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# DATEADD FUNCTIONS AND VARIABLES INCLUDED BELOW
# Provided By: Brant Puttkammer of United Educators Credit Union
# =====
# END OF MONTH
# SET THE TIME VARIABLE TO THE TIME RIGHT NOW
set time [timestamp]
# *****

# GET THE CURRENT DAY, MONTH AND YEAR BY THEMSELVES
# %d DAY OF MONTH AS (01-31)
set CurrentDay [timestamp -format "%d" -seconds $time]

# %m MONTH AS (01-12)
set CurrentMonth [timestamp -format "%m" -seconds $time]

# %b MONTH AS ABBREVIATED MONTH NAME (Jan-Dec)
set CurrentMonthName [timestamp -format "%b" -seconds $time]

# change month to all uppercase
set CurrentMonthName [string toupper $CurrentMonthName]

# %B MONTH AS FULL MONTH NAME (January-December)
set CurrentMonthFullName [timestamp -format "%B" -seconds $time]
# change month to all uppercase
set CurrentMonthFullName [string toupper $CurrentMonthFullName]

# %Y YEAR AS FOUR DIGIT YEAR (2008)
set CurrentYear [timestamp -format "%Y" -seconds $time]
set CurrentYear2Digit [string range $CurrentYear 2 3]
set NextYear [expr ($CurrentYear + 1)]
set NextYear2Digit [string range $NextYear 2 3]
# set CurrentFullYear [timestamp -format "%Y" -seconds $time]

# ADD LEADING 0 TO NEXT YEAR IF LESS THAN 10
# if {$NextYear < 10} {set NextYear "0$NextYear"}
# if {$CurrentFullYear < 4000} {set NextFullYear "30$NextYear"}
# if {$CurrentFullYear < 3000} {set NextFullYear "20$NextYear"}

# ADD ONE TO THE CURRENT MONTH TO GET NEXT MONTH MODULO 12 SO IN
DECEMBER 13 BECOMES 1
set NextMonth [expr ($CurrentMonth + 1)%12]
set NextMonth2Out [expr ($CurrentMonth + 2)%12]

# IN CASE NEXT MONTH IS DECEMBER THE ABOVE EXPRESSION WILL RETURN 0 SO
CHANGE IT TO 12
if {$NextMonth == 0} {set NextMonth 12}
if {$NextMonth2Out == 0} {set NextMonth2Out 12}

# CREATE THE FIRST DAY OF THE NEXT MONTH, IF NOW IS DECEMBER WE DON'T
NEED TO CHANGE YEAR BECAUSE
# EVERY YEAR HAS 31 DAYS IN DECEMBER SO THE RIGHT DAY OF THE MONTH
WILL STILL BE CREATED
if {$NextMonth == 1} {set FirstDayNextMonth "$NextMonth/1/$NextYear"}
if {$NextMonth != 1} {set FirstDayNextMonth "$NextMonth/1/$CurrentYear"}
if {$NextMonth2Out == 1} {set FirstDayNextMonth2Out
"$NextMonth2Out/1/$NextYear"}
if {$NextMonth2Out == 2} {set FirstDayNextMonth2Out
"$NextMonth2Out/1/$NextYear"}
if {$NextMonth2Out != 2} {set FirstDayNextMonth2Out
"$NextMonth2Out/1/$CurrentYear"}

# USE TCL COMMAND CLOCK SCAN TO GET THE INTEGER VALUE OF THE FIRST DAY
OF NEXT MONTH
set FirstDayNextMonthInt [clock scan $FirstDayNextMonth]
set FirstDayNextMonthInt2Out [clock scan $FirstDayNextMonth2Out]
set NextMonthName [timestamp -format "%b" -seconds $FirstDayNextMonthInt]
set NextMonthFullName [timestamp -format "%B" -seconds $FirstDayNextMonthInt]

# CREATE VARIABLES FOR NEXT MONTH END DATE
set NextMonthName [timestamp -format "%b" -seconds $FirstDayNextMonthInt]
set NextMonthName [string toupper $NextMonthName]
set NextMonthYear [timestamp -format "%Y" -seconds $FirstDayNextMonthInt]
set NextMonthYearMod [expr $NextMonthYear%4]
if {$NextMonth == 1 || $NextMonth == 3 || $NextMonth == 5 ||
$NextMonth == 7 || $NextMonth == 8 || $NextMonth == 10 || $NextMonth
== 12} {set NextMonthEndDay "31"} elseif {$NextMonth == 4 ||
$NextMonth == 6 || $NextMonth == 9 || $NextMonth == 11} {set
NextMonthEndDay "30"} elseif {$NextMonth == 2 && $NextMonthYearMod ==
0} {set NextMonthEndDay "29"} else {set NextMonthEndDay "28"}

# SET THE LAST DAY OF CURRENT MONTH BY SUBTRACTING ONE DAY FROM THE
FIRST DAY OF NEXT MONTH
set LastDayOfMonthInt [expr $FirstDayNextMonthInt-86400]

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set LastDayOfMonthInt2Out [expr $FirstDayNextMonthInt2Out-86400]

# NOW FORMAT THE LAST DAY OF CURRENT MONTH INTO MM/DD/YY
set LastDayOfMonth "[timestamp -format "%m/%d/%y" -se conds $LastDayOfMonthInt]"
set LastDayOfMonth2Out "[timestamp -format "%m/%d/%y" -seconds $LastDayOfMonthInt2Out]"
# =====

# FIRST OF MONTH
# NOW MERGE THE MONTH AND YEAR WITH A 1 FOR THE FIRST DAY
set FirstOfMonth "$CurrentMonth/1/$CurrentYear"

# REMOVING LEADING ZERO'S FROM MONTH
set Month [string trimleft $CurrentMonth "0"]
# =====

# PREVIOUS DAY
# SET THE PREVIOUS DAY BY SUBTRACTING 86400 SECONDS = 1 DAY
set PreviousDay [expr $time-86400]

# NOW FORMAT INTO MM/DD/YY
set PreviousDay [timestamp -format "%m/%d/%y" -seconds $PreviousDay]
# =====
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