Solution to Exercise 7: Keeping track of data entry time

Key Point(s)

- The amount of time required to enter a record is critical for making a budget, and payment can be objectively made.

Task:

o *Start with the* `A_EX06 QES-REC-CHK` *files, save them as* `A_EX07 QES-REC-CHK` *and revise them accordingly. Don't just retype the above, try to consider the logic of it!*

o *Make two* `NOENTER` *fields, one that calculates the data entry time for the first entry (that will not change by revisiting the records) and another field that calculates the cumulative time resulting from one or more re-visits of the record.*

o *Enter some data to check the functionality.*

Solution

The `A_EX07.QES` file:

```
This is the questionnaire for the laboratory register


labcode        Code of the laboratory    [          ]
idcode              Unique identifier     [              ]
regexct        Exact registration date   [            ]  Set to 01/01/1800 if any  missing
regappr Approximate registration date    [            ]  Set to 01/01/1800 if year missing
regqual  Quality of registration date    [  ]
seconds  Number of seconds for record    [    ]
cumsecs  Cumulative number of seconds    [    ]


labname        Name of the laboratory    [████████████]
serno     Laboratory serial number       [    ]    Enter 9001, 9002, ... if serial number is n
regdd            Registration day        [  ]     Enter 99   if missing
regmm          Registration month        [  ]     Enter 99   if missing
regyy           Registration year        [    ]   Enter 9999 if missing
sex                Examinee's sex         [ ]
age          Examinee's age in years      [   ]   Enter 999 if missing
reason          Examination reason        [ ]
res1          Result of specimen 1        [ ]
res1sc  Result of specimen 1 scanty       [ ]
res2          Result of specimen 2        [ ]
res2sc  Result of specimen 2 scanty       [ ]
res3          Result of specimen 3        [ ]
res3sc  Result of specimen 3 scanty       [ ]
```

The `A_EX07.CHK` file (only the pertinent parts):

```
...
BEFORE FILE
  DEFINE sernoTemp _____ GLOBAL
  DEFINE regddTemp ##
  DEFINE regmmTemp ##
  DEFINE regyyTemp ####
  DEFINE StartTime ########.#####
END

BEFORE RECORD
  StartTime=NOW
END

AFTER RECORD
  IF idcode=. THEN
    HELP "You cannot save a record without an identifier\n  Please enter all
required information" TYPE=WARNING
    GOTO labname
  ENDIF
  IF seconds=. THEN
    seconds=(NOW-StartTime)*86400
  ENDIF
  IF cumsecs=. THEN
    cumsecs=(NOW-StartTime)*86400
  ELSE
    cumsecs=cumsecs+(NOW-StartTime)*86400
  ENDIF
END
...
```

A completed record

```
This is the questionnaire for the laboratory register


labcode        Code of the laboratory    ML_J
idcode               Unique identifier    ML_J-2003-3298
regexct        Exact registration date    26/10/2003    Set to 01/01/1800 if any  missing
regappr  Approximate registration date    26/10/2003    Set to 01/01/1800 if year missing
regqual  Quality of registration date     3
seconds  Number of seconds for record     8
cumsecs  Cumulative number of seconds     25


labname        Name of the laboratory    Awuna
serno       Laboratory serial number     3298        Enter 9001, 9002, ... if serial number is n
regdd             Registration day       26          Enter 99   if missing
regmm             Registration month     10          Enter 99   if missing
regyy             Registration year      2003        Enter 9999 if missing
sex                 Examinee's sex       1
age         Examinee's age in years      35          Enter 999 if missing
reason           Examination reason      5
res1            Result of specimen 1     0
res1sc  Result of specimen 1 scanty      0
res2            Result of specimen 2     0
res2sc  Result of specimen 2 scanty      0
res3            Result of specimen 3     9
res3sc  Result of specimen 3 scanty      0
```