

UNIVERSIDAD NACIONAL DE INGENIERIA

FACULTAD DE INGENIERIA GEOLOGICA

MINERA Y METALURGICA



"Sistema de Información para
una Unidad de Producción
Minera"

TESIS

Para Optar el Título Profesional de:

INGENIERO DE MINAS

Carlos José Manchego Moquillaza

Promoción 89-1

Lima - Perú
1991

* MENU PRINCIPAL DE MODULO DE MINAS - SIMI000.prg

* cjm

set fixe on
set safe off
set talk off
set dele on
set messa to 23
set color on
do while .t.

CLEAR

SET COLOR TO W+/GR

@ 1 " 0 S A Y

@ 2,0 SAY '||'

@ 3 " 0 S A Y

SET COLOR TO GR+/GR

@ 2,1 SAY 'SIMI

* SISTEMA DE INFORMACION PARA

MINA *

SIMI'

set color to w

@ 8,28 to 21,79 clear

close proce

SET COLOR TO W+/BG

@ 5,30 TO 7,49 DOUBLE

@ 6,31 SAY 'MINAS

set color to w

set color to w+/bg+

@ 9,0 prom '1-Actualizar Tablas 'mess '

Actualiza Factor de Tonelaje por Carro

@ 10,0 prom '2-Estimado de Produccion 'mess '

Registro Mensual de Estimados de recursos por labor

@ 11,0 prom '3-Controlar Perforacion 'mess '

Registra Taladros Perforados y Reporte Mensual

@ 12,0 prom '4-Controlar Extraccion 'mess '

Registro Diario de Carros Jalados y Reporte Mensual

@ 13,0 prom '5-Controlar Relleno Hidraul. 'mess '

Registro de Labores Rellenadas y Reportes

@ 14,0 prom '6-Controlar Consumo Mater. 'mess '

Registro deCodigo - Consumo de Materiales por Labor y Cuentas y Reportes

@ 15,0 prom '7-Controlar Equipo Mina 'mess '

Registra Hrs de Parada y Calcula Disponibilidad de Equipo

@ 16,0 prom '8-Reportar Indices Tecnicos 'mess '

Reporte de Indices Tecnicos

@ 17,0 prom '9-Controlar Personal Mina 'mess '

Registra personal de Mina y Tareas Normales y Sobretiempos

@ 20,0 say space(26)

```

@ 21,0 say ' ESC ----- Para salir ----- '
menu to wopcion1
save scree to wscreen
do case
  case wopcion1=0
    retur
  case wopcion1=1
    do while .t.
      set color to w+/bg+
      @ 9,30 say space(34)
      @ 10,30 say ' * ACTUALIZAR TABLAS * '
      @ 11,30 say space(34)
      @ 12,30 prom '1-Registro de Factor por Carro ' mess '
      Registro del tonelaje que jala cada carro segun su tipo

      @ 13,30 say space(34)
      @ 14,30 prom '2-Consulta al Maestro de Labor ' mess '
      Se presenta un listado de todas las Labores autorizadas po
      Ingenieria
      @ 15,30 say space(34)
      @ 16,30 prom '3-Consulta al Maestro de Cuentas ' mess '
      Se presenta un listado de todas las Cuentas autorizadas para
      Minas
      @ 17,30 say space(34)
      @ 18,30 say ' ESC ----- Para salir ----- '
      menu to wopcion2
      if wopcion2=0
        @ 9,30 clear
        exit
      endi
      wprog='SIMI01'+str(wopcion2,1)
      set proce to &wprog
      do &wprog
      resto scree from wscreen
    enddo
  case wopcion1=2
    do while .t.
      set color to g+/bg+
      @ 9,30 say space(34)
      @ 10,30 say ' * ESTIMADOS DE PRODUCCION * '
      @ 11,30 say space(34)
      @ 12,30 prom '1-Estimado Mensual de Produccion '
      @ 13,30 prom '2-Estimado Diario de Produccion '
      @ 14,30 prom '3-Estimado Mensual de Equipo '
      @ 15,30 prom '6-Reporte Mensual Est-Produccion '
      @ 16,30 prom '7-Reporte Mensual Est-Produc-Mina '
      @ 19,30 say space(34)
      @ 20,30 say ' ESC ----- Para salir ----- '
      @ 21,30 say space(34)
      menu to wopcion2
      if wopcion2=0
        @ 9,30 clear
        exit
      endi

```

```

set color to q+
wprog='SIMI02'+str(wopcion2,1)
set proce to &wprog
do &wprog
  resto scree from wscreen
enddo
case wopcion1=3
do while .t.
  set color to w+/bg+
  @ 9,30 say      * CONTROLAR PERFORACION *
  @ 10,30 say space(34)
  @ 11,30 prom '1-Reg.Diario Taladros Perforados      mess
  Registra Taladros Perforados y Reporte Diario

  @ 12,30 say space(34)
  @ 13,30 prom '2-Reporte Mensual Mts. Perforados ' mess '
Calculo y Reporte Mensual de Metros Perforados por Labor

  @ 14,30 say space(34)
  @ 15,30 prom '3-Reporte Anual Mts. Perforados      ' mess '
Calculo y Reporte Anual de Metros Perforados por Labor

  @ 16,30 say space(34)
  @ 17,30 say      ESC ---- Para salir ----
  @ 18,30 say space(34)
  menu to wopcion2
  if wopcion2=0
    set color to w,,
    @ 9,30 clear
    exit
  endi
wprog='SIMI03'+str(wopcion2,1)
set proce to &wprog
do &wprog
  resto scree from wscreen
enddo
case wopcion1=4
do while .t.
  set color to w+/bg+
  @ 9,30 say space(34)
  @ 10,30 say      * CONTROLAR EXTRACCION *
  @ 11,30 say space(34)
  @ 12,30 prom '1-Reg.Diario Carros Jalados      mess
Registro Diario de Carros Jalados y Reporte Diario

  @ 13,30 say space(34)
  @ 14,30 prom '2-Reporte Mensual Tonelaje Jalado ' mess
Calculo y Reporte Mensual de Ton.Jalados por labor

  @ 15,30 say space(34)
  @ 16,30 prom '3-Reporte Anual de Tonelaje Jalado' mess
Calculo y Reporte Anual de Ton.Jalados por labor

  @ 17,30 say space(34)

```

```

@ 18,30 say      ESC ---- Para salir ----
menu to wopcion2
if wopcion2=0
  @ 9,30 clear
  exit
endi
wprog='SIMI04'+str(wopcion2,1)
set proce to &wprog
do &wprog
resto scree from wscreen
enddo
case wopcion1=5
do while .t.
  set color to g+/bg+
  @ 9,30 say space(34)
  @ 10,30 say ' * CONTROLAR RELLENO HIDRAULICO * '
  @ 11,30 say space(34)
  @ 12,30 prom '1-Programa Labores por Bomba '
  @ 13,30 prom '2-Registro Labores en Relleno '
  @ 14,30 prom '3-Registro Horas Parada de Bomba '
  @ 15,30 prom '4-Reporte Mensual de Relleno '
  @ 16,30 prom '5-Reporte Mensual de Disp. Bomba '
  @ 17,30 say space(34)
  @ 18,30 say      ESC ---- Para salir ----
  @ 19,30 say space(34)
  menu to wopcion2
  if wopcion2=0
    @ 9,30 clear
    exit
  endi
  set color to g+
  wprog='SIMI05'+str(wopcion2,1)
  set proce to &wprog
  do &wprog
  resto scree from wscreen
enddo
case wopcion1=6
do while .t.
  set color to g+/bg+
  @ 9,30 say space(34)
  @ 10,30 say ' * CONTROLAR CONSUMO MATERIALES * '
  @ 11,30 say space(34)
  @ 12,30 prom '1-RegistroCodigo Materiales ' mess '
  RegistraCodigo de Materiales a controlar
  @ 13,30 prom '2-Registro Diario Consumo/ Labor ' mess '
  Registro Diario y Reporte de Consumo por labor
  @ 14,30 prom '3-Registro Diario Consumo/ Cuenta ' mess '
  Registro Diario y Reporte de Consumo por cuenta
  @ 15,30 prom '4-Reporte Mensual por Labor ' mess '
  Reporte Mensual de Consumo por Labor

```

```

@ 16,30 prom '5-Reporte Mensual por Cuenta      ' mess '
  Reporte Mensual de Consumo por cuenta

@ 17,30 prom '6-Reporte Mensual Costo Mat.Cons.' mess '
  Reporte Mensual del Costo por Material consumido

@ 18,30 prom '7-Reporte Mensual Consumo Explos.' mess '
  Reporte Mensual del Consumo de Explosivos por Etapas

@ 19,30 prom '8-Reporte Mensual Consumo Barrenos' mess '
  Reporte Mensual del Consumo de Barrenos por Etapas

@ 20,30 say space(34)
@ 21,30 say      ESC ---- Para salir ----
menu to wopcion2
if wopcion2=0
  @ 9,30 clear
  exit
endi
set color to g+
wprog='SIMI06'+str(wopcion2,1)
set proce to &wprog
do &wprog
  resto scree from wscreen
enddo
case wopcion1=7
do while .t.
  set color to g+/bg+
  @ 9,30 say space(34)
  @ 10,30 say      *      CONTROLAR EQUIPO MINA      *
  @ 11,30 say space(34)
  @ 12,30 prom '1-Registro Equipo de Mina
  @ 13,30 prom '2-Registro Horas de Parada
  @ 14,30 prom '3-Reporte Mensual Disponib. Equipo'
  @ 15,30 say space(34)
  @ 16,30 say      ESC ---- Para salir ----
  @ 17,30 say space(34)
  menu to wopcion2
  if wopcion2=0
    @ 9,30 clear
    exit
  endi
  set color to g+
  wprog='SIMI07'+str(wopcion2,1)
  set proce to &wprog
  do &wprog
    resto scree from wscreen
  enddo
case wopcion1=8
do while .t.
  set color to g+/bg+
  @ 9,30 say space(34)
  @ 10,30 say      *      REPORTAR INDICES TECNICOS      *
  @ 11,30 say space(34)

```

```

@ 12,30 prom '1-Reporte por Etapas
@ 13,30 prom '2-Reporte por Cuentas
@ 14,30 prom '3-Reporte Anualizado
@ 15,30 say space(34)
@ 16,30 say ' ESC ---- Para salir ----
@ 17,30 say space(34)
menu to wopcion2
if wopcion2=0
  @ 9,30 clear
  exit
endi
set color to g+
wprog='SIMI08'+str(wopcion2,1)
set proce to &wprog
do &wprog
  resto scree from wscreen
enddo
case wopcion1=9
do while .t.
  set color to g+/bg+
  @ 9,30 say space(34)
  @ 10,30 say ' * CONTROLAR PERSONAL MINA *
  @ 11,30 say space(34)
  @ 12,30 prom '1-Registro Personal Mina
  @ 13,30 prom '2-Registro de Horas Trabajadas
  @ 14,30 prom '3-Reporte Tareas por seccion
  @ 15,30 prom '4-Reporte Mensual Tareas/Seccion
  @ 16,30 prom '5-Reporte Mensual Tareas/Colectivo
  @ 17,30 say space(34)
  @ 18,30 say ' ESC ---- Para salir ----
  @ 19,30 say space(34)
  menu to wopcion2
  if wopcion2=0
    @ 9,30 clear
    exit
  endi
  set color to g+
  wprog='SIMI09'+str(wopcion2,1)
  set proce to &wprog
  do &wprog
    resto scree from wscreen
  enddo
endc
enddo
set color to
close proc
return

```

```
* CONSULTAR A LA MAESTRA DE LABORES SIMI012.prg
```

```
* cimm
```

```
proce simi012
```

```
do while .t.
```

```
CLEAR
```

```
text
```

```
=====
SIMI          * SISTEMA DE INFORMACION PARA MINA *
SIMI012
=====
```

```
endt
```

```
set color to wt/n
```

```
@ 2 2 " 0 0 s a y
```

```
@ 23,00 say [F5] Consulta [F6] Reporte [F10]
```

```
say
```

```
@ 24,00 say Presione una de las Teclas para realizar su opcion
```

```
wkey=0
```

```
do WHILE wkey=0
```

```
wkey=inkey()
```

```
enddo
```

```
do case
```

```
case wkey=-9
```

```
clear
```

```
exit
```

```
case wkey=-4
```

```
do siin124
```

```
case wkey=-5
```

```
do siin125
```

```
endcase
```

```
enddo
```

```
return
```

```
* Consulta de Labores
```

```
Proce simi121
```

```
DO WHILE .t.
```

```
WSECCION=#
```

```
@ 4,0 CLEAR
```

```
@ 4,20 SAY '* CONSULTA POR SECCIONES *'
```

```
@ 6,25 SAY ' SECCION # ' GET WSECCION
```

```
READ
```

```
IF WSECCION=#
```

```
RETURN
```

```
ENDIF
```

```
use silabo index silaboX2,silaboX1
```

```
SEEK WSECCION
```

```
IF .NOT. FOUND()
```

```
@ 23,0
```

```
WAIT 'NO EXISTE LABORES EN ESTA SECCION .....PRESIONE UNA TECLA'
```

```
@ 24,0
```



```

loop
ENDIF
@ 5          #          1  s          a          y
'=====
'=====
@ 6,1 say '          METO  P.E.  P.E.
FECHA          A '
@ 7,1 say 'SECC NIV  NOMBRE LABOR  DO  VETA  ROCA  ETAPA
INICIO  NRO.CTA  CARGO'
@ 8          #          1  s          a          y
'=====
'=====
wsec='y'
wlin=9
do while .not.eof().and.seccion=wseccion
if wsec='y'
@ wlin,2 say seccion
wsec='n'
endif
@ wlin,7 say nivel
@ wlin,12 say nomlabor
@ wlin,28 say metodo
@ wlin,33 say peveta pict '999.99'
@ wlin,41 say peroca pict '999.99'
@ wlin,50 say etapa
@ wlin,55 say fecinic
@ wlin,77 say cargo
wlin=wlin+1
if wlin>22
@ 23,0
wait 'CONSULTA OK .....'
@ 9,0 CLEAR
wlin=9
endif
skip
enddo
@ 23,0
wait 'CONSULTA OK .....DAR ENTER'
@ 24,0
enddo
close data
return

```

* REPORTE DE LABORES

proce simi122

CLEAR

store ' / / ' to wdate

wseccion=' '

wresp='S'

text

SIMI * SISTEMA DE INFORMACION PARA MINA *

SIMI012

```

endf
@ 4,25 say 'Reporte de labores'
@ 18,2 say 'Asegurese de que la impresora este prendida y el
papel colocado'
@ 20,2 say 'Ingrese la fecha del reporte = ' get wdate pict
'99/99/99'
@ 22,2 say 'Desea el listado de labores ? = ' get wresp pict '!'
@ 24,2 say 'Ingrese seccion a listar ' get wseccion
read
if wresp='S'
set devi to print
set print on
else
return
endif
wnomlabor=' '
wlin=60
wpagina=1
use silabo index silaboX2,silaboX1
SEEK WSECCION
do while .not.eof()
wseccion=seccion
wsec='y'
do while .not.eof().and.seccion=wseccion
if wlin>55
@ 1,42 say 'R E P O R T E D E L A B O R E S'
@ 2,54 say wdate
@ 2,76 say wpagina pict '999'
@ 3 , 1 s a y
' =====
'
@ 4,1 say ' METO P.E.
P.E. FECHA A
@ 5,1 say 'SECCION NIVEL NOMBRE LABOR DO VETA
ROCA ETAPA INICIO NRO.CTA CARGO
@ 6 , 1 s a y
' =====
'
wlin=7
wpagina=wpagina+1
endif
if wsec='y'
@ wlin,3 say seccion
wsec='n'
endif
if nmlabor<>wnomlabor
@ wlin,11 say nivel
@ wlin,20 say nomlabor
@ wlin,39 say metodo
@ wlin,44 say peveta pict '999.99'
@ wlin,52 say peroca pict '999.99'
wnomlabor=' '
endif
@ wlin,60 say etapa

```

```
@ wlin,66 say fecinic
@ wlin,76 say nrocta
@ wlin,88 say cargo
wnomlabor=nomlabor
wlin=wlin+1
if wlin>55
  eject
  set prin off
  set devi to scre
  @ 22,0
  wait ' Coloque otro papel y presione ENTER .....
```

* Estimado Mensual de Produccion y/o Labor - SIMI021.prg

* cimm

proc simi021

close database

do while .t.

clear

text

SIMI * SISTEMA DE INFORMACION PARA MINA *

SIMI021

* - Estimado Mensual de Produccion y/o Labor - *

fecha (aamm) : aamm El estimado es de
(P)roduccion/(L)abor ==> ?

endt

wfecha=space(4)

wnewlab='P'

@ 05,17 get wfecha

@ 05,71 get wnewlab pict '!'

read

if wfecha=' ' .or. wfecha='aamm'

clear

exit

endif

wfecha = wfecha + '28'

i

dto(cotod(subs(wfecha,1,2)+'/'+subs(wfecha,3,2)+'/'+subs(wfecha,5,2))) = ' . . . ' f

@ 23,0

wait ' Fecha errada.. modificar..presione ENTER'

@ 24,0

EXIT

endif

wfecha = subs(wfecha,1,4) + ' '

if .not. wnewlab \$'LP'

loop

endif

clear

text

SIMI * ESTIMADO MENSUAL DE RECURSOS POR LABOR *

SIMI021

Labor : XXXXXXXXXXXXXXXX

Seccion : xx

Etapa : xx

Nivel : xxxx

Metodo : xx

ESTIMADO DE PRODUCCION

Mineral Roto : 99999

Desmonte Roto

: 99999

Jalado : 99999

Jalado : 99999

Avance (Pts)

: 9999

Relleno (m3)

9999

No. Colectivo

9999

Ancho de Labor : 99.99

Veta : 99.99

%-Dilucion :

