# CHAPTER - 5

5.1 System Flowchart

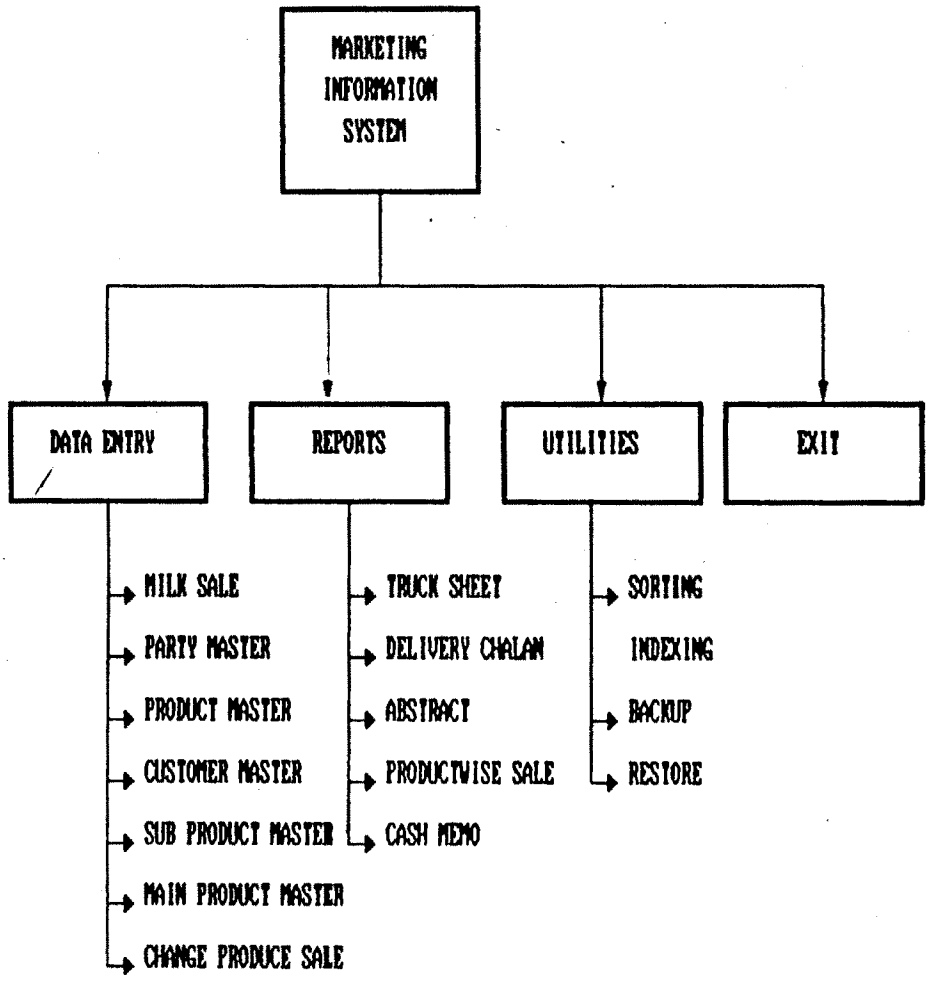
5.2 Program Flow Chart

5.3 Program Algorithm

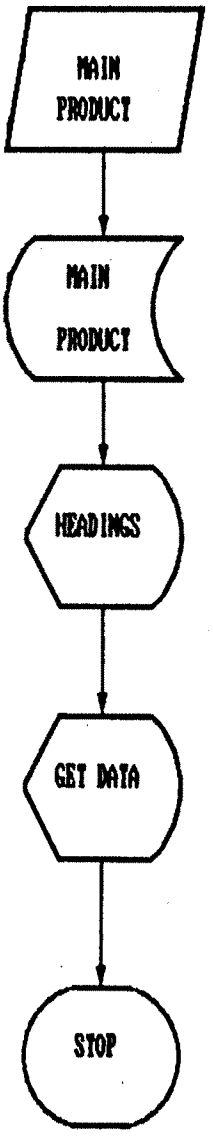
5.4 Program Listing

5.5. Computer Output

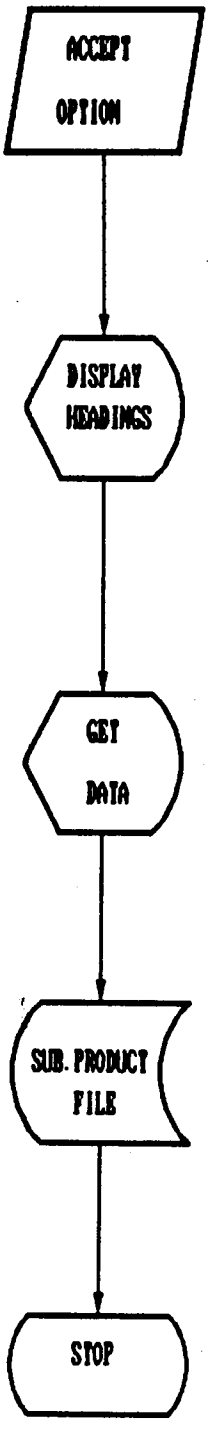
# 5.1 SYSTEM FLOW CHART



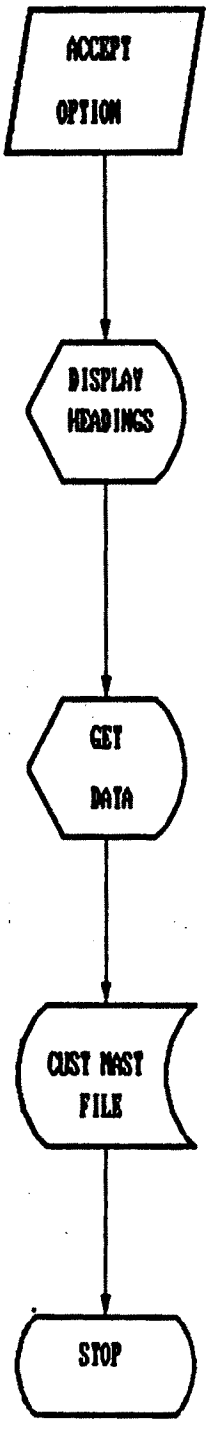
MAIN_PRODUCT



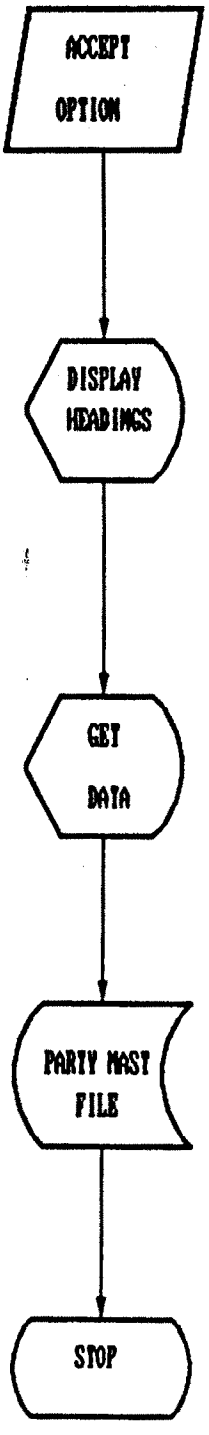
## SUB_PRODUCT


ACCEPT
OPTION
DISPLAY
HEADINGS
GET
DATA
SUB. PRODUCT
FILE
STOP

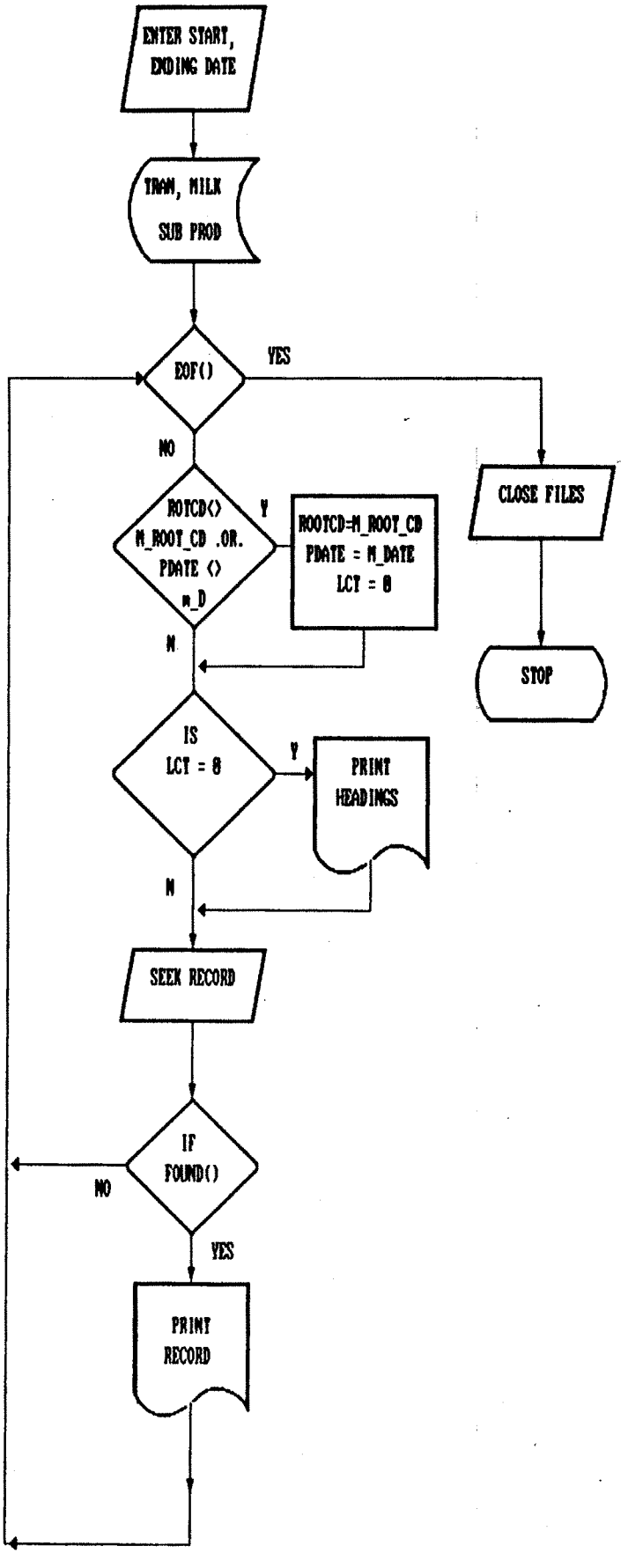
# CUSTOMER_MASTER



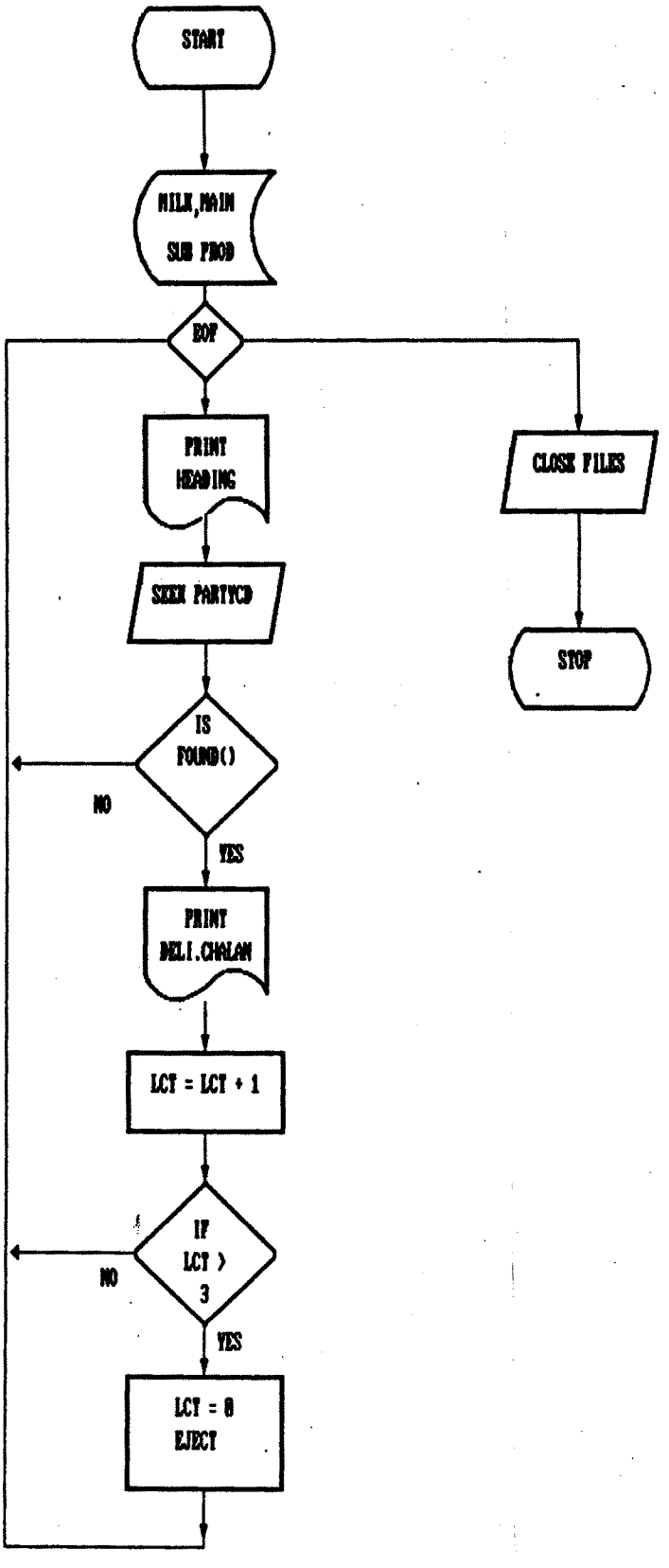
# PARTY_MASTER



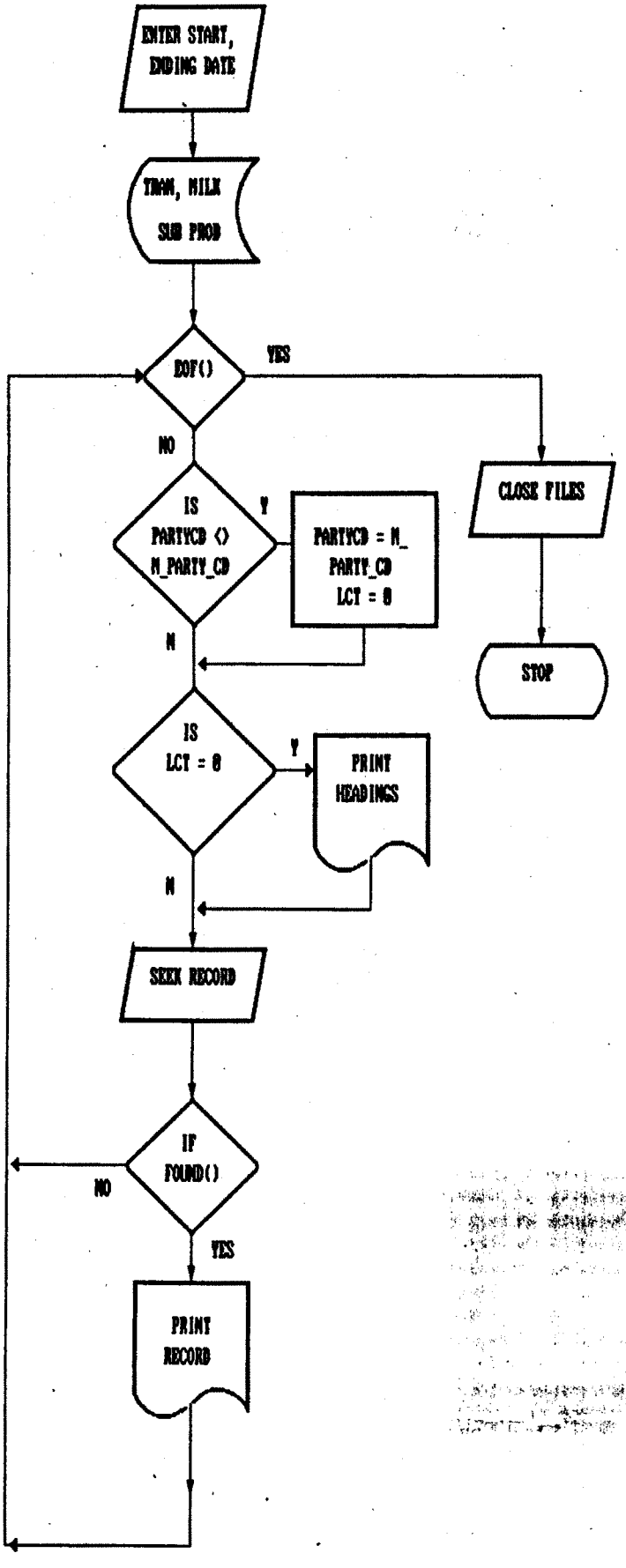
# TRUCK SHEET PRINTING



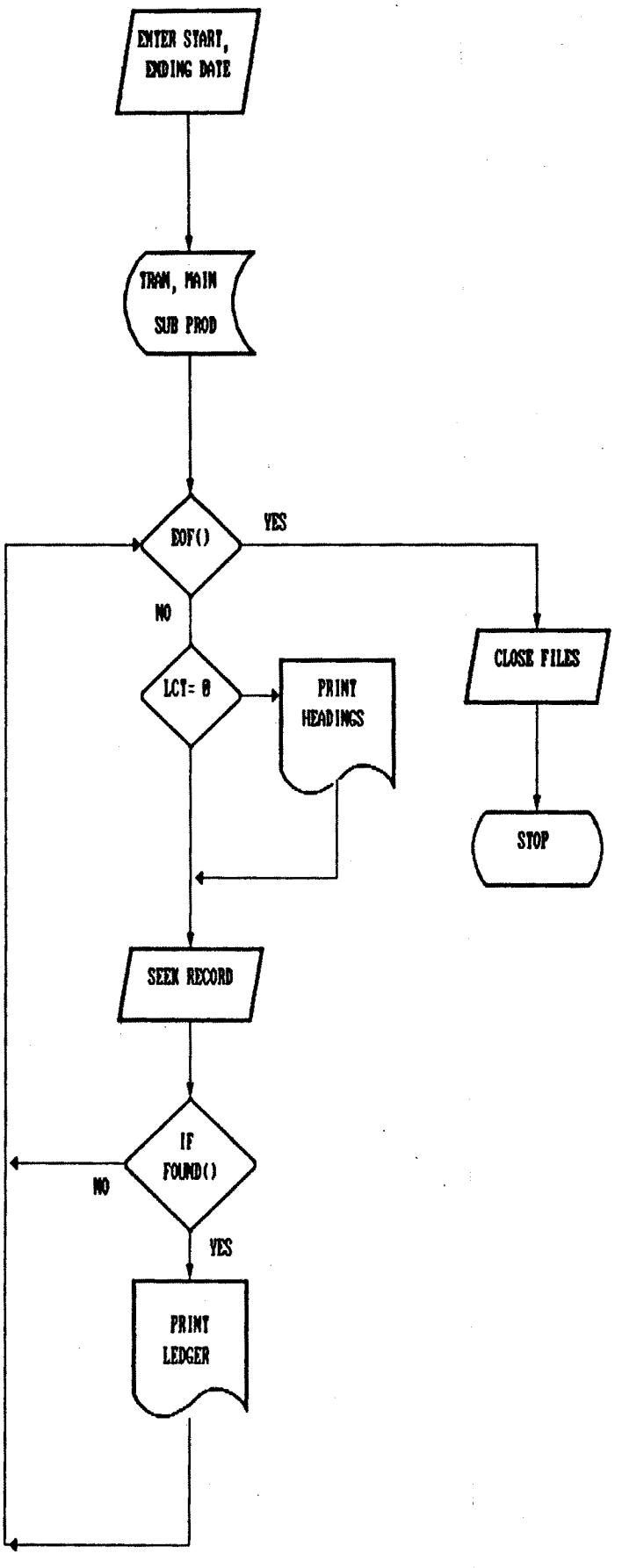
# DELIVERY CHALAN



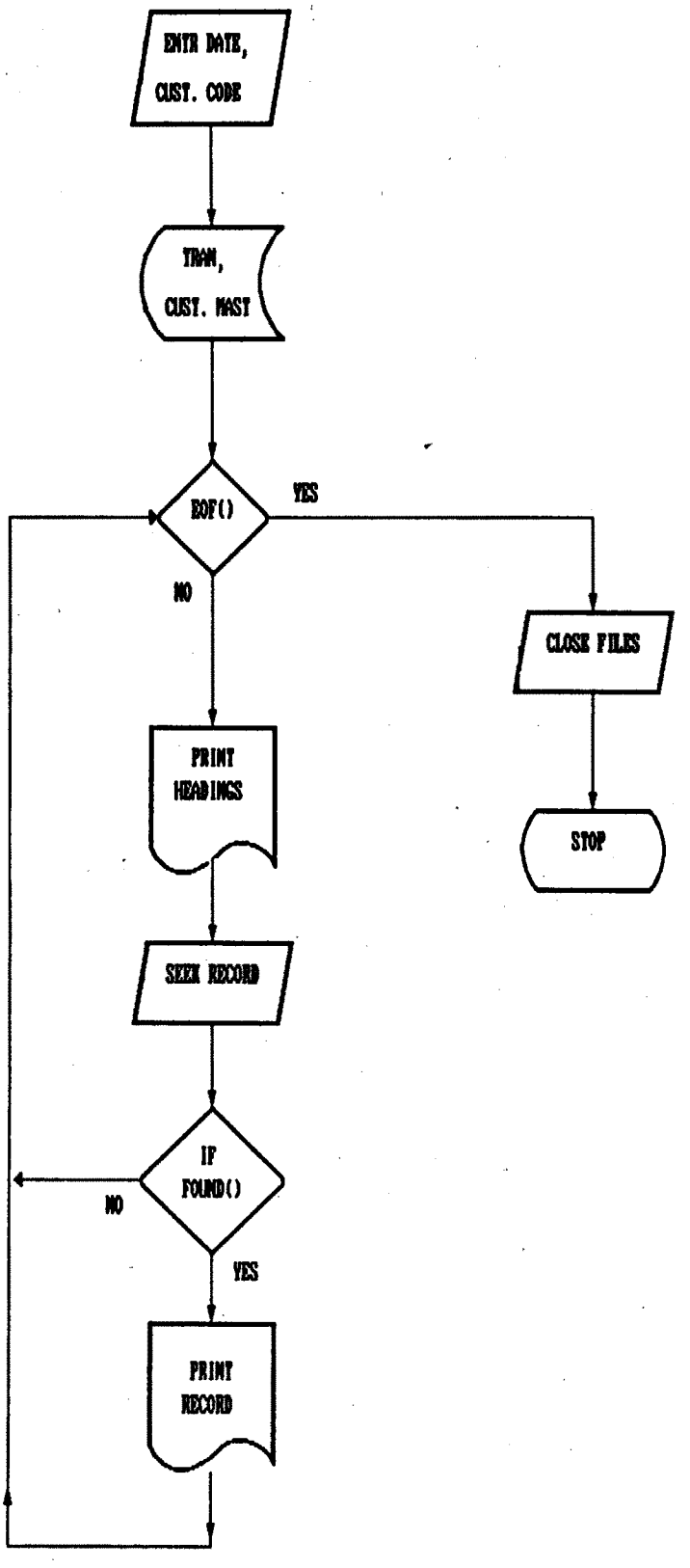
ABSTRACT


ENTER START, ENDING DATE
TRAN, MILK SUB PROD
EOF()
YES
NO
CLOSE FILES
STOP
IS PARTYCD <> M_PARTY_CD
Y
PARTYCD = M_ PARTY_CD LCT = 0
N
IS LCT = 0
Y
PRINT HEADINGS
N
SEEK RECORD
IF FOUND()
NO
YES
PRINT RECORD

# PRODUCT WISE LEDGER



# CASH MEMO PRINTING



## 5.3 PROGRAM ALGORITHM

Program Name : MARINSYS.PRG

Purpose : Display main menu and sub menu of Marketing Information System Model

Steps

1. Standard settings.
2. Cheaks all dbf files, if not found creat new files.
3. Display open screen
4. Get password, if password is MARKET or market or M accept and continue otherwise get four times password and stop.
5. Displays main menu options and sub menu options till pressing of ESC key.
6. Select optionwise function to be expected.
7. Return to Main Menu

