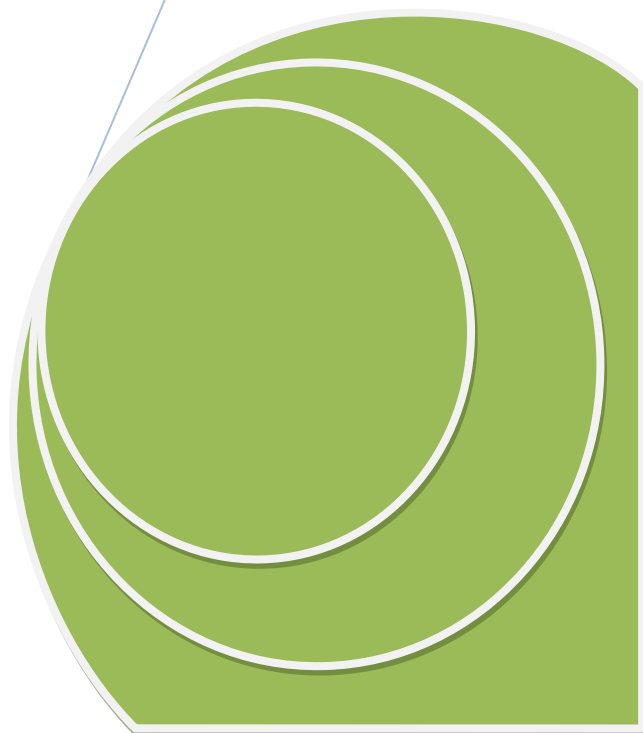
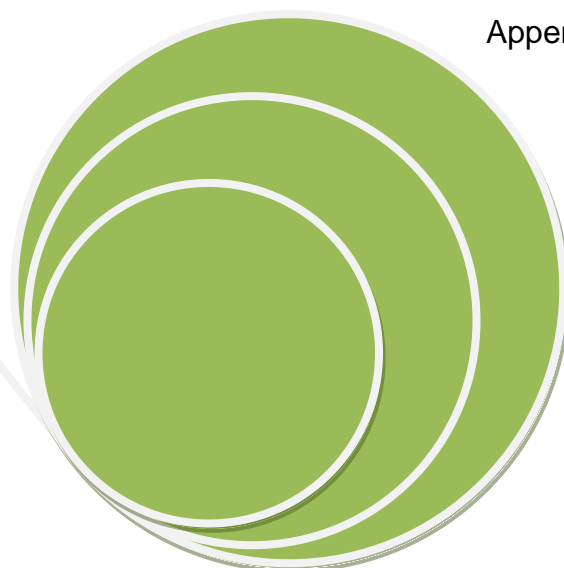


## Database training manual exercises



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Exercise 3 Querying and updating surveillance diagnostics.

3.1 Updating diagnostic results

3.2. Extract a list of pending diagnostics

## Exercise 1: Inputting survey data from excel.

1. Open the Survey data form

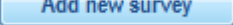
The screenshot shows the 'Survey data' application window. At the top, there is a search bar and a 'Return to main menu' button. Below the search bar are buttons for 'Add new survey' and 'Save Record'. The 'Data entry form' section contains the following fields:

- SurveyID: DALE1
- SurveyName: Citrus Survey
- StartDate: 08/04/2014
- EndDate: (empty)
- Location\_Level1: Province 4
- SurveyType: Delimiting

There is an 'Import survey data' button and a link that says 'Click to refresh and review imported data'. Below the form is a table with the following data:

SurveyID	CollectionID	RecordType	DiagnosticResult	Collectio
DALE1	DEMO1	Specimen	Positive	8/04/2014
DALE1	DEMO2	Specimen	Positive	8/04/2014
DALE1	DEMO3	Specimen	Positive	8/04/2014
DALE1	DEMO4	Specimen	Positive	8/04/2014
DALE1	DEMO5	Specimen	Positive	8/04/2014
DALE1	DEMO6	Specimen	Positive	8/04/2014
DALE1	DEMO7	Specimen	Positive	8/04/2014
DALE1	DEMO8	Observation: Present	Positive	8/04/2014
DALE1	DEMO9	Observation: Present	Positive	8/04/2014
DALE1	DEMO10	Observation: Present	Positive	8/04/2014
DALE1	DEMO11	Observation: Present	Positive	8/04/2014
DALE1	DEMO12	Specimen	Positive	8/04/2014
DALE1	DEMO13	Specimen	Positive	8/04/2014
DALE1	DEMO14	Specimen	Positive	8/04/2014
DALE1	DEMO15	Specimen	Positive	8/04/2014
DALE1	DEMO16	Specimen	Negative	8/04/2014

At the bottom of the table, there is a status bar showing 'Record: 1 of 149' and a search bar.

2. Create new survey by clicking the  button.

3. Add survey information into the **Data entry form**

The screenshot shows the 'Data entry form' with the following fields:

- SurveyID: (empty)
- SurveyName: (empty)
- StartDate: (empty)
- EndDate: (empty)
- Location\_Level1: (empty)
- SurveyType: (empty)

There is an 'Import survey data' button and a link that says 'Click to refresh and review imported data'.

SurveyID = CANKER1

**SurveyName** = Citrus Canker Delimiting Survey

**StartDate** = 02/06/2014

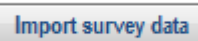
**EndDate** = 06/06/2014

**SurveyType** = Delimiting

**Location\_Level1** = Malaysia

4. Now press the  button at the top of the form

5. Import the Excel spreadsheet **citrus\_canker\_survey.xlsx** using the



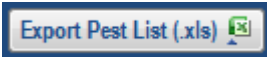
## Exercise 2. Extracting pest lists.

