

Homework 1

Homework 1: farmersmarket.db

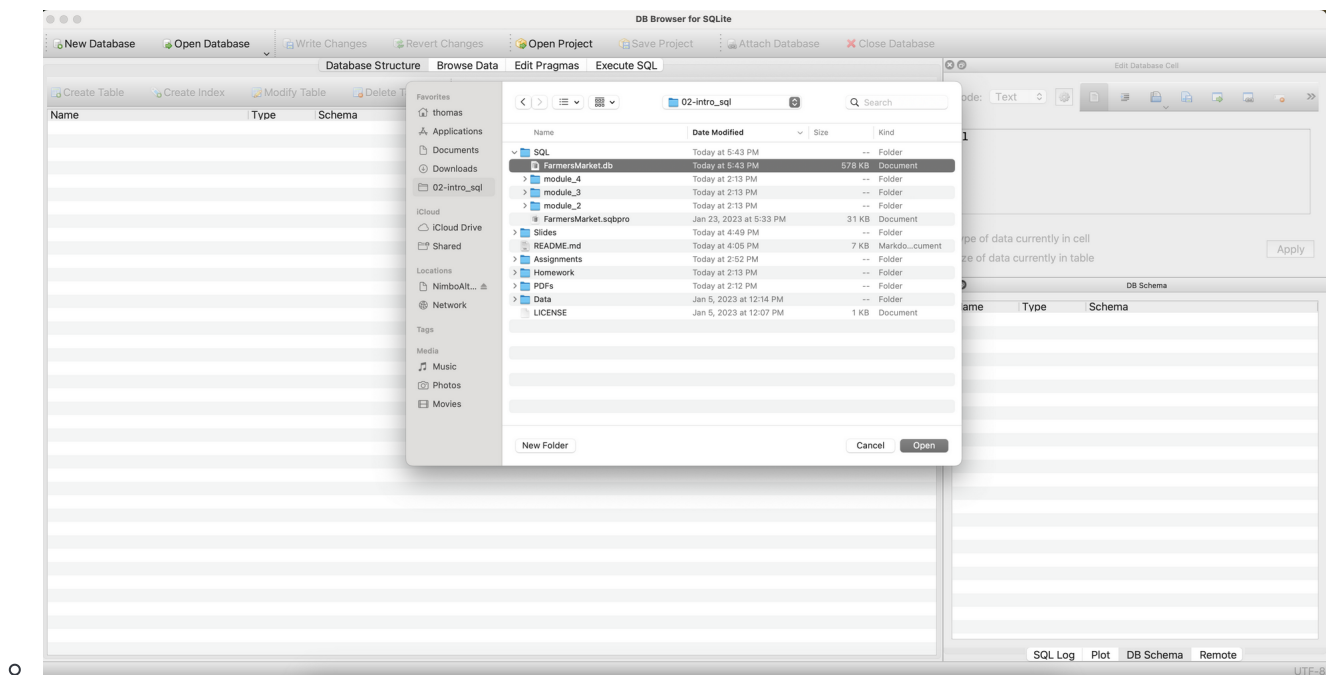
- Please share your completed homework with Ananya & Thomas: ananya.jha@mail.utoronto.ca ; thomas.rosenthal@utoronto.ca
- Submissions can be in the form of a zip folder, Dropbox link, Google Drive link, etc
- Due on Thursday, January 11, at 11:59pm
- Weight: 10% of total grade

Get to know the farmersmarket.db

Steps to complete this part of the homework:

1) Load Database

- Open DB Browser for SQLite
- Go to File > Open Database
- Navigate to your farmersmarket.db
 - This will be wherever you cloned the GH Repo (within the **SQL** folder)



