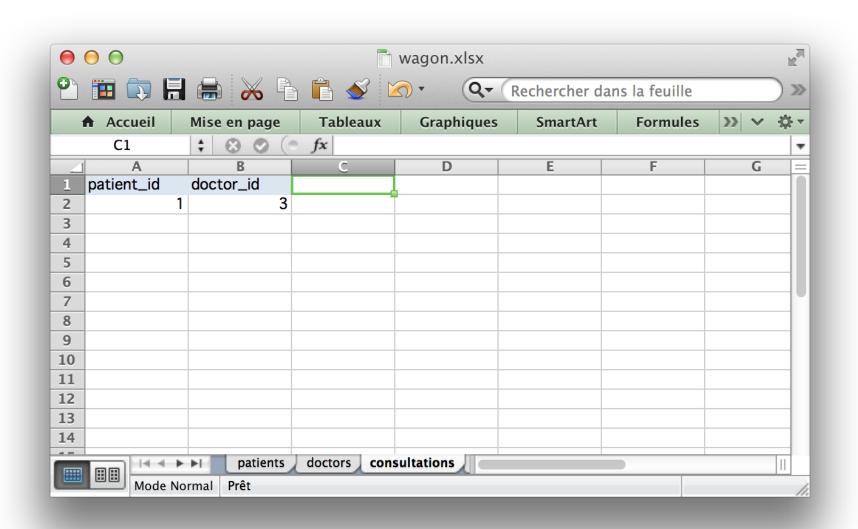








#### George Abitbol (id = 1) has seen Doctor John Doe (id = 3)



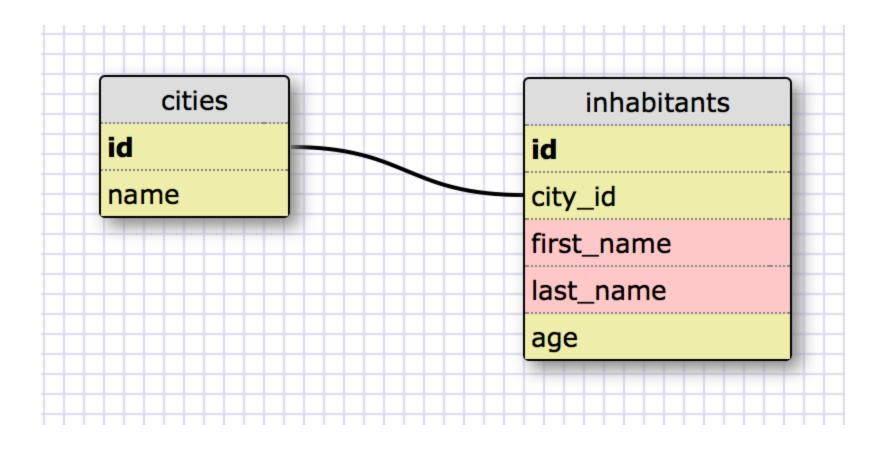
# n:n relation (many to many)

A patient has many doctors and a doctor has many patients.

