Database task

by Mahmoud Basha

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I used SQLite with SQLite studio for this task

Steps to reproduce output:

1 – from the top left corner in SQLite studio Click on Database to create a new database. I created database named -> drinkMenu

2- Create table to house the data in the excel file by using the create table command

```
CREATE TABLE drinkMenuMY (
    Beveragecategory TEXT,
    Beverage TEXT,
    Beverageprep TEXT,
    Calories INTEGER,
    TotalFat TEXT,
    TransFat REAL,
    SaturatedFat REAL,
    Sodium INTEGER,
    TotalCarbohydrates INTEGER,
```

Cholesterol INTEGER,

DietaryFibre INTEGER,

Sugars INTEGER,

Protein INTEGER

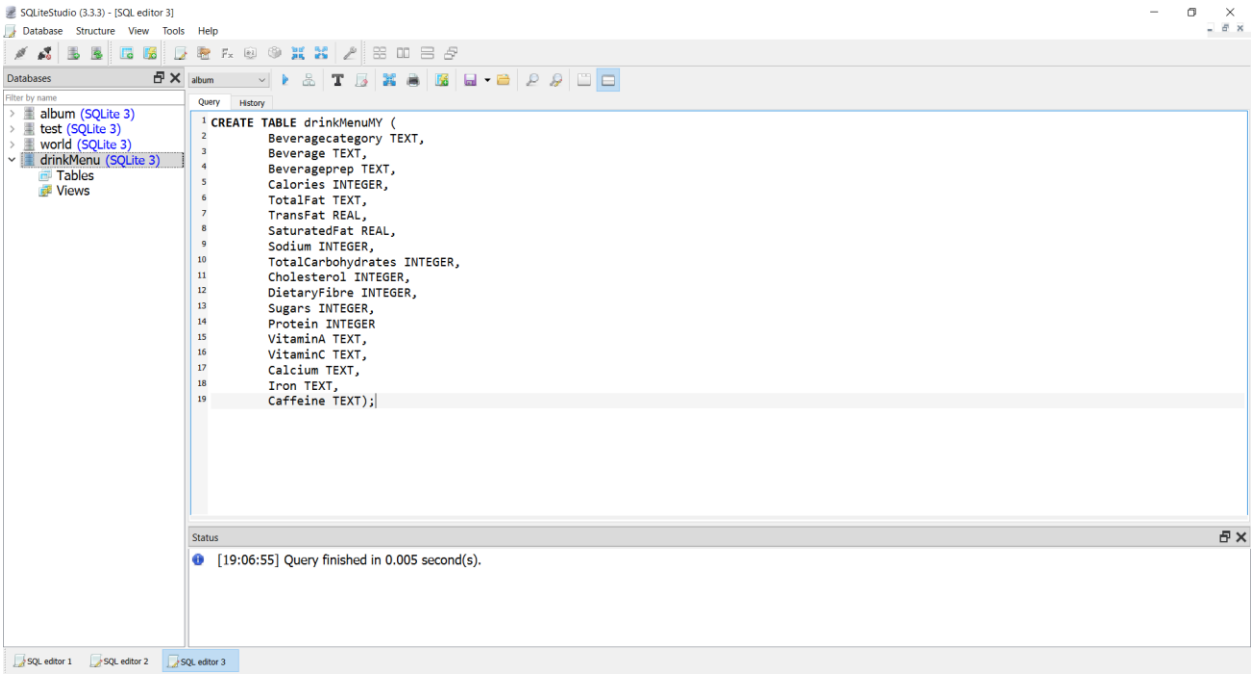
VitaminA TEXT,

VitaminC TEXT,

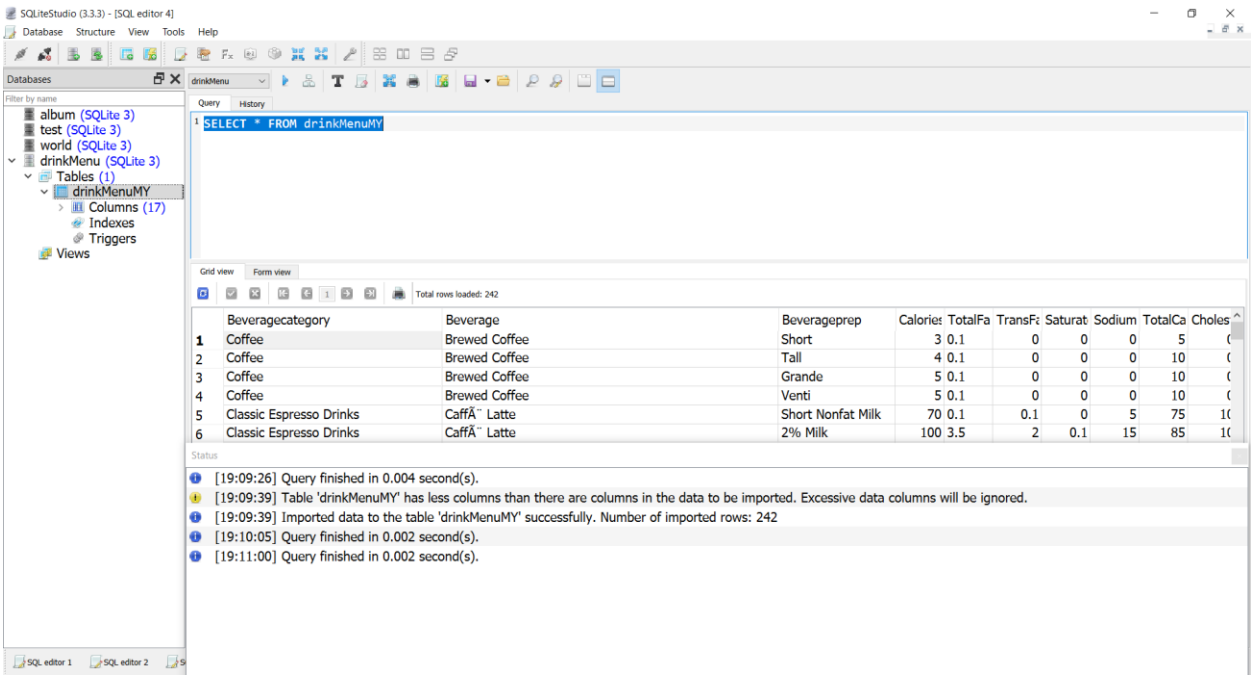
Calcium TEXT,

Iron TEXT,

Caffeine TEXT);



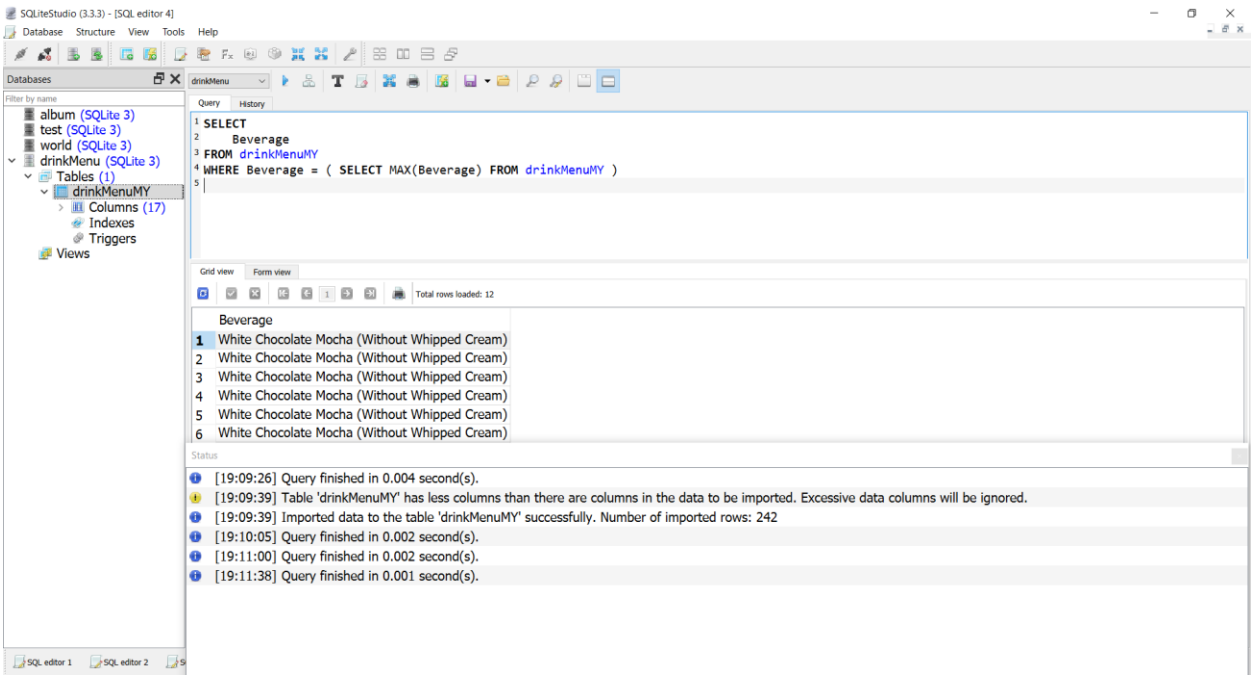
3 – import the excel file into the table by using the import tool. Tools -> import -> choose table to import into –> choose excel file to import from



Questions answers:

1. Which drink has the highest calories from the dataset ?

```
SELECT
   Beverage
FROM drinkMenuMY
WHERE Beverage = ( SELECT MAX(Beverage) FROM drinkMenuMY )
```



2 - What is the average calorie amount for each drink category ?