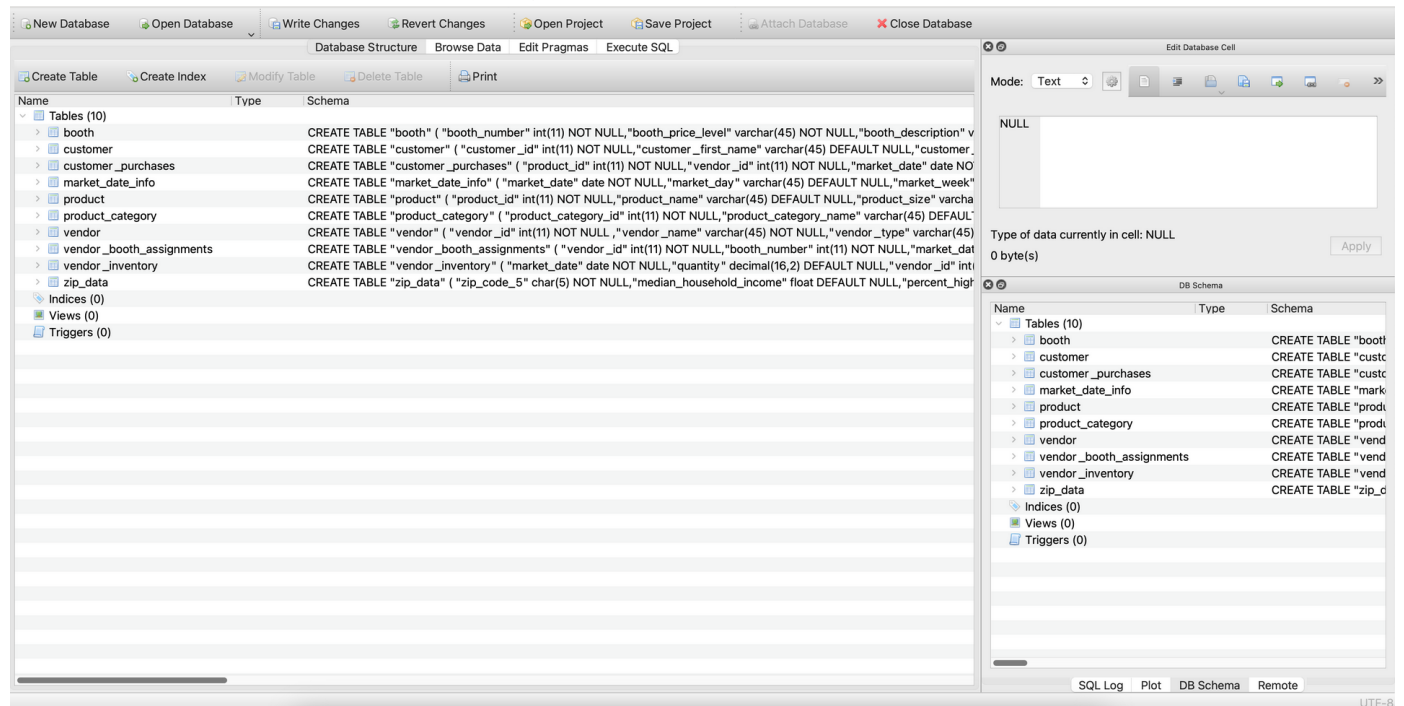
2) Configure your windows

By default, DB Browser for SQLite has three windows, with four tabs in the main window and three tabs in the bottom right window

- Window 1: Main Window (Centre)

- Stay in the Database Structure tab for now
- Window 2: Edit Database Cell (Top Right)
- Window 3: Remote (Bottom Right)
 - Switch this to DB Schema tab (very bottom)

Your screen should look like this (or very similar)



3) The farmersmarket.db

There are 10 tables in the Main Window:

1. booth
2. customer
3. customer_purchases
4. market_date_info
5. product
6. product_category
7. vendor
8. vendor_booth_assignments
9. vendor_inventory
10. zip_data