Procedure Name : MAIN_PRODUCT

Purpose : Data entry of main biproduct of milk like Cream, Ghee, Badam pista Shrikhand, Amrakhand and Milk Powder etc.

Steps

1. Open MAINPRO file.

2. Display Headings of data required.
3. Add/Delete a record.
4. Accept Product code and Product name.
5. Repeat steps 2 to 4 till pressing of ESC key.
6. Return to Main Menu.

Procedure Name : SUB_PRODUCT

Purpose : Data entry of sub biproduct of milk like Cream, Ghee, Badam pista Shrikhand, Amrakhand and Milk Powder etc.

Steps

1. Open SUBPROD file.
2. Display Headings of data required.
3. Add/Delete a record.
4. Accept Sub Product code and Sub Product name Retail price, Whole Sale Price etc.
5. Repeat steps 2 to 4 till pressing of ESC key.
6. Return to Main Menu.

Procedure Name : CUST_MASTER

Purpose : Data entry of Customer Details like Customer code, name, address, etc.

Steps

1. Open CUSTMST file.
2. Display Headings of data required.

3. Add/Delete a record.
4. Accept Customer code, name, address etc.
5. Repeat steps 2 to 4 till pressing of ESC key.
6. Return to Main Menu.

Procedure Name : MILK_ENTER

Purpose : Data entry of Daily demand of Milk.

Steps

1. Open MILK file.
2. Accept rate of milk per creat (10 ltrs.)
3. Display Headings of data required.
4. Add/Delete a record.
5. Accept Date, Root code, party code, quantity etc.
6. Repeat steps 2 to 5 till pressing of ESC key.
7. Return to Main Menu.

Procedure Name : PARTY_ENTER

Purpose : Data entry of Party details.

Steps

1. Open PARTYMST file.