99.99

ESTIMADO DE RECURSOS

No. Tareas : 9999

No. Hombres G.A

999

G.B

999

G.C

999

```
end t
@ 22,0 say repli('=' ,79)
@ 23,0 say '          [F2] Ingreso [F3] Modifica [F4] Elimina [F5]
Consulta [F10] Sale'
@ 24,25 say 'Presione opcion requerida'
wkey=0
do while wkey=0
  wkey=inkey()
enddo
if wkey=-9
  exit
endif
if wkey<=-1 .and. wkey>=-4
  wkey1 = wkey * -1
  wprog='simi21'+str(wkey1,1)
  do &wprog
endif
enddo
clear
close data
retu
```

```
* Ingreso de Estimado por Labor
proce simi211
@ 22,0 clear
sele 1
use silabo inde silabox1
sele 3
use siestm inde siestmx1,siestmx2
DO WHILE .t.
  wlabor = space(15)
  wtpoeta = space(2)
  @ 3,8 get wlabor pict '@!'
  @ 3,59 get wtpoeta pict '!!'
  read
  if wlabor = space(15)
    close data
    exit
```

```

endif
seek wfecha+wlabor+wtpoeta
if .not. eof()
  @ 23,0
  wait ' Labor ya Estimada, presione ... ENTER
  @ 24,0
  loop
endif
sele 1
if wnewlab = 'P'
  seek wlabor+wtpoeta
  if eof()
    @ 23,0
    wait ' No esta registrada esta Labor, presione.... ENTER'
    @ 24,0
    loop
  else
    wseccion = seccion
    wmetodo = metodo
    wnivel = nivel
    wtpoeta = tpoeta
    wetapa = etapa
    wnrocta = nrocta
    @ 3,40 say wseccion
    @ 3,59 say wetapa
    @ 4,40 say wnivel
    @ 4,59 say wmetodo
  endif
else
  seek wlabor+wtpoeta
  if .not. eof()
    @ 23,0
    wait ' Labor existe en Maestra Labor, presione.... ENTER'
    @ 24,0
    loop
  else
    wseccion = ' '
    wmetodo = ' '
    wnivel = ' '
    wtpoeta = ' '
    wetapa = ' '
    wnrocta = ' '
    @ 3,40 get wseccion pict '!!!'
    @ 3,59 get wetapa pict '!!!'
    @ 4,40 get wnivel pict '!!!!'
    @ 4,59 get wmetodo pict '!!!'
  endif
endif
store 0 to wavance,wcolec,wrelleno,wprod_ro,wprod_ia
s t o r e 0 t o
wprod_dro,wprod_dia,wguard_A,wguard_B,wguard_C,wtareas
store 0.00 to wdiluc,wefici,wancho_L,wancho_V
wley_eq = ' '
@ 6,43 get wprod_ro pict '99999'

```

```

@ 6,70  get  wprod_dro pict '99999'
@ 7,43  get  wprod_ja pict '99999'
@ 7,70  get  wprod_dja pict '99999'
@ 8,68  get  wavance pict '99999'
@ 9,67  get  wrelleno pict '999999'
@ 10,69 get  wcolec pict '9999'
@ 11,43 say  wancho_L pict '99.99'
@ 12,43 say  wancho_V pict '99.99'
@ 14,39 get  wtareas pict '9999'
@ 14,68 get  wguard_A pict '999'
@ 15,68 get  wguard_B pict '999'
@ 16,68 get  wguard_C pict '999'
read
if  wancho_L > 0
    wdiluc = (wancho_V / wancho_L) * 100
else
    wdiluc = 0
endif
@ 12,65 say  wdiluc pict '99.99'
sele 3
append blank
*----- aqui va el RLOCK ()
    chk_rf = wfecha+wlabor
    chk_ndx = space(8)
    do CHKBLOCK with 'R',chk_rf,chk_ndx
replace tipo_est with wnewlab,seccion with wseccion,tpoeta with
wtpoeta,etapa with wetapa
replace nivel with wnivel,metodo with wmetodo,nomlabor with
wlabor,nrocta with wnrocta
replace fecha with wfecha,colec with wcolec,guard_A with
wguard_A
replace guard_B with wguard_B,guard_C with wguard_C,tareas with
wtareas
replace efici with wefici,relleno with wrelleno,avance with
wavance
replace prod_ro with wprod_ro,prod_ja with wprod_ja
replace prod_dro with wprod_dro,prod_dja with wprod_dja
replace ancho_l with wancho_l,ancho_v with wancho_v,diluc with
wdiluc
unlock
@ 23,0
wait ' Se grabo OK....., presione ... ENTER'
@ 24,0
enddo
retu

* Modificacion
proce simi212
@ 22,0 clear
sele 3
use siestm inde siestmx1
DO WHILE .t.
    wlabor = space(15)
    wtpoeta = space(2)

```

```

@ 3,8  get wlabor pict '@!'
@ 3,59 get wtpoeta pict '!!'
read
if wlabor = space(15)
    exit
endif
seek wfecha+wlabor+wtpoeta
if eof()
    @ 23,0
    wait ' Labor no Estimada, presione ... ENTER'
    @ 24,0
    loop
endif
wseccion = seccion
wmetodo  = metodo
wnivel   = nivel
wtpoeta  = tpoeta
wetapa   = etapa
wavance  = avance
wcolec   = colec
wrelleno = relleno
wprod_ro = prod_ro
wprod_ia = prod_ia
wprod_dro= prod_dro
wprod_dja= prod_dja
wguard_A = guard_A
wguard_B = guard_B
wguard_C = guard_C
wtareas  = tareas
wefici   = 0.0
wancho_L = ancho_L
wancho_V = ancho_V
if wnewlab = 'P'
    @ 3,40 say wseccion
    @ 3,59 say wetapa
    @ 4,40 say wnivel
    @ 4,59 say wmetodo
else
    @ 3,40 get wseccion pict '!!'
    @ 3,59 get wetapa pict '!!'
    @ 4,40 get wnivel pict '!!!!'
    @ 4,59 get wmetodo pict '!!'
endif
@ 6,43  get wprod_ro pict '99999'
@ 6,70  get wprod_dro pict '99999'
@ 7,43  get wprod_ia pict '99999'
@ 7,70  get wprod_dja pict '99999'
@ 8,68  get wavance pict '99999'
@ 9,67  get wrelleno pict '999999'
@ 10,69 get wcolec pict '9999'
@ 11,43 say wancho_L pict '99.99'
@ 12,43 say wancho_V pict '99.99'
@ 14,39 get wtareas pict '9999'
@ 14,68 get wguard_A pict '999'

```



```

@ 15,68 get wguard_B pict '999'
@ 16,68 get wguard_C pict '999'
read
if wancho_L > 0
    wdiluc = (wancho_V / wancho_L) * 100
else
    wdiluc = 0
endif
@ 12,65 say wdiluc pict '99.99'
sele 3
*----- aqui va el RLOCK ()
    chk_rf = wfecha+wlabor
    chk_ndx = space(8)
    do CHKBLOCK with 'R',chk_rf,chk_ndx
replace tipo_est with wnewlab,seccion with wseccion,tpoeta with
wtpoeta,etapa with wetapa
replace nivel with wnivel,metodo with wmetodo,nomlabor with
wlabor
replace fecha with wfecha,colec with wcolec,guard_A with
wguard_A
replace guard_B with wguard_B,guard_C with wguard_C,tareas with
wtareas
replace efici with wefici,relleno with wrelleno,avance with
wavance
replace prod_ro with wprod_ro,prod_ja with wprod_ja
replace prod_dro with wprod_dro,prod_dja with wprod_dja
replace ancho_l with wancho_l,ancho_v with wancho_v,diluc with
wdiluc
unlock
@ 23,0
wait ' Se grabo OK....., presione ... ENTER'
@ 24,0
enddo
retu

```

* Eliminacion

```

proce simi213
@ 22,0 clear
sele 3
use siestm inde siestmx1,siestmx2
DO WHILE .t.
    wlabor = space(15)
    wtpoeta = space(2)
@ 3,8 get wlabor pict '@!'
@ 3,59 get wtpoeta pict '!!'
    read
    if wlabor = space(15)
        exit
    endif
    seek wfecha+wlabor+wtpoeta
    if eof()
@ 23,0
        wait ' Labor no Estimada, presione ... ENTER'
@ 24,0
    endif
enddo

```

```

loop
endif
wseccion = seccion
wmetodo = metodo
wnivel = nivel
wtpoeta = tpoeta
wetapa = etapa
wavance = avance
wcolec = colec
wrelleno = relleno
wprod_ro = prod_ro
wprod_ja = prod_ja
wprod_dro = prod_dro
wprod_dja = prod_dja
wguard_A = guard_A
wguard_B = guard_B
wguard_C = guard_C
wtareas = tareas
wefici = 0.0
wancho_L = ancho_L
wancho_V = ancho_V
if wancho_L > 0
    wdiluc = (wancho_V / wancho_L) * 100
else
    wdiluc = 0
endif
@ 3,40 say wseccion
@ 3,59 say wetapa
@ 4,40 say wnivel
@ 4,59 say wmetodo
@ 6,43 say wprod_ro pict '99999'
@ 6,70 say wprod_dro pict '99999'
@ 7,43 say wprod_ja pict '99999'
@ 7,70 say wprod_dja pict '99999'
@ 8,68 say wavance pict '99999'
@ 9,67 say wrelleno pict '999999'
@ 10,69 say wcolec pict '9999'
@ 11,43 say wancho_L pict '99.99'
@ 12,43 say wancho_V pict '99.99'
@ 12,65 say wdiluc pict '99.99'
@ 14,39 say wtareas pict '9999'
@ 14,68 say wguard_A pict '999'
@ 15,68 say wguard_B pict '999'
@ 16,68 say wguard_C pict '999'
wrep = 'N'
@ 20,2 say 'Desea eliminarlo (S/N) ==> ' get wrep pict '!'
read
if wrep = 'S'
    sele 3
*----- aqui va el RLOCK ()
    chk_rf = wfecha+wlabor
    chk_ndx = space(8)
    do CHKBLOCK with 'R',chk_rf,chk_ndx
delete

```

```

unlock
@ 23,0
wait ' Se elimio OK....., presione ... ENTER'
@ 24,0
endif
enddo
retu

* Consulta de Labores Estimadas
proce simi214
set color to w+/bg+
DIMENSION wsel(15,4),WLAB (15,4),wtpe (15,4)
wopcion=' '
sele 3
use siestm inde siestmx1
set filter to fecha = wfecha .and. tipo_est = wnewlab
go top
wfinlab = space(15)
wfintpe = space(2)
DO WHILE .T.
clear
text
SIMI          *      SISTEMA DE INFORMACION PARA MINA      *
SIMI021
=====
=====
* - Estimado Mensual de Produccion y/o Labor - *

fecha (aamm)      :      aamm          El estimado es de
(F)roduccion/(L)abor ==> ?
endt
@ 05,17 say wfecha
@ 05,71 say wnewlab
i = 0
j = 1
k = 0
WLIN = 6
wcol = 0
wfin = ' '
if wfinlab # space(15)
seek wfecha+wfinlab+wfintpe
endif
DO WHILE .not. eof()
i = i + 1
if i > 15
i = 1
wlin = 6
wcol = wcol + 21
j = j + 1
if j > 4
exit
endif
endif
k = k + 1

```

```

wsel (i,j) = k
wlab (i,j) = nomlabor
wtpe (i,j) = tpoeta
wfinlab = nomlabor
wfintpe = tpoeta
@ wlin+i,wcol say str(k,2,0)
@ wlin+i,wcol+3 say wlab (i,j)
skip
ENDDO
if eof()
wfin = 'S'
endif
if i = 0
exit
endif
wrep = 0
@ 23,0 say 'Seleccione una labor y de ENTER ' get wrep pict '99'
read
if wrep = 0
wrep = 'N'
@ 23,0 say ' Desea continuar (S/N) ==> ' get wrep pict '!'
read
if wrep = 'S'
loop
else
exit
endif
endif
if wrep > k
loop
endif
j = int(wrep / 15) + 1
i = wrep - ((j - 1) * 15)
seek wfecha+wlab (i,j)+wtpe (i,j)
clear
text
SIMI * ESTIMADO MENSUAL DE RECURSOS POR LABOR *
SIMI021

```

Labor : XXXXXXXXXXXXXXXX	Seccion : xx	Etapas : xx
	Nivel : xxxx	Metodo : xx

ESTIMADO DE PRODUCCION	Mineral	Roto : 99999	Desmonte Roto
: 99999		Jalado : 99999	
Jalado : 99999			Avance (Mts)
: 99999			
: 999999			Relleno (m3)
: 9999			No.Colectivo

Ancho de Labor : 99.99

Veta : 99.99

%-Dilucion :

99.99

ESTIMADO DE RECURSOS

No. Tareas : 9999

No. Hombres G.A

: 999

G.B

: 999

G.C

: 999

end t

wlabor = nonlabor

wseccion = seccion

wmetodo = metodo

wnivel = nivel

wtpoeta = tpoeta

wetapa = etapa

wavance = avance

wcolec = colec

wrelleno = relleno

wprod_ro = prod_ro

wprod_ja = prod_ja

wprod_dro = prod_dro

wprod_dja = prod_dja

wguard_A = guard_A

wguard_B = guard_B

wguard_C = guard_C

wtareas = tareas

wefici = 0.0

wancho_L = ancho_L

wancho_V = ancho_V

if wancho_L > 0

wdiluc = (wancho_V / wancho_L) * 100

else

wdiluc = 0

endif

@ 3,40 say wseccion

@ 3,59 say wetapa

@ 4,40 say wnivel

@ 4,59 say wmetodo

@ 3,8 say wlabor

@ 6,43 say wprod_ro pict '99999'

@ 6,70 say wprod_dro pict '99999'

@ 7,43 say wprod_ja pict '99999'

@ 7,70 say wprod_dja pict '99999'

@ 8,68 say wavance pict '99999'

@ 9,67 say wrelleno pict '999999'

@ 10,69 say wcolec pict '9999'

@ 11,43 say wancho_L pict '99.99'

@ 12,43 say wancho_V pict '99.99'

@ 12,65 say wdiluc pict '99.99'

@ 14,39 say wtareas pict '9999'

```
@ 14,68 say wguard_A pict '999'  
@ 15,68 say wguard_B pict '999'  
@ 16,68 say wguard_C pict '999'
```

```
@ 23,0
```

```
wait 'Presione Enter'
```

```
@ 24,0
```

```
if wfin = 'S'
```

```
    go top
```

```
endif
```

```
enddo
```

```
return
```

```
*-----*
```

```
PROC CHKBLOCK
```

```
*-----*
```

```
PARAMETERS RF,chk_rf,chk_ndx
```

```
    do while .not. rlock()
```

```
*----> loop sin comandos para esperar
```

```
    enddo
```

```
return
```

* REGISTRO DE TALADROS PERFORADOS SIMI031.prg

* cimm

proce simi031
close database
do while .T.

CLEAR

text

SIMI Registro Diario de Taladros Perforados
SIMI031

Fecha de Cierre (ANO--MES) :

Fecha de Informe

(aamddd) :

endt

maamm='aamm'

wfecha='aamddd'

@ 3,30 get maamm

@ 3,70 get wfecha

read

if maamm=' ' or maamm='aamm'

exit

endif

maamm = maamm+'28'

i

dtoc(ctod(subs(maamm,1,2)+'/'+subs(maamm,3,2)+'/'+subs(maamm,5,2))) = ' '

@ 23,0

wait 'Fecha errada.. modificar..presione ENTER'

@ 24,0

loop

endif

maamm = subs(maamm,1,4)

i

f

dtoc(ctod(subs(wfecha,1,2)+'/'+subs(wfecha,3,2)+'/'+subs(wfecha,5,2)))) = ' '

@ 23,0

wait 'Fecha errada... modificar

@ 24,0

loop

endif

----- SEGUNDA PARTE -----

CLEAR

text

SIMI Registro Diario de Taladros Perforados
SIMI031

Fecha de Cierre (ANO--MES) :

Fecha de Informe

(aamddd) :

	Nombre Labor	Etapas
TOTAL	ERROR	

Codigo	Nro.
Maquina	Taladros


```

use sitala index sitalax1,sitalax2
sele 3
use mpmasper index mpmaspel
wlin = 22
@ 23,0 clear
do while .t.
  if wlin > 21
    @ 7,0 to 21,25 clear
    wlin = 7
  endif
  wnomlab=space(15)
  wtpoeta=space(2)
  @ wlin,4   get wnomlab pict '@!'
  @ wlin,22  get wtpoeta pict '!!'
  read
  if wnomlab = space(15)
    exit
  endif
  sele 1
  seek wnomlab + wtpoeta
  if EOF()
    @ 23,0
    wait 'Labor no existe en la maestra..... Modificar '
    @ 24,0
    loop
  endif
  wseccion=seccion
  wtpoeta=tpoeta
  wetapa =etapa
  wmetodo=metodo
  wnrocta=nrocta
  wfelabg= wfecha+wnomlab+wtpoeta
  sele 2
  seek wfelabg
  if .not. EOF()
    @ 23,0
    wait ' La labor ya tiene datos de esta fecha
    @ 24,0
    loop
  endif
do while .t.
store ' ' to wcodmaq1A, wcodmaq1B, wcodmaq2A, wcodmaq2B
store ' ' to wcodmaq3A, wcodmaq3B, wcodmaq4A, wcodmaq4B
store 'FF.' to wtpomaq1A, wtpomaq1B, wtpomaq4A, wtpomaq2A,
wtpomaq2B, wtpomaq4B
store 'FF.' to wtpomaq3A, wtpomaq3B
WIN = ' '
store 0 to wnrotal1A, wnrotal1B, wnrotal2A, wnrotal2B, wnrotal3A,
wnrotal3B
store 0 to wnrotal4A, wnrotal4B
@ 8,44 get wcodmaq1A
@ 8,49 get wtpomaq1A pict '@!'
@ 8,54 get wnrotal1A pict '999'
@ 9,44 get wcodmaq2A

