

## Solution to Exercise 2: Create a basic data entry form

### Key Point(s):

- The identifier is the most important variable in a record
- EpiData is not case-sensitive, but some other software is. It is therefore advisable to use a simple rule such as consistently using lower-case for field names.

### Tasks:

- o *Finalize the data entry form for the remaining results variables. Note that the fields for scanty results cannot be **Must Enter**. Note further the options in the Drop down menu for what is the default “Skip Next Field” to pick the best option for the last result.*
- o *Align the field correctly using the Alignment icon. Note that correct vertical alignment is critical if two variables are on the same horizontal pane (EpiData Manager gives nice blue and red guiding lines). If two variables on the same horizontal pane are vertically mismatched, the sequence of data entry will go wrong!*
- o *Tell EpiData Manager to create the Codebook and save the output file as a text file “a\_ex02\_codebook.txt”.*

### Solution:

The data entry form may look as follows:

Tuberculosis Microscopy Laboratory

Laboratory serial number

Registration date

Examinee's sex  label\_sex

Examinee's age in years

Reason for examination  label\_reason

Result of specimen 1  label\_result      Result of specimen 1 scanty  label\_scanty

Result of specimen 2  label\_result      Result of specimen 2 scanty  label\_scanty

Result of specimen 3  label\_result      Result of specimen 3 scanty  label\_scanty

Once a data entry form has been prepared, it is best to test it right away in the EntryClient with some fake data (without saving) to identify quickly problems.

You can leave the data entry form open in EpiData Manager and access the EpiData EntryClient via the menu and after prompting the Manager will close.

Opening in the EntryClient:

## Tuberculosis Microscopy Laboratory

Laboratory serial number

Registration date

Examinee's sex

Examinee's age in years

Reason for examination

Result of specimen 1  Result of specimen 1 scanty

Result of specimen 2  Result of specimen 2 scanty

Result of specimen 3  Result of specimen 3 scanty

we see that all fields which should be Must Enter actually are (orange-brownish color) and that the fields which can be bypassed (for quantified scanty results) are not.

Entering fake data, we get:

## Tuberculosis Microscopy Laboratory

Laboratory serial number

Registration date

Examinee's sex  Female

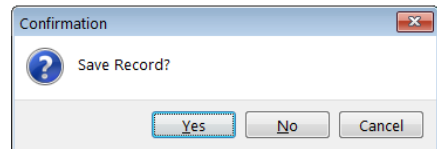
Examinee's age in years

Reason for examination  Diagnosis

Result of specimen 1  Negative Result of specimen 1 scanty

Result of specimen 2  Scanty, quantified Result of specimen 2 scanty  8 AFB per 100 OIF

Result of specimen 3  Result not recorded Result of specimen 3 scanty



It all looks as it should, neat and nicely. Do not save the record and exit without saving.

We saved the CodeBook as text file and can look at it in a text editor. It must reflect what we defined in the Data documentation sheet but is now much more detailed and a superb document that can be shared with others who later collaborate in the analysis:

```

=====
Report: CodeBook
Created: 28-04-2015 18:33:16
=====

-----
File 1: C:\EpiData_course\a_ex02.epx
-----

File 1: C:\EpiData_course\a_ex02.epx
-----
Title      EpiData course
Created    28-04-2015 09:50:32
Last Edited 28-04-2015 18:06:40
Version    1
Cycle      13
-----
Backup on shutdown: yes
Encrypted data: no

Dataforms:
-----

```

Caption	Created	Structure Edited	Data Edited	Sections	Fields	Records	Deleted
Microscopy lab	28-04-2015 09:50:32	28-04-2015 18:06:40	28-04-2015 09:50:32	1	11	0	0

```
-----
Caption          Fields in key
-----
Microscopy lab (serno:Laboratory serial number)
-----
```

```
=====
Dataform: Microscopy lab
=====
```

List Overview

```
-----
Name      Type      Length Missing Value(s) Value Label Question / Caption
-----
H1        Heading
serno     Integer     4          Laboratory serial number
regdate   Date (DMY)  10         Registration date
sex       Integer     1          label_sex  Examinee's sex
age       Integer     3          label_age  Examinee's age in years
reason    Integer     1          label_reason Reason for examination
res1      Integer     1          label_result Result of specimen 1
res1sc    Integer     1          label_scanty Result of specimen 1 scanty
res2      Integer     1          label_result Result of specimen 2
res2sc    Integer     1          label_scanty Result of specimen 2 scanty
res3      Integer     1          label_result Result of specimen 3
res3c     Integer     1          label_scanty Result of specimen 3 scanty
-----
```

```
..-^...^...^...^...^...^...^...^...^...^...^...^...^..
```

Field: serno: Laboratory serial number

```
-----
Type          Integer
Length        4
Show Value Label true
-----
```

```
..-^...^...^...^...^...^...^...^...^...^...^...^...^..
```

Field: regdate: Registration date

```
-----
Type          Date (DMY)
Length        10
Entry Mode    Must Enter
Range         01-01-2000-31-12-2005
Show Value Label true
-----
```

```
..-^...^...^...^...^...^...^...^...^...^...^...^...^..
```

Field: sex: Examinee's sex

```
-----
Type          Integer
Length        1
Entry Mode    Must Enter
Show Value Label true
Show Picklist true
-----
```

Value label: label\_sex [I]: (Integer)

```
-----
Value Label    Missing (M), set: label_sex
-----
1      Female
2      Male
9      Not recorded
-----
```

```
..-^...^...^...^...^...^...^...^...^...^...^...^...^..
```

Field: age: Examinee's age in years

```
-----
Type          Integer
Length        3
Entry Mode    Must Enter
Range         0-125
-----
```

Value label: label\_age [I]: (Integer)

```
-----
```

Value Label Missing (M), set: label\_age

999 Age not recorded

..^...^...^...^...^...^...^...^...^...^...^...^...^..

