

IS113 Web Application Development I

Week 11 In-Class notes

[G10]

~ LAU Yi Meng ~

Part IV – National Flowers

Exercise : National Flowers

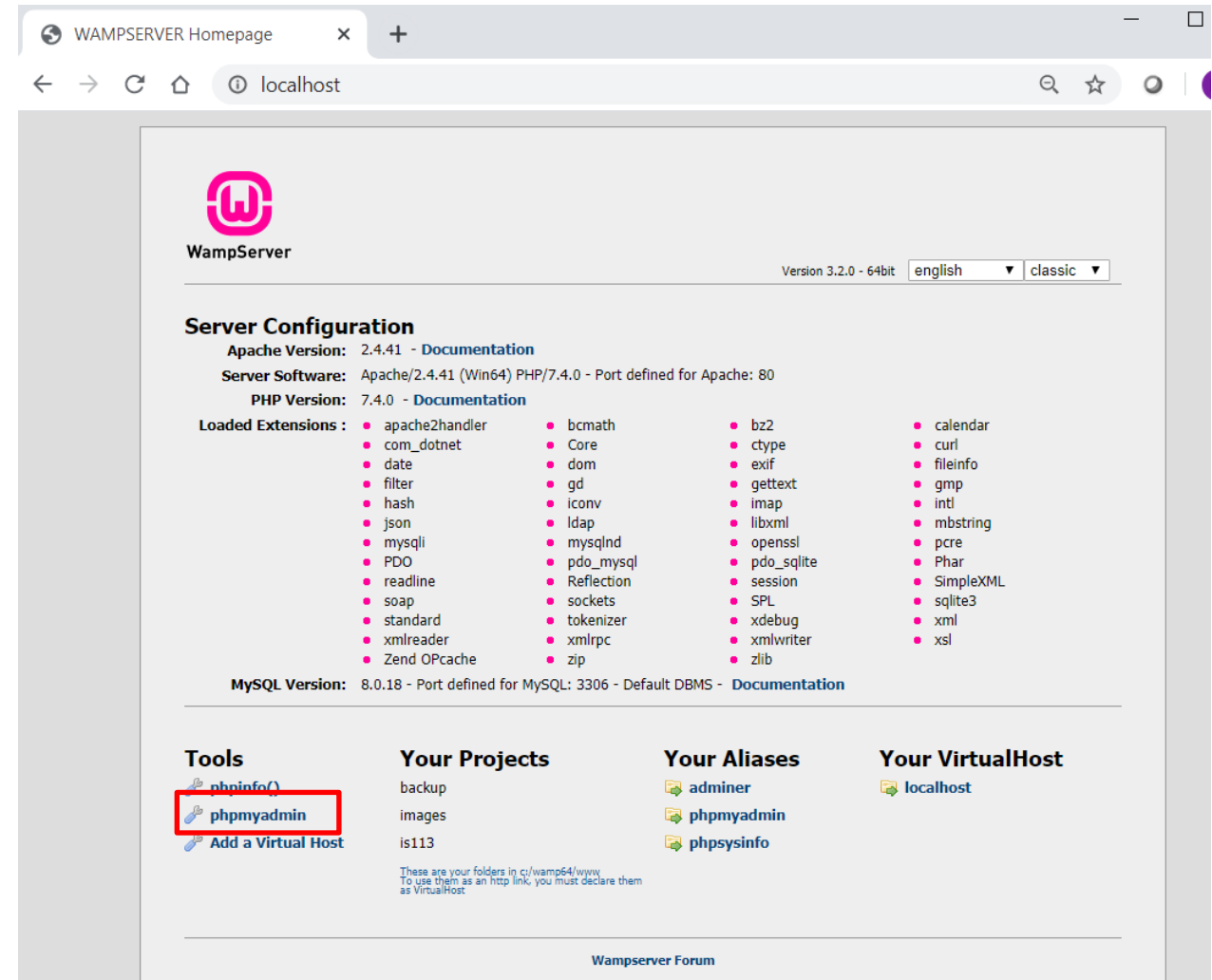
```
webroot ---
|  |-- is113
|  |
|  |  |-- week11
|  |  |
|  |  |  |-- NationalFlowers
|  |  |  |
|  |  |  |  |-- model
|  |  |  |  |
|  |  |  |  |  |-- common.php
|  |  |  |  |  |-- ConnectionManager.php
|  |  |  |  |  |-- NationalFlower.php
|  |  |  |  |  |-- NationalFlowerDAO.php // change to db connection
|  |  |  |-- flower.sql
|  |  |  |-- flower_create.php
|  |  |  |-- flower_delete.php
|  |  |  |-- flower_for_country.php
|  |  |  |-- flower_list.php
|  |  |  |-- flower_similar.php
|  |  |  |-- flower_update.php
```