2. Display Headings of data required.
3. Add/Delete a record.

4. Accept Party details.
5. Repeat steps 2 to 4 till pressing of ESC key.
6. Return to Main Menu.

Procedure Name : CUSTWISE_LEDG

Purpose : Printing of Customerwise sale of biproduct.

Steps

1. Open TRAN, MAINPROD, SUBPROD, CUSTMST file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print customerwise sale of biproduct till the given period.
5. Return to Main Menu.

Procedure Name : CASH_MEMO

Purpose : Printing of Cash memo for biproduct.

Steps

1. Open TRAN, MAINPROD, SUBPROD, CUSTMST file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print customerwise cash memo for biproduct till the given period.
5. Return to Main Menu.

Procedure Name : PRODWISE_LEDG

Purpose : Printing of sale biproductwise.

Steps

1. Open TRAN, MAINPROD, SUBPROD file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print biproductwise sales register till the given period.
5. Return to Main Menu.

Procedure Name : TRUCK_SHEET

Purpose : Printing of truck sheet for milk supply.

Steps

1. Open MILK, PARTYMST file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print truck sheet for milk supply till the given period.
5. Return to Main Menu.

Procedure Name : ABSTRACT

Purpose : Printing of abstract for milk sale.

Steps

1. Open MILK, PARTYMST file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print abstract for milk sale till the given period.
5. Return to Main Menu.

Procedure Name : DELIVERY_CHALLAN

Purpose : Printing of delivery challan for milk sale.