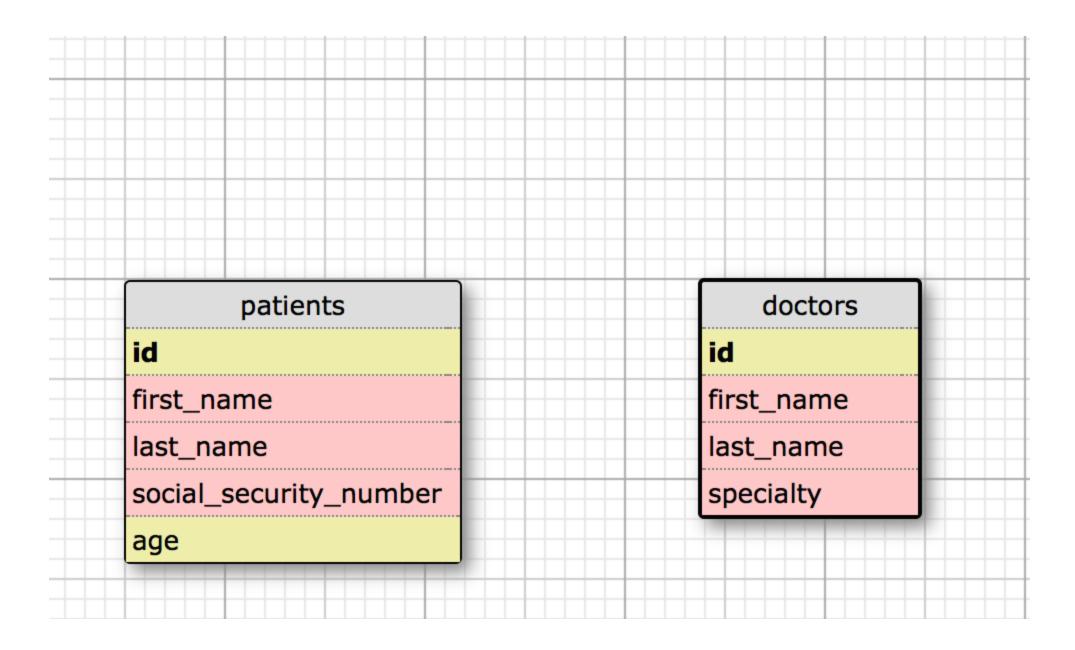
You can download this example: consultations.xslx

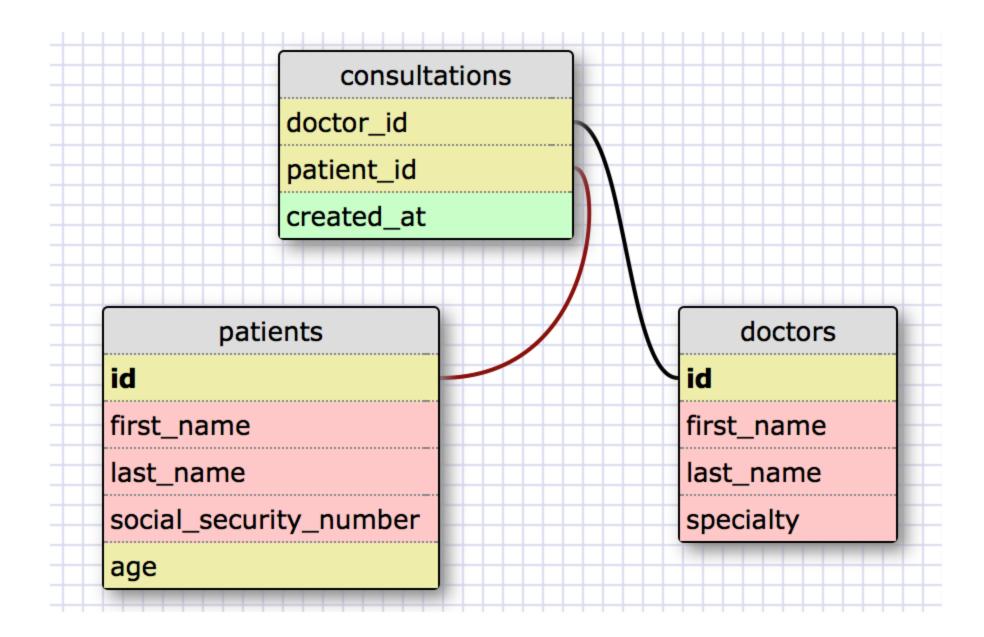


### 1:n



#### n:n?





## Vocabulary

- A schema is composed of tables.
- Each table has a set of columns.
- When inserting data in a table, you create a **record** in a new **row**.
- A table between two n:n tables (in this case consultations) is a **joint table**.

# **DB Schema Composer**

db.lewagon.com

# **Core User Journey**

Notice how service products - like Eleme, Tmall, Airbnb - have the same basic types of functionality



## **User Login**



As a user, I can log in

#### **Restaurant Index**



As a user, I can view all restaurants

### **Restaurant Page**



As a user, I can view one restaurant

#### **Review Index**

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7:40 AM

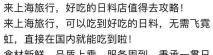
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舞渔日料美人胶原锅









食材新鲜, 品质上乘, 服务周到, 秉承一贯日 系的理念!