```

```

@ 9,49 get wtpomaq2A pict '@!'
@ 9,54 get wnrotal2A pict '999'
@ 10,44 get wcodmaq3A
@ 10,49 get wtpomaq3A pict '@!'
@ 10,54 get wnrotal3A pict '999'
@ 11,44 get wcodmaq4A
@ 11,49 get wtpomaq4A pict '@!'
@ 11,54 get wnrotal4A pict '999'
@ 13,44 get wcodmaq1B
@ 13,49 get wtpomaq1B pict '@!'
@ 13,54 get wnrotal1B pict '999'
@ 14,44 get wcodmaq2B
@ 14,49 get wtpomaq2B pict '@!'
@ 14,54 get wnrotal2B pict '999'
@ 15,44 get wcodmaq3B
@ 15,49 get wtpomaq3B pict '@!'
@ 15,54 get wnrotal3B pict '999'
@ 16,44 get wcodmaq4B
@ 16,49 get wtpomaq4B pict '@!'
@ 16,54 get wnrotal4B pict '999'
read
if wcodmaq1A = space(4) .and. wcodmaq2A = space(4) .and.
wcodmaq3A = space(4) .and. wcodmaq4A = space(4) .and.
wcodmaq1B = space(4) .and. wcodmaq2B = space(4) .and.
wcodmaq3B = space(4) .and. wcodmaq4B = space(4)
wlin = wlin - 1
exit
endif
i=1
win=' '
do while i <=2
if i=1
wlin1= 7
wt='A'
else
wlin1= 12
wt='B'
endif
k=1
do while k <= 4
wcod='wcodmaq'+str(k,1)+wt
wtpo='wtpomaq'+str(k,1)+wt
if &wcod <> spac(4)
sele 3
* wco='3'+rtrim(&wcod)
wco=&wcod + &wtpo
seek wco
if eof()
@ wlin1+k,74 say '*'
win='*'
else
@ wlin1+k,74 say ' '
wdesmaq= marca+' '+modelo
endif

```

```

endif
k=k+1
enddo
i=i+1
enddo
if win='*'
@ 23,0
wait 'Maquinas no inventariadas.... presionar ENTER '
@ 24,0
loop
endif
sele 2
appe blank
*----- aqui va el RLOCK ()
chk_rf = wfecha+wnomlab+wtpoeta
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
repl anomes with maamm,seccion with wseccion,fecha with
wfecha,metodo with wmetodo;
, tpoeta with wtpoeta,etapa with wetapa,nrocta with
wnrocta,nomlabor with wnomlab
repl cotimala with space(7),cotima2a with space(7),cotima3a with
space(7),cotima4a with space(7);
, cotimalb with space(7),cotima2b with space(7),cotima3b with
space(7),cotima4b with space(7)
repl nrotalia with @,nrotal2a with @,nrotal3a with @,nrotal4a
with @;
, nrotal1b with @,nrotal2b with @,nrotal3b with @,nrotal4b
with @
unlock
do pies
exit
enddo
wlin = wlin + 1
enddo
close data
retu

```

* INGRESO DE TALADROS

```

proce pies
i=1
do while i<=2
if i=1
wlin1= 7
wt='A'
else
wlin1= 12
wt='B'
endif
k=1
do while k <=4
wcoti='cotima'+str(k,1)+wt
wwcodi='wcodmaq'+str(k,1)+wt
wwtpoi='wtpomaq'+str(k,1)+wt

```

```

wtala='nrotal'+str(k,1)+wt
wwtala='wnrotal'+str(k,1)+wt
wpies = 'nropie'+str(k,1)+wt
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wnomlab+wtpoeta
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
repla &wcoti with &wcodi+&wtpoi,&wtala with &wwtala
unlock
do case
  case subs(wtpoeta,1,1)='1' .or. wtpoeta='21'
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wnomlab+wtpoeta
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
repla &wpies with &wwtala*7*0.3054
@ wlin1+k,64 say str(&wwtala*7*0.3054,4,0)
unlock
  case wtpoeta='23' .or. subs(wtpoeta,1,1)='3'
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wnomlab+wtpoeta
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
repla &wpies with round(&wwtala*6.5*0.3054,0)
@ wlin1+k,64 say str(&wwtala*6.5*0.3054,4,0)
unlock
      endc
      k=k+1
    enddo
    i=i+1
  enddo
return

```

```

* MODIFICACION DE TALADROS
proce simi312
sele 2
use sitala index sitalaX1, sitalaX2
wlin = 22
@ 23,0 clear
do while .T.
  if wlin > 21
    @ 7,0 to 21,25 clear
    wlin = 7
  endif
  wnomlab=space(15)
  wtpoeta=space(2)
  @ wlin,4 get wnomlab pict '@!'
  @ wlin,22 get wtpoeta pict '!!'
  read
  if wnomlab = space(15)
    exit
  endif
  wfelabg= wfecha+wnomlab+wtpoeta
  seek wfelabg

```

```

if EOF()
  @ 23,0
  wait 'La Labor no tiene datos de esta fecha'
  @ 24,0
  loop
else
  wcodmaq1A=SUBS(cotima1A,1,4)
  wcodmaq2A=SUBS(cotima2A,1,4)
  wcodmaq3A=SUBS(cotima3A,1,4)
  wcodmaq4A=SUBS(cotima4A,1,4)
  wcodmaq1B=SUBS(cotima1B,1,4)
  wcodmaq2B=SUBS(cotima2B,1,4)
  wcodmaq3B=SUBS(cotima3B,1,4)
  wcodmaq4B=SUBS(cotima4B,1,4)
  wtpomaq1A=SUBS(cotima1A,5,3)
  wtpomaq2A=SUBS(cotima2A,5,3)
  wtpomaq3A=SUBS(cotima3A,5,3)
  wtpomaq4A=SUBS(cotima4A,5,3)
  wtpomaq1B=SUBS(cotima1B,5,3)
  wtpomaq2B=SUBS(cotima2B,5,3)
  wtpomaq3B=SUBS(cotima3B,5,3)
  wtpomaq4B=SUBS(cotima4B,5,3)
  wnrotal1A=NROTAL1A
  wnrotal2A=NROTAL2A
  wnrotal3A=NROTAL3A
  wnrotal4A=NROTAL4A
  wnrotal1B=NROTAL1B
  wnrotal2B=NROTAL2B
  wnrotal3B=NROTAL3B
  wnrotal4B=NROTAL4B
  @ 8,44  get wcodmaq1A
  @ 8,49  get wtpomaq1A pict '@!'
  @ 8,54  get wnrotal1A pict '999'
  @ 9,44  get wcodmaq2A
  @ 9,49  get wtpomaq2A pict '@!'
  @ 9,54  get wnrotal2A pict '999'
  @ 10,44 get wcodmaq3A
  @ 10,49 get wtpomaq3A pict '@!'
  @ 10,54 get wnrotal3A pict '999'
  @ 11,44 get wcodmaq4A
  @ 11,49 get wtpomaq4A pict '@!'
  @ 11,54 get wnrotal4A pict '999'
  @ 13,44 get wcodmaq1B
  @ 13,49 get wtpomaq1B pict '@!'
  @ 13,54 get wnrotal1B pict '999'
  @ 14,44 get wcodmaq2B
  @ 14,49 get wtpomaq2B pict '@!'
  @ 14,54 get wnrotal2B pict '999'
  @ 15,44 get wcodmaq3B
  @ 15,49 get wtpomaq3B pict '@!'
  @ 15,54 get wnrotal3B pict '999'
  @ 16,44 get wcodmaq4B
  @ 16,49 get wtpomaq4B pict '@!'
  @ 16,54 get wnrotal4B pict '999'

```

```

    read
    if wcodmaq1A = space(4) .and. wcodmaq2A = space(4) .and.
wcodmaq3A = space(4) .and. wcodmaq4A = space(4) .and.;
        wcodmaq1B = space(4) .and. wcodmaq2B = space(4) .and.
wcodmaq3B = space(4) .and. wcodmaq4B = space(4)
        @ 23,0
        wait ' El numero de maquinas debe ser > 0 ..... presione
ENTER '
        @ 24,0
        loop
    endif
do pies
endif
wlin = wlin + 1
enddo
retu

```

* ELIMINACION DE TALADROS

```

proce simi313
sele 2
use sitala index sitalaX1, sitalaX2
wlin = 22
@ 23,0 clear
do while .T.
    if wlin > 21
        @ 7,0 to 21,25 clear
        wlin = 7
    endif
    wnomlab=space(15)
    wtpoeta=space(2)
    @ wlin,4 get wnomlab pict '@!'
    @ wlin,22 get wtpoeta pict '!!'
    read
    if wnomlab = space(15)
        exit
    endif
    wfelabq= wfecha+wnomlab+wtpoeta
    seek wfelabq
    if EOF()
        @ 23,0
        wait ' La Labor no existe '
        @ 24,0
        loop
    else
        @ 8,44 say subs(cotima1A,1,4)
        @ 8,49 say subs(cotima1A,5,3)
        @ 8,54 say nrotal1A PICT '999'
        @ 8,64 say nropiel1A PICT '9999'
        @ 9,44 say subs(cotima2A,1,4)
        @ 9,49 say subs(cotima2A,5,3)
        @ 9,54 say nrotal2A PICT '999'
        @ 9,64 say nropie2A PICT '9999'
        @ 10,44 say subs(cotima3A,1,4)
        @ 10,49 say subs(cotima3A,5,3)
    endif
enddo

```

```

@ 10,54 say nrotal3A PICT '999'
@ 10,64 say nropie3A PICT '9999'
@ 11,44 say subs(cotima4A,1,4)
@ 11,49 say subs(cotima4A,5,3)
@ 11,54 say nrotal4A PICT '999'
@ 11,64 say nropie4A PICT '9999'
@ 13,44 say subs(cotima1B,1,4)
@ 13,49 say subs(cotima1B,5,3)
@ 13,54 say nrotal1B PICT '999'
@ 13,64 say nropie1B PICT '9999'
@ 14,44 say subs(cotima2B,1,4)
@ 14,49 say subs(cotima2B,5,3)
@ 14,54 say nrotal2B PICT '999'
@ 14,64 say nropie2B PICT '9999'
@ 15,44 say subs(cotima3B,1,4)
@ 15,49 say subs(cotima3B,5,3)
@ 15,54 say nrotal3B PICT '999'
@ 15,64 say nropie3B PICT '9999'
@ 16,44 say subs(cotima4B,1,4)
@ 16,49 say subs(cotima4B,5,3)
@ 16,54 say nrotal4B PICT '999'
@ 16,64 say nropie4B PICT '9999'

```

```
wresp='N'
```

```
@ 22,0 to 24,79 clear
```

```
@ 23,10 say ' Desea eliminar este registro (S/N) ?' get wresp
pict '!'

```

```
read
```

```
if wresp='S'
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = wfecha+wncmlab+wtpoeta
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
dele
```

```
unlock
```

```
endif
```

```
endif
```

```
wlin = wlin + 1
```

```
enddo
```

```
return
```

```
* CONSULTA DE TALADROS
```

```
proce simi314
```

```
sele 2
```

```
use sitala index sitalaX2
```

```
CLEAR
```

```
text
```

```
SIMI Consulta Diaria de Taladros Perforados
```

```
SIMI031
```

```
Fecha de Cierre (ANO-MES) :  
(aammdd) :
```

```
Fecha de Informe
```

T O T A L		GUARDIA A		GUARDIA B	
Nro.		Nro.	TOTAL	Nro.	TOTAL
Taladros	Labor (Mts)	Taladros	(Mts)	Taladros	(Mts)

```

endtext
@ 3,30 say maamm
@ 3,70 say wfecha
wlin = 9
wtalA = 0
wtalB = 0
wmtsA = 0
wmtsB = 0
@ 9,0 clear
do while .not. eof()
  if wlin > 19
    wresp='N'
    @ 23,10 say ' Desea terminar (S/N) ?' get wresp pict '!'
    read
    if wresp='S'
      exit
    endif
    @ 9,0 clear
    wlin = 9
  endif
  if WFECHA = FECHA
    wtottalA = nrotal1A + nrotal2A + nrotal3A + nrotal4A
    wtottalB = nrotal1B + nrotal2B + nrotal3B + nrotal4B
    wtottal = wtottalA + wtottalB
    wtalA = wtalA + wtottalA
    wtalB = wtalB + wtottalB
    wtalAB = wtalA + wtalB
    wtotmtsA = nropie1A + nropie2A + nropie3A + nropie4A
    wtotmtsB = nropie1B + nropie2B + nropie3B + nropie4B
    wtotmts = wtotmtsA + wtotmtsB
    wmtsA = wmtsA + wtotmtsA
    wmtsB = wmtsB + wtotmtsB
    wmtsAB = wmtsA + wmtsB
    @ wlin,1 say nomlabor pict '@!'
    @ wlin,19 say tpoeta pict '!!'
    @ wlin,27 say wtottalA PICT '9999'
    @ wlin,37 say wtotmtsA PICT '9999'
    @ wlin,46 say wtottalB PICT '9999'
    @ wlin,56 say wtotmtsB PICT '9999'
    @ wlin,64 say wtottal PICT '9999'
    @ wlin,74 say wtotmts PICT '9999'
    wlin = wlin + 1
  endif
skip

```



```

if wlin > 9
* WLIN = WLIN + 1
  @ wlin,1 SAY ' } TOTAL DEL DIA | |
  WLIN = WLIN + 1
  @ wlin,1 SAY ' } TOTAL DEL DIA | |
  @ wlin,26 say wtala PICT '99999'
  @ wlin,36 say wmtsA PICT '99999'
  @ wlin,45 say wtalb PICT '99999'
  @ wlin,55 say wmtsB PICT '99999'
  @ wlin,63 say wtalab PICT '99999'
  @ wlin,73 say wmtsAB PICT '99999'
  WLIN = WLIN + 1
  @ wlin,1 SAY ' } TOTAL DEL DIA | |

```

```

@ 23,0
wait ' Consulta OK .....presione ENTER'
@ 24,0
else
@ 23,0
wait ' No existen mas registros...presione ENTER'
@ 24,0
endif
return

```

* REPORTE DIARIO DE TALADROS PERFORADOS

proce simi315

sele 2

use sitala index sitalax2

@ 4,0 TO 21,79 CLEAR

@ 23,0

wait ' Coloque el papel en la impresora....Presione ENTER....

@ 24,0

SET DEV: I CEO PRINT

SET PRINT ON

wlin = 60

wpag = 0

wtala = 0

wtalb = 0

wmtsA = 0

wmtsB = 0

@ 9,0 clear

do while .not. eof()

if wlin >= 55

if wpag > 0

eject

endif

wpag = wpag + 1

@ 1,1 SAY 'SINI

Perforados

Reporte Diario de Taladros

Pag. - 1

```

@ 1,77 say str(wpag,3)
@ 2,72 SAY 'SIMI031'
@ 3,1 SAY ' Fecha de Cierre (ANO--MES) : Fecha
de Informe (aamdd) : '
@ 3,30 say maamm
@ 3,70 say wfecha

```

```

@ 4 , 1 S A Y

```

```

@ 5,1 SAY ' I I GUARDIA A I
GUARDIA B I T O T A L I '
@ 6,1 SAY ' I I Nro. TO T A LI
Nro. TOTAL I Nro. I '
@ 7,1 SAY ' I Nombre Labor Etapa I Taladros (Mts) I
Taladros (Mts) I Taladros (Mts) I '

```

```

@ 8 , 1 S A Y

```

```

WLIN=9
endif
if WFECHA = FECHA
wtotalla = nrotalla + nrotal2A + nrotal3A + nrotal4A
wtotallb = nrotal1B + nrotal2B + nrotal3B + nrotal4B
wtotall = wtotalla + wtotallb
wtala = wtala + wtotalla
wtalb = wtalb + wtotallb
wtalab = wtala + wtalb
wtotmtsA = nropie1A + nropie2A + nropie3A + nropie4A
wtotmtsB = nropie1B + nropie2B + nropie3B + nropie4B
wtotmts = wtotmtsA + wtotmtsB
wmtsA = wmtsA + wtotmtsA
wmtsB = wmtsB + wtotmtsB
wmtsAB = wmtsA + wmtsB
@ wlin,1 say nomlabor pict '@!'
@ wlin,19 say tpoeta pict '!!'
@ wlin,27 say wtotalla PICT '9999'
@ wlin,37 say wtotmtsA PICT '9999'
@ wlin,46 say wtotallb PICT '9999'
@ wlin,56 say wtotmtsB PICT '9999'
@ wlin,64 say wtotall PICT '9999'
@ wlin,74 say wtotmts PICT '9999'
wlin = wlin + 1

```

ENDIF

```

skip
enddo
WLIN = WLIN + 1

```

```

@ w 1 i n , 1 S A Y

```

```

WLIN = WLIN + 1
@ wlin,1 SAY ' I TOTAL DEL DIA I I
I I '
@ wlin,26 say wtala PICT '99999'
@ wlin,36 say wmtsA PICT '99999'

```

```
@ wlin,45 say wtab PICT '99999'  
@ wlin,55 say wmtsB PICT '99999'  
@ wlin,63 say wtab PICT '99999'  
@ wlin,73 say wmtsAB PICT '99999'
```

```
WLIN = WLIN + 1
```

```
@ w l i n , 1 S A Y
```

```
@ wlin+1,1 say  
SET DEVICE TO SCREEN  
SET PRINT OFF
```

```
@ 23,0
```

```
wait ' Termino la impresion .....Presione ENTER.....'
```

```
@ 24,0
```

```
return
```

```
*-----*
```

```
PROC CHKBLOCK
```

```
*-----*
```

```
PARAMETERS RF,chk_rf,chk_ndx
```

```
do while .not. rlock()
```

```
*-----> loop sin comandos para esperar
```

```
enddo
```

```
return
```

```
* FIN DEL PROGRAMA SIMI031
```

* REGISTRO DE CARROS JALADOS SIMI041.prg

* cjm

proce simi041

close database

do while .t.