Steps

1. Open MILK, PARTYMST file.
2. Accept period as per date.
3. Select option 1 for screen output, 2 for printer.
4. Print delivery challan for milk sale till the given period.
5. Return to Main Menu.

```
set procedure to marinsys
set talk off
set status off
set confirm off
set safety off
set date brit
set delete on
set date brit
public pass
public pointer
store 1 to pointer
public custcode
public custname
public retailwh
public octroiyn
public screen_printer
store space(30) to filenm
declare screens[10]


*======== M A I N   P R O C E D U R E ============

       do install
       do open_screen
       do password
       do m_main

*================================================



*================================================
*      INSTALLATION
*================================================

procedure install

if  ! file("mainprod.dbf")
    create dummy
    store "P_CODE    N1  "  to field1
    store "P_PRODUCT C20 "  to field2

    for f = 1 to 2
        if f < 10
           store str(f,1) to count
        else
           store str(f,2) to count
        endif
        append blank
        store "Field" + count to fn
        replace field_name with substr(&fn,1,10)
        replace field_type with substr(&fn,11,1)
        replace field_len with val(substr(&fn,12,2))
        replace field_dec with val(substr(&fn,14,1))
    next
```

```
    create mainprod from dummy
    index on P_CODE to mainprod
    use
endif

if  ! file("subprod.dbf")
    create dummy
    store "S_CODE    N3  "  to field1
    store "S_PRODUCT C4  "  to field2
    store "S_UNIT    C4  "  to field3
    store "S_RETAIL  N6 2"  to field4
    store "S_WHOLE   N6 2"  to field5
    store "S_CUSTOMERN6 2"  to field6
    store "S_PK_QTY  N3  "  to field7
    store "S_OCTROI  N3 1"  to field8
    store "S_SALESTAXN3 1"  to field9
    for f = 1 to 9
        if f < 10
           store str(f,1) to count
        else
           store str(f,2) to count
        endif
        append blank
        store "Field" + count to fn
        replace field_name with substr(&fn,1,10)
        replace field_type with substr(&fn,11,1)
        replace field_len with val(substr(&fn,12,2))
        replace field_dec with val(substr(&fn,14,1))
    next
    create subprod from dummy
    index on S_CODE to subprod
    use
endif

if  ! file("custmst.dbf")
    create dummy
    store "CUST_CODE N3  "  to field1
    store "CUST_NAME C35 "  to field2
    store "CITY      C20 "  to field3
    store "ADD1      C30 "  to field4
    store "ADD2      C30 "  to field5
    store "RETAIL_WH C1  "  to field6
    store "OCTROI_YN C1  "  to field7
    for f = 1 to 7
        if f < 10
           store str(f,1) to count
        else
           store str(f,2) to count
        endif
        append blank
        store "Field" + count to fn
        replace field_name with substr(&fn,1,10)
        replace field_type with substr(&fn,11,1)
        replace field_len with val(substr(&fn,12,2))
        replace field_dec with val(substr(&fn,14,1))
```

```
    next
    create CUSTMST from dummy
    index on CUST_CODE to custmst
    use
endif


if  ! file("tran.dbf")
    create dummy
    store "T_DATE    D8  "  to field1
    store "T_MAIN_CD N1  "  to field2
    store "T_SUB_CD  N3  "  to field3
    store "T_CUST_CD N3  "  to field4
    store "T_QTY     N3  "  to field5
    store "T_RETAILWHC1  "  to field6
    store "T_RATE    N6 2"  to field7
    store "T_OCTROIYNC1  "  to field8
    store "T_OCTROI  N3 1"  to field9
    for f = 1 to 9
        if f < 10
           store str(f,1) to count
        else
           store str(f,2) to count
        endif
        append blank
        store "Field" + count to fn
        replace field_name with substr(&fn,1,10)
        replace field_type with substr(&fn,11,1)
        replace field_len with val(substr(&fn,12,2))
        replace field_dec with val(substr(&fn,14,1))
    next
    create TRAN from dummy
    use
endif


if  ! file("partymst.dbf")
    create dummy
    store "PARTY_CD  N3  "  to field1
    store "PARTY_NM  C40 "  to field2
    store "PARTY_ADD1C40 "  to field3
    store "PARTY_ADD2C40 "  to field4
    store "PARTY_ADD3C40 "  to field5
    for f = 1 to 5
        if f < 10
           store str(f,1) to count
        else
           store str(f,2) to count
        endif
        append blank
        store "Field" + count to fn
        replace field_name with substr(&fn,1,10)
        replace field_type with substr(&fn,11,1)
        replace field_len with val(substr(&fn,12,2))
        replace field_dec with val(substr(&fn,14,1))
```

```
        next
        create PARTYMST from dummy
        index on PARTY_CD to partymst
        use
    endif

    if  ! file("milk.dbf")
        create dummy
        store "M_DATE    D8  "  to field1
        store "M_ROOT_CD N2  "  to field2
        store "M_PARTY_CDN3  "  to field3
        store "M_AMT_DEPON7 2"  to field4
        store "M_RATE    N6 2"  to field5
        store "M_ONE_LTR N3  "  to field6
        store "M_HALF_LTRN3  "  to field7
        for f = 1 to 7
            if f < 10
               store str(f,1) to count
            else
               store str(f,2) to count
            endif
            append blank
            store "Field" + count to fn
            replace field_name with substr(&fn,1,10)
            replace field_type with substr(&fn,11,1)
            replace field_len with val(substr(&fn,12,2))
            replace field_dec with val(substr(&fn,14,1))
        next
        create MILK from dummy
        use
    endif

    return
    *================================================


    procedure m_main
    clea
    set scoreboard off
    *set wrap on
    set delete on
    public arry1[7],arry2[6],arry3[3],arry4[2]

    arry1[1]="Milk Sale           "
    arry1[2]="Party Master for Milk"
    arry1[3]="Product Sale        "
    arry1[4]="Customer Master     "
    arry1[5]="Sub Product Master  "
    arry1[6]="Main Product Master "
    arry1[7]="Change Product Sale "

    arry2[1]="Truck Sheet (Milk)  "
    arry2[2]="Delivery Challan    "
    arry2[3]="Abstract            "
    arry2[4]="Productwise Sales Reg "
```

```
arry2[5]="Customerwise Sales Reg"
arry2[6]="Cash Memo                "

arry3[1]="Sorting & Indexing  "
arry3[2]="Backup              "
arry3[3]="Restore             "

arry4[1]="   Yes   "
arry4[2]="   No    "

set message to 24 center
do while .t.
  CLEAR
  @ 0,0 TO 2,79 DOUBLE
  set color to /w
  @ 24,1 say
  ". Developed by R. S. Patil,                Under Guidance of Dr. R. V. Kulkarni .'
  set color to
  @ 1,5 prompt " Data Entry  "
  @ 1,23 prompt "   Reports   "
  @ 1,42 prompt "  Utilities  "
  @ 1,61 prompt "    Exit     "
menu to main

fld = "arry" + alltrim(str(main,1,0))
if lastkey() = 27
   close all
   clea
   quit
endif
do case
   case main = 0
        loop
   case main = 1
        row1 = 3
        col1 = 1
        row2 = 10
        col2 = 21
   case main = 2
        row1 = 3
        col1 = 19
        row2 = 9
        col2 = 39
   case main = 3
        row1 = 3
        col1 = 41
        row2 = 6
        col2 = 55
   case main = 4
        row1 = 3
        col1 = 60
        row2 = 5
        col2 = 74
endcase
```

```
save_scr = savescreen(row1,col1-1,row2+1,col2+1)

do while .t.
   @ row1,col1-1 clear to row2+1,col2+1
   @ row1,col1-1 to row2+1,col2+1
   set color to

   subchoice = achoice(row1+1,col1,row2,col2,&fld)
   set color to

   save screen to scrn1
      restscreen(row1,col1-1,row2+1,col2+1,save_scr)

   if lastkey() = 4 .and. main <> 4
      keyboard chr(4)+chr(13)
      exit
   endif

   if lastkey()=4 .and. main = 4
      keyboard chr(4)
      exit
   endif

   if lastkey()=19 .and. main <> 1
       keyboard chr(19)+chr(13)
       exit
   endif

   if lastkey()=19 .and. main = 1
      keyboard chr(19)
      exit
   endif

   if lastkey()=27
       close all
       clea
       quit
   endif
   set color to
   restore screen from scrn1
do case
   case main = 1
        do case
           case subchoice = 1
                save screen to screens[1]
                     do milk_enter
                restore screen from screens[1]
           case subchoice = 2
                save screen to screens[1]
                     do party_enter
                restore screen from screens[1]
           case subchoice = 3
                save screen to screens[1]
                     do tran_entry
                restore screen from screens[1]
```

```
        case subchoice = 4
             save screen to screens[1]
                  do cust_master
             restore screen from screens[1]
        case subchoice = 5
             save screen to screens[1]
                  do sub_product
             restore screen from screens[1]
        case subchoice = 6
             save screen to screens[1]
                  do main_product
             restore screen from screens[1]
        case subchoice = 7
             save screen to screens[1]
                  do change_tran
             restore screen from screens[1]
