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*P3orphan - to locate PDM orphaned activity logic
*prior to running - export activities to actlist.dbf, relationships to pslist.dbf
*file pslist0 is modified with fields atitle and stitle, maybe more
*file actlist0 is extended format "ACT2, pcount..., scount..."
use pslist
copy to temp1
use pslist0
copy stru to pslist
use pslist
appe from temp1
repl all act2 with act
index to pslist on act2
sele 2
use actlist
copy to temp2
copy to temp1 structure extended
use temp1
appe from actlist0
* goto 1
* n=field_type
* m=field_len
* loca for field_name='ACT2'
* repl field_type with n
* repl field_len with m
use
create actlist from temp1
appe from temp2
repl all act2 with act
index to actlist on act2
sele 1
set rela to act into b
repl all atitle with b->title, aod with b->od && more
set rela to
set index to
repl all act2 with suc
index to pslist on act2
*sele 2
* actlist already indexed on act2
*sele 1
set rela to act2 into b
repl all stitle with b->title, sod with b->od && more
close all
*file pslist is now has all activity data added
*
*
set talk off
*count number of succs for each activity
clear all
use actlist
sele 2
use pslist
sele 1
r1=1
do while .not. eof()
  r1=recno()
  nact=act2
  sele 2
  count to ncountSS for act=nact .and. rel='SS'
  count to ncountFS for act=nact .and. rel='FS'
  count to ncountFF for act=nact .and. rel='FF'
  count to ncountSF for act=nact .and. rel='SF'
  count to ncount  for act=nact
  sele 1
  goto r1
  repl scountss with ncountss,scountfs with ncountfs,;
  scountff with ncountff,scountsf with ncountsf,scount with ncount
  skip
  if substr(str(recno()),5,1)='0'
    disp recno()
  endif
enddo
*
*count number of preds for each activity
1
r1=1
do while .not. eof()

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r1=recno()
nact=act2
sele 2
count to ncountSS for suc=nact .and. rel='SS'
count to ncountFS for suc=nact .and. rel='FS'
count to ncountFF for suc=nact .and. rel='FF'
count to ncountSF for suc=nact .and. rel='SF'
count to ncount  for suc=nact
sele 1
goto r1
repl pcountss with ncountss,pcountfs with ncountfs,;
pcountff with ncountff,pcountsf with ncountsf,pcount with ncount
skip
if substr(str(recno()),5,5,1)=0'
disp recno()
endif
enddo
*
set talk on
return

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*diaglist.prg
*program to list all orphaned activities and other suspect activities and relationships
set alte to diaglist
set alte on
use actlist
list off act,title,od,cal,'has no predecessor'          for pcount=0
count for pcount=0
list off act,title,od,cal,'has no START predecessor' for pcountss+pcountfs=0 .and. pcount#0
count for pcountss+pcountfs=0 .and. pcount#0
list off act,title,od,cal,'has no successor'          for scount=0
count for scount=0
list off act,title,od,cal,'has no FINISH successor' for scountff+scountfs=0 .and. scount#0
count for scountff+scountfs=0 .and. scount#0
list off act,title,od,cal,'has duration > 22 days'    for OD>22
count for OD>22
list off act,title,od,cal,'has duration = 0 days'     for OD=0
count for OD=0
list off act,title,od,cal,'has RD > OD'                for RD>OD
count for RD>OD
list off act,title,od,cal,'has RD=0 but no AF' for OD#0 .and. RD=0 .and. EFA=' '
count for OD#0 .and. RD=0 .and. EFA=' '
use pslist
list off act,atitle,aod,suc,stitle,sod,rel,lag,'uses SF relationship' for rel='SF'
count for rel='SF'
list off act,atitle,aod,suc,stitle,sod,rel,lag,'LAG > activity duration' for lag>aod
count for lag>aod
list off act,atitle,aod,suc,stitle,sod,rel,lag,'LAG > successor duration' for lag>sod
count for lag>sod
set alte to
return

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