Check localhost phpmyadmin

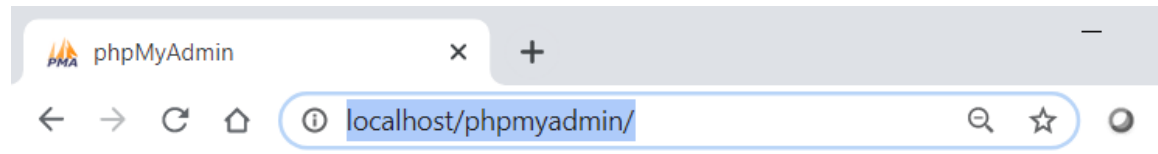
- Enter URL :
<http://localhost>
- Click on phpmyadmin

Alternative way :

- Enter URL:
<http://localhost/phpmyadmin/>



Check localhost phpmyadmin

A screenshot of the phpMyAdmin login page. The page has a logo at the top and the text 'Welcome to phpMyAdmin'. Below this is a 'Language' dropdown menu set to 'English'. Below that is a 'Log in' section with a 'Username:' field containing 'root', a 'Password:' field, and a 'Go' button. A blue circle with the number '1' and an arrow points to the 'root' text in the username field. Another blue circle with the number '2' and an arrow points to the 'Go' button.

Windows

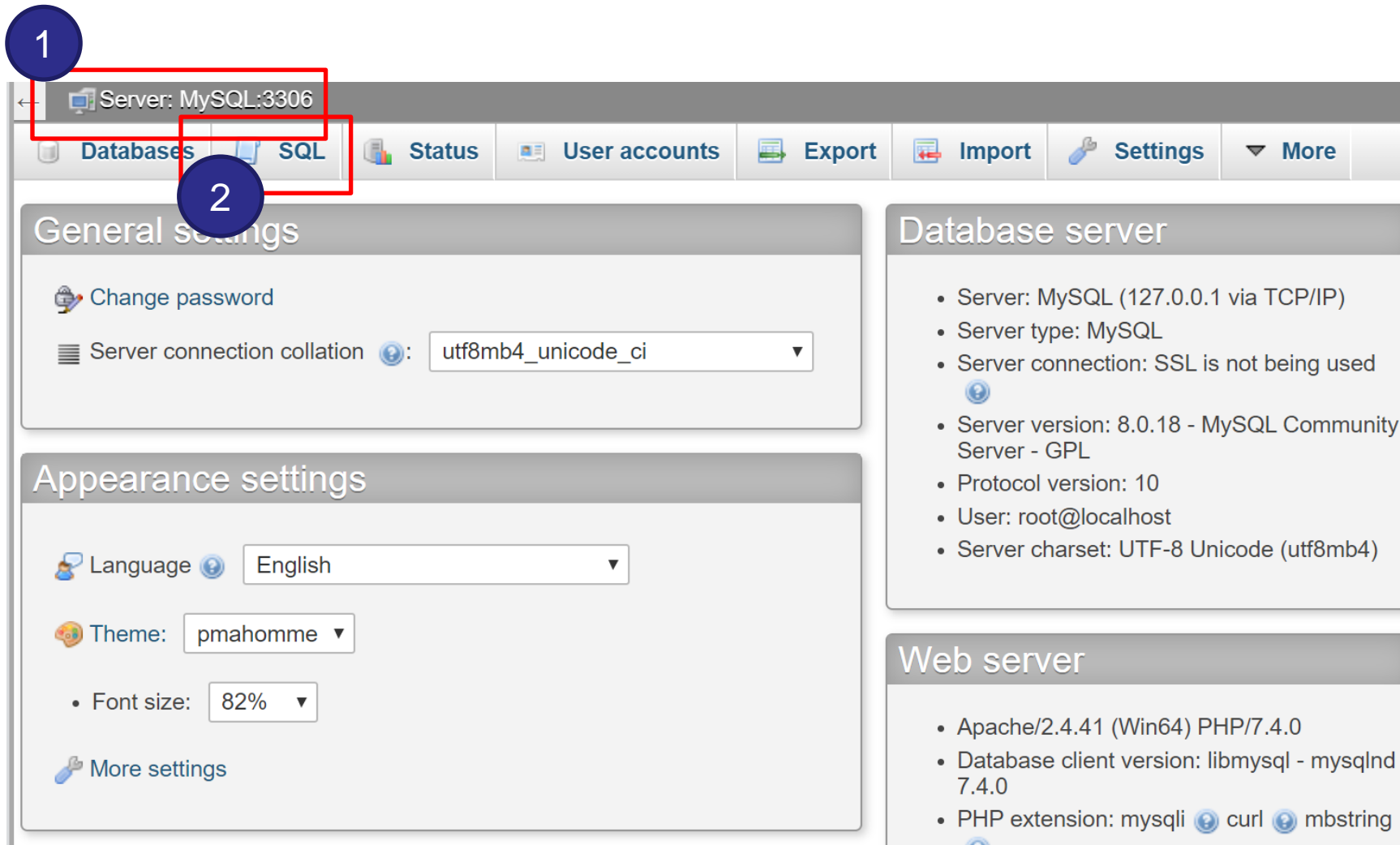
Username : root
Password :