   endcase
case main = 2
     do case
        case subchoice = 1
             save screen to screens[1]
                  do truck_sheet
             restore screen from screens[1]
        case subchoice = 2
             save screen to screens[1]
                  do delivery_challan
             restore screen from screens[1]
        case subchoice = 3
             save screen to screens[1]
                  do abstract
             restore screen from screens[1]
        case subchoice = 4
             save screen to screens[1]
                  do prodwise_ledg
             restore screen from screens[1]
        case subchoice = 5
             save screen to screens[1]
                  do custwise_ledg
             restore screen from screens[1]
        case subchoice = 6
             save screen to screens[1]
                  do cash_memo
             restore screen from screens[1]
     endcase
case main = 3
     do case
        case subchoice = 1
             save screen to screens[1]
                  do sort_index
             restore screen from screens[1]
        case subchoice = 2
             save screen to screens[1]
                  do back_up
             restore screen from screens[1]
        case subchoice = 3
```

```
                save screen to screens[1]
                     do re_store
                restore screen from screens[1]
          endcase
     case main = 4
          do case
             case subchoice = 1
                 close all
                  clea
                      quit
             case subchoice = 2
          endcase
endcase
enddo
restore screen from scrn1
restscreen(row1,col1-1,row2+1,col2+1,save_scr)
enddo
return
* end of m_main.prg
*-------------------------------------
procedure password
clea
store 1 to x
store space(4) to pass
@ 17,24 to 19,53 double
@ 18,26 say "Enter Your Pass Word : "
do while .not. ("&pass" = "MARK" .OR."&pass" = "mark" .OR. ;
   "&PASS" = "M" .or. x = 4)
set consol off
set color to  / , / ,
   accept to  pass
x = x  + 1
enddo
set color to
if "&pass" = "9999" .or. x = 4
        close all
        quit
endif
return

*---------------------------------

procedure open_screen
clear

store ' ' to c
store 0 to opt, cnt, i, j, k
store 0 to lc1,lc2,lc3,lc4,lc5,lc6,lc7
store 0 to cc1,cc2,cc3,cc4,cc5,cc6,cc7

declare x[80]
store 'D' to x[01]
store 'e' to x[02]
store 'v' to x[03]
store 'e' to x[04]
```

```
store 'l' to x[05]
store 'o' to x[06]
store 'p' to x[07]
store 'e' to x[08]
store 'd' to x[09]
store ' ' to x[10]
store 'B' to x[11]
store 'y' to x[12]
store ' ' to x[13]
store 'R' to x[14]
store '.' to x[15]
store 'S' to x[16]
store '.' to x[17]
store 'P' to x[18]
store 'a' to x[19]
store 't' to x[20]
store 'i' to x[21]
store 'l' to x[22]
store ' ' to x[23]
store 'U' to x[24]
store 'n' to x[25]
store 'd' to x[26]
store 'e' to x[27]
store 'r' to x[28]
store ' ' to x[29]
store 'G' to x[30]
store 'u' to x[31]
store 'i' to x[32]
store 'd' to x[33]
store 'a' to x[34]
store 'n' to x[35]
store 'c' to x[36]
store 'e' to x[37]
store ' ' to x[38]
store 'o' to x[39]
store 'f' to x[40]
store ' ' to x[41]
store 'D' to x[42]
store 'r' to x[43]
store '.' to x[44]
store 'R' to x[45]
store '.' to x[46]
store 'V' to x[47]
store '.' to x[48]
store 'K' to x[49]
store 'u' to x[50]
store 'l' to x[51]
store 'k' to x[52]
store 'a' to x[53]
store 'r' to x[54]
store 'n' to x[55]
store 'i' to x[56]
i = 57
do while i <= 80
   store chr(177) to x[i]
```

```
   i = i + 1
enddo

*---------------------------------------*
*Open Screen                            *
*---------------------------------------*
clear
store 40 to cc1,cc2
@1,cc1 to 23,cc2 double
do while .t.
   cc1 = cc1 - 1
   cc2 = cc2 + 1
   cc3 = 0
   cnt = 0
   do while cnt <= 50
      cnt = cnt + 1
   enddo
   if cc1 = 0
      exit
   endif
   @2,cc1+1 clear to 22,cc2-1
   @1,cc1   to 23,cc2 double
enddo
set colo to w+
@1,15 say "      Marketing Information System       "
set colo to 7
lc1 = 2
cc1 = 2
lc2 = 22
cc2 = 4

lc3 = 12
cc3 = 36

lc4 = 2
cc4 = 38
lc5 = 22
cc5 = 40

lc6 = 2
cc6 = 72
lc7 = 22
cc7 = 74
set colo to n/w
j = 79
i = 0
do while j > 0
   k = j
   do while .t.
      i = i + 1
      @23,k say x[i]
      k = k + 1
      if k = 80
         i = 0
         j = j - 1
```

```
         exit
      endif
   enddo
enddo
set colo to w/n
set colo to w+
do while .t.
   @lc1,cc1 say 'M'
   lc1 = lc1 + 1
   cc1 = cc1 + 3
   @lc2,cc2 say 'A'
   lc2 = lc2 - 1
   cc2 = cc2 + 3

   @lc4,cc4 say 'R'
   lc4 = lc4 + 1

   @lc3,cc3 say 'I'

   @lc5,cc5 say 'N'
   lc5 = lc5 - 1

   @lc6,cc6 say 'F'
   lc6 = lc6 + 1
   cc6 = cc6 - 3
   @lc7,cc7 say 'O'
   lc7 = lc7 - 1
   cc7 = cc7 - 3
   cnt = 0
   do while cnt <= 50
      cnt = cnt + 1
   enddo
   if lc1 = 12
      set colo to w+
   endif
   if lc1 = 13
      exit
   endif
   @lc1-1,cc1-3 clear to lc1-1,cc1-3
   @lc2+1,cc2-3 clear to lc2+1,cc2-3
   @lc4-1,cc4   clear to lc4-1,cc4
   @lc5+1,cc5   clear to lc5+1,cc5
   @lc6-1,cc6+3 clear to lc6-1,cc6+3
   @lc7+1,cc7+3 clear to lc7+1,cc7+3
enddo
@ 12,18 say "    MARKETING INFORMATION SYSTEM    "
set colo to 7

? inkey(5)
set color to
clear
return
**=======================================**
**                                       **
**       DATA ENTRY                      **
```

```
**                                        **
**========================================**
procedure main_product
   sele 1
   use mainprod index mainprod
   go bott
   declare fields[2], h_fields[2]
   fields[1] = "P_CODE"
   fields[2] = "P_PRODUCT"
   h_fields[1] = "Code"
   h_fields[2] = "Description"
   clea
   @ 1,0 to 23,79
   @ 0,27 to 2,59 double
   set color to +w
   @ 1, 28 say " Main Product Data Entry Menu "
   set color to /w
   @ 24,1 say
    ". Developed by R. S. Patil,              Under Guidance of Dr. R. V. Kulkarni .'
   set color to
   @ 4,1 to 19,78
   dbedit(5, 2, 18, 77, fields, "MastFunc", .T.,h_fields, .T., .T., "MOM")
clea
index on P_CODE to mainproduct
pack
close all
return

FUNCTION MastFunc
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE MODE = 2 .OR. MODE = 3
        tone(1000,5)
        set color to /w
        yesno = " "
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Add New Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           store P_CODE to code
           code = code + 1
           appe blank
           replace P_CODE with code
        endif
        RETURN 1
   CASE LASTKEY() = 27
        RETURN 0
   CASE LASTKEY() = 13
        set cursor on
```

```
        @ ROW(), COL() GET &cur_field
          READ
          set cursor off
          RETURN 1
    CASE LASTKEY() = 7
        tone(5000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           delete
        endif
        RETURN 1
     OTHERWISE
           RETURN 1
ENDCASE
RETURN 1
*---------------------------
procedure sub_product
   sele 2
   use subprod index subprod
   go bott
   declare fields[9], h_fields[9]
   fields[1] = "S_CODE"
   fields[2] = "S_PRODUCT"
   fields[3] = "S_UNIT"
   fields[4] = "S_RETAIL"
   fields[5] = "S_WHOLE"
   fields[6] = "S_CUSTOMER"
   fields[7] = "S_PK_QTY"
   fields[8] = "S_OCTROI"
   fields[9] = "S_SALESTAX"
   h_fields[1] = "Code"
   h_fields[2] = "Product "
   h_fields[3] = "Unit"
   h_fields[4] = "Retail Price"
   h_fields[5] = "Whole Sale Price"
   h_fields[6] = "Customer Price"
   h_fields[7] = "Paking Quantity"
   h_fields[8] = "Octroi Y/N"
   h_fields[9] = "Sales Tax Y/N"
   clea
   @ 1,0 to 23,79
   @ 0,27 to 2,58 double
   set color to +w
   @ 1, 28 say " Sub Product Data Entry Menu "
   set color to /w
   @ 24,1 say
   ". Developed by R. S. Patil,                Under Guidance of Dr. R. V. Kulkarni ."
   set color to
```

```
   @ 4,1 to 19,78
   dbedit(5, 2, 18, 77, fields, "SubFunc", .T.,h_fields, .T., .T., "MOM")
index on S_CODE to subprod
clea
pack
close all
return

FUNCTION SubFunc
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE MODE = 2 .OR. MODE = 3
        tone(1000,5)
        set color to /w
        yesno = " "
        @ 20,19 to 22,58 double
        @ 21, 20 say "Do You Want to Add New Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           store S_code to code
           code = code + 1
           appe blank
           replace S_CODE with code
        endif
        RETURN 1
   CASE LASTKEY() = 27
        RETURN 0
   CASE LASTKEY() = 13
        set cursor on
        @ ROW(), COL() GET &cur_field
          READ
          set cursor off
          if "&cur_field" = "S_SALESTAX"
             KEYBOARD CHR(19)+CHR(19)+CHR(19)+CHR(19)+;
             CHR(19)+CHR(19)+CHR(19)+CHR(19)+chr(24)
          else
             KEYBOARD CHR(4)
          endif
          RETURN 1
   CASE LASTKEY() = 7
        tone(5000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
```

```
            delete
          endif
          RETURN 1
      OTHERWISE
            RETURN 1
ENDCASE
RETURN I
*---------------------------
procedure cust_master
   sele 3
   use custmst index custmst
   go bott