Switch to the Browse Data tab, booth is selected by default

Database Structure Browse Data Edit Pragmas Execute SQL					
Table: booth		Filter in any column			
	booth_number	booth_price_level	booth_description	booth_type	
	Filter	Filter	Filter	Filter	
1	1	A	First booth to the left as you enter ...	Standard	
2	2	A	Second booth to the left as you ente...	Standard	
3	3	B	Third booth to the left as you enter ...	Small	
4	4	C	First booth on left end of building - ...	Small	
5	5	C	Second booth on left end of building ...	Small	
6	6	C	Third booth on left end of building -...	Small	
7	7	A	First booth to the right as you enter...	Standard	
8	8	C	First booth on right end of building ...	Small	
9	9	C	First booth on right end of building ...	Small	
10	10	B	Back right booth - Large rectangular...	Large	
11	11	B	Back center booth - Large ...	Large	
12	12	B	Back left booth - Large rectangular ...	Large	

Using the table drop down at the top left, explore some of the contents of the database

Table	booth
	customer
	customer_purchases
	market_date_info
1	product
2	product_category
3	vendor
4	vendor_booth_assignments
5	vendor_inventory
	zip_data

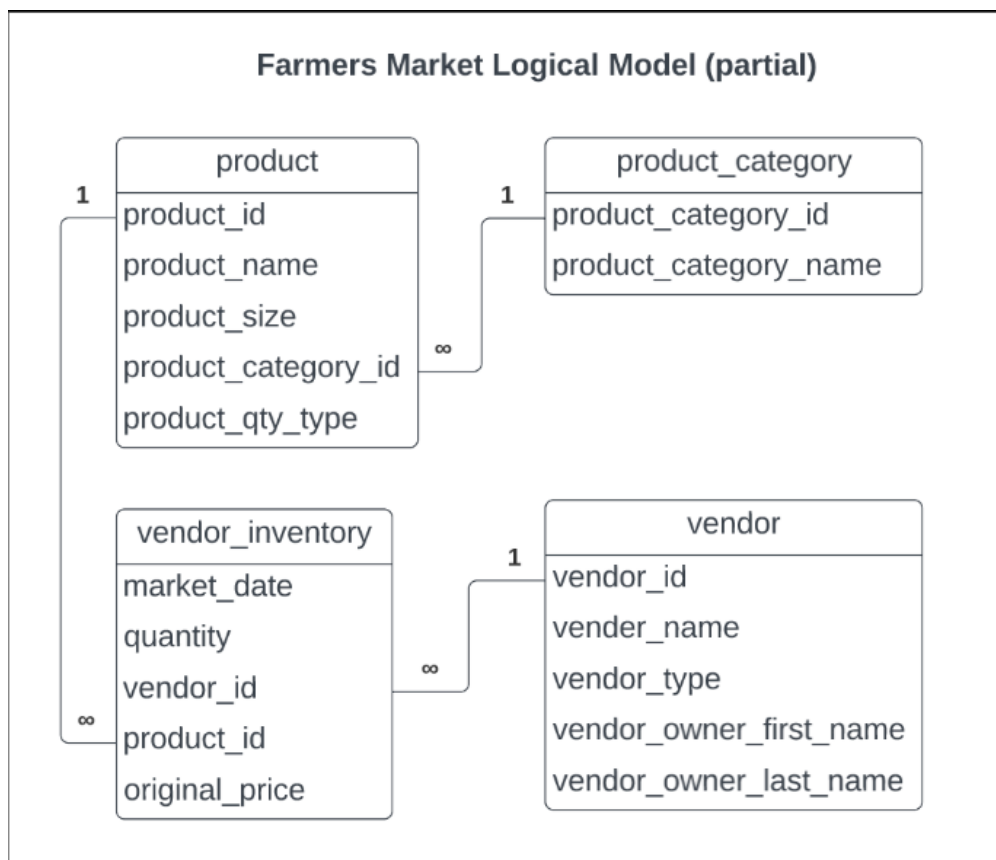
Move on to the Logical Data Model task when you have looked through the tables

Logical Data Model

Recall during the module:

I diagramed the following four tables:

- product
- product_category
- vendor
- vendor_inventory



Your task: choose two tables and create a logical data model. There are lots of tools you can do this (including drawing this by hand), but I'd recommend [LucidChart](#).