MacOS

Username : root
Password : root

Click "Go"

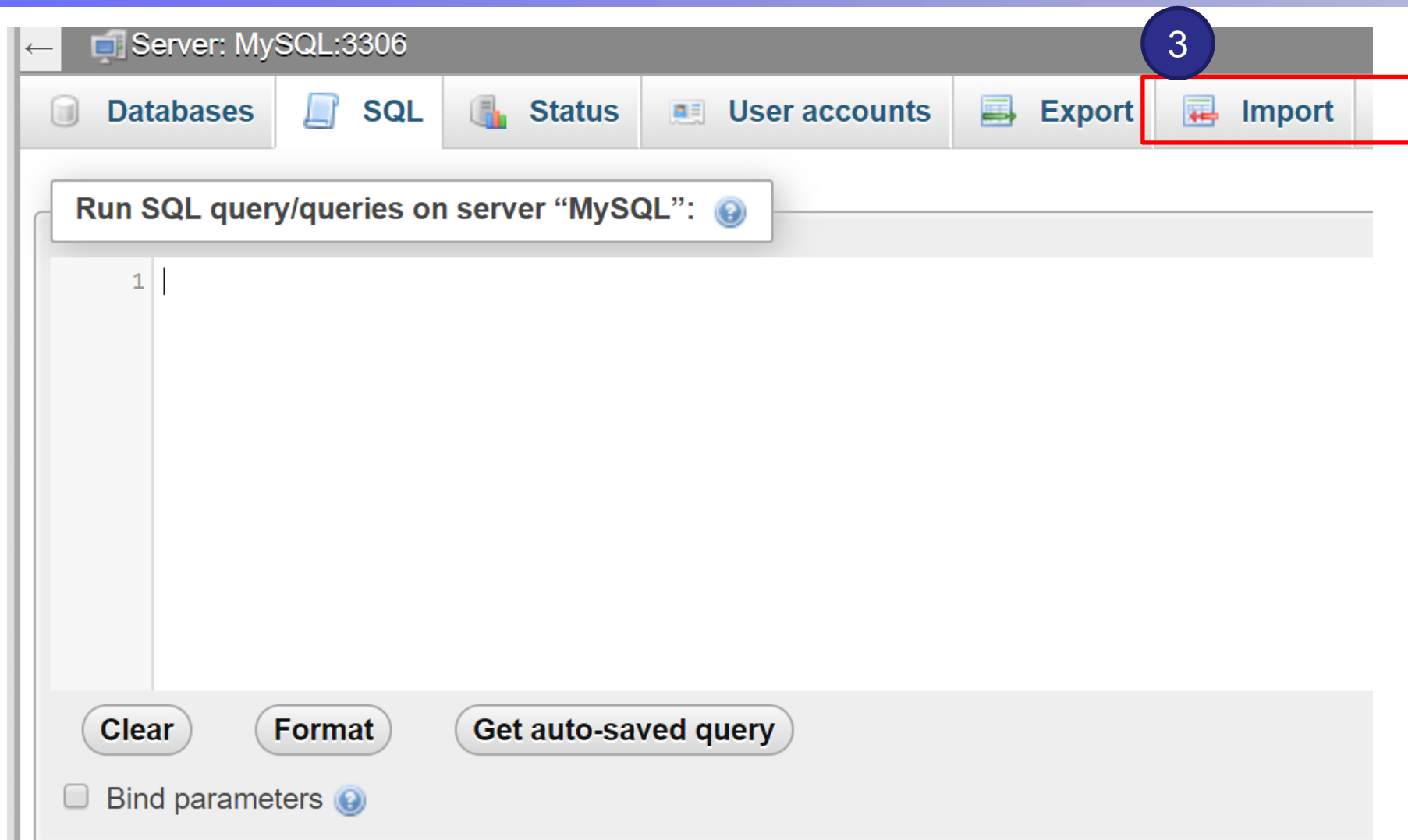
Create a database in phpmyadmin



1. Click Server:MySQL:3306

2. Click SQL

Create a database in phpmyadmin



3. Click Import

Importing into the current server

File to import:

File may be compressed (gzip, bzip2, zip) or uncompressed.
A compressed file's name must end in `[format].[compression]`. Example: `.sql.zip`

Browse your computer **4** **Choose File** No file chosen (Max: 128MiB)

You may also drag and drop a file on any page.

Character set of the file: utf-8 ▼

Partial import:

☒ Allow the interruption of an import in case the script detects it is close to the PHP time limit

Skip this number of queries (for SQL) starting from the first one: 0

Other options:

☒ Enable foreign key checks

Format:

SQL ▼

Format-specific options:

SQL compatibility mode: NONE ▼

☒ Do not use `AUTO_INCREMENT` for zero values

5 **Go**

4. Click Choose File.

Select file `flower.sql`

Click Open.

5. Click Go

National Flowers [CRUD]

- Complete the method in `NationalFlowerDAO.php`
 - `retrieveAll()`
To read from database