   declare fields[7], h_fields[7]
   fields[1] = "CUST_CODE"
   fields[2] = "CUST_NAME"
   fields[3] = "CITY"
   fields[4] = "ADD1"
   fields[5] = "ADD2"
   fields[6] = "RETAIL_WH"
   fields[7] = "OCTROI_YN"
   h_fields[1] = "No."
   h_fields[2] = "Name of the Customer"
   h_fields[3] = "City"
   h_fields[4] = "Address 1"
   h_fields[5] = "Address 2"
   h_fields[6] = "Retail/Whole Saler W/H"
   h_fields[7] = "Octroi Y/N"
   clea
   @ 1,0 to 23,79
   @ 0,27 to 2,55 double
   set color to +w
   @ 1, 28 say " Customer Data Entry Menu "
   set color to /w
   @ 24,1 say
   ". Developed by R. S. Patil,              Under Guidance of Dr. R. V. Kulkarni ."
   set color to
   @ 4,1 to 19,78
   dbedit(5, 2, 18, 77, fields, "CustFunc", .T.,h_fields, .T., .T., "MOM")
clea
index on CUST_CODE to custmst
pack
close all
return

FUNCTION CustFunc
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE MODE = 2 .OR. MODE = 3
        tone(1000,5)
        set color to /w
        yesno = " "
        @ 20,19 to 22,58 double
```

```
        @ 21, 20 say "Do You Want to Add New Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           store CUST_CODE to code
           code = code + 1
           appe blank
           replace CUST_CODE with code
        endif
        RETURN 1
    CASE LASTKEY() = 27
        RETURN 0
    CASE LASTKEY() = 13
        set cursor on
          if "&cur_field" = "RETAIL_WH"
             @ ROW(), COL() GET &cur_field pict "!"
               valid (&cur_field = "R" .or. &cur_field = "W")
          endif
          if "&cur_field" = "OCTROI_YN"
             @ ROW(), COL() GET &cur_field pict "!"
             valid (&cur_field = "Y" .or. &cur_field = "N")
          else
             @ ROW(), COL() GET &cur_field
          endif
          read
          set cursor off
          if "&cur_field" = "OCTROI_YN"
             KEYBOARD CHR(19)+CHR(19)+CHR(19)+CHR(19)+CHR(19)+CHR(19)+CHR(19)+chr(24)
          else
             KEYBOARD CHR(4)
          endif
          RETURN 1
    CASE LASTKEY() = 7
        tone(5000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           delete
        endif
        RETURN 1
     OTHERWISE
            RETURN 1
ENDCASE
RETURN 1
*---------------------------
procedure main_select
   KEYBOARD CHR(5)
   sele 3
```

```
   use custmst
   go pointer+1
   if eof()
      go bott
      skip
   endif
   declare fields[1], h_fields[1]
   fields[1] = "CUST_NAME"
   h_fields[1] = " Select Customer "
   @ 3,2 to 20,38
   dbedit(4, 3, 19, 37, fields, "MainSel", .T.,h_fields, .T., .T., "MOM")
close all
return

FUNCTION MainSel
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE LASTKEY() = 27
        custcode = 0
        custname = space(25)
        retailwh = space(1)
        octroiyn = space(1)
        RETURN 0
   CASE LASTKEY() = 13
        custcode = CUST_CODE
        custname = CUST_NAME
        retailwh = RETAIL_WH
        octroiyn = OCTROI_YN
        skip
        pointer = recno()
        RETURN 0
    OTHERWISE
           RETURN 1
ENDCASE
RETURN 1
*---------------------------
procedure tran_entry
clea
store date() to dt
@ 0,1 to 23,79 double
set color to /w
@ 0,25 say " Transaction Data Entry Menu "
set color to
set color to /w
@ 24,1 say
". Developed by R. S. Patil,              Under Guidance of Dr. R. V. Kulkarni ."
set color to
store 0 to m,n,cd

*sele 4
*use tran
```

```
SET CONSOL ON
sele 1
use mainprod
count to n
go top
declare mprod[n],mcode[n]
for i = 1 to n
    store space(20) to mprod[i]
    mprod[i] = P_PRODUCT
    mcode[i] = P_CODE
    sele 1
    skip
next i

sele 2
use subprod
count to m
go top
declare sprod[m],scode[m],sunit[m],spkqty[m],row[25],qty[m]
for i = 1 to m
    sprod[i] = S_PRODUCT
    scode[i] = S_CODE
    sunit[i] = S_UNIT
    spkqty[i] = S_PK_QTY
    sele 2
    skip
next i

pcode = 0
ln = 3
for i = 1 to m
    cd = val(substr(str(scode[i],3),1,1))
    if pcode <> cd
*       ln = ln + 1
       @ ln,41 say mprod[cd]
       pcode = cd
    endif
    @ ln,62 say sprod[i]
    @ ln,66 say sunit[i]
    row[i] = ln
    qty[i] = 0
    ln = ln + 1
next i


do while .t.
   if lastkey() = 27
      exit
   endif
   do main_select
   set color to w+
   @ 2,4 say custname
   set color to
   @ 2,41 say "Enter Date  :             " get dt
   for i = 1 to m
```

```
        @ row[i],75 get qty[i] pict "##"
        *valid(qty[i] = 0 .or. (int(qty[i]/spkqty[i])*spkqty[i] = qty[i]) )
        @ row[i],70 say spkqty[i]
    next i
    read

    if lastkey() = 27
       exit
    endif

    tone(1000,5)
    set color to /w
    yesno = " "
    @ 20,19 to 22,40 double
    @ 21, 20 say "Are You Sure (Y/N) "get yesno pict "!"
    set color to
    read
    @ 20,19 clear to 22,40
    if yesno = "Y"  .or. yesno = "y"
       sele 2
       use subprod index subprod
       for i = 1 to m
*           if qty[i] > 0
              sele 2
              seek scode[i]
              if found()
                 sele 4
                 use tran
                 appe blank
                 sele 2
                 if retailwh = "R"
                    replace tran->T_RETAILWH with retailwh
                    replace tran->T_RATE with S_RETAIL
                 else
                    replace tran->T_RETAILWH with retailwh
                    replace tran->T_RATE with S_WHOLE
                endif
                if octroiyn = "Y"
                   replace tran->T_OCTROI with S_OCTROI
                endif
                replace tran->T_DATE with dt
                replace tran->T_MAIN_CD with val(substr(str(scode[i],3),1,1))
                replace tran->T_SUB_CD with scode[i]
                replace tran->T_CUST_CD with custcode
                replace tran->T_QTY with qty[i]
                replace tran->T_OCTROIYN with octroiyn
              endif
*          endif
       next i
    endif

enddo
close all
clea
return
```

```
*-------------
procedure change_tran
   sele 4
   use tran
   go bott
   declare fields[9], h_fields[9]
   fields[1] = "T_DATE"
   fields[2] = "T_MAIN_CD"
   fields[3] = "T_SUB_CD"
   fields[4] = "T_CUST_CD"
   fields[5] = "T_QTY"
   fields[6] = "T_RETAILWH"
   fields[7] = "T_RATE"
   fields[8] = "T_OCTROIYN"
   fields[9] = "T_OCTROI"
   h_fields[1] = "Date "
   h_fields[2] = "MainCd "
   h_fields[3] = "SubCd "
   h_fields[4] = "CustCd"
   h_fields[5] = "Qty."
   h_fields[6] = "Retail./Whole Saler"
   h_fields[7] = "Rate"
   h_fields[8] = "Octroi Y/N"
   h_fields[9] = "Octroi %"
   @ 4,22 to 19,79
   dbedit(5, 23, 18, 78, fields, "SubSel", .T.,h_fields, .T., .T., "MOM")
set filter to
close all
return

FUNCTION SubSel
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE LASTKEY() = 27
        RETURN 0
   CASE LASTKEY() = 13
        set cursor on
          if "&cur_field" = "T_RETAILWH"
             @ ROW(), COL() GET &cur_field pict "!"
             valid (&cur_field = "R" .or. &cur_field = "W")
          endif
          if "&cur_field" = "T_OCTROIYN"
             @ ROW(), COL() GET &cur_field pict "!"
            valid (&cur_field = "Y" .or. &cur_field = "N")
          else
             @ ROW(), COL() GET &cur_field
          endif
          read
          set cursor off
          RETURN 1
   CASE LASTKEY() = 7
        tone(5000,5)
```

```
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           delete
        endif
        RETURN 1
    OTHERWISE
           RETURN 1
ENDCASE
RETURN 1
*----------------------------
procedure party_enter
   sele 1
   use partymst index partymst
   go bott
   declare fields[5], h_fields[5]
   fields[1] = "PARTY_CD"
   fields[2] = "PARTY_NM"
   fields[3] = "PARTY_ADD1"
   fields[4] = "PARTY_ADD2"
   fields[5] = "PARTY_ADD3"
   h_fields[1] = "Party Code"
   h_fields[2] = "Party Name"
   h_fields[3] = "Address 1"
   h_fields[4] = "Address 2"
   h_fields[5] = "Address 3"
   set color to /w
   @ 24,1 say
   ". Developed by R. S. Patil,              Under Guidance of Dr. R. V. Kulkarni ."
   set color to
   @ 10,0 to 19,79
   dbedit(11, 1, 18, 78, fields, "PartyFunc", .T.,h_fields, .T., .T., "MOM")
index on PARTY_CD to partymst
close all
return

FUNCTION PartyFunc
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE MODE = 2 .OR. MODE = 3
        tone(1000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
        "Do You Want to Add New Record (Y/N) "get yesno pict "!"
```

```
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           store PARTY_CD to code
           code = code + 1
           appe blank
           replace PARTY_CD with code
        endif
        RETURN 1
   CASE LASTKEY() = 27
        RETURN 0
   CASE LASTKEY() = 13
        set cursor on
        @ ROW(), COL() GET &cur_field
        READ
        set cursor off
        if "&cur_field" = "PARTY_ADD3"
            KEYBOARD CHR(19)+CHR(19)+CHR(19)+CHR(19)+CHR(24)
         else
            KEYBOARD CHR(4)
         endif
         RETURN 1
   CASE LASTKEY() = 7
        tone(5000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
       "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,58
        if yesno = "Y"  .or. yesno = "y"