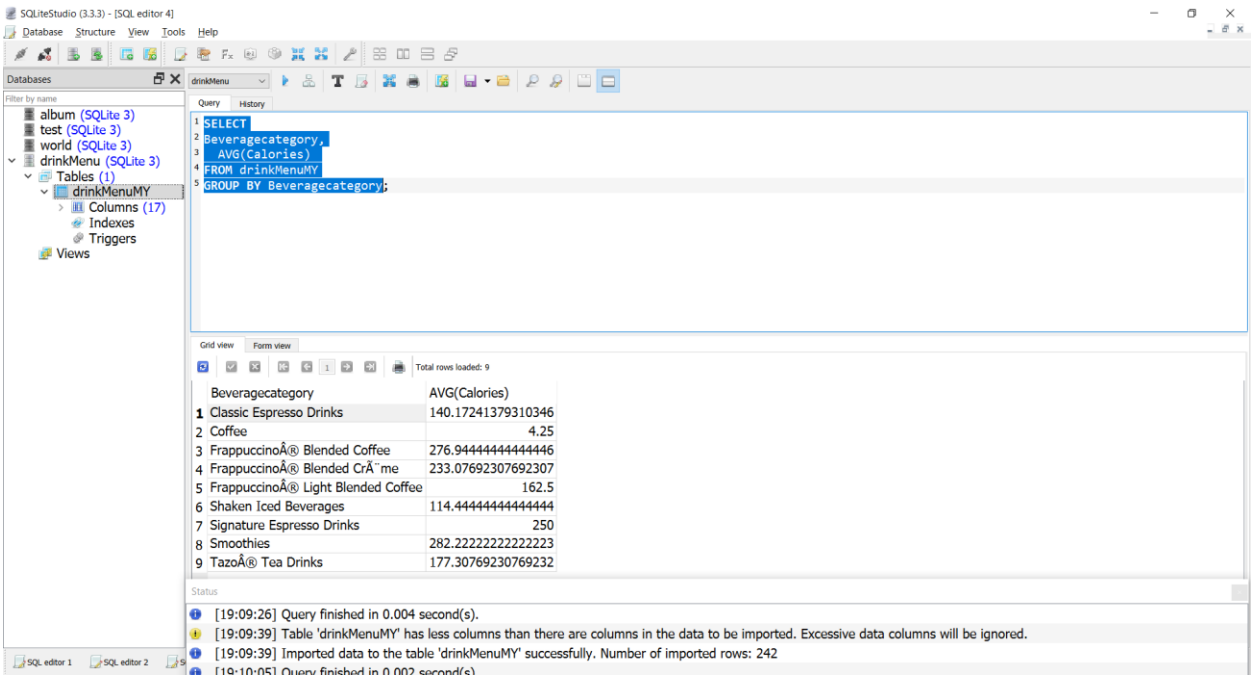
SELECT

Beveragecategory,

AVG(Calories)

FROM drinkMenuMY

GROUP BY Beveragecategory


SQLiteStudio (3.3.3) - [SQL editor 4]
Database Structure View Tools Help
Databases
Filter by name
album (SQLite 3)
test (SQLite 3)
world (SQLite 3)
drinkMenu (SQLite 3)
Tables (1)
drinkMenuMY
Columns (17)
Indexes
Triggers
Views
drinkMenu
Query History
SELECT
Beveragecategory,
AVG(Calories)
FROM drinkMenuMY
GROUP BY Beveragecategory;
Grid view Form view
Total rows loaded: 9
Beveragecategory AVG(Calories)
1 Classic Espresso Drinks 140.17241379310346
2 Coffee 4.25
3 FrappuccinoÂ® Blended Coffee 276.94444444444446
4 FrappuccinoÂ® Blended CrÃ¨me 233.07692307692307
5 FrappuccinoÂ® Light Blended Coffee 162.5
6 Shaken Iced Beverages 114.44444444444444
7 Signature Espresso Drinks 250
8 Smoothies 282.22222222222223
9 TazoÂ® Tea Drinks 177.30769230769232
Status
[19:09:26] Query finished in 0.004 second(s).
[19:09:39] Table 'drinkMenuMY' has less columns than there are columns in the data to be imported. Excessive data columns will be ignored.
[19:09:39] Imported data to the table 'drinkMenuMY' successfully. Number of imported rows: 242
SQL editor 1
SQL editor 2

3- Which drinks have below average calorie amount ?

```
SELECT
    Beverage
FROM drinkMenuMY
WHERE Calories < (SELECT AVG(Calories) FROM drinkMenuMY)
GROUP BY Beverage;
```