- Complete `flower_list.php` such that it displays the following.

List of National Flowers

Country	National Flower
AUSTRALIA	GOLDEN WATTLE
AUSTRIA	EDELWEISS
BAHAMAS	YELLOW ELDER
BELGIUM	RED POPPY
BELIZE	BLACK ORCHID
BHUTAN	BLUE POPPY
BOHEMIA	THYME
BRAZIL	CATTLEYA ORCHID
CANADA	MAPLE LEAF
CHINA	PLUM BLOSSOM
COLUMBIA	CATTLEYA TRIANAE
DENMARK	MARGUERITE DAISY
ECUADOR	ROSE
ETHIOPIA	CALLA LILY
FRANCE	IRIS
GERMANY	CORNFLOWER
HOLLAND	TULIP
HONG KONG	ORCHID BAUHINIA
ITALY	LILY
JAPAN	CHERRY BLOSSOM
KYRGYZSTAN	TULIP
LUXEMBOURG	ROSE
MALDIVES	PINK ROSE
POLAND	CORN POPPY
RUSSIA	CAMOMILE
SCOTLAND	THISTLE
SINGAPORE	VANDA MISS JOAQUIM ORCHID
SPAIN	RED CARNATION
SWITZERLAND	EDELWEISS
TURKEY	TULIP
UKRAINE	SUNFLOWER
UNITED STATES	ROSE

To show all National Flower. Click [here](#)
 To search for the National Flower for a country. Click [here](#)
 To search for similar National Flowers Click [here](#)
 To create a new record. Click [here](#)

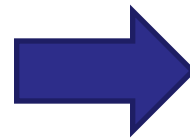
National Flowers [CRUD]

- Complete the methods in `NationalFlowerDAO.php`
 - `retrieveCountryList()`
 - `getFlowerByCountry($country)`
- Complete `flower_for_country.php` such that it displays the following.