CLEAR

text

SIMI * Registro Diario Carros Jalados *

SIMI041

Fecha (aamdd) : aamdd

CARRO Y TONELAJE			Nro. de CARROS						TIPO DE		
LABOR			MINERAL			DESMONTE			G-A		
G-B	G-C		G-A	G-B	G-C	G-A	G-B	G-C	TC	TMS	TC
TMS	TC	TMS									

```
endt
*
9999 99 9999          999 999 999      999 999 999      99 9999 99
Wfecha='aamdd'
@ 4,17 get Wfecha
read
if Wfecha=' ' .or. Wfecha='aamdd'
  exit
endif

i                                     f
dtoc(ctod(subs(wfecha,1,2)+'/'+subs(wfecha,3,2)+'/'+subs(wfecha,5
,2))) = ' . . .
@ 23,0
wait ' Fecha errada.. modificar..presione ENTER'
@ 24,0
loop
endif
@ 22,0 say replic ('=',78)
@ 23,0 say '[F2] Ingreso [F3] Modifica [F4] Elimina [F5]
Consulta [F6] Reporte [F10] Sale'
@ 24,25 say 'Presione opcion requerida'
wkey=0
do while wkey=0
  wkey=inkey()
enddo
if wkey=-9
  close data
  clear
  exit
endif
sele 1
```

```

use silabo index silabox1
sele 2
use sifaca inde sifacax1
sele 3
use sicarr inde sicarrx1,sicarrx2
if wkey<=-1.and.wkey>=-5
  if wkey=-3
    wkey2=-2
  else
    wkey2=wkey
  endif
  wkey1=wkey2*-1
  wprog='SIMI41'+str(wkey1,1)
  do &wprog
    sele 1
    use
    sele 2
    use
    sele 3
    use
  else
    loop
  endif
enddo
close data
clear
retur

* INGRESO DE CARROS JALADOS
proce simi411
sele 4
use siesti index siestix1
wlin = 10
@ 10,0 clear
do while .T.
store 0 to wcarmin1,wcarmin2,wcarmin3,wcardes1,wcardes2,wcardes3
store ' ' to wtpocar1,wtpocar2,wtpocar3
store 0 to wtoncar1,wtoncar2,wtoncar3
store 0000.000 to wfacar1,wfacar2,wfacar3
wnomlab= space(15)
@ wlin,1 get wnomlab pict '@!'
read
if Wnomlab=space(15)
  return
endif
sele 1
seek wnomlab
if EOF()
  @ 23,0
  wait ' Labor no existe en la maestra .... Presione ENTER...'
  @ 24,0
  RETURN
else
  wseccion= seccion

```

```

wmetodo = metodo
wtpoeta = tpoeta
wetapa = etapa
endif
sele 4
seek wfecha+wnomlab
if EOF()
west_min = 0
west_des = 0
else
west_min= prod_ja
west_des= prod_dja
endif
@ wlin,18 get wcarmin1 picture '999'
@ wlin,23 get wcarmin2 picture '999'
@ wlin,28 get wcarmin3 picture '999'
@ wlin,35 get wcardes1 picture '999'
@ wlin,40 get wcardes2 picture '999'
@ wlin,45 get wcardes3 picture '999'
@ wlin,52 get wtpocar1
@ wlin,62 get wtpocar2
@ wlin,72 get wtpocar3
read
wloop = 'n'
i = 1
sele 2
do while i < 4
wcarro = 'wtpocar'+str(i,1,0)
wfacto = 'wfacar'+str(i,1,0)
seek &wcarro
if EOF()
@ 23,0
wait ' Tipo de carro no definido en Maestra.. Presione
ENTER...'
@ 24,0
wloop = 'y'
exit
else
store car_fact to &wfacto
endif
i = i + 1
enddo
if wloop = 'y'
loop
endif
wfeclab=wfecha+wnomlab
sele 3
seek wfeclab
if EOF()
appe blank
*----- aqui va el RLOCK ()
chk_rf = wfeclab
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx

```

```

repl seccion with wseccion, fecha with wfecha, nomlabor with
wnomlab, tpoeta with wtpoeta;
, wetapa with wetapa, metodo with wmetodo, est_min with
west_min, est_des with west_des
repl car_cod1 with wtpocar1, carmin1 with wcarmin1, cardes1 with
wcardes1, facar1 with wfacar1;
, car_cod2 with wtpocar2, carmin2 with wcarmin2, cardes2 with
wcardes2, facar2 with wfacar2;
, car_cod3 with wtpocar3, carmin3 with wcarmin3, cardes3 with
wcardes3, facar3 with wfacar3
unlock
wtoncar1 = round(wcarmin1 * wfacar1,0)
wtoncar2 = round(wcarmin2 * wfacar2,0)
wtoncar3 = round(wcarmin3 * wfacar3,0)
@ wlin,52 say wtpocar1
@ wlin,55 say str(wtoncar1,5,0)
@ wlin,62 say wtpocar2
@ wlin,65 say str(wtoncar2,5,0)
@ wlin,72 say wtpocar3
@ wlin,75 say str(wtoncar3,5,0)
else
@ 23,0
wait ' La labor ya tiene datos de esta fecha '
@ 24,0
loop
endif
wlin = wlin + 1
if wlin >= 24
@ 10,0 clear
wlin = 10
endif
enddo
return

```

* MODIFICACION Y ELIMINACION DE CARROS JALADOS

```

proce simi412
@ 10,0 clear
wlin = 10
store ' ' to wtpocar1,wtpocar2,wtpocar3
store 0 to wtoncar1,wtoncar2,wtoncar3
do while .t.
wnomlab=space(15)
@ wlin,1 get wnomlab pict '@!'
read
if wnomlab = '
exit
endif
wfeclab=wfecha+wnomlab
sele 3
seek wfeclab
if EOF()
@ 23,0
wait ' No existe esta labor en esta fecha... presione Enter '
@ 24,0

```

```

loop
else
  wtpocar1=car_cod1
  wcarmin1=carmin1
  wcardes1=cardes1
  wfacar1 =facar1
  wtpocar2=car_cod2
  wcarmin2=carmin2
  wcardes2=cardes2
  wfacar2 =facar2
  wtpocar3=car_cod3
  wcarmin3=carmin3
  wcardes3=cardes3
  wfacar3 =facar3
  wtoncar1 = round(wcarmin1 * wfacar1,0)
  wtoncar2 = round(wcarmin2 * wfacar2,0)
  wtoncar3 = round(wcarmin3 * wfacar3,0)
endif
IF WKEY = -2
  @ wlin,18 get wcarmin1 picture '999'
  @ wlin,23 get wcarmin2 picture '999'
  @ wlin,28 get wcarmin3 picture '999'
  @ wlin,35 get wcardes1 picture '999'
  @ wlin,40 get wcardes2 picture '999'
  @ wlin,45 get wcardes3 picture '999'
  @ wlin,52 get wtpocar1
  @ wlin,55 say str(wtoncar1,5,0)
  @ wlin,62 get wtpocar2
  @ wlin,65 say str(wtoncar2,5,0)
  @ wlin,72 get wtpocar3
  @ wlin,75 say str(wtoncar3,5,0)
  READ
wloop = 'n'
i = 1
sele 2
do while i < 4
  wcarro = 'wtpocar'+str(i,1,0)
  wfacto = 'wfacar'+str(i,1,0)
  seek &wcarro
  if EOF()
    @ 23,0
    wait ' Tipo de carro no definido en Maestra... Presione
ENTER...'
    @ 24,0
    wloop = 'y'
    exit
  else
    store car_fact to &wfacto
  endif
  i = i + 1
enddo
if wloop = 'y'
  loop
endif

```



```

wtoncar1 = round(wcarmin1 * wfacar1,0)
wtoncar2 = round(wcarmin2 * wfacar2,0)
wtoncar3 = round(wcarmin3 * wfacar3,0)
sele 3
*----- aqui va el RLOCK ()
      chk_rf = wfeclab
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
repl car_cod1 with wtpocar1,carmin1 with wcarmin1,cardes1 with
wcardes1,facar1 with wfacar1;
      , car_cod2 with wtpocar2,carmin2 with wcarmin2,cardes2 with
wcardes2,facar2 with wfacar2;
      , car_cod3 with wtpocar3,carmin3 with wcarmin3,cardes3 with
wcardes3,facar3 with wfacar3
      unlock
ENDIF
      @ wlin,18 say str(wcarmin1,3,0)
      @ wlin,23 say str(wcarmin2,3,0)
      @ wlin,28 say str(wcarmin3,3,0)
      @ wlin,35 say str(wcardes1,3,0)
      @ wlin,40 say str(wcardes2,3,0)
      @ wlin,45 say str(wcardes3,3,0)
      @ wlin,52 say wtpocar1
      @ wlin,55 say str(wtoncar1,5,0)
      @ wlin,62 say wtpocar2
      @ wlin,65 say str(wtoncar2,5,0)
      @ wlin,72 say wtpocar3
      @ wlin,75 say str(wtoncar3,5,0)
IF WKEY = -3
wresp='N'
      @ 22,10 say ' Desea eliminar este carro (S/N) ?' get wresp
pict '!'
      read
      if wresp='S'
*----- aqui va el RLOCK ()
      chk_rf = wfeclab
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
      DELE
      unlock
      ENDIF
ENDIF
wlin = wlin + 1
if wlin >= 24
      @ 10,0 clear
      wlin = 10
endif
enddo
return

* CONSULTA DE CARROS JALADOS
proce simi413
@ 4,0 clear
@ 3,22 say 'Consulta de Carros Jalados'

```

```

*wfecha='aammdd'
@ 5,1 say 'Fecha : ' get wfecha
@ 7,1 say 'Indicar la fecha de consulta, puede ser (aamm) o
(aammdd)'
read
if Wfecha=' ' .or. Wfecha='aammdd'
return
endif
if subs(Wfecha,5,2) = ' ' .or. subs(Wfecha,5,2) = 'dd'
wfchlong = 4
Wfecha = subs(Wfecha,1,4) + '28'
else
wfchlong = 6
endif

```

```

dtoc(ctod(subs(wfecha,1,2)+'/' + subs(wfecha,3,2)+'/' + subs(wfecha,5
,2))) = ' . . '
@ 23,0
wait ' Fecha errada.. modificar..presione ENTER'
@ 24,0
return
endif

```

```

sele 3
if wfchlong = 4
Wfecha = subs(Wfecha,1,4)
set filter to subs(fecha,1,4) = subs(wfecha,1,4)
else
set filter to subs(fecha,1,6) = subs(wfecha,1,6)
endif

```

```

seek wfecha
IF .NOT. FOUND()
@ 23,0
wait ' No existe LABOR en esta fecha... presione ENTER ... '
@ 24,0
RETURN
endif

```

@ 6 , , 0 s a y

```

@ 7,0 say ' Nro. de CARROS
TIPO DE CARRO Y TONELAJE
@ 8,0 say ' LABOR MINERAL DESMONTE
G-A G-B G-C G-A G-B G-C
@ 9,0 say '
TC TMS TC TMS TC TMS
@ 1 0 , 0 s a y

```

```

wlin = 11
do while .not.eof()
wtoncar1 = round(carmin1 * facar1,0)
wtoncar2 = round(carmin2 * facar2,0)
wtoncar3 = round(carmin3 * facar3,0)
@ wlin,1 say nomlabor

```

```

@ wlin,18 say str(carmin1,5,0)
@ wlin,23 say str(carmin2,5,0)
@ wlin,28 say str(carmin3,5,0)
@ wlin,35 say str(cardes1,3,0)
@ wlin,40 say str(cardes2,3,0)
@ wlin,45 say str(cardes3,3,0)
@ wlin,52 say car_cod1
@ wlin,55 say str(wtoncar1,5,0)
@ wlin,62 say car_cod2
@ wlin,65 say str(wtoncar2,5,0)
@ wlin,72 say car_cod3
@ wlin,75 say str(wtoncar3,5,0)
wlin=wlin+1
if wlin>22
  wresp='N'
  @ 23,10 say ' Desea terminar (S/N) ?' get wresp pict '!'
  read
  if wresp='S'
    exit
  endif
  @ 11,0 CLEAR
  wlin=11
endif
skip
enddo
@ 23,0
wait ' Consulta Ok ..... presione ENTER ... '
@ 24,0
return
*****
*wfactor=' 1.302.733.903.00'
*wfactor1=val(subs(wfactor,val(wtpocar1)*4,4))
*wfactor2=val(subs(wfactor,val(wtpocar2)*4,4))
*wfactor3=val(subs(wfactor,val(wtpocar3)*4,4))

* REPORTE DIARIO DE CARROS CON MINERAL
proce simi414
sele 3
use sicarr inde sicarrx2
wlin= 55
s t o r e 0 t o
wcarminAt,wcarminBt,wcarminCt,wcardiat,wcarmest,westdiat,westmest
store 0 to wcarroat, wcarrobt, wcarrdiat, wcarrmest,wpag
store 0 to wtondiat, wtonmest, wcastmest
wclave= SUBS(wfecha,1,4)
seek wclave
if EOF()
@ 23,0
wait ' No hay datos del mes... Presione cualquier tecla '
@ 24,0
retu
endif
* wfchtit = wfecha
* wfecha= fecha

```

```

@ 23,0
wait 'Asegurese de que la impresora este prendida y el papel
colocado'
@ 24,0
set DEVICE to print
set print on
do while .not.eof()
if subs(fecha,1,4)=wclave
wseccion=seccion
= t o r r e 0 t o
wcarminAs,wcarminBs,wcarminCs,wcardias,wcarmess,westmess
store 0 to wtondias,wtonmess,wcastmess,westdias
windical='si'
do while .not.EOF().and.seccion=wseccion
wnomlab=nomlabor
store 0 to wcarmes,wtonmes,westmes
do while .not.EOF().and.seccion=wseccion.and.nomlabor=wnomlab
= t o r r e 0 t o
wcarminA,wcarminB,wcarminC,wcardia,wtondia,west_min
if subs(fecha,1,4) = subs(wfecha,1,4)
if fecha=wfecha
westdia =est_min
wcarminA=carmin1
wcarminB=carmin2
wcarminC=carmin3
wcardia=wcarminA+wcarminB+wcarminC
wtondia=round(carmin1*facar1,0)+round(carmin2*facar2,0)+round(car
min3*facar3,0)
wdifdia=westdia - wtondia
wpordia=(wtondia / westdia) * 100
endif
westmes= westmes + est_min
wcarmes=carmin1+carmin2+carmin3+wcarmes
wtonmes=round(carmin1*facar1,0)+round(carmin2*facar2,0)+round(car
min3*facar3,0)+wtonmes
endif
skip
enddo
if wlin >= 55
if wpag > 0
if wrep = 'si'
eject
endif
endif
CLEAR
wpag=wpag+1
@ 1,1 say 'SINI'+space(85)+'Pag. ' + str(wpag,3)
@ 2,1 SAY 'MINAS REPORTE DIARIO DE CARROS
JALADOS Y TONELADAS JALADAS DE MINERAL'
@ 3 , 1 e a y
SUBS(wfecha,5,2)+'/'+SUBS(wfecha,3,2)+'/'+SUBS(wfecha,1,2)
@ 3,93 say 'SINI041'

```

@ 4 , 1 s a

```
-----
@ 5,1 say '          CARROS JALADOS
: TONELADAS JALADAS
@ 6,1 say 'SEC LABOR GUARDIAS TOTA
L :----- TMS-DIA ----- TMS-MES -----|
@ 7,1 say '          A B C DIA
MES | EST. REAL Dif. % | EST. REAL Dif. % |
-----
@ 8 , 1 s a y
```

```
* XX 123456789012345 99999 99999 99999 999999
9999999 99999 99999 99999 99.99 99999 99999 99999 99.99
```

```
*
1234567890123456789012345678901234567890123456789012345
67890123456789012345678901234567890
```

```
* 1 2 3 4 5
6 7 8 9 0 1
```

```
wlin= 9
endif
if windical = 'si'
@ wlin,1 say wseccion
windical= 'no'
windica2= 'no'
endif
wdifmes=westmes - wtonmes
wpormes=(wtonmes / westmes) * 100
@ wlin,04 say wnomlab
@ wlin,22 say wcarminA PICT '99999'
@ wlin,28 say wcarminB PICT '99999'
@ wlin,34 say wcarminC PICT '99999'
@ wlin,40 say wcardia PICT '999999'
@ wlin,47 say wcarmes PICT '9999999'
@ wlin,56 say westdia PICT '99999'
@ wlin,63 say wtondia PICT '99999'
@ wlin,70 say wdifdia PICT '99999'
@ wlin,76 say wpordia PICT '999.99'
@ wlin,83 say westmes PICT '99999'
@ wlin,90 say wtonmes PICT '99999'
@ wlin,97 say wdifmes PICT '99999'
@ wlin,103 say wpormes PICT '999.99'
wcarminAs=wcarminAs+wcarminA
wcarminBs=wcarminBs+wcarminB
wcarminCs=wcarminCs+wcarminC
wcardias=wcardias+wcardia
wcarmess=wcarmess+wcarmes
westdias=westdias+westdia
wtondias=wtondias+wtondia
westmess=westmess+westmes
wtonmess=wtonmess+wtonmes
* wcastmess=WCASTMESS+WCASTMES
wlin=wlin+1
enddo
```

```

wlin=wlin+1
  wdifdia=westdias - wtondias
  wpordia=(wtondias / westdias) * 100
  wdifmes=westmess - wtonmess
  wpormes=(wtonmess / westmess) * 100
@ wlin,1 say 'SUB-TOTAL '
@ wlin,22 say wcarminAs PICT '99999'
@ wlin,28 say wcarminBs PICT '99999'
@ wlin,34 say wcarminCs PICT '99999'
@ wlin,40 say wcardias PICT '999999'
@ wlin,47 say wcarmess PICT '9999999'
  @ wlin,56 say westdias PICT '99999'
  @ wlin,63 say wtondias PICT '99999'
  @ wlin,70 say wdifdia PICT '99999'
  @ wlin,76 say wpordia PICT '999.99'
  @ wlin,83 say westmess PICT '99999'
  @ wlin,90 say wtonmess PICT '99999'
  @ wlin,97 say wdifmes PICT '99999'
  @ wlin,103 say wpormes PICT '999.99'
wlin=wlin+2
wcarminAt=wcarminAt+wcarminAs
wcarminBt=wcarminBt+wcarminBs
wcarminCt=wcarminCt+wcarminCs
wcardiat=wcardiat+wcardias
wcarrest=wcarrest+wcarmess
westdiat=westdiat+westdias
wtondiat=wtondiat+wtondias
westmest=westmest+westmess
wtonmest=wtonmest+wtonmess
*wcastmest=WCASTMEST+WCASTMESS
else
  go bott
endif
enddo
  wdifdia=westdiat - wtondiat
  wpordia=(wtondiat / westdiat) * 100
  wdifmes=westmest - wtonmest
  wpormes=(wtonmest / westmest) * 100
@ wlin,02 say 'T O T A L'
@ wlin,22 say wcarminAt PICT '99999'
@ wlin,28 say wcarminBt PICT '99999'
@ wlin,34 say wcarminCt PICT '99999'
@ wlin,40 say wcardiat PICT '999999'
@ wlin,47 say wcarrest PICT '9999999'
  @ wlin,56 say westdiat PICT '99999'
  @ wlin,63 say wtondiat PICT '99999'
  @ wlin,70 say wdifdia PICT '99999'
  @ wlin,76 say wpordia PICT '999.99'
  @ wlin,83 say westmest PICT '99999'
  @ wlin,90 say wtonmest PICT '99999'
  @ wlin,97 say wdifmes PICT '99999'
  @ wlin,103 say wpormes PICT '999.99'
@ wlin+1,1 say ' '
set print off