           delete
        endif
        RETURN 1
    OTHERWISE
           RETURN 1
ENDCASE
RETURN 1
*---------------------------
procedure milk_enter
   sele 2
   use milk
   go bott
   clea
   public rate
   store 0 to rate
   @ 5,30 say "Enter Rate Per Creat (10 ltr) " get rate pict "###.##"
   read
   clea
   declare fields[7], h_fields[7]
   fields[1] = "M_DATE"
   fields[2] = "M_ROOT_CD"
```

```
   fields[3] = "M_PARTY_CD"
   fields[4] = "M_AMT_DEPO"
   fields[5] = "M_RATE"
   fields[6] = "M_ONE_LTR"
   fields[7] = "M_HALF_LTR"
   h_fields[1] = "Date"
   h_fields[2] = "Root Code"
   h_fields[3] = "Party Code"
   h_fields[4] = "Amount Depo."
   h_fields[5] = "Rate"
   h_fields[6] = "1 ltr"
   h_fields[7] = "1/2 ltr"
   set color to /w
   @ 24,1 say
   ". Developed by R. S. Patil,              Under Guidance of Dr. R. V. Kulkarni ."
   set color to
   @ 10,0 to 19,79
   dbedit(11, 1, 18, 78, fields, "MilkFunc", .T.,h_fields, .T., .T., "MOM")
close all
return

FUNCTION MilkFunc
PARAMETERS mode, fld_ptr
PRIVATE cur_field,code
cur_field = fields[fld_ptr]
keystroke = LASTKEY()
DO CASE
   CASE MODE = 2 .OR. MODE = 3
        tone(1000,5)
        set color to /w
        yesno = "Y"
        @ 20,19 to 22,58 double
        @ 21, 20 say
       "Do You Want to Add New Record (Y/N) "get yesno pict "!"
        set color to
        read
        @ 20,19 clear to 22,60
        if yesno = "Y"  .or. yesno = "y"
           store M_DATE to dt
           store M_ROOT_CD to rootcd
           appe blank
           replace M_DATE with dt
           replace M_RATE with rate
           replace M_ROOT_cd with rootcd
        endif
        RETURN 1
   CASE LASTKEY() = 27
        RETURN 0
   CASE LASTKEY() = 13
        set cursor on
        if "&cur_field" <> "M_ONE_LTR" .or.  "&cur_field" <> "M_HALF_LTR"
            @ ROW(), COL() GET &cur_field
            READ
        endif
        set cursor off
```

```
      if "&cur_field" = "M_PARTY_CD"
         store M_PARTY_CD to code
         sele 1
         use partymst index partymst
         seek code
         if found()
            tone(3000,5)
            set color to /w
            yesno = " "
            @ 20,19 to 22,58 double
            @ 21, 20 say PARTY_NM get yesno
           set color to
           read
           @ 20,19 clear to 22,58
         else
            tone(6000,6)
            set color to /w
            yesno = " "
            @ 20,19 to 22,58 double
            @ 21, 20 say "Party Name not found" get yesno
           set color to
           read
           @ 20,19 clear to 22,60

         endif
         set index to
         sele 2
      endif
      if "&cur_field" = "M_RATE" .or. "&cur_field" = "M_AMT_DEPO"
          if M_RATE > 0 .and. M_AMT_DEPO > 0
             replace M_ONE_LTR with (int(M_AMT_DEPO/M_RATE) * 60)/100
             replace M_HALF_LTR with (int(M_AMT_DEPO/M_RATE) - M_ONE_LTR )
             KEYBOARD CHR(19)+CHR(19)+CHR(19)+CHR(19)+CHR(24)
          else
             KEYBOARD CHR(4)
          endif
       else
          KEYBOARD CHR(4)
       endif
       RETURN 1
CASE LASTKEY() = 7
      tone(5000,5)
      set color to /w
      yesno = " "
      @ 20,19 to 22,58 double
      @ 21, 20 say
      "Do You Want to Delete This Record (Y/N) "get yesno pict "!"
      set color to
      read
      @ 20,19 clear to 22,60
      if yesno = "Y"  .or. yesno = "y"
         delete
      endif
      RETURN 1
 OTHERWISE
```

```
          RETURN 1
ENDCASE
RETURN 1
*---------------------------


*****************************************************
**                                                 **
**                  REPORTS                        **
**                                                 **
*****************************************************


procedure custwise_ledg
clea
store date() to sdt,edt
store 0 to lct,amt,rqty,qty,tot,totamt,rtot
@ 12,20 to 14,70 double
@ 13,21 say "Starting Date : "
@ 13,45 say "Ending Date : "
@ 13,37 get sdt
@ 13,59 get edt
read
screen_printer = 0
@ 15,35 to 18,55
@ 16,40 prompt "SCREEN"
@ 17,40 prompt "PRINTER"
menu to screen_printer
if screen_printer = 2
   set print on
endif
sele 2
use subprod
count to m
go top
declare sprod[m],scode[m],totqty[m]
for i = 1 to m
    sprod[i] = S_PRODUCT
    scode[i] = S_CODE
    totqty[i] = 0
    sele 2
    skip
next i

sele 4
use tran
copy to tranl for sdt >= T_DATE .and. edt <= T_DATE
sele 5
use tranl

   if lct = 0
      ?chr(15)+space(70)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
      ?space(85)+"Marketing Department GOKUL"
      ?space(70)+"Shrikhand, Ghee, Table Butter, Milk Powder sales List"
```

```
?replicate("-",210)
?"Sr. Name of the Customer"+space(15)
sele 1
use mainprod
do while .not. eof()
  sele 1
  ??P_PRODUCT+space(6)
  skip
enddo

?space(39)
sele 2
use subprod
go top
counter = 0
pcode = 1
do while .not. eof()
   sele 2
   if val(substr(str(S_CODE,3),1,1)) = pcode
      ??S_PRODUCT
      counter = counter + 4
   else
      if counter < 20
         ??space(20-counter)
      endif
      ??"      "
      ??S_PRODUCT
      counter = 4
      pcode = val(substr(str(S_CODE,3),1,1))
   endif
   skip
enddo
?space(39)
sele 2
use subprod
go top
counter = 0
pcode = 1
do while .not. eof()
   sele 2
   if val(substr(str(S_CODE,3),1,1)) = pcode
      ??S_UNIT
      counter = counter + 4
   else
      if counter < 20
         ??space(20-counter)
      endif
      ??"ToT   "
      ??S_UNIT
      counter = 4
      pcode = val(substr(str(S_CODE,3),1,1))
   endif
   skip
enddo
```

```
   ??space(20-counter)+" Tot   Amount"

endif

   ?replicate("-",210)

   sele 5
   go top
   pcust_cd = T_CUST_CD
   ccust_cd = T_CUST_CD

   do while .not. eof()
      sele 5
      ccust_cd = T_CUST_CD
      ?str(T_CUST_CD,3)+" "
      sele 3
      use custmst index custmst
      seek ccust_cd
      if found()
         ??CUST_NAME
      else
         ??space(35)
      endif
      sele 5
      prvcd = T_MAIN_CD
      counter = 0
      pcust_cd = T_CUST_CD

      for i = 1 to m
          sele 5
          if T_SUB_CD = scode[i] .and. pcust_cd = T_CUST_CD
             if T_QTY > 0
                ??" "+str(T_QTY,2)+" "
                totqty[i] = totqty[i] + T_QTY
             else
                ??" -- "
             endif
             tot = tot + T_QTY
             amt = amt + T_QTY*T_RATE
             counter = counter + 4
             skip
             if prvcd <> T_MAIN_CD
                prvcd = T_MAIN_CD
                if counter < 20
                   ??space(20-counter)
                   counter = 0
                endif
                if tot > 0
                   ??str(tot,3)+"   "
                else
                   ??" --   "
                endif
                rtot = rtot + tot
                store 0 to tot
             endif
```

```
            else
               if prvcd <> T_MAIN_CD
                  prvcd = T_MAIN_CD
                  if counter < 20
                     ??space(20-counter)
                     counter = 0
                  endif
                  if tot > 0
                     ??str(tot,3)+"   "
                  else
                     ??" --   "
                  endif
                  rtot = rtot + tot
                  store 0 to tot
               else
                  ??" -- "
                  counter = counter + 4
               endif
            endif
         next i
         ??str(amt,8,2)
         totamt = totamt + amt
         store 0 to amt
      enddo
?replicate("-",210)
if screen_printer = 2
   ?space(39)
   pcode = 1
   for i = 1 to m
       if val(substr(str(scode[i],3),1,1)) = pcode
          ??str(totqty[i],3)+" "
          counter = counter + 4
       else
          ??space(20-counter)+"      "+str(totqty[i],3)+" "
          pcode = val(substr(str(scode[i],3),1,1))
          counter = 4
       endif
   next i
   ??space(20-counter)+"     "+str(totamt,9,2)
   ?replicate("-",210)
   ?
   ?
   ?"Entered by                  Checked By        Senior Marketing Officer"
   eject
   set print off
endif
close all
clea
return
*-------------
procedure cash_memo
clea
set consol on
store date() to sdt,edt
store 0 to custcd
```

```
@ 12,20 to 14,70 double
@ 13,21 say "Starting Date : "
@ 13,45 say "Ending Date : "
@ 15,21 say "Enter Customer Code 0 for Exit 999 for All Customers "
@ 13,37 get sdt
@ 13,59 get edt
@ 16,55 get custcd pict "###"
read
screen_printer = 0
@ 16,40 to 19,50
@ 17,41 prompt "SCREEN  "
@ 18,41 prompt "PRINTER "
menu to screen_printer
if screen_printer = 2
   set print on
endif

sele 4
use tran
if custcd = 999
   sort on t_date,t_cust_cd,t_main_cd,t_sub_cd to
             tranl for sdt >= T_DATE .and. edt <= T_DATE
else
   sort on t_date,t_cust_cd,t_main_cd,t_sub_cd to
        tranl for sdt >= T_DATE .and. edt <= T_DATE .and. custcd = T_CUST_CD
endif
sele 5
use tranl
store 0 to totamt,pcode,pcustcd,sr
store ctod("  /  /  ") to pdate
do while .not. eof()
   sele 5
   ?space(15)+"               C A S H    M E M O"