National Flowers

Choose a Country :

To show all National Flower. Click [here](#)
 To search for the National Flower for a country. Click [here](#)
 To search for similar National Flowers Click [here](#)
 To create a new record. Click [here](#)



National Flowers

Choose a Country :

The national flower for HOLLAND is TULIP

To show all National Flower. Click [here](#)
 To search for the National Flower for a country. Click [here](#)
 To search for similar National Flowers Click [here](#)
 To create a new record. Click [here](#)

When the page is first loaded.
 User select the country "HOLLAND"

What will be shown after clicking
 "Get National Flower"

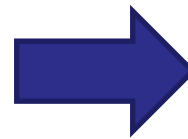
National Flowers [CRUD]

- Complete the methods in `NationalFlowerDAO.php`
 - `getCountryWithSimilarFlowers($str)`
- Complete `flower_similar.php` such that it displays the following.

Similar National Flowers

Enter a type of flower :

When the page is first loaded.
User enters "rose"



Similar National Flowers

Enter a type of flower :

National Flowers which contains **rose**

Country	Flower
ECUADOR	ROSE
LUXEMBOURG	ROSE
MALDIVES	PINK ROSE
UNITED STATES	ROSE

What will be shown after clicking
"Find"

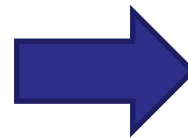
National Flowers [CRUD]

- Complete the methods in `NationalFlowerDAO.php`
 - `checkNationalFlowersExist($country, $flower)`
- Complete `flower_create.php` such that it displays the following.

National Flowers Create

Enter a Country:

Enter a National Flower:



National Flowers Create

Enter a Country:

Enter a National Flower:

Country : BELIZE
Flower: BLACK ORCHID
Record already exists.

When the page is first loaded.
User enters "BELIZE", "BLACK ORCHID".

What will be shown after clicking
"Create Flower"

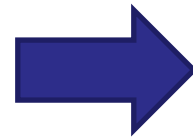
National Flowers [CRUD]

National Flowers Create

Enter a Country:

Enter a National Flower:

Create Flower



National Flowers Create

Enter a Country:

Enter a National Flower:

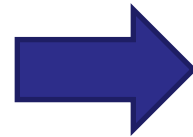
Create Flower

Record created successfully.

What will be shown after clicking
"Create Flower"

When the page is first loaded.
User enters "CROATIA", "IRIS CROATICA".

Load page `flower_list.php`



CHINA	PLUM BLOSSOM
COLUMBIA	CATTLEYA TRIANAE
CROATIA	IRIS CROATICA
DENMARK	MARGUERITE DAISY

National Flowers [CRUD]

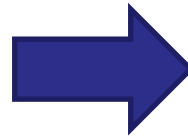
- Complete the methods in `NationalFlowerDAO.php`
 - `UpdateNationalFlower ($country, $flower)`
- Complete `flower_update.php` such that it displays the following.

National Flowers Update

Enter a Country:

National Flower:

When the page is first loaded.
User enters "CANADA". Click "Retrieve Flower".
MAPLE LEAF will be shown. Update to "MAPLE LEAF NEW".
Click "Update Flower".



National Flowers Update

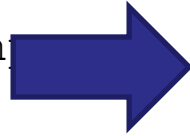
Enter a Country:

National Flower:

CANADA national flower is updated to MAPLE LEAF NEW

National Flowers [CRUD]

Load page flower_list.ph



BRAZIL	CATTLEYA ORCHID
CANADA	MAPLE LEAF NEW

National Flowers [CRUD]

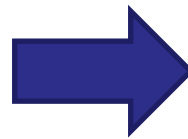
- Complete the methods in `NationalFlowerDAO.php`
 - `DeleteNationalFlower($country, $str)`
- Complete `flower_delete.php` such that it displays the following.

National Flowers Delete

Enter a Country:

National Flower:

When the page is first loaded.
User selects "SWITZERLAND". Click "Retrieve Flower".
EDELWEISS will be shown. Click "Delete Record"