推荐的三家日料店,有2家是必吃榜的店~ 可以说这三家日料店,值得一去再去的,适... 推荐: 握寿司·炙烤鹅肝 美人胶原锅 (小份)









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YUMMY~麦麦 1000



三刷舞渔...托点评霸王餐的福...没有等太久...

停车位...而且停车场与商场不通...要走上。

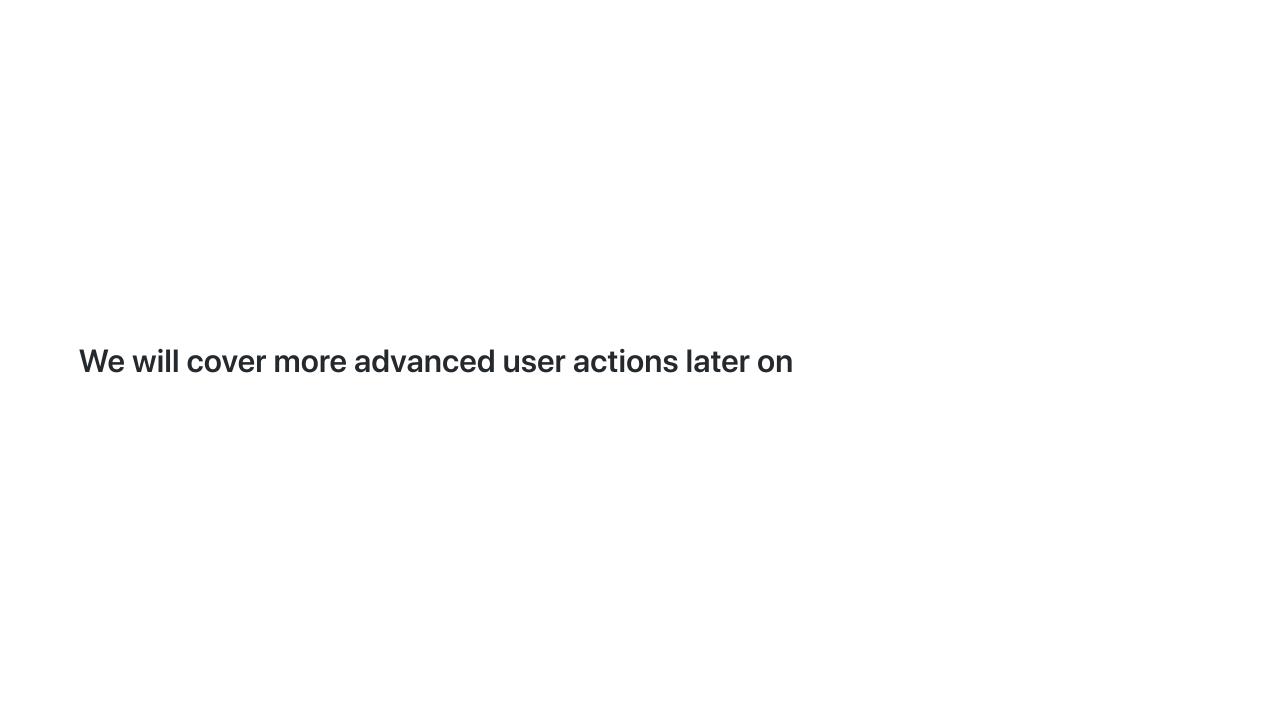






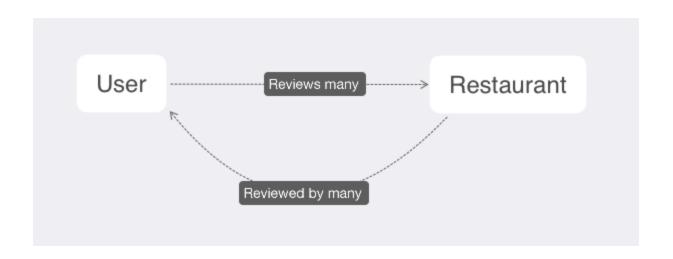
推荐到好物圈

As a user, I can read and write reviews for a restaurant

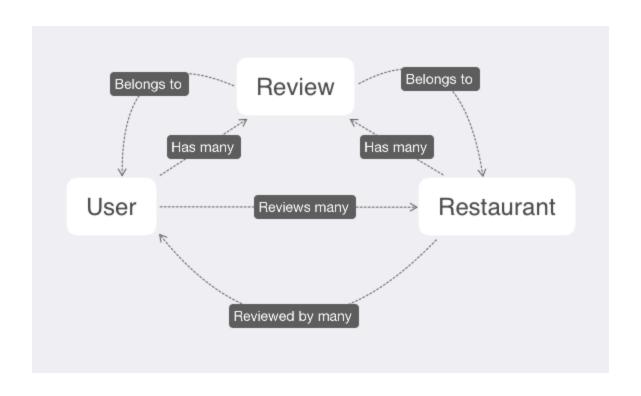


**Dianping Data Schema** 

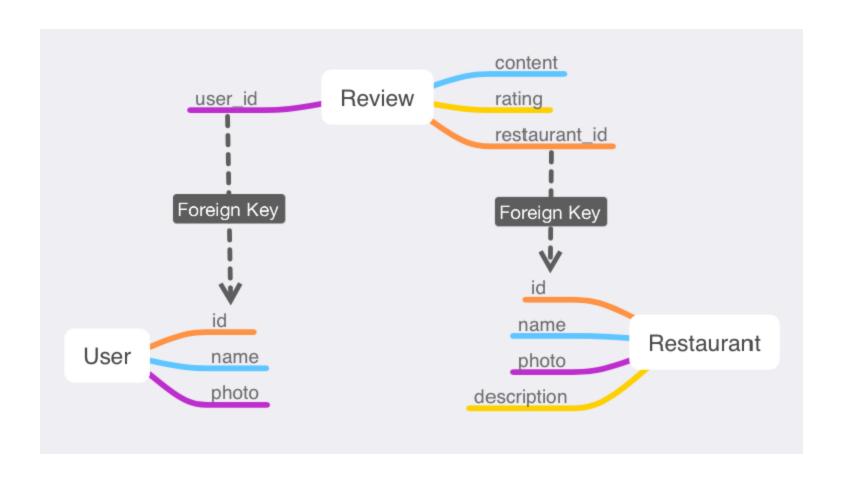
### Review relationship is many-to-many



Therefore, review's relationship can be its own (joint) table



### Schema



Livecode! Let's update our database 🎎



## We only want logged in users to execute certain functions (like adding a new restaurant)

Create table					×
Table name	restaurants				
Data sheet notes	There will be less bugs if your comments are well written.				
		A(	CL ?		
Set data table en	try permission (ne	w)			
Public 需要先创建临时		ged-in user	User group	O Private	
Set the default re	ad and write pern	nissions for the	e row (query, modify,	delete)	
Public	<b>✓</b> Read	Write 需要先创	建临时用户		
Logged-in user	Read	<b>∨</b> Write			
Creator	✓ Read	✓ Write			
User group	Read	✓ Write			
				Cancel Create	

Your turn!

EXERCISE 1: UPDATE YOUR DATABASE 6



## **User login**

The beauty of being in WeChat, is that we don't have to ask the user to register. We let them login using their WeChat profile!

### How does **WeChat login** work?

- 1. In the mini program, we ask user to authorize us to use their public WeChat user info
- 2. We use the Minapp SDK to create a user in our BaaS with a permanent unique ID

To make the first step, we need to use a button which triggers the getUserInfo API. It looks something like this:

<button open-type="getUserInfo" bindgetuserinfo="userInfoHandler">微信 Login</button>