Field: reason: Reason for examination

Type Integer  
Length 1  
Entry Mode Must Enter  
Show Value Label true  
Show Picklist true

Value label: label\_reason [I]: (Integer)

Value Label Missing (M), set: label\_reason

0 Diagnosis  
1 Follow-up at 1 month  
2 Follow-up at 2 months  
3 Follow-up at 3 months  
4 Follow-up at 4 months  
5 Follow-up at 5 months  
6 Follow-up at 6 months  
7 Follow-up at 7 months or later  
8 Follow-up, month not stated  
9 Reason not recorded

..^...^...^...^...^...^...^...^...^...^...^...^...^..

Field: res1: Result of specimen 1

Type Integer  
Length 1  
Entry Mode Must Enter  
Jumps 0 > Skip Next Field  
1 > Skip Next Field  
2 > Skip Next Field  
3 > Skip Next Field  
4 > Skip Next Field  
5 > Skip Next Field  
9 > Skip Next Field  
Show Value Label true  
Show Picklist true

Value label: label\_result [I]: (Integer)

Value Label Missing (M), set: label\_result

0 Negative  
1 1+ positive  
2 2+ positive  
3 3+ positive  
4 Positive, not quantified  
5 Scanty, not quantified  
6 Scanty, quantified  
9 Result not recorded

..^...^...^...^...^...^...^...^...^...^...^...^...^..

Field: res1sc: Result of specimen 1 scanty

Type Integer  
Length 1  
Show Value Label true  
Show Picklist true

Value label: label\_scanty [I]: (Integer)

Value Label Missing (M), set: label\_scanty

1 1 AFB per 100 OIF  
2 2 AFB per 100 OIF  
3 3 AFB per 100 OIF  
4 4 AFB per 100 OIF  
5 5 AFB per 100 OIF  
6 6 AFB per 100 OIF  
7 7 AFB per 100 OIF  
8 8 AFB per 100 OIF  
9 9 AFB per 100 OIF

..^...

```
Field: res2: Result of specimen 2
-----
Type                Integer
Length              1
Entry Mode          Must Enter
Jumps               0 > Skip Next Field
                   1 > Skip Next Field
                   2 > Skip Next Field
                   3 > Skip Next Field
                   4 > Skip Next Field
                   5 > Skip Next Field
                   9 > Skip Next Field
Show Value Label    true
Show Picklist       true
-----
```

```
Value label: label_result [I]: (Integer)
-----
Value Label          Missing (M), set: label_result
-----
0      Negative
1      1+ positive
2      2+ positive
3      3+ positive
4      Positive, not quantified
5      Scanty, not quantified
6      Scanty, quantified
9      Result not recorded
-----
```

..^...

```
Field: res2sc: Result of specimen 2 scanty
-----
Type                Integer
Length              1
Show Value Label    true
Show Picklist       true
-----
```

```
Value label: label_scanty [I]: (Integer)
-----
Value Label          Missing (M), set: label_scanty
-----
1      1 AFB per 100 OIF
2      2 AFB per 100 OIF
3      3 AFB per 100 OIF
4      4 AFB per 100 OIF
5      5 AFB per 100 OIF
6      6 AFB per 100 OIF
7      7 AFB per 100 OIF
8      8 AFB per 100 OIF
9      9 AFB per 100 OIF
-----
```

..^...

```
Field: res3: Result of specimen 3
-----
Type                Integer
Length              1
Entry Mode          Must Enter
Jumps               0 > Save Record
                   1 > Save Record
                   2 > Save Record
                   3 > Save Record
                   4 > Save Record
                   5 > Save Record
                   9 > Save Record
Show Value Label    true
Show Picklist       true
-----
```

```
Value label: label_result [I]: (Integer)
-----
Value Label          Missing (M), set: label_result
-----
0      Negative
1      1+ positive
2      2+ positive
3      3+ positive
4      Positive, not quantified
5      Scanty, not quantified
6      Scanty, quantified
9      Result not recorded
-----
```

-----  
Field: res3c: Result of specimen 3 scanty

-----  
Type Integer  
Length 1  
Show Value Label true  
Show Picklist true  
-----

Value label: label\_scanty [I]: (Integer)

-----  
Value Label Missing (M), set: label\_scanty  
-----

- 1 1 AFB per 100 OIF
  - 2 2 AFB per 100 OIF
  - 3 3 AFB per 100 OIF
  - 4 4 AFB per 100 OIF
  - 5 5 AFB per 100 OIF
  - 6 6 AFB per 100 OIF
  - 7 7 AFB per 100 OIF
  - 8 8 AFB per 100 OIF
  - 9 9 AFB per 100 OIF
-