National Flowers Delete

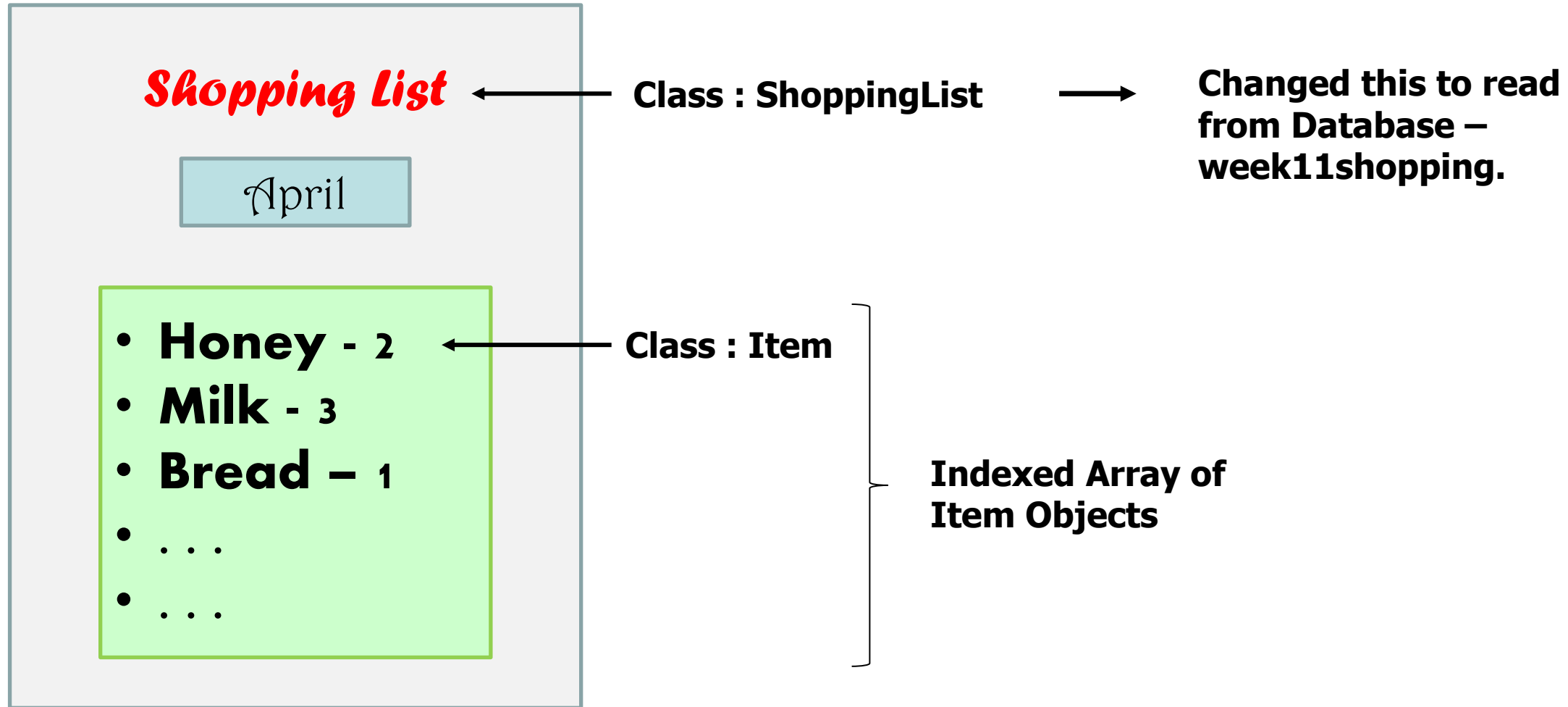
Enter a Country:

National Flower:

SWITZERLAND national flower EDELWEISS is deleted.

Confirmation statement is displayed.

Shopping



Shopping

- Load the database – with `week11shopping.sql`
- Class `Item` is provided.
- Complete class `ShoppingList` in `ShoppingList.php` to read from the database :
 - a function `addItem($item)`
 - adds an `Item` object into the Shopping List .
 - a function `removeItem($item_name)`
 - remove the `Item` object that has `name=$item_name`

Shopping

- `shop.php` you will display the following.
- The detailed steps are `shop.php`.

April

This is my initial Shopping List

Item	Qty	Unit Price	Total
Total			0

Added my List of Items

Item	Qty	Unit Price	Total
Coffee	6	5.2	31.2
Flour	2	7.3	14.6
Apple	1	0.8	0.8
Total			46.6

Added item - Apple

Item	Qty	Unit Price	Total
Coffee	6	5.2	31.2
Flour	2	7.3	14.6
Total			45.8

After I empty my Shopping List

Item	Qty	Unit Price	Total
Total			0