```

```
set cons on
set DEVI to screen
sele 3
use
sele 3
use sicarr inde sicarrx1,sicarrx2
return
*-----
PROC CHKBLOCK
*-----
PARAMETERS RF,chk_rf,chk_ndx
do while ,not. rlock()
*-----> loop sin comandos para esperar
enddo
return
* FINAL DIARIO DE CARROS JALADOS SIMI041
```

```

if wkey =-1,or,wkey =-2,or,wkey=-4,or,wkey=-9
  if wkey=-9
    clear
    exit
  endif
  wkey1=wkey*-1
  wprog='SIMI52'+str(wkey1,1)
  do %wprog
endif
enddo
close data
clear
retu

```

* INGRESO DE LABORES A RELLENAR POR BOMBA

```

procedure simi521
set color to w+/bg+
sele 4
use sirehi inde sirehix1,sirehix2

```

DO WHILE "T".

wbomba *

```

clear
text
SIMI                * SISTEMA DE INFORMACION PARA MINA *
SIMI052

```

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aamdd) : aamdd

RELLENADO	CAPACIDAD MAX.	PROGRAMADO
CODIGO BOMBA	x DIA en (M3)	DIA en (M3)
DIA en (M3)		

```

endt
* xx      12345678901234567890      9999.99      9999.99
9999.99

```

@ 05,17 say wfecha

```

sele 2
go top
wlin = 10
wb_min = cod_bomba
do while .not. eof()
  wb_max = cod_bomba
  @ wlin,2 say cod_bomba
  @ wlin,8 say nom_bomba
  @ wlin,35 say CAP_MAX
  @ wlin,52 say CAP_EXI
  @ wlin,68 say CAP_EJE
  wlin = wlin + 1

```



```

skip
enddo
@ 23,0
wait 'Presione ENTER '
@ 24,0
clear
text
SIMI          * SISTEMA DE INFORMACION PARA MINA *
SIMI052

```

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aammdd) : aammdd

BOMBA		xx			xx			xx
Horas por Guardia		(A)	(B)	(C)	(A)	(B)	(C)	(A)		
LABOR	(B)	(C)								

```

end t
*23456789012345 hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm
hh.mm hh.mm
@ 05,17 say wfecha
wlin = 11
wcol = 17
wtotrell = 0
sele 1
go top
do while .not. eof()
  wlabor = nomlabor
  wsecc = seccion
  wmetodo = metodo
  wbomba = cod_bomba
  sele 2
  SEEK WBOMBA
  wflujo = flujo
  wnom_bo = nom_bomba
  @ wlin,0 say wlabor
  @ 07,wcol say wbomba pict '!!!'
  @ 07,wcol+3 say wnom_bo pict '@!'
  sele 1
  seek wfecha+wlabor+wbomba
  whrs_ga = 0.0
  whrs_gb = 0.0
  whrs_gc = 0.0
  do case
    case wcol = 17
      @ wlin,16 get whrs_ga pict '999.99'
      @ wlin,23 get whrs_gb pict '999.99'

```

```

@ wlin,30  get whrs_gc  pict '999.99'
case wcol = 39
@ wlin,38  get whrs_ga  pict '999.99'
@ wlin,45  get whrs_gb  pict '999.99'
@ wlin,52  get whrs_gc  pict '999.99'
case wcol = 61
@ wlin,61  get whrs_ga  pict '999.99'
@ wlin,67  get whrs_gb  pict '999.99'
@ wlin,74  get whrs_gc  pict '999.99'
endcase
read
if whrs_ga > 0.0 .or. whrs_gb > 0.0 .or. whrs_gc > 0.0
sele 2
whrsrel = int(whrs_ga) + ((whrs_ga - int(whrs_ga)) / 60)
whrsrel = whrsrel + int(whrs_gb) + ((whrs_gb -
int(whrs_gb)) / 60)
whrsrel = whrsrel + int(whrs_gc) + ((whrs_gc -
int(whrs_gc)) / 60)
wrell_tms= (whrsrel * wflujo * 0.0037854)
wrell_m3= wrell_tms / 1.4
if wrell_m3 >= CAP_EXI
wsw_sele = 'R'
else
wsw_sele = ' '
endif
*----- aqui va el RLOCK ()
chk_rf = wBOMBA
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
replace CAP_EJE with WRELL_m3
unlock
sele 3
seek wfecha+wlabor
*----- aqui va el RLOCK ()
chk_rf = wfecha+wlabor
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
replace sw_sele with wsw_sele
unlock
sele 4
seek wfecha+wlabor+wbomba
if eof()
append blank
endif
----- aqui va el RLOCK ()
chk_rf = wfecha+wlabor+wbomba
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
replace fecha with wfecha,seccion with wsecc,metodo with
wmetodo
replace cod_bomba with wbomba,nomlabor with wlabor
replace hrs_ga with whrs_ga,hrs_gb with whrs_gb,hrs_gc
with whrs_gc
replace rell_m3 with wrell_m3,rell_tms with wrell_tms

```

```

unlock
endif
sele 1
skip
if wlabor = nomlabor .and. wfecha = fecha
wcol = wcol + 22
if wcol <= 61
loop
endif
endif
@ 07,17 to 07,79 clear
wlin = wlin + 1
wcol = 17
if wlin > 21
wrep = 'N'
@ 23,0 say ' Desea continuar (S/N) ==> ' get wrep pict '1'
if wrep = 'S'
@ 10,0 clear
loop
else
exit
endif
endif
enddo
@ 23,0
wait ' No hay mas Labores a Rellenar..presione ENTER'
@ 24,0
EXIT
enddo
RETURN

```

* MODIFICACION DE LABORES A RELLENAR POR BOMBA

```

procedure simi522
set color to w+/bg+
sele 4
use sirehi inde sirehix1,sirehix2
set filter to wfecha = fecha
go top
if eof()
@ 23,0
wait ' No hay Labores Rellenadas...presione ENTER'
@ 24,0
return
endif
DO WHILE .T.
wbomba =
clear
text
SIMI * SISTEMA DE INFORMACION PARA MINA *
SIMI052

```

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aammdd) : aammdd

RELLENADO	CAPACIDAD MAX.	PROGRAMADO
CODIGO BOMBA	x DIA en (M3)	DIA en (M3)

```
endt
* xx 12345678901234567890 9999.99 9999.99
9999.99
```

```
@ 05,17 say wfecha
sele 2
go top
wlin = 10
wh_min = cod_bomba
do while .not. eof()
  wh_max = cod_bomba
  @ wlin,2 say cod_bomba
  @ wlin,8 say nom_bomba
  @ wlin,35 say CAP_MAX
  @ wlin,52 say CAP_EXI
  @ wlin,68 say CAP_EJE
  wlin = wlin + 1
  skip
enddo
@ 23,0
wait 'Presione ENTER'
```

```
@ 24,0
clear
text
SIMI * SISTEMA DE INFORMACION PARA MINA *
SIMI052
```

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aammdd) : aammdd

BOMBA	xx	xx	xx		
.....	Horas	por	Guardia	Horas	por	Guardia	
LABOR	(A)	(B)	(C)	(A)	(B)	(C)	(A)
(B) (C)							

```
endt
*23456789012345 hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm
hh.mm hh.mm
@ 05,17 say wfecha
wlin = 11
```

```

wcol = 17
wtotrell= 0
sele 4
go top
do while .not. eof()
  wlabor = nomlabor
  wsecc = seccion
  wmetodo = metodo
  wbomba = cod_bomba
  whrs_ga = hrs_ga
  whrs_gb = hrs_gb
  whrs_gc = hrs_gc
  wrell_m3 = rell_m3
  wrell_tms = rell_tms
  sele 2
  SEEK WBOMBA
  wflujo = flujo
  wnom_bo= nom_bomba
  @ wlin,0 say wlabor
  @ 07,wcol say wbomba pict '!!'
  @ 07,wcol+3 say wnom_bo pict '@!'
  do case
    case wcol = 17
      @ wlin,16 get whrs_ga pict '999.99'
      @ wlin,23 get whrs_gb pict '999.99'
      @ wlin,30 get whrs_gc pict '999.99'
    case wcol = 39
      @ wlin,38 get whrs_ga pict '999.99'
      @ wlin,45 get whrs_gb pict '999.99'
      @ wlin,52 get whrs_gc pict '999.99'
    case wcol = 61
      @ wlin,61 get whrs_ga pict '999.99'
      @ wlin,67 get whrs_gb pict '999.99'
      @ wlin,74 get whrs_gc pict '999.99'
  endcase
  read
  if whrs_ga > 0.0 .or. whrs_gb > 0.0 .or. whrs_gc > 0.0
    sele 2
    whrsrel = int(whrs_ga) + ((whrs_ga - int(whrs_ga)) / 60)
    whrsrel = whrsrel + int(whrs_gb) + ((whrs_gb -
int(whrs_gb)) / 60)
    whrsrel = whrsrel + int(whrs_gc) + ((whrs_gc -
int(whrs_gc)) / 60)
    wrell_tms= (whrsrel * wflujo * 0.0037854)
    wrell_m3= wrell_tms / 1.4
    if wrell_m3 >= CAP_EXI
      wsw_sele = 'R'
    else
      wsw_sele = ' '
    endif
  *----- aqui va el RLOCK ()
  chk_rf = wBOMBA
  chk_ndx = space(8)
  do CHKBLOCK with 'R',chk_rf,chk_ndx

```

```
wrell_m3 = CAP_EJE E+ WRELL_m3
```

```
replace CAP_EJE with WRELL_m3
```

```
unlock
```

```
sele 3
```

```
seek wfecha+wlabor
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = wfecha+wlabor
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
replace sw_sele with wsw_sele
```

```
unlock
```

```
sele 4
```

```
seek wfecha+wlabor+wbomba
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = wfecha+wlabor+wbomba
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
replace hrs_ga with whrs_ga,hrs_gb with whrs_gb,hrs_gc
```

```
with whrs_gc
```

```
replace rell_m3 with wrell_m3,rell_tms with wrell_tms
```

```
unlock
```

```
else
```

```
sele 2
```

```
wsw_sele = ' '
```

```
wrell_m3 = CAP_EJE - WRELL_m3
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = WBOMBA
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
replace CAP_EJE with WRELL_m3
```

```
unlock
```

```
sele 3
```

```
seek wfecha+wlabor
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = wfecha+wlabor
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
replace sw_sele with wsw_sele
```

```
unlock
```

```
sele 4
```

```
seek wfecha+wlabor+wbomba
```

```
*----- aqui va el RLOCK ()
```

```
chk_rf = wfecha+wlabor+wbomba
```

```
chk_ndx = space(8)
```

```
do CHKBLOCK with 'R',chk_rf,chk_ndx
```

```
delete
```

```
unlock
```

```
endif
```

```
sele 4
```

```
skip
```

```
if wlabor = nomlabor .and. wfecha = fecha
```

```
wcol = wcol + 22
```

```
if wcol <= 61
```

```
loop
```

```

    endif
endif
wlin = wlin + 1
@ 07,17 to 07,79 clear
wcol = 17
if wlin > 21
    wrep = 'N'
    @ 23,0 say ' Desea continuar (S/N) ==> ' get wrep pict '!'
    if wrep = 'S'
        @ 10,0 clear
        loop
    else
        exit
    endif
endif
enddo
@ 23,0
wait ' No hay mas Labores a Rellenar..presione ENTER'
@ 24,0
EXIT
enddo
RETURN

```

* CONSULTA DE LABORES RELLENADAS POR BOMBA

```

procedure simi523
set color to w+/bg+
sele 4
use sirehi inde sirehix1,sirehix2
set filter to wfecha = fecha
go top
if eof()
    @ 23,0
    wait ' No hay Labores a Rellenadas...presione ENTER'
    @ 24,0
    return
endif

```

DO WHILE .T.

wbomba =

clear

text

SIMI * SISTEMA DE INFORMACION PARA MINA *

SIMI052

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aamdd) : aamdd

RELLENADO	CAPACIDAD MAX.	PROGRAMADO
CODIGO BOMBA	x DIA en (M3)	DIA en (M3)
DIA en (M3)		

```

=====
endt
* xx      12345678901234567890      9999.99      9999.99
  9999.99
@ 05,17 say wfecha
sele 2
go top
wlin = 10
wb_min = cod_bomba
do while .not. eof()
  wb_max = cod_bomba
  @ wlin,2 say cod_bomba
  @ wlin,8 say nom_bomba
  @ wlin,35 say CAF_MAX
  @ wlin,52 say CAF_EXI
  @ wlin,68 say CAF_EJE
  wlin = wlin + 1
  skip
enddo
@ 23,0
  wait 'Presione ENTER '
@ 24,0
clear
text
SIMI      * SISTEMA DE INFORMACION PARA MINA *
SIMI052
=====

```

* - INGRESO de Labores a Rellenar por Bomba - *

fecha (aamdd) : aamdd

```

=====
          BOMBA ==>  xx .....                xx .....                xx
          .....
Horas por Guardia      Horas por Guardia
LABOR      (A)  (B)  (C)      (A)  (B)  (C)  (A)
(B)  (C)
=====

```

```

=====
endt
*23456789012345 hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm hh.mm
hh.mm hh.mm
@ 05,17 say wfecha
wlin = 11
wcol = 17
wtotrell= 0
sele 4
go top
do while .not. eof()
  wlabor = nomlabor
  usecc = seccion
  wmetodo = metodo

```



```

wbomba = cod_bomba
whrs_ga = hrs_ga
whrs_gb = hrs_gb
whrs_gc = hrs_gc
wrell_m3 = rell_m3
wrell_tms = rell_tms
sele 2
SEEK WBOMBA
wflujo = flujo
wnom_bo= nom_bomba
@ wlin,0 say wlabor
@ 07,wcol say wbomba pict '!!'
@ 07,wcol+3 say wnom_bo pict '@!'
do case
  case wcol = 17
    @ wlin,16 say whrs_ga pict '999.99'
    @ wlin,23 say whrs_gb pict '999.99'
    @ wlin,30 say whrs_gc pict '999.99'
  case wcol = 39
    @ wlin,38 say whrs_ga pict '999.99'
    @ wlin,45 say whrs_gb pict '999.99'
    @ wlin,52 say whrs_gc pict '999.99'
  case wcol = 61
    @ wlin,61 say whrs_ga pict '999.99'
    @ wlin,67 say whrs_gb pict '999.99'
    @ wlin,74 say whrs_gc pict '999.99'
endcase
sele 4
skip
if wlabor = nomlabor .and. wfecha = fecha
  wcol = wcol + 22
  if wcol <= 61
    loop
  endif
endif
@ 23,0
wait ' Verifique la Bomba informada...presione ENTER'
@ 24,0
wlin = wlin + 1
@ 07,17 to 07,79 clear
wcol = 17
if wlin > 21
  wrep = 'N'
  @ 23,0 say ' Desea continuar (S/N) ==> ' get wrep pict '!'
  if wrep = 'S'
    @ 10,0 clear
    loop
  else
    exit
  endif
endif
endif
enddo
@ 23,0
wait ' No hay mas Labores a Rellenar...presione ENTER'

```

```
@ 24,0
EXIT
enddo
RETURN
*-----
PROC CHKBLOCK
*-----
PARAMETERS RF,chk_rf,chk_ndx
do while .not. rlock()
*----> loop sin comandos para esperar
enddo
return
* FIN DEL PROGRAMA SIMI052
```

```
* Relleno Hidraulico de Labores por Bomba - SIMI052.prg
```

```
* cjm
```

```
proc simi052
```

```
close database
```

```
do while .t.
```

```
clear
```

```
text
```

```
SIMI
```

```
* SISTEMA DE INFORMACION PARA MINA *
```

```
SIMI052
```

```
* - Labores en Relleno Hidraulico por Bomba - *
```

```
fecha (aamddd) : aamddd
```

```
endif
```

```
wfecha=space(6)
```

```
wkey = 0
```

```
wnewlab='F'
```

```
@ 05,17 get wfecha
```

```
read
```

```
if wfecha=' ' .or. wfecha='aamddd'
```

```
clear
```

```
exit
```

```
endif
```

```
i
```

```
dtoc(ctoc(subs(wfecha,1,2)+'/' +subs(wfecha,3,2)+'/' +subs(wfecha,5,2))) =
```

```
@ 23,0
```

```
wait ' Fecha errada.. modificar..presione ENTER'
```

```
@ 24,0
```

```
loop
```

```
endif
```

```
sele 1
```

```
use siprbo index siprbox2,siprbox1
```

```
set filter to wfecha = fecha
```

```
go top
```

```
if eof()
```

```
@ 23,0
```

```
wait ' No hay Labores Programadas...presione ENTER'
```

```
@ 24,0
```

```
loop
```

```
endif
```

```
sele 2
```

```
use sibomb index sibombx1
```

```
sele 3
```

```
use siesti inde siestix1
```

```
@ 22,0 say repli('= ',79)
```

```
@ 23,20 say ' [F2] Ingreso [F3] Modifica [F5] Consulta [F10]
```

```
Salir'
```

```
@ 24,25 say 'Presione opcion requerida'
```

```
do WHILE wkey=0
```

```
wkey=inkey()
```

```
enddo
```

```

* REGISTRO DIARIO DE CONSUMO POR LABOR SIMI062.prg
* cjm
proc simi062
close database

