```
*---A SUBTOTAL and GRAND TOTAL macro for a database table (SEE the
    file SAMPLE1.WK*).
*---Use the /Range Name Label Right {End} {Down} <ENTER> to define the
    range names in this column (starts with the \Z macro name)
*---Sort the database with respect to the items column to subtotal
*---There should be at least two empty rows above the database to
    accommodate for the criterion area.
*---Place the cell pointer at the upper left cell of the database
*---Hold the <ALT> key and press <Z> to activate the macro
\Z              {BREAKON}
SUBTOTL3        {let rel164,@INFO("release")}~{recalc loop3164}{recalc again164}
!               {PANELOFF}/DQRQ{ESC}{PANELON}Highlight the table to sub-total (i
!               {WINDOWSOFF}/RNCTable to total?~~/RNDTable to total?~/RNC{PANELC
!               {WINDOWSON}Point where to put the output table and press [RETURN
!               {WINDOWSOFF}{PANELOFF}/RNCoutputa164~~/RNDoutputa164~/RNCoutputa
!               /C.{END}{RIGHT}~outputa164~{GOTO}outputa164~~/C.{END}{RIGHT}~{UP
!
crit164         /DQC.{END}{RIGHT}{DOWN}~Q{down}/rnccriterion164~~/rndcriterion16
!
subtot3164      {WINDOWSON}{PANELON}Point to the ITEMS column and press [RETURN]
!               {get key1164}{ESC 6}{if key1164="{ESC}"}{branch end164}
!               {if key1164<>"~"}{key1164}{branch subtot3164}
!               {WINDOWSOFF}{PANELOFF}{let offset1164,@cellpointer("col")-@cell(
!
subtot1164      {LET total164,0}~{goto}Table to total?~~{RIGHT 0}{down}
again164        {let here1164,@cellpointer("coord")}{WINDOWSOFF}{PANELOFF}{recal
again1164       /c~criterion164~{LET item164,CRITERION164}~{IF offset1164>0}{got
subtot2164      {WINDOWSON}{PANELON}Point to the amount column and press [RETURN
!               {get key1164}{ESC 6}{if key1164="{ESC}"}{branch end164}
!               {if key1164<>"~"}{key1164}{branch subtot2164}
!               {WINDOWSON}{PANELON}{WINDOWSOFF}{PANELOFF}{let offset2164,@cellp
!
queri164        /DQF~EQ{GOTO}outputa164~{RIGHT 4}{END}{DOWN}{DOWN 2}
!               @SUM({UP 2}.{END}{UP}{DOWN})~
!               {let total164,total164+@cellpointer("contents")}~{recalc movea16
movea164        {LEFT 4}
!               Subtotal of {item164} =~
!               {branch loop1164}
!
loop1164        {goto}{here1164}~
loop2164        {down}{recalc loopa164}{recalc loopb164}
!               {if @cellpointer("contents")<>item164#and#@cellpointer("type")<>
loopa164        {if @cellpointer("type")="b"}{goto}criterion164~/re.{up}{end}{ri
!               {branch loop2164}
!
loop3164        {let here1164,@cellpointer("coord")}~
loopb164        /c~criterion164~{LET item164,CRITERION164}~{IF offset1164>0}{got
!               {goto}outputa164~/c.{end}{right}~{end}{down}{down 4}~{end}{down}
!               /rndoutputa164~/rncoutputa164~~/dqo{bs}.{end}{right}~q{branch qu
!
key1164         ~
!
here1164        $C:$C$14
!
```

```
offset1164                      0
offset2164                      4
end164          /rndTable to total?~
!
item164         222
!
total164                    87600
!
rel164          1.00.00
!
loc164          coord
```

```
.ncluding fields) and press [RETURN]{GET key1164}{ESC 6}{paneloff}{WINDOWSOFF}
)N}{WINDOWSON}Table to total?~{key1164}{?}~{WINDOWSOFF}{PANELOFF}/DQITable to
I] {get key1164}{ESC 6}{key1164}{?}~
ı164~~{GOTO}Table to total?~~
› 2}~/DQO.{END}{RIGHT}~Q{UP 2}{branch crit164}

;4~/rnccriterion164~~{PANELON}{WINDOWSON}{GOTO}Table to total?~~{branch subtot

  or press [ESC] to quit


:"col",Table to total?)}~{recalc subtot1164}{RECALC AGAIN1164}{branch subtot11


.c again1164}
:o}criterion164~/ccriterion164~{right 0}~/recriterion164~{goto}{here1164}~
I] or press [ESC] to quit


›ointer("col")-@cell("col",Table to total?)}~{recalc queri164}{branch queri164


;4}




·"b"}{RECALC LOOP3164}{branch loop3164}
.ght}~/rndcriterion164~{goto}outputa164~/rndoutputa164~{end}{down}{down 4}GRAN


:o}criterion164~/ccriterion164~{right 0}~/recriterion164~{goto}{here1164}~
 {down 4}
ıeri164}
```

total?~Q{PANELON}

:3164}

.64}

1}

ND TOTAL = ~{RIGHT 4}+TOTAL164~/RV~~{branch end164}