If bindtap triggers a JS function on a tap, what does bindgetuserinfo do? 👺

"Let's put this button right at the start! 😃" - new developer

1 Not a good idea! Tencent is protective of it's users and might block your mini program!

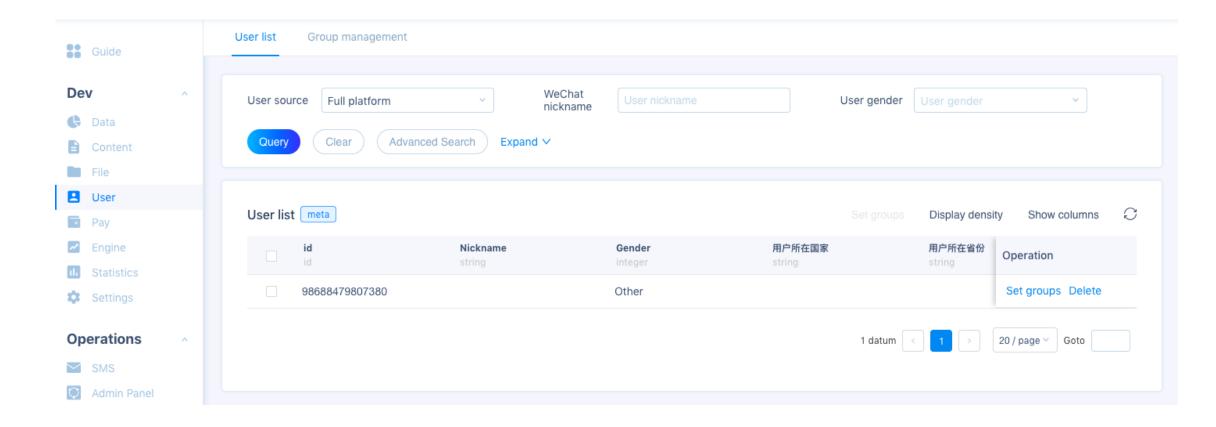
Instead, let's create a user page

# Time to implement our userInfoHandler!

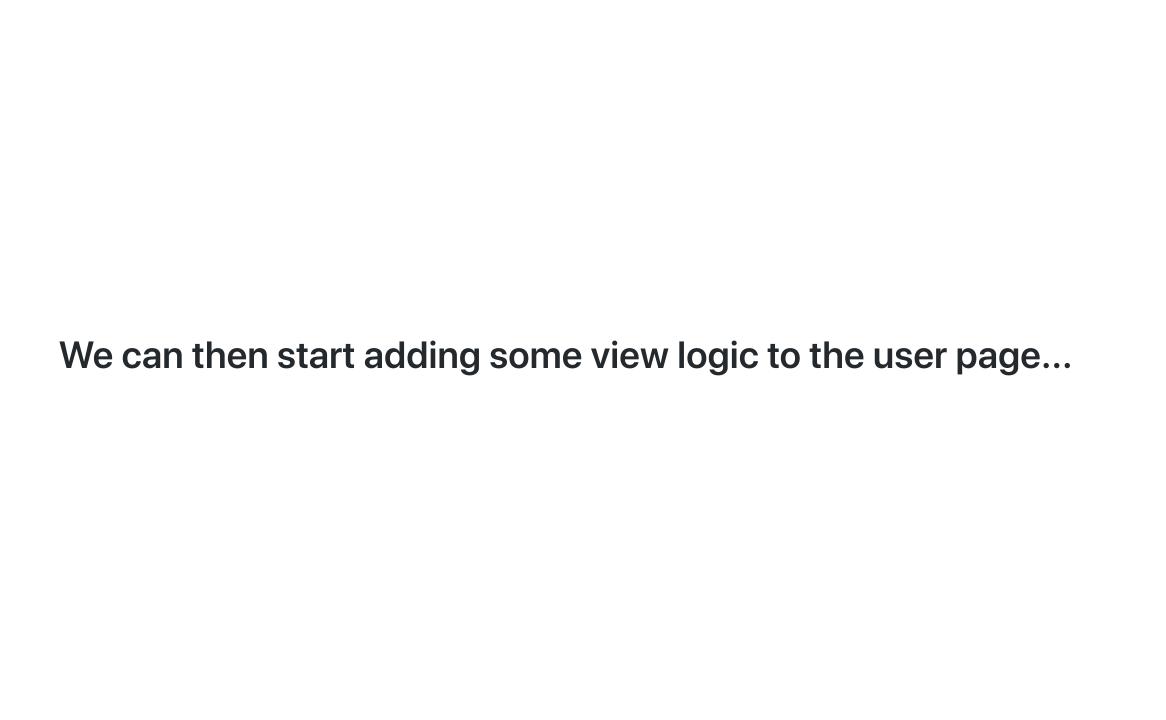
The awesome folks at Minapp give us a <a href="wx.BaaS.auth.loginWithWechat">wx.BaaS.auth.loginWithWechat</a>() function

```
userInfoHandler: function(data) {
   wx.BaaS.auth.loginWithWechat(data).then(user => {
        // do something with the 'user' object
   }, err => {
        // might need to log the error message
   })
}
```