```

```

sele 1
use sinoma index sinomax1
wtabmat='('
do while .not. eof()
    wtabmat = wtabmat+tipomat
    skip
    if eof()
        wtabmat = wtabmat+')'
    else
        wtabmat = wtabmat+'/'
    endif
enddo
sele 1
use
sele 1
use simcon inde simconx1,simconx2,simconx3,simconx4,SIMCONX5
sele 2
use silabo inde silabox1
sele 3
use sicta inde sictax1
sele 4
use simate inde simatex1
wSetapa=' DECHSNROJA'
wTetapa='          DESARROLLOCHIMENEA  SUBNIVEL  ROTURA  JALE

```

```

do WHILE .t.
    clear
    text
SIMI          * REGISTRO DIARIO DE CONSUMO POR LABOR *
SIMI062

```

Ano-Mes de PROCESO :

Fecha (aamdd) :

Nombre labor	ETAPA	MAT	MATERIAL	DESCRIPCION
UNIDAD CONSUMO				
123456789012345 9999.99	XX	XXX	XXXXX	12345678901234567890 XXX

```

endt
maamm='aamm'
@ 4,22 get maamm
read
if maamm=' ' .or. maamm='aamm'
EXIT
endif
maamm = maamm+'28'
i
dtoc(ctod(subs(maamm,1,2)+'/' +subs(maamm,3,2)+'/' +subs(maamm,5,2)
)) = ' ' ' '
@ 23,0
wait 'Fecha errada.. modificar..presione ENTER'
@ 24,0
LOOP
endif
maamm = subs(maamm,1,4)
wfecha=SPACE(6)
@ 4,59 get wfecha
read
if wfecha=SPACE(6)
exit
endif
i
dtoc(ctod(subs(wfecha,1,2)+'/' +subs(wfecha,3,2)+'/' +subs(wfecha,5
,2))) = ' ' ' '
@ 23,0
wait 'Fecha errada.... modificar
'
@ 24,0
loop
endif
set colo to w+/n
@ 22,0 say repli('= ',79)

```

```

@ 23,0 say '[F2] Ingreso [F3] Modifica [F4] Elimina [F5]
Consulta [F6] Reporte [F10] Sale'
@ 24,25 say 'Presione Opción requerida'
wlin=13
wcodigo=
wconsumo=0
wkey=0
do WHILE wkey=0
  wkey=inkey()
endif
if wkey<=-1.and.wkey>=-4
  wsubti='
CONSULTA'
  wsubti=subs(wsubti,wkey*-12,12)
  set color to gw+
  @ 3,35 say wsubti
endif
set colo to bg+/b,w+/r
if wkey<=-1.and.wkey>=-5.or.wkey=-9
  if wkey=-9
    close data
    clear
    retu
  endif
  if wkey=-2 .or. wkey=-4
    wkey1=2
  else
    wkey1=wkey*-1
  endif
  wprog='simi62'+str(wkey1,1)
  do &wprog
endif
endDO
CLOSE DATA
CLEAR
retu

```

* S U B R U T I N A A D I C I O N

```

proce simi621
set color to
@ 23,0 clear
@ 23,0 say 'Tipos de Materiales Validos ==> '+wtabmat
wlin = 8
do while .t.
  wlabor=space(15)
  wtipoeta=space(2)
  @ wlin,1 get wlabor pict '@!'
  @ wlin,18 get wtipoeta pict '!!'
  read
  if wlabor=space(15)
    exit
  endif
sele 2

```

```

seek wlabor+wtipoeta
if EOF()
  @ 23,0
  wait 'Labor no existe en la maestra..... Modificar '
  @ 24,0
  loop
endif
wseccion=seccion
wtpoeta=tpoeta
wetapa =etapa
wmetodo=metodo
wnrocta=nrocta
do while .t.
  wtipomat=space(3)
  @ wlin,24 get wtipomat  pict '!!!'
  read
  if wtipomat = space(3)
    exit
  endif
  sele 4
  set filter to  wtipomat = tipomat
  go top
  if eof()
    @ 23,0 say 'Tipos de Materiales Validos ==> 'wtabmat
    wait ' '
    @ 24,0
    exit
  endif
do while .not. eof()
  wlin1= 8
  @ 8,30 to 21,77 clear
  do while wlin1<=21 .and. .not. eof()
    k=wlin1 - 7
    wcodmat = 'wcod1'+str(k,1,0)
    wcodcon = 'wconsul'+str(k,1,0)
    wcoduni = 'wcodun1'+str(k,1,0)
    wcodtg  = 'wcodtg1'+str(k,1,0)
    &wcodmat = codmat
    wdesmat = descrip
    &wcoduni = unid_mina
    &wcodcon = 0.0
    &wcodtg  = tip_gasto
    @ wlin1,30 say &wcodmat
    @ wlin1,39 say wdesmat
    @ wlin1,62 say &wcoduni
    sele 1
    seek wfecha+wlabor+wtpoeta+&wcodmat
    if .not. eof()
      &wcodcon = consumo
    endif
    @ wlin1,69 get &wcodcon  pict '9999.99'
    wlin1 = wlin1 + 1
    sele 4
    skip
  
```

```

enddo
read
i = 0
do while i < k
  i = i + 1
  wcodmat = 'wcod1'+str(i,1,0)
  wcodcon = 'wconsul'+str(i,1,0)
  if &wcodcon # 0.0
    wcodtg = 'wcodtg1'+str(i,1,0)
    wcoduni = 'wcodun1'+str(i,1,0)
    wnrocta = subs(wnrocta,1,6)+ &wcodtg
    sele 1
    seek wfecha+wlabor+wtpoeta+&wcodmat
    if eof()
      append blank
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
        repla anomes with maamm,cod_rep with '1',fecha with
wfecha
        repla seccion with wseccion,metodo with wmetodo
        repla nomlabor with wlabor,tpoeta with
wtpoeta,etapa with wetapa
        repla nrocta with wnrocta,tipomat with
wtipomat,codmat with &wcodmat;
        , consumo with &wcodcon,unidad with &wcoduni
        unlock
      else
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
        repla anomes with maamm,cod_rep with '1',fecha with
wfecha
        repla seccion with wseccion,metodo with wmetodo
        repla nomlabor with wlabor,tpoeta with
wtpoeta,etapa with wetapa
        repla nrocta with wnrocta,tipomat with
wtipomat,codmat with &wcodmat;
        , consumo with &wcodcon,unidad with &wcoduni
        unlock
      endif
    else
      sele 1
      seek wfecha+wlabor+wtpoeta+&wcodmat
      if .not. eof()
*----- aqui va el RLOCK ()
      chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
      chk_ndx = space(8)
      do CHKBLOCK with 'R',chk_rf,chk_ndx
        delete
        unlock
      endif
    endif
  endif
enddo

```



```

        endif
        sele 4
    - enddo
enddo
sele 4
use
sele 4
use simate   inde simatex1
enddo
wlin = wlin + 1
if wlin >= 21
    @ 8,30 to 23,77 clear
    wlin= 8
endif
enddo
retu

```

```

*          SUBROUTINA          DE          MODIFICACION          Y          CONSULTA
-----

```

```

proce simi622
set color to
@ 23,0 clear
@ 23,0 say 'Tipos de Materiales Validos ==> '+wtabmat
wlin = 8
do while .t.
    wlabor=space(15)
    wtipoeta=space(2)
    @ wlin,1 get wlabor pict '@!'
    @ wlin,18 get wtipoeta pict '!!'
    read
    if wlabor=space(15)
        exit
    endif
    sele 1
    seek wfecha+wlabor+wtipoeta
    if EOF()
        @ 23,0
        wait 'Labor no existe en esta fecha..... Modificar '
        @ 24,0
        loop
    endif
    wseccion=seccion
    wtpoeta=tpoeta
    wetapa =etapa
    wmetodo=metodo
    wnrocta=nrocta
do while .t.
    wtipomat=space(3)
    @ wlin,24 get wtipomat pict '!!!'
    read
    if wtipomat = space(3)
        exit
    endif
endif
sele 4

```

```

set filter to wtipomat = tipomat
go top
if eof()
  @ 23,0 say 'Tipos de Materiales Validos ==>' wtabmat
  wait
  @ 24,0
  exit
endif
do while .not. eof()
  wlin1= 8
  @ 8,30 to 21,77 clear
  do while wlin1<=21 .and. .not. eof()
    k=wlin1 - 7
    wcodmat = 'wcod1'+str(k,1,0)
    wcodcon = 'wconsul'+str(k,1,0)
    wcoduni = 'wcodun1'+str(k,1,0)
    wcodtg = 'wcodtg1'+str(k,1,0)
    &wcodmat = codmat
    wdesmat = descrip
    &wcoduni = unid_mina
    &wcodcon = 0.0
    &wcodtg = tip_gasto
    @ wlin1,30 say &wcodmat
    @ wlin1,39 say wdesmat
    @ wlin1,62 say &wcoduni
    sele 1
    seek wfecha+wlabor+wtpoeta+&wcodmat
    if .not. eof()
      &wcodcon = consumo
    endif
    if wkey = -2
      @ wlin1,69 get &wcodcon pict '9999.99'
    else
      @ wlin1,69 say &wcodcon pict '9999.99'
    endif
    wlin1 = wlin1 + 1
    sele 4
    skip
  enddo
  read
  i = 0
  if wkey = -2
  do while i < k
    i = i + 1
    wcodmat = 'wcod1'+str(i,1,0)
    wcodcon = 'wconsul'+str(i,1,0)
    if &wcodcon # 0.0
      wcodtg = 'wcodtg1'+str(i,1,0)
      wcoduni = 'wcodun1'+str(i,1,0)
      wnrocta = subs(wnrocta,1,6)+ &wcodtg
      sele 1
      seek wfecha+wlabor+wtpoeta+&wcodmat
      if eof()
        append blank
      endif
    endif
  enddo
endif

```

```

*----- aqui va el RLOCK ()
chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
    repla anomes with maamm,cod_rep with '1',fecha with
wfecha
    repla seccion with wseccion,metodo with wmetodo
    repla nomlabor with wlabor,tpoeta with
wtpoeta,etapa with wetapa
    repla nrocta with wnrocta,tipomat with
wtipomat,codmat with &wcodmat;
    , consumo with &wcodcon,unidad with &wcoduni
    unlock
    else
*----- aqui va el RLOCK ()
chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
    repla anomes with maamm,cod_rep with '1',fecha with
wfecha
    repla seccion with wseccion,metodo with wmetodo
    repla nomlabor with wlabor,tpoeta with
wtpoeta,etapa with wetapa
    repla nrocta with wnrocta,tipomat with
wtipomat,codmat with &wcodmat;
    , consumo with &wcodcon,unidad with &wcoduni
    unlock
endif
else
sele 1
seek wfecha+wlabor+wtpoeta+&wcodmat
if .not. eof()
*----- aqui va el RLOCK ()
chk_rf = wfecha+wlabor+wtpoeta+&wcodmat
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
    delete
    unlock
endif
endif
sele 4
enddo
endif
enddo
sele 4
use
sele 4
use simate inde simatex1
enddo
wlin = wlin + 1
if wlin >= 21
    @ 8,30 to 23,77 clear
    wlin= 8
endif

```

```
enddo
retu
```

```
* SUBROUTINA DE ELIMINACION -----
```

```
proce simi623
set color to
@ 23,0 clear
@ 23,0 say 'Tipos de Materiales Validos ==>' +wtabmat
clear
text
```

```
SIMI          * REGISTRO DIARIO DE CONSUMO POR LABOR *
SIMI062
```

```
Ano-Mes de PROCESO :                               Fecha (aamddd) :
Nombre labor      ETAPA      Nombre labor      ETAPA      Nombre
labor      ETAPA
```

```
ENDT
*123456789012345  XX          123456789012345  XX
123456789012345  XX
@ 4,22 say maamm
@ 4,59 say wfecha
@ 22,0 say repli('= ',79)
wlin = 8
wcol = 0
do while .t.
  wlabor=space(15)
  wtipoeta=space(2)
  @ wlin,wcol+1 get wlabor pict '@!'
  @ wlin,wcol+18 get wtipoeta pict '!!'
  read
  if wlabor=space(15)
    exit
  endif
  sele 1
  seek wfecha+wlabor+wtipoeta
  if EOF()
    @ 23,0
    wait 'Labor no existe en esta fecha..... Modificar '
    @ 24,0
  loop
endif
wresp='N'
@ 23,10 say ' Desea eliminar SUS CONSUMOS (S/N) ?' get wresp
pict '@!'
read
if wresp='S'
*----- aqui va el RLOCK ()
  chk_rf = wcodmat
  chk_ndx = space(8)
```

```

do CHKBLOCK with 'R',chk_rf,chk_ndx
delete FOR wfecha = FECHA .AND. wlabor = NOMLABOR .AND.
wtpoeta = TPOETA
unlock
wlin = wlin + 1
if wlin >= 21
wlin= 8
wcol = wcol + 29
endif
enddo
retu

```

* REPORTE DE CONSUMO POR LABOR

```

proc simi624
@ 3,13 say 'REPORTE DIARIO DEL CONSUMO DE MATERIALES POR LABOR'
@ 5,0 TO 21,79 CLEAR
SELE 1
use
sele 1
use simcon inde SIMCONX5,simconx1,simconx2,simconx3,simconx4
SET FILTER TO wfecha = FECHA .and. cod_rep = '1'
go top
if EOF()
@ 12,0
wait ' No hay datos del mes...Presione cualquier tecla

@ 13,0
EXIT
endif
@ 23,0
wait ' Coloque el papel en la impresora....Presione ENTER....

@ 24,0
SET DEVICE TO PRINT
SET PRINT ON
wlin = 55
wpag = 0
store 0 to wcost_c,wcost_l,wcost_s,wcost_t
wcuenta=space(8)
wmeses='ENERO FEBRERO MARZO ABRIL MAYO JUNIO
JULIO AGOSTO SETIEMBRENNOVIEMBREDICIEMBRE'
TRFCH = SUBS(WFECHA,5,2) + ' DE
'+SUBSTR(wmeses,(((VAL(SUBSTR(wfecha,3,2)))*9)-8),9) +
'19'+substr(wfecha,1,2)
wpag = wpag + 1
@ 1,6 SAY ' REPORTE DIARIO DEL CONSUMO DE MATERIALES POR
LABOR PAG.- '
@ 1,87 say str(wpag,3)
@ 2,22 say TRFCH
@ 2,84 say 'SIMI062'
@ 3 , 1 S A
-----
@ 4,1 SAY ' SECCION CUENTA MATE

```

R I A L	CONSUMO	SIGLA	COSTO'			
@ 5,1 SAY	Nombre	Labor	Codigo	Descripcion		Codigo
Descripcion	Reportado	Unidad	\$'			
@	6	,	1	S	A	Y

```

wlin=7
WCOST_T = 0.00
SELE 1
do while .not.eof()
  wseccion=seccion
  WCOST_S = 0.00
  wsec='y'
  if wsec='y'
    @ wlin,1 say 'SECCION '+ wseccion
    wlin=wlin+1
  endif
  SELE 1
  do while .not.eof() .and. seccion=wseccion
    WLABOR = NOMLABOR
    WCOST_L = 0.00
    @ wlin,6 say wlabor
    SELE 1
    do while .not.eof() .and. seccion=wseccion .AND. NOMLABOR =
WLABOR
      wcuenta=nrocta
      sele 3
      seek wcuenta
      if eof()
        wdescta='No activa'
      else
        wdescta=descrip
      endif
      @ wlin,20 say wcuenta
      @ wlin,30 say wdescta
      SELE 1
      do while .not.eof() .and. seccion=wseccion .AND. NOFLABOR
= WLABOR .AND. WCUENTA = NROCTA
        wcodmat = codmat
        wcoduni = unidad
        WCOST_C = 0.00
        sele 4
        seek wcodmat
        if eof()
          wdesmat='No activa'
          wunid = space(2)
          wfact = 0.00
          wtip_g = space(2)
          WCOST_MINA = 0.00
        else
          wdesmat= descrip
          wunid = unid_mina
          wfact = factor
          wtip_g = tip_gasto
        endif
      endwhile
    endwhile
  endwhile
endwhile

```

```

        WCOST_MINA = COST_MINA
    endif
    @ wlin,46 say wcodmat
    @ wlin,55 say wdesmat
    wconsumo = 0
    wcost_u = 0
    SELE 1
    do while .not.eof() .and.seccion=wseccion .AND.
NONLABOR = WLABOR .AND. WCUENTA = NROCTA .AND. WCODMAT = CODMAT
*       if wcoduni # wunid
*           wconsumo = wconsumo + (consumo * wfact)
*       else
*           wconsumo = wconsumo + consumo
*       endif
    wcost_u = wcost_u + (WCOST_MINA * WCONSUMO)
    skip
ENDDO
    @ wlin,70 say wconsumo pict '9999999.99'
    @ wlin,82 say wunid
    @ wlin,87 say wcost_u pict '9999999.99'
    wlin=wlin+1
    if wlin>55
        wpag = wpag + 1
        @ 1,6 SAY '          REPORTE DIARIO DEL CONSUMO DE
MATERIALES POR LABOR          PAG.- '
        @ 1,87 say str(wpag,3)
        @ 2,22 say TRFCH
        @ 2,84 say 'SIMI062'
                                @      3 , 1          S A Y
        -----
        @ 4,1 SAY '          SECCION          C U E N T A
M A T E R I A L          CONSUMO SIGLA          COSTO'
        @ 5,1 SAY '          Nombre Labor          Codigo Descripcion
Codigo Descripcion Reportado Unidad          $'
                                @      6 , 1          S A Y
        -----
        wlin=7
        *
67890123456789012345678901234567890123456789012345678901234567890
123456789012345678901234567890
        *           1           2           3           4
        5           6           7           8           9
        endif
        wcost_c = wcost_c + WCOST_U
        wcost_l = wcost_l + WCOST_U
        wcost_s = wcost_s + WCOST_U
        wcost_t = wcost_t + WCOST_U
    ENDDO
    @ wlin,22 say 'TOTAL-CUENTA'
    @ wlin,87 say wcost_c pict '9999999.99'
    wlin=wlin+1
    wcost_c = 0.00

