

#84 Searching for Records by Date

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Searching for records in a given month or week using user defined functions

Many times it is necessary to search for a group of records in either a given month or a given week. This is easy to do in the search editor using greater-than and less-than operators but it can be hard to write a generalized procedure to search for a month or week when given a specific date. Below are three functions to help you do these kinds of searches.

Syntax FirstOfMonth(*stringexpr*)

Returns a date that is the first day of the month of "vDate". "vDate" must be a date expression.

\$0:=Date(String(Month of(\$1))+"/1/"+String(Year of(\$1)))

Example:

vStart:=FirstOfMonth(!3/23/88!)

vStart would be assigned !3/1/88!

Syntax LastOfMonth(*vDate*)

Returns a date that is the last day of the month of "vDate". "vDate" must be a date expression. This procedure also works for leap years.

\$0:=Date(String(Month of(\$1)+1)+"/1/"+String(Year of(\$1)))-1

Example:

vEnd:=LastOfMonth(!3/23/88!)

vEnd would be assigned !3/31/88!



Syntax FirstOfWeek(*vDate*)

Returns a date that is the first day of the week of "vDate". "vDate" must be a date expression. *FirstOfWeek* considers Sunday to be the first day.

\$0:=\$1-**Day number**(\$1)+1

Example:

vFirst:=*FirstOfWeek*(!3/23/88!)

vFirst would be assigned !3/20/88! which is Sunday for the week of !3/23/88!

The importance of these functions can be seen in the following searches.

` This search finds all records in the current month.

vStart:=*FirstOfMonth*(**Current date**)

vEnd:=*LastOfMonth*(**Current date**)

SEARCH BY INDEX([Filename]Fieldname±vStart;vEnd)

` This search finds all records in the current week.

vFirst:=*FirstOfWeek*(**Current date**)

vLast:=vFirst+6

SEARCH BY INDEX([Filename]Fieldname±vFirst;vLast)