#### User in the BaaS

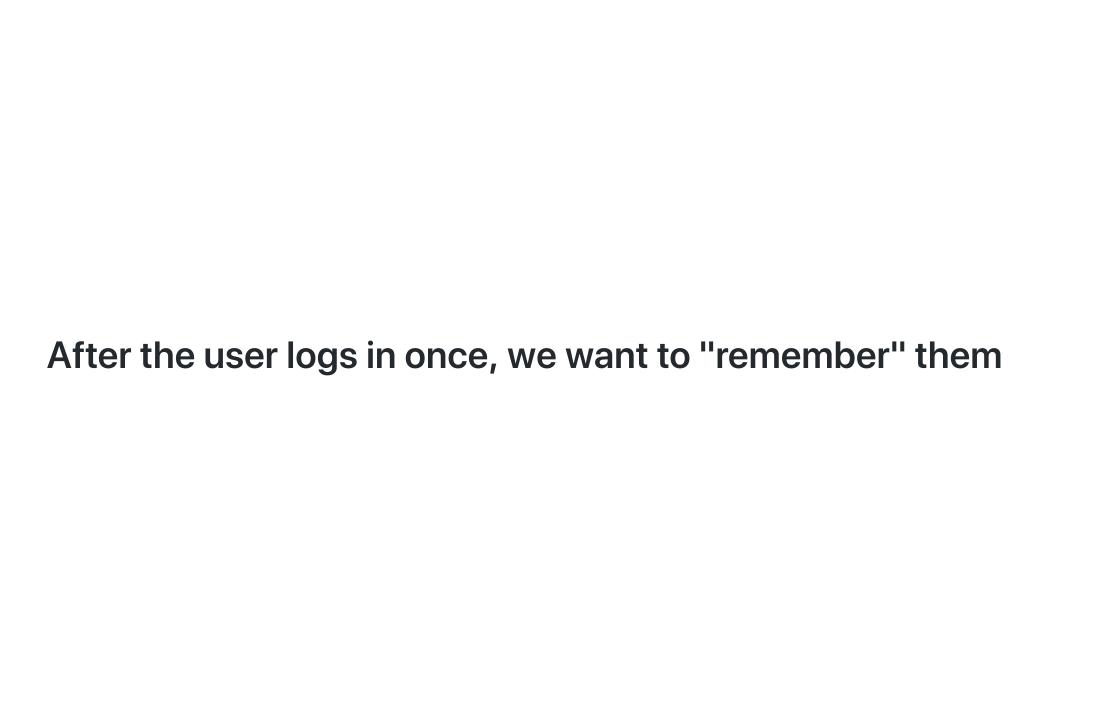


Live Code 3: WeChat Login 4



#### Bind data to display user's profile

Note: Both blocks of code are written in user.wxml. Therefore, we need to set specific **conditions** for different views



1. We can use the getCurrentUser() function provided by the BaaS

```
// user.js in onLoad function
wx.BaaS.auth.getCurrentUser().then(dosomething).catch(function(err) {
    wx.showModal({
        title: 'Error',
        content: err.message
    })
})
```

BUT this is still an API call, so it relies on network

2. We can cache the user object on the users phone

```
// inside the getCurrentUser or loginWithWechat callback
wx.setStorageSync('user', user);
```

How (and when) do we retrieve the user object? Have a look at getStorageSync()

Your turn!

EXERCISE 3: USER LOGIN 6



Happy 2nd Day of BaaS 😂