```

```

ENDDO
@ wlin,6 say 'TOTAL-LABOR '
@ wlin,87 say wcost_l pict '99999999.99'
wlin=wlin+1
wcost_l = 0.00
ENDDO
@ wlin,1 say 'TOTAL-SECC. '+ wseccion
@ wlin,87 say wcost_s pict '99999999.99'
wlin=wlin+1
wcost_s = 0.00
ENDDO
@ wlin,1 say 'TOTAL-GRAL.'
@ wlin,87 say wcost_t pict '99999999.99'
wlin=wlin+1
SET PRINT OFF
SET DEVICE TO SCREEN
SELE 1
use
sele 1
use simcon inde simconx1,simconx2,simconx3,simconx4,SIMCONX5
set colo to
@ 12,0
wait ' Termino el reporte .....Presione cualquier tecla
@ 13,0
clea
retur
*
*-----*
PROC CHKBLOCK
*-----*
PARAMETERS RF,chk_rf,chk_ndx
do while .not. rlock()
*----> loop sin comandos para esperar
enddo
return
* FIN DE PROGRAMA SIMI062

```



```

* Registro Diario Horas Parada Equipo Mina - SIMI072.prg .
* cjm
proc simi072
close database
* public wya,wclase,wfecha,wequipo
do while .T.
clear
text
SIMI                                *      REGISTRO DE HORAS DE PARADA      *
SIMI072

```

```

Fecha(aamdd) : aamdd
TIPO-EQUIPO (L/F) : X         Codigo-Equipo : xxxxx          Nombre :
X.....X

```

```

MOTIVO DE PARADA          Hrs-Acumuladas          Hrs-guardia
Hrs-Total
-----

```

```

  A) Mant. Preventivo          HHH.MM          -HH.MM
HHH.MM

```

```

  B) Repar.Mecanico-Electrico
    Reparacion Mecanico          HHH.MM          -HH.MM
HHH.MM

```

```

    Reparacion Electrica          HHH.MM          -HH.MM
HHH.MM

```

```

DEMORAS
  C) Otras          HHH.MM          -HH.MM
HHH.MM

```

```

  D) Operativas          HHH.MM          -HH.MM
HHH.MM

```

```

  E) Fijas          HHH.MM
HHH.MM

```

```

    Refrigerio          -HH.MM
    Hrs.llegada al Equipo          -HH.MM
    Hrs.de abandono de Equipo          -HH.MM

```

```

HORAS PROGRAMADAS :          HHH.MM

```

```

OBSERVACION : x.....X

```

```

endt
wfecha=space(6)
@ 04,16 get wfecha
read

```

```

if wfecha=' ' .or. wfecha='aamdd'
  exit
endif

```

```

i
dtoc(ctod(subs(wfecha,1,2)+'/'+subs(wfecha,3,2)+'/'+subs(wfecha,5,2))) = ' '

```

```

@ 23,0
wait ' Fecha errada.. modificar..presione ENTER'
@ 24,0
EXIT

```

```

endif
set color to w+/n
@ 22,0 say repli('=' ,79)
@ 23,0 say ' [F2] Ingreso [F3] Modifica [F4] Elimina [F5]
Consulta [F6] Reporte [F10] Sale'
@ 24,25 say 'Presione opcion requerida'
wkey=0
do while wkey=0
  wkey=inkey()
enddo
if wkey=-9
  clear
  exit
endif
if wkey<=-1.and.wkey>=-5
  if wkey=-1.or.wkey=-2
    wkey1=1
  endif
  if wkey=-3.or.wkey=-4
    wkey1=3
  endif
  if wkey=-5
    wkey1=5
  endif
  wprog='simi72'+str(wkey1,1)
  do %wprog
endif
enddo
retu

```

* Ingreso de Horas de Parada

```

proce simi721
@ 23,0 clear
sele 1
use sihoeq inde sihoeqx1,sihoeqx2,sihoeqx3
sele 2
use siequi inde siequix2
do while .T.
  wequipo=' '
  wtip_eq=' '
  wclase=' '
  wrepmeca,wrepelec,wmanprev,wdemoper,wdemfija,wotrdemo,whrspro
  wstorpere,wotrdemo,whrspro
  grepmeca,grepelec,gmanprev,gdemoper,gdemfija,gotrdemo,grefrige,gl
  legada,gabandon
  wstorpere,wotrdemo
  trepmeca,trepelec,tmanprev,tdemoper,tdemfija,totrdemo
  wobserva=space(20)
  wnombre=space(20)
  @ 5,20 get wtip_eq pict '!'
  @ 5,42 get wequipo pict '@!'
  read
  if wtip_eq=' ' .or. wequipo = '

```

```

    exit
endif
if .not. wtip_eq '$LF'
    exit
endif
wya='n'
do verifica
if wya='y'
    exit
endif
@ 5,59    say wnombre
@ 9,35    say str(wmanprev,7,2)
@ 11,35   say str(wrepmecca,7,2)
@ 12,35   say str(wrepelec,7,2)
@ 14,35   say str(wotrdemo,7,2)
@ 15,35   say str(wdemoper,7,2)
@ 16,35   say str(wdemfija,7,2)
@ 9,51    get gmanprev pict '9999.99'
@ 11,51   get grepmecca pict '9999.99'
@ 12,51   get grepelec pict '9999.99'
@ 14,51   get gotrdemo pict '9999.99'
@ 15,51   get gdemoper pict '9999.99'
@ 17,51   get grefrige pict '9999.99'
@ 18,51   get gllegada pict '9999.99'
@ 19,51   get gabandon pict '9999.99'
@ 20,35   get whrspro pict '9999.99'
@ 21,14   get wobserva pict '@!'
read
wmanprev= (int(wmanprev) * 60) + (wmanprev - int(wmanprev)) *
100
gmanprev= (int(gmanprev) * 60) + (gmanprev - int(gmanprev)) *
100
tmanprev = wmanprev + gmanprev
tmanprev= int(tmanprev / 60) + ((tmanprev - int(tmanprev / 60)
* 60) / 100)

wrepmecca= (int(wrepmecca) * 60) + (wrepmecca - int(wrepmecca)) *
100
grepmecca= (int(grepmecca) * 60) + (grepmecca - int(grepmecca)) *
100
trepmecca = wrepmecca + grepmecca
trepmecca= int(trepmecca / 60) + ((trepmecca - int(trepmecca / 60)
* 60) / 100)

wrepelec= (int(wrepelec) * 60) + (wrepelec - int(wrepelec)) *
100
grepelec= (int(grepelec) * 60) + (grepelec - int(grepelec)) *
100
trepelec = wrepelec + grepelec
trepelec= int(trepelec / 60) + ((trepelec - int(trepelec / 60)
* 60) / 100)

wotrdemo= (int(wotrdemo) * 60) + (wotrdemo - int(wotrdemo)) *
100

```

```

gotrdemo= (int(gotrdemo) * 60) + (gotrdemo - int(gotrdemo)) *
100
totrdemo = wotrdemo + gotrdemo
totrdemo= int(totrdemo / 60) + ((totrdemo - int(totrdemo / 60)
* 60) / 100)

wdemoper= (int(wdemoper) * 60) + (wdemoper - int(wdemoper)) *
100
gdemoper= (int(gdemoper) * 60) + (gdemoper - int(gdemoper)) *
100
tdemoper = wdemoper + gdemoper
tdemoper= int(tdemoper / 60) + ((tdemoper - int(tdemoper / 60)
* 60) / 100)

wdemfija= (int(wdemfija) * 60) + (wdemfija - int(wdemfija)) *
100
grefrige= (int(grefrige) * 60) + (grefrige - int(grefrige)) *
100
gllegada= (int(gllegada) * 60) + (gllegada - int(gllegada)) *
100
gabandon= (int(gabandon) * 60) + (gabandon - int(gabandon)) *
100
tdemfija = wdemfija + grefrige + gllegada + gabandon
tdemfija= int(tdemfija / 60) + ((tdemfija - int(tdemfija / 60)
* 60) / 100)

@ 9,67 say str(tmanprev,6,2)
@ 11,67 say str(trepmeca,6,2)
@ 12,67 say str(trepelec,6,2)
@ 14,67 say str(totrdemo,6,2)
@ 15,67 say str(tdemoper,6,2)
@ 16,67 say str(tdemfija,6,2)
read
wrep = ' '
@ 21,45 say 'Se graba (S/N)? ' get wrep pict '!'
read
if wrep = 'S'
sele 1
seek wfecha+wtip_eq+wequipo
*----- aqui va el RLOCK ()
chk_rf = wfecha+wtip_eq+wequipo
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
repl tip_eq with wtip_eq,fecha with wfecha,clase with
wclase,equipo with wequipo;
, repmeca with trepmeca,repelec with trepelec,manprev
with tmanprev
repl demoper with tdemoper,demfija with tdemfija,otrdemo with
totrdemo;
, hrspro with whrspro,observa with wobserva
unlock
endif
enddo
retu

```

* Eliminacion y Consulta de Horas de Parada

proce simi723

@ 23,0 clear

sele 1

use sihoeq inde sihoeqx1,sihoeqx2

sele 2

use siequi inde siequix2

do while .T.

 wtip_eq=' '

 wclase = ' '

 wequipo=' '

 wnombre= space(20)

 @ 5,20 get wtip_eq pict '!'

 @ 5,42 get wequipo pict '@!'

 read

 if wtip_eq=' ' .or. wequipo = ' '

 exit

 endif

 if .not. wtip_eq \$'LP'

 exit

 endif

 wya='n'

 s t o r e @ . @ @ t o

wrepmeca,wrepelec,wmanprev,wdemoper,wdemfija,wotrdemo,whrspro

wobserva=space(20)

do verifica

 if wya='y'

 loop

 endif

 @ 5,59 say wnombre

 @ 9,35 say str(wmanprev,6,2)

 @ 11,35 say str(wrepmeca,6,2)

 @ 12,35 say str(wrepelec,6,2)

 @ 14,35 say str(wotrdemo,6,2)

 @ 15,35 say str(wdemoper,6,2)

 @ 16,35 say str(wdemfija,6,2)

 @ 20,35 say str(whrspro,6,2)

 @ 21,15 say wobserva

 if wkey=-3

 wrep = ' '

 @ 23,45 say 'BORRA TODO en esa fecha (S/N)? ' get wrep pict '!'

 read

 if wrep = 'S'

*----- aqui va el RLOCK ()

 chk_rf = wfecha+wtip_eq+wequipo

 chk_ndx = space(8)

 do CHKBLOCK with 'R',chk_rf,chk_ndx

 DELETE

 UNLOCK

 endif

else

 @ 23,0

 wait

```

presione.... ENTER'
  @ 24,0
endif
enddo
retu

* SUBROUTINA DE REPORTE
proc simi724
sele 1
use sihoeq inde sihoeqx2
seek wfecha
if eof()
  @ 23,0
  wait ' No hay registro en esta fecha .....presione
  ENTER
  @ 24,0
  retu
endif
set color to w+r+
@ 3,0 clear
set color to r+
@ 8,0
wait ' Coloque el papel en la impresora....Presione ENTER....

@ 9,0
@ 12,35 say 'R E P O R T E '
wtab_eq1= 'Perforadora          Wincha          Palas
          Caterpila            Carro          Carro Metalero
          ,
wtab_eqp= 'Scoops              Jumbo          Cavos
          Locomotoras
wmeses='ENERO    FEBRERO    MARZO    ABRIL    MAYO    JUNIO
JULIO    AGOSTO    SETIEMBRENOVIEMBREDECIEMBRE
TRFCH =          SUBS ( W F E C H A , 5 , 2 ) + '          D E
'+SUBSTR(wmeses,(((VAL(SUBSTR(wfecha,3,2)))*9)-          8),9) +
'19'+substr(wfecha,1,2)
SET DEVICE TO PRINT
SET PRINT ON
wpag = 1
@ 1,70 say 'Pag.' + str(wpag,3)
@ 2,1 say 'SIMI * REPORTE DISPONIBILIDAD DIARIA DE
EQUIPO MINA * SIMI072'
@ 4,26 say TRFCH
@ 5
'-----'
@ 6,1 say '          HRS    MANT    REPARACION          D E M O R A S
          HRS    DISPO    UTILI'
@ 7,1 say 'EQUIPO    PROG    PREV    MECA    ELEC    OPER.    FIJA
OTRA    OPER    NIBIL    ZACION'
@ 8
'-----'

```

WLIN=10

```

wtip_eq = '
do while .not. EOF() .and. fecha = wfecha
windical='si'
if wtip_eq # tip_eq
if tip_eq = 'L'
@ wlin,2 say 'EQUIPOS LIGEROS MINA'
wtitcla = wtab_eq1
else
if tip_eq = 'P'
@ wlin,2 say 'EQUIPOS PESADOS MINA'
wtitcla = wtab_eqp
endif
endif
wlin=wlin+1
wtip_eq = tip_eq
endif
@ wlin,1 say subs(wtitcla,((val(clase)*20)-20)+1,20)
wlin = wlin + 1
wclase = clase
s t o r e @ t o
snumhrs,smanprev,srepmeca,srepelec,sdemoper,sdemfija,sotrdemo,IS,
sutiliz
store @ to shrsope,sdispon
do while .not. EOF() .and. fecha=wfecha .and. clase=wclase
s t o r e @ t o
wnumhrs,wmanprev,wrepmeca,wrepelec,wdemoper,wdemfija,wotrdemo,wuti
liz
wequipo =equipo
if wlin >= 55
if wpag > 0
eject
endif
CLEAR
wpag = wpag + 1
@ 1,70 say 'Pag.' + str(wpag,3)
@ 2,1 say 'SIMI * REPORTE DISPONIBILIDAD DIARIA DE
EQUIPO MINA * SIMI072'
@ 4,26 say TRFCH
@ 5 , 1 s a y
-----
@ 6,1 say ' HRS MANT REPARACION D E M O R
A S HRS DISPO UTILI'
@ 7,1 say 'EQUIPO PROG PREV MECA ELEC OPER. FIJA
OTRA OPER NIBIL ZACION'
@ 8 , 1 s a y
-----
wlin=10
endif
wnumhrs = HRSPRO
wrepmeca= (int(repmeca) * 60) + (repmeca - int(repmeca)) * 100
wrepelec= (int(repelec) * 60) + (repelec - int(repelec)) * 100
wdemoper= (int(demoper) * 60) + (demoper - int(demoper)) * 100

```

```

wdemfija= (int(demfija) * 60) + (demfija - int(demfija)) * 100
wotrdemo= (int(otrdemo) * 60) + (otrdemo - int(otrdemo)) * 100
wmanprev= (int(manprev) * 60) + (manprev - int(manprev)) * 100

wnumhrs = (int(wnumhrs) * 60) + (wnumhrs - int(wnumhrs)) * 100
wdispon  = ((wnumhrs - (wmanprev + wrepmecca + wrepelec)) /
wnumhrs) * 100
wutiliz  = ((wnumhrs - (wmanprev + wrepmecca + wrepelec +
wotrdemo + wdemoper + wdemfija)) / (wnumhrs - (wmanprev +
wrepmecca + wrepelec))) * 100
whrsope  = (wnumhrs - (wmanprev + wrepmecca + wrepelec +
wotrdemo + wdemoper + wdemfija))
IS = IS + 1
*----- TOTALES POR CLASE -----
snumhrs  = snumhrs  + wnumhrs
smanprev = smanprev + wmanprev
srepmecca = srepmecca + wrepmecca
srepelec = srepelec + wrepelec
sdemoper  = sdemoper  + wdemoper
sdemfija  = sdemfija  + wdemfija
sotrdemo  = sotrdemo  + wotrdemo

shrsope   = shrsope   + whrsope
sdispon   = sdispon   + wdispon
sutiliz   = sutiliz   + wutiliz
*-----
wnumhrs = int(wnumhrs / 60) + ((wnumhrs - int(wnumhrs / 60)
* 60) / 100)
wrepmecca= int(wrepmecca / 60) + ((wrepmecca - int(wrepmecca /
60) * 60) / 100)
wrepelec= int(wrepelec / 60) + ((wrepelec - int(wrepelec /
60) * 60) / 100)
wdemoper= int(wdemoper / 60) + ((wdemoper - int(wdemoper /
60) * 60) / 100)
wdemfija= int(wdemfija / 60) + ((wdemfija - int(wdemfija /
60) * 60) / 100)
wotrdemo= int(wotrdemo / 60) + ((wotrdemo - int(wotrdemo /
60) * 60) / 100)
wmanprev= int(wmanprev / 60) + ((wmanprev - int(wmanprev /
60) * 60) / 100)
whrsope = int(whrsope / 60) + ((whrsope - int(whrsope /
60) * 60) / 100)
@ wlin,2 say wequipo
@ wlin,9 say str(wnumhrs,6,2)
@ wlin,15 say str(wmanprev,6,2)
@ wlin,22 say str(wrepmecca,6,2)
@ wlin,29 say str(wrepelec,6,2)
@ wlin,37 say str(wdemoper,6,2)
@ wlin,45 say str(wdemfija,6,2)
@ wlin,52 say str(wotrdemo,6,2)
@ wlin,59 say str(whrsope,6,2)
@ wlin,67 say str(wdispon,6,2)
@ wlin,75 say str(wutiliz,6,2)
skip