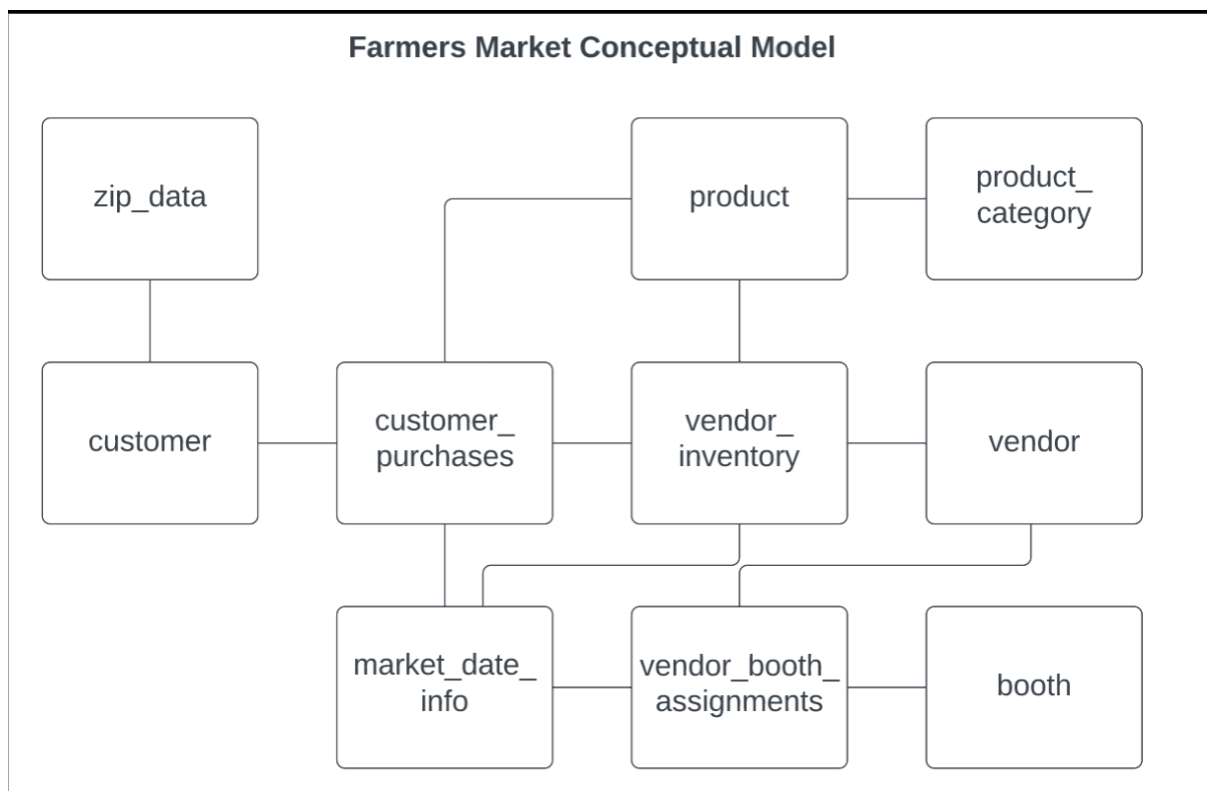
A logical data model must contain:

- table name
- column names
- relationship type

Please do not pick the exact same tables that I have already diagrammed. For example, you shouldn't diagram the relationship between **product** and **product_category**, but you could diagram **product** and **customer_purchases**.

A few hints:

- You will need to use the Browse Data tab in the main window to figure out the relationship types.
- You can't diagram tables that don't share a common column
 - These are the tables that are connected



- The column names can be found in a few spots (DB Schema window in the bottom right, the Database Structure tab in the main window by expanding each table entry, at the top of the Browse Data tab in the main window)