```
*---A SUBTOTAL and GRAND TOTAL macro for a database table (SEE the
   SAMPLE1.WK1 file) Use the SUBTOTL3.WK3 macro in RELEASE 3
*---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}
SUBTOTAL            {PANELOFF}/DQRQ{esc}{PANELON}Highlight the tabl
!                   {WINDOWSOFF}/RNCTable to total?~~/RNDTable to tot
!                   {WINDOWSON}Point where to put the output table and pr
!                   {WINDOWSOFF}{PANELOFF}/RNCoutputa164~~/RND
!                   /C.{END}{RIGHT}~outputa164~{GOTO}outputa164~/C.
!
crit164             /DQC.{END}{RIGHT}{DOWN}~Q{down}/rnccriterion16
!
subtot3164          {WINDOWSON}{PANELON}Point to the ITEMS column
!                   {get key1164}{esc 6}{if key1164="{ESC}"}{branch end16
!                   {if key1164<>"~"}{key1164}{branch subtot3164}
!                   {WINDOWSOFF}{PANELOFF}{let offset1164,@cellpoin
!
subtot1164          {LET total164,0}~{goto}Table to total?~{RIGHT 0}{down}
again164            {let here1164,@cellpointer("address")}{WINDOWSOFF}{
again1164           /c~criterion164~{LET item164,CRITERION164}~{IF offset1164&g
subtot2164          {WINDOWSON}{PANELON}Point to the amount column
!                   {get key1164}{esc 6}{if key1164="{ESC}"}{branch end16
!                   {if key1164<>"~"}{key1164}{branch subtot2164}
!                   {WINDOWSOFF}{PANELOFF}{let offset2164,@cellpoin
!
queri164            /DQF~EQ{GOTO}outputa164~{RIGHT 2}{END}{DOWN}{DOWN 2
!                   @SUM({UP 2}.{END}{UP}{DOWN})~
!                   {let total164,total164+@cellpointer("contents")}~{recalc m
movea164            {LEFT 2}
!                   Subtotal of {item164} =~
!                   {branch loop1164}
!
loop1164            {goto}{here1164}~
loop2164            {down}{recalc loopa164}{recalc loopb164}
```

```
!               {if @cellpointer("contents")<>item164#and#@cellpointer("
loopa164        {if @cellpointer(&quot;type&quot;)=&quot;b&quot;}{goto}criterion1
!               {branch loop2164}
!
loop3164        {let here1164,@cellpointer("address")}~
loopb164        /c~criterion164~{LET item164,CRITERION164}~{IF offset1164&g
!               {goto}outputa164~/c.{end}{right}~{end}{down}{down 4}
!               /rndoutputa164~/rncoutputa164~~/dqo{bs}.{end}{right}~q
!
key1164         ~
!
here1164        $A$12
!
offset1164                          0
offset2164                          2
end164          /rndTable to total?~
!
item164
!
total164
```

e to sub-total (including fields) and press <RETURN>{GET key1164}{ESC 6}{paneloff}{W
al?~/RNC{PANELON}{WINDOWSON}Table to total?~{key1164}{?}~{WINDOWSOFF}
ess [RETURN] {get key1164}{esc 6}{key1164}{?}~
outputa164~/RNCoutputa164~~{GOTO}Table to total?~
{END}{RIGHT}~{UP 2}~/DQO.{END}{RIGHT}~Q{UP 2}{branch crit164}

4~~/rndcriterion164~/rnccriterion164~~{PANELON}{WINDOWSON}{GOTO}Table to to

and press [RETURN] or press [ESC] to quit
4}

ter("col")-@cell("col",Table to total?)}~{recalc subtot1164}{branch subtot1164}

PANELOFF}{recalc again1164}
t;0}{goto}criterion164~/ccriterion164~{right 0}~/recriterion164~{goto}{here1164}~
and press [RETURN] or press [ESC] to quit
4}

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

2}

ovea164}

type")<>"b"}{branch loop3164}
L64~/re.{up}{end}{right}~/rndcriterion164~{goto}outputa164~/rndoutputa164~{end}{down}{down 4}GR/

ıt;0}{goto}criterion164~/ccriterion164~{right 0}~/recriterion164~{goto}{here1164}~
~{end}{down}{down 4}
{branch queri164}

/INDOWSOFF}
{PANELOFF}/DQITable to total?~Q{PANELON}

tal?~{branch subtot3164}

AND TOTAL = ~{RIGHT 2}+TOTAL164~{branch end164}