```



```

    wlin=wlin+1
enddo
SDISPON = SDISPON / IS
SUTILIZ = SUTILIZ / IS
IS = 0
    snumhrs = int(snumhrs / 60) + ((snumhrs - int(snumhrs /
60) * 60) / 100)
    srepmeca= int(srepmeca / 60) + ((srepmeca - int(srepmeca /
60) * 60) / 100)
    srepelec= int(srepelec / 60) + ((srepelec - int(srepelec /
60) * 60) / 100)
    sdemoper= int(sdemoper / 60) + ((sdemoper - int(sdemoper /
60) * 60) / 100)
    sdemfija= int(sdemfija / 60) + ((sdemfija - int(sdemfija /
60) * 60) / 100)
    sotrdemo= int(sotrdemo / 60) + ((sotrdemo - int(sotrdemo /
60) * 60) / 100)
    smanprev= int(smanprev / 60) + ((smanprev - int(smanprev /
60) * 60) / 100)
    shrsope = int(shrsope / 60) + ((shrsope - int(shrsope /
60) * 60) / 100)
    @ wlin,1 say 'TOTAL '
    @ wlin,9 say str(snumhrs,6,2)
    @ wlin,15 say str(smanprev,6,2)
    @ wlin,22 say str(srepmeca,6,2)
    @ wlin,29 say str(srepelec,6,2)
    @ wlin,37 say str(sdemoper,6,2)
    @ wlin,45 say str(sdemfija,6,2)
    @ wlin,52 say str(sotrdemo,6,2)
    @ wlin,59 say str(shrsope,6,2)
    @ wlin,67 say str(sdispon,6,2)
    @ wlin,75 say str(sutiliz,6,2)
    wlin = wlin + 2
enddo
@ wlin+1,1 say ' '
eject
SET DEVICE TO SCREEN
SET PRINT OFF
retur

* PROCESO VERIFICA
proce verifica
sele 2
seek wtip_eq+wequipo
if eof()
    @ 23,0
    wait ' No esta registrado en la Maestra' + wequipo +
presione... ENTER'
    @ 24,0
    wya='y'
    retu
endif
unombre=nombre
wclase=clase

```

```

wya='n'
sele 1
seek wfecha+wtip_eq+wequipo
if eof()
    s      t      o      r      e      @      ,      @      @      t      o
wrepmeca,wrepelec,wmanprev,wdemoper,wdemfija,wotrdemo,whrspro
wobserva=space(20)
if wkey=-3,or,wkey=-4
    @ 23,@
    wait ' No esta registrado este equipo ' + wequipo + '
presione..... ENTER'
    @ 24,@
    wya='y'
else
    append blank
*----- aqui va el RLOCK ()
    chk_rf = wfecha+wtip_eq+wequipo
    chk_ndx = space(8)
    do CHKBLOCK with 'R',chk_rf,chk_ndx
        replace tip_eq with wtip_eq,clase with space(2),fecha with
wfecha,equipo with wequipo,hrspro with whrspro;
        , repmeca with wrepmeca,repelec with wrepelec,demoper
with wdemoper;
        , demfija with wdemfija,otrdemo with wotrdemo,manprev
with wmanprev;
        , observa with wobserva
    unlock
* seek wfecha+wtip_eq+wequipo
endif
endif
whrspro =hrspro
wrepmeca=repmeca
wrepelec=repelec
wdemoper=demoper
wdemfija=demfija
wotrdemo=otrdemo
wmanprev=manprev
wobserva=observa
retu

*-----
PROC CHKBLOCK
*-----
PARAMETERS RF,chk_rf,chk_ndx
do while .not. rlock()
*-----> loop sin comandos para esperar
enddo
return

```

```

* REPORTE DE INDICE TECNICOS POR CUENTAS - SIMI082.prg
* cimm
PROC SIMI082
do while .t.
clear
text
SIMI          * SISTEMA DE INFORMACION PARA MINA *
SIMI082

```

```

* REPORTE DE INDICES TECNICOS POR CUENTA *

```

```

FECHA :
endt
wanomes='aamm'
@ 5,09 GET WANOMES
READ
if wanomes='      '.OR. wanomes='aamm'
clear
retu
endif
wfecha=wanomes+'01'
i
dtoc(ctod(subs(wfecha,1,2)+'/'+subs(wfecha,3,2)+'/'+subs(wfecha,5,5))) = '      '
@ 23,0
wait ' FECHA ERRADA... MODIFICAR... PRESIONE ENTER'
@ 24,0
loop
endif
wmes='          ENERO      FEBRERO  MARZO      ABRIL      MAYO      JUNIO
      JULIO      AGOSTO      SETIEMBRE OCTUBRE  NOVIEMBRE DICIEMBRE'
wmes=trim(subs(wmes,Val(subs(wanomes,3,2))*9,9))
use siproc inde siprocx1
sum tonroto to wtonroto1 for anomes=wanomes.and.flag='M'
use
SELE 1
use siproc inde siprocx1
sele 2
use simate inde simatex1
sele 3
use siconm inde siconmx3,SICONMX2
set filter to anomes=wanomes.and.subs(nrocta,2,3)>'116'
go top
sele 4
use sinoma inde sinomax1
sele 3
if eof()
@ 23,0
wait ' NO EXISTE DATOS DE ESTE MES '+WANOMES+ '      '
@ 24,0
loop
endif
@ 23,0

```

wait ' Coloque el papel en la impresora...Presione ENTER....'

```

@ 24,0
wtitulo='y'
wpag=1
WTONROTOT=0
SET DEVI TO PRINT
do while .not.eof()
  wseccion=seccion
  sele 1
    sum Tonroto to wtonroto for
anomes=wanomes.and.seccion=wseccion.and.flag='M'
    if wtonroto=0
      wtonroto=wtonroto+1
    endif
  sele 3
  wnsec='y'
  do while .not.eof().and.seccion=wseccion
  wnrocta=nrocta
  wncta='y'
  do while .not.eof().and.seccion=wseccion.and.nrocta=wnrocta
  WCONSUMO=0
  WCODM=subs(CODMAT,1,3)
  if tipomat='EXP'.and.wcodm='DIN'
    sele 2
    seek c->codmat
    wdesmat=descrip
  sele 3
  else
    if wcodm='DIN'
      wdesmat='DINAMITA'
    else
      sele 4
      seek c->tipomat
      wdesmat=nom_mat
    endif
  endif
  wunid=unidad
  do while
  .not.eof().and.seccion=wseccion.and.nrocta=wnrocta.and.subs(codmat,1,3)=wcodm
    if wtitulo='y'
      @ 1,1 SAY CHR(15)
      @ 1,01 SAY 'SIMI'
      @ 1,01 SAY 'SIMI'
      @ 1,76 SAY WPAG PICT '99'
      @ 2,25 SAY 'POR CUENTA - '+wmes+'-19'+subs(wanomes,3,2)
      @ 4,01 say repli('=' ,87)
      @ 5,1 say 'M.ROTO'
      @ 6,1 say 'SECCION (TMS) CUENTA MATERIAL'
      @ 6,1 say 'CONSUMO UNID UNID/TMS'
      * XX 99999 X-XXX-XX-XX 12345678901234567890
      99999.99 XXX 999.99

```

REPORTE MENSUAL DE INDICES

TECNICOS

PAG.-'

@ 1,76 SAY WPAG PICT '99'

@ 2,25 SAY 'POR CUENTA - '+wmes+'-19'+subs(wanomes,3,2)

@ 4,01 say repli('=' ,87)

@ 5,1 say 'M.ROTO'

INDICE'

@ 6,1 say 'SECCION (TMS) CUENTA MATERIAL'

CONSUMO UNID UNID/TMS'

* XX 99999 X-XXX-XX-XX 12345678901234567890

99999.99 XXX 999.99

```

    73      81
    @ 7,01 say repli('=' ,87)
    wtitulo='n'
    wlin=8
    wpag=wpag+1
endif
if wnsec='y'
  @ wlin,3 say wseccion
  @ wlin,11 say wtonroto pict '99999'
  wtonrotot=wtonrotot+wtonroto
  wnsec='n'
endif
if wncta='y'
  @ wlin,21 say
subs(wnrocta,1,1)+'-' +subs(wnrocta,2,3)+'-' +subs(wnrocta,5,2)+'-'
+subs(wnrocta,7,2)
  wncta='n'
endif
wconsumo=wconsumo+consumo
skip
enddo
@ wlin,37 say wdesmat
@ wlin,62 say wconsumo pict '99999.99'
@ wlin,73 say wunid
@ wlin,81 say round(wconsumo/wtonroto,2) pict '999.99'
wlin=wlin+1
IF WLIN>55
  @ WLIN,1 SAY ' '
  EJECT
  SET DEVI TO SCRE
  @ 23,0
  WAIT ' COLOQUE OTRO PAPEL Y PRESIONE ENTER ..... '
  @ 24,0
  SET DEVI TO PRINT
ENDIF
enddo
wlin=wlin+1
enddo
wlin=wlin+1
enddo
@ wlin,1 say repli('=' ,87)
wlin=wlin+1
@ wlin,1 say 'MINA'
@ wlin,11 say wtonrotot pict '99999'
sele 3
SET INDE TO siconmx2
do while .not.eof()
  wconsumo=0
  wcodm=subs(codmat,1,3)
  wunid=unidad
  if tipomat='EXF' .and. wcodm<>'DIN'
    sele 2
    seek c->codmat

```

```
wdesmat=descrip
sele 3
else
if wcodm='DIN'
wdesmat='DINAMITA'
else
sele 4
seek c->tipomat
wdesmat=nom_mat
endif
endif
do while .not.eof().and.subs(codmat,1,3)=wcodm
wconsumo=wconsumo+consumo
skip
enddo
@ wlin,37 say wdesmat
@ wlin,62 say wconsumo pict '99999.99'
@ wlin,73 say wunid
@ wlin,81 say round(wconsumo/wtonrotol,2) pict '999.99'
wlin=wlin+1
enddo
@ wlin,1 say repli('=' ,87)
wlin=wlin+1
@ wlin,1 say ' '
EJECT
set filter to
close data
set devi to scre
retu
enddo
```

```
* CONTROL DE TAREAS DE MINA SIMI092.prg
```

```
* cjmm
```

```
PROC SIMI092
```

```
Do while .t.
```

```
clear
```

```
text
```

```
SIMI          * SISTEMA DE INFORMACION PARA MINA *  
SIMI092
```

REGISTRO DE TAREAS DE MINA

```
FECHA (AAMDD) :
```

No	No				No HORAS	
No	NUMERO		T R A B A J A D O R		NORMAL	SOBRET
PREF	FICHA			GDA		
COLEC	CUENTA					

```
endt
```

```
* XXX XXXXX 123456789012345678901234567890 X 999.99 999.99
```

```
XXX XXXXXX
```

```
* 2 6 13 45 49 57
```

```
67 73
```

```
@ 22,0 say repli('=','79)
```

```
@ 23,0 say ' [F2] Ingreso [F3] Modifica [F4] Elimina [F5]
```

```
Consulta [F10] Sale'
```

```
@ 24,25 say 'Presione Opción requerida'
```

```
wlin=11
```

```
wkey=inkey(0)
```

```
if wkey<=-1.and.wkey>=-4
```

```
- wsubti=' INGRESO MODIFICACIONELIMINACION  
CONSULTA'
```

```
wsubti=subs(wsubti,wkey*-12,12)
```

```
@ 4,31 say wsubti
```

```
endif
```

```
if wkey<=-1.and.wkey>=-5.or.wkey=-9
```

```
if wkey=-9
```

```
close data
```

```
clear
```

```
retu
```

```
endif
```

```
if wkey>=-3
```

```
sele 1
```

```
use sihirst inde sihirstx1,sihirstx2,sihirstx3
```

```
sele 2
```

```
use sipers inde sipersx1
```

```
wkey1=1
```

```
else
```

```
wkey1=2
```

```
endif
```

```

    wprog='SIMI92'+str(wkey1,1)
    do %wprog
    endif
endDO
retu

* SUBROUTINA ADICION-MODIFICACION-ELIMINACION
PROC SIMI921
@ 23,0 clear
wfecha='aammdd'
@ 6,19 get wfecha
read
if wfecha=' ' ,or,wfecha='aammdd'
    retu
endif
i
dtoc(ctod(subs(wfecha,1,2)+'/' +subs(wfecha,3,2)+'/' +subs(wfecha,5
,2))) = ' / / '
@ 23,0
wait 'Fecha errada.... modificar
'

@ 24,0
retu
endif
wprefijo=' '
sele 1
do while wlin<=21
    wnficha=' '
    @ wlin,2 get wprefijo
    @ wlin,6 get wnficha
    read
    if wnficha = ' ' ,or,wprefijo=' '
        close data
        retu
    endif
    sele 2
    seek wnficha
    if eof()
        @ 23,0
        wait ' No existe esta ficha en la maestra de personal ...'
        @ 24,0
        loop
    endif
    wplan_secc=planilla+seccion
    wap_nom=ap_nom
    wguardia=guardia
    sele 1
    seek wfecha+wnficha
    if .not.eof()
        if wkey=-1
            @ 22,0
            wait ' Ya existe las hrs de '+trim(wnficha)+' presione ENTER'
            @ 23,0
            loop
        endif
    endif
enddo
retu

```



```

endif
else
if wkey=-2 .or. wkey=-3
@ 22,0
wait ' No existe esta las hrs '+trim(wnficha)+' ..... presione
ENTER'
@ 23,0
loop
ELSE
APPE BLANK
ENDIF
endif
wh_normal = h_normal
wh_sobret = h_sobret
wnrocta= nrocta
wcolec= colec
@ wlin,13 say wap_nom
sele 1
if wkey>=-2
@ wlin,45 get wguardia
@ wlin,49 get wh_normal pict '999.99'
@ wlin,57 get wh_sobret pict '999.99'
@ wlin,67 get wcolec
@ wlin,73 get wnrocta
read
*----- aqui va el RLOCK ()
chk_rf = wnficha
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
if wkey=-1
repla plan_secc with wplan_secc,prefijo with wprefijo,nficha
with wnficha;
, fecha with wfecha
endif
* if wkey<=-3
repla h_normal with wh_normal,h_sobret with wh_sobret,colec
with wcolec;
, nrocta with wnrocta,guardia with wguardia
unlock
endif
else
@ wlin,45 say wh_normal pict '999.99'
@ wlin,53 say wh_sobret pict '999.99'
@ wlin,63 say wcolec
@ wlin,71 say wnrocta
*----- aqui va el RLOCK ()
chk_rf = wnficha
chk_ndx = space(8)
do CHKBLOCK with 'R',chk_rf,chk_ndx
dele
pack
@ 23,0
wait ' ELIMINACION OK
@ 24,0

```

```

unlock
endif
wlin=wlin+2
if wlin>21
wlin= 11
@ 10,0 to 21,79 clear
endif
enddo
retu

```

```

* CONSULTA
PROC SIMI922
@ 23,0 clear

```

```

@ 6,0 say 'FECHA (AAMDD) :          PLANILLA (D/M/P) #
SECCION #'

```

```

@ 7          "          0 s          a          y

```

```

@ 8,0 say '          ACUMULADO          No HORAS

```

```

@ 9,0 say ' No FICHA          A P E L L I D O S          NORMAL

```

```

SOBRET          NORMAL          SOBRET '
@ 1          0          "          0 s          a          y

```

```

*XXX-xxxxx 123456789012345678901234567890          999.99          999.99
99999.99 99999.99
*1          11          43          52          61
71

```

```

wplanilla=' '
wseccion=' '
wfecha='aamdd'
@ 6,16 get wfecha
@ 6,44 get wplanilla pict '! valid( wplanilla $'DMP ')
@ 6,62 get wseccion
read
if wplanilla=' ' .or. wseccion=' ' .or. wfecha=' '
.or. wfecha='aamdd'
close data
retu
endif
sele 1
use sipers inde sipersx1
sele 2
use sihirst inde sihirstx2
sele 2
seek wplanilla+wseccion
if eof()
@ 24,0
@ 23,0
wait ' No existe datos de esta seccion ....'
@ 24,0
retu
endif

```

```

wlin=11
do while .not.eof().and.plan_secc=wplanilla+wseccion
  wguardia=guardia
  @ wlin,0 say '* GUARDIA '+wguardia
  wlin=wlin+1
  wh_normala=0
  wh_sobreta=0
  wh_normalf=:0
  wh_sobretf=:0
      d o w h i l e
.not.eof().and.plan_secc=wplanilla+wseccion.and.guardia=wguardia
  wnficha=nficha
  @ wlin,1 say prefijo+'-' +nficha
  sele 1
  seek wnficha
  @ wlin,11 say ap_nom
  sele 2
  wh_normal=0
  wh_sobret=0
      d o w h i l e
.not.eof().and.plan_secc=wplanilla+wseccion.and.guardia=wguardia.
and.nficha=wnficha
  if fecha<=wfecha
    wh_normal=wh_normal+h_normal
    wh_sobret=wh_sobret+h_sobret
    if fecha=wfecha
      @ wlin,43 say h_normal pict '999.99'
      @ wlin,52 say h_sobret pict '999.99'
      wh_normalf=wh_normalf+h_normal
      wh_sobretf=wh_sobretf+h_sobret
    endif
  endif
  skip
enddo
  @ wlin,61 say wh_normal pict '99999.99'
  @ wlin,71 say wh_sobret pict '99999.99'
  wh_normala=wh_normala+wh_normal
  wh_sobreta=wh_sobreta+wh_sobret
  wlin=wlin+1
  if wlin>21
    @ 23,0
    wait 'Consulta Ok...'
    @ 24,0
    @ 11,0 to 21,79 clear
    wlin=11
  endif
enddo
  @ wlin,1 say ' TOTAL GUARDIA '+wguardia
  @ wlin,43 say wh_normalf pict '999.99'
  @ wlin,52 say wh_sobretf pict '999.99'
  @ wlin,61 say wh_normala pict '99999.99'
  @ wlin,71 say wh_sobreta pict '99999.99'
  wlin=wlin+2
  if wlin>21

```

```
@ 23,0
wait 'Consulta Ok... '
@ 24,0
@ 11,0 to 21,79 clear
wlin=11
endif
enddo
@ 23,0
wait 'Consulta Ok... '
@ 24,0
close data
retu
```

```
*-----
```

```
PROC CHKBLOCK
```

```
*-----
```

```
PARAMETERS RF,chk_rf,chk_ndx
```

```
do while .not. rlock()
```

```
*----> loop sin comandos para esperar
```

```
enddo
```

```
return
```

```
* FIN DE PROGRAMA SIMI092
```