In this exercise we are going to extract a pest list for commodities using the **Pest List Form**. The pest list form contains a list of all pests found to be present from surveillance. The list can be filtered by searching by commodity (host) by Genus. For example, we can search for all pests present associated with Mango by searching *Mangifera*.

1. Open the Pest List form from the main menu.



2. Use the **search box** to find pest lists for all plant pests associated with Mango (*Mangifera*).

3. Export the search results to Excel using the  button.
4. Repeat the exercise to generate pest lists for Banana (**Musa**).

## Exercise 3 Querying and updating surveillance diagnostics.

### 3.1 Updating diagnostic results

Two specimens collected as part of a survey for diseases of citrus have returned with **Positive** results for Citrus Greening (*Liberibacter asiaticus*). The CollectionIDs for the two specimens are DEMO31 and DEMO33. Summaries of the records are shown below.

SurveyName	SurveyName
Citrus Survey	Citrus Survey
Location_Level1	Location_Level1
Province 4	Province 4
CollectionID	CollectionID
DEMO31	DEMO33
DiagnosticResult	DiagnosticResult
Pending	Pending
PestOrder	PestOrder
Rhizobiales	Rhizobiales
PestFamily	PestFamily
Phyllobacteriaceae	Phyllobacteriaceae
PestGenus	PestGenus
Liberibacter	Liberibacter
PestSpecies	PestSpecies
asiaticus	asiaticus
IdentificationMethod	IdentificationMethod
DNA	DNA
IdentificationDate	IdentificationDate
RecordType	RecordType
Specimen	Specimen

1. Search for first record by typing the CollectionID (DEMO31) into the **Diagnostics** form search box, and press the **Search** button.

### Diagnostics

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**Search**

Search by: Location, survey, diagnostic result, collector or collection ID

2. This will display the record.

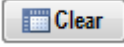
Search

Search by: Location, survey, diagnostic result, collector or collection ID

[Export Search Results](#)

SurveyName	Location_Level1	CollectionID	DiagnosticResult	PestOrder	PestFamily	PestGenus	PestSpecies	IdentificationMethod	IdentificationDate	RecordType
Citrus Survey	Province 4	DEMO31	Pending	Rhizobiales	Phyllobacteria	Liberibacter	asiaticus	DNA		Specimen

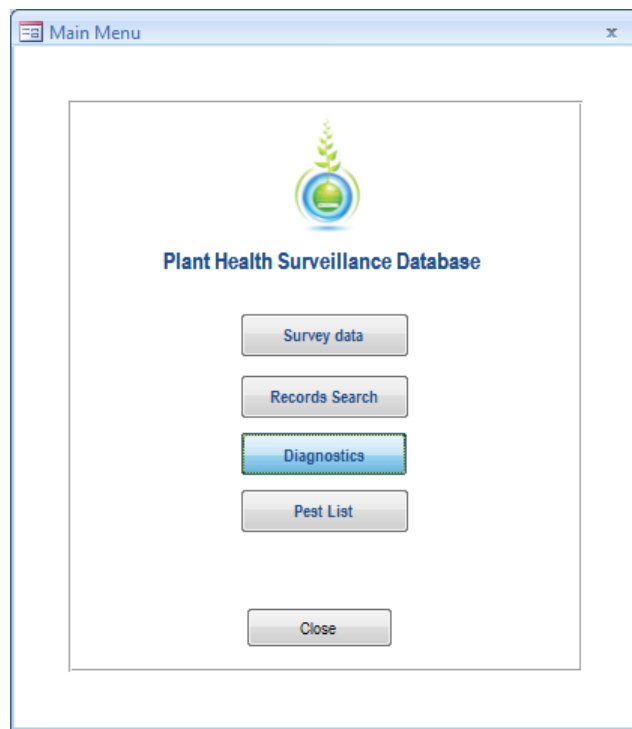
- Update the diagnostic result from **Pending** to **Positive**.
- Add the **IdentificationDate** to the record (the positive identification was made on **05/05/2014**)


4. Clear the search box by pressing the  button and repeat the exercise for the second **CollectionID**, DEMO33

### 3.2. Extract a list of pending diagnostics

In this exercise we are going to extract a list of all outstanding diagnostic results from the database. This may be useful for following up, tracking and managing outstanding results from surveys.

- Open the Diagnostic forms from the main menu



- Type **'Pending'** into the form's search box, and press the  button.


3. The data should be filtered by all records for diagnostics are

now be filtered which the pending.

Search

pending

Search by: Location, survey, diagnostic result, collector or collection ID

 [Export Search Results](#)

<u>SurveyName:</u>	<u>Location</u>	<u>Level1</u>	<u>CollectionID</u>	<u>DiagnosticResult</u>	<u>PestOrder</u>	<u>PestFamily</u>	<u>PestGenus</u>	<u>PestSpecies</u>	<u>IdentificationMethod</u>
Citrus Survey	Province 4		DEMO31	Pending	Rhizobiales	Phyllobacteria	Liberibacter	asiaticus	DNA
Citrus Survey	Province 4		DEMO33	Pending	Rhizobiales	Phyllobacteria	Liberibacter	asiaticus	DNA
Early Detection survey	Province X		DEMO82	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO83	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO103	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO105	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO84	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO85	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO86	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO87	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO88	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO89	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA
Early Detection survey	Province X		DEMO90	Pending	Botryosphaerales	Botryosphaeri	Phyllosticta	maculata	DNA

4. Now export the list by click on

 [Export Search Results](#)