   ?space(15)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
   ?space(15)+"          B 1 M.I.D.C., Gokul Shirgaon"
   ?
   ?" GOKUL           No.                                    Date : "
   ??dtoc(T_DATE)
   ?
   ?"Name of the Customer :"

   pdate = T_DATE
   pcode = T_SUB_CD
   pcustcd = T_CUST_CD

   sele 3
   use custmst index custmst
   seek pcustcd
   if found()
      ??str(CUST_CODE,3)+"  "+CUST_NAME
   endif

   ?replicate("-",70)
   ?"Sr.No. Particular                                Qty.  Rate     Amount"
   ?replicate("-",70)
```

```
   sele 5
   do while pcustcd = T_CUST_CD
      sele 5
      pcode = T_SUB_CD
      pmain = T_MAIN_CD

      if T_QTY > 0
         sele 1
         use mainprod
         locate for P_CODE = pmain
         sr = sr + 1
         if found()
            ?str(sr,2)+") "+P_PRODUCT+"  "
         else
            ?"ERROR"
         endif

         sele 2
         use subprod
         locate for S_CODE = pcode
         if found()
            ??S_PRODUCT+" "+S_UNIT+space(5)+space(7)
         else
            ??"ERROR"
         endif
         sele 5
         ??str(T_QTY,2)+space(2)+str(T_RATE,6,2)+;
          space(3)+str((T_QTY*T_RATE),8,2)
         totamt = totamt + (T_QTY*T_RATE)
      endif
      skip
   enddo

   ?replicate("-",70)
   ?space(49)+"Total Rs. "+str(totamt,9,2)
   ?replicate("-",70)

   if screen_printer = 2
      eject
   endif

enddo
   if screen_printer = 2
      eject
      set print off
   endif

close all
clea
return
*------------
procedure Prodwise_ledg
clea
```

```
set consol on
store date() to sdt,edt
store 0 to custcd
@ 12,20 to 14,70 double
@ 13,21 say "Starting Date : "
@ 13,45 say "Ending Date : "
@ 13,37 get sdt
@ 13,59 get edt
read
screen_printer = 0
@ 16,40 to 19,50
@ 17,41 prompt "SCREEN  "
@ 18,41 prompt "PRINTER "
menu to screen_printer
if screen_printer = 2
   set print on
endif

sele 4
use tran
sort on t_date,t_main_cd,t_sub_cd to tranl
        for  sdt >= T_DATE .and. edt <= T_DATE

sele 5
use tranl
store 0 to totamt,pmaincd,pcode,pcustcd,sr,lct,prate,pmain,tqty
store ctod("  /  /  ") to pdate

do while .not. eof()
   sele 5
   if lct = 0
      ?space(15)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
      ?space(15)+"          B 1 M.I.D.C., Gokul Shirgaon"
      ?space(15)+"       Daily Productwise Sales Register          Date : "
      if sdt = edt
         ??dtoc(sdt)
      else
         ??dtoc(sdt)+"  To "+dtoc(edt)
      endif
      ?replicate("-",70)
      ?"Sr.No. Particular                                  Qty.  Rate     Amount"
      ?replicate("-",70)
      lct = 7
   endif

   pdate = T_DATE
   pcode = T_SUB_CD
   pcustcd = T_CUST_CD
   pmain   = T_MAIN_CD

   store space(21) to mainnm,psubnm

   sele 1
   use mainprod
   locate for P_CODE = pmain
```

```
   if found()
      store P_PRODUCT to mainnm
   endif

   sele 2
   use subprod
   locate for S_CODE = pcode
   if found()
      psubnm = S_PRODUCT+" "+S_UNIT+space(5)+space(7)
   endif

   sele 5
   prate = T_RATE

   do while pcode = T_SUB_CD
      sele 5
      tqty = tqty + T_QTY
      skip
   enddo

   if tqty > 0
      ?mainnm+psubnm+space(7)+str(tqty,3)+"  "+;
       str(prate,6,2)+"  "+str(tqty*prate,9,2)
      totamt = totamt + (tqty*prate)
      lct = lct + 1
      store 0 to tqty
   endif

   if lct > 60
      lct = 0
      if screen_print = 2
         eject
      endif
   endif

enddo

   ?replicate("-",70)
   ?space(50)+"Total Rs.  "+str(totamt,9,2)
   ?replicate("-",70)
   if screen_printer = 2
      eject
      set print off
   endif

close all
clea
return
*------------
procedure truck_sheet
clea
set consol on
store date() to sdt,edt
store 0 to custcd
@ 12,20 to 14,70 double
```

```
@ 13,21 say "Starting Date : "
@ 13,45 say "Ending Date : "
@ 13,37 get sdt
@ 13,59 get edt
read
screen_printer = 0
@ 16,40 to 19,50
@ 17,41 prompt "SCREEN  "
@ 18,41 prompt "PRINTER "
menu to screen_printer
if screen_printer = 2
   set print on
endif

sele 2
use milk
sort on M_DATE,M_ROOT_CD,M_PARTY_CD to
        milk1 for  sdt >= M_DATE .and. edt <= M_DATE

sele 5
use milk1
store 0 to totamt,one_ltr,half_ltr,root_cd,partycd,tot_one,tot_half,lct
store ctod("  /  /  ") to pdate
root_cd = M_ROOT_CD
pdate = M_DATE
do while .not. eof()
   sele 5

   partycd = M_PARTY_CD

   if root_cd <> M_ROOT_CD .or. pdate <> M_DATE
      root_cd = M_ROOT_CD
      pdate = M_DATE
      lct = 0
      if screen_printer = 2
         eject
      endif
   endif

   if lct = 0
      ?space(15)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
      ?space(15)+"          B 1 M.I.D.C., Gokul Shirgaon"
      ?"Root Code "+str(root_cd,2)
      ?space(15)+"               TRUCK SHEET         "
      if sdt = edt
         ??"Date : "+dtoc(sdt)
      else
         ??"Dated : "+dtoc(sdt)+"  To "+dtoc(edt)
      endif
      ?replicate("-",79)
      ?"Centre Cd Centre Name                                  Amt.Depo. 1 ltr. 1/2 ltr.Rat
      ?replicate("-",79)
      lct = 7
   endif
```

```
      sele 1
      use partymst index partymst
      seek partycd
      if found()
         ?str(partycd,3)+space(7)+PARTY_NM
      else
         ?str(partycd,3)+space(7)+space(40)
      endif

      sele 5
      ??str(M_AMT_DEPO,9,2)+"    "+str(M_ONE_LTR,3)+"    "+;
        str(M_HALF_LTR,3)+"  "+str(M_RATE,6,2)

      totamt = totamt + M_AMT_DEPO
      tot_one = tot_one + M_ONE_LTR
      tot_half = tot_half + M_HALF_LTR


      if lct > 60
         lct = 0
         if screen_print = 2
            eject
         endif
      endif

      skip

   enddo

      ?replicate("-",79)
      ?space(40)+"Total      "+str(totamt,9,2)+"    "+;
       str(tot_one,4)+"    "+str(tot_half,4)
      ?replicate("-",79)
      if screen_printer = 2
         eject
         set print off
      endif

   close all
   clea
   return
   *------------
   procedure abstract
   clea
   set consol on
   store date() to sdt,edt
   store 0 to custcd
   @ 12,20 to 14,70 double
   @ 13,21 say "Starting Date : "
   @ 13,45 say "Ending Date : "
   @ 13,37 get sdt
   @ 13,59 get edt
   read
   screen_printer = 0
```

```
@ 16,40 to 19,50
@ 17,41 prompt "SCREEN  "
@ 18,41 prompt "PRINTER "
menu to screen_printer
if screen_printer = 2
   set print on
endif

sele 2
use milk
sort on M_PARTY_CD,M_DATE to milk1 for  sdt >= M_DATE .and. edt <= M_DATE

sele 5
use milk1
store 0 to totamt,partycd,lct,balance
store ctod("  /  /  ") to pdate
root_cd = M_ROOT_CD
partycd = M_PARTY_CD

do while .not. eof()
   sele 5

   if partycd <> M_PARTY_CD
      partycd = M_PARTY_CD
      ?replicate("-",79)
      lct = 0
      balance = 0
      if screen_printer = 2
         eject
      endif
   endif

   if lct = 0
      ?space(15)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
      ?space(15)+"          B 1 M.I.D.C., Gokul Shirgaon"
      ?space(15)+"               ABSTRACT          "
      if sdt = edt
         ??"Date : "+dtoc(sdt)
      else
         ??"Dated : "+dtoc(sdt)+"  To "+dtoc(edt)
      endif
      sele 1
      use partymst index partymst
      seek partycd
      if found()
         ?str(partycd,3)+space(7)+PARTY_NM
      else
         ?str(partycd,3)+space(7)+space(40)
      endif
      ?replicate("-",79)
      ?"Date     Amount Depo.  1 ltr.    1/2 ltr.  Rate    Tot. Amount    Balance    "
      ?replicate("-",79)
      lct = 7
   endif
```

```
      sele 5

      balance = balance + M_AMT_DEPO - M_RATE*(M_ONE_LTR + M_HALF_LTR)

      ?dtoc(M_DATE)+" "+str(M_AMT_DEPO,9,2)+"      "+str(M_ONE_LTR,3)+"        "+;
       str(M_HALF_LTR,3)+"        "+str(M_RATE,6,2)+"  "+;
       str(M_RATE*(M_ONE_LTR + M_HALF_LTR),9,2)+str(balance,9,2)

      if lct > 60
         lct = 0
         if screen_print = 2
            eject
         endif
      endif

      skip

   enddo

      ?replicate("-",79)
      if screen_printer = 2
         eject
         set print off
      endif

   close all
   clea
   return
   *------------
   procedure delivery_challan
   clea
   set consol on
   store date() to sdt
   store 0 to custcd
   @ 12,20 to 14,70 double
   @ 13,21 say "Starting Date : "
   @ 13,37 get sdt
   read
   screen_printer = 0
   @ 16,40 to 19,50
   @ 17,41 prompt "SCREEN  "
   @ 18,41 prompt "PRINTER "
   menu to screen_printer
   if screen_printer = 2
      set print on
   endif

   sele 2
   use milk
   sort on M_ROOT_CD,M_DATE,M_PARTY_CD to milk1 for  sdt = M_DATE

   sele 5
   use milk1
   store 0 to partycd,lct
```

```
do while .not. eof()

   sele 5
   partycd = M_PARTY_CD

   ?
   ?space(15)+"Kolhapur Zilha Sha. Dudh Utpadak Sangh Ltd. Kolhapur"
   ?space(15)+"          B 1 M.I.D.C., Gokul Shirgaon"
   ?
   ?
   ?"Root Code : "+str(M_ROOT_CD,2)+space(40)+"Date : "+dtoc(sdt)
   ?
    sele 1
    use partymst index partymst
    seek partycd
    if found()
       ?"Centre Code & Name : "+str(partycd,3)+space(7)+PARTY_NM
    else
       ?"Centre Code & Name : "+str(partycd,3)+space(7)+space(40)
    endif
    ?
    ?replicate("-",79)
    ?"         Amount Depo.       1 ltr.         1/2 ltr.    Total"
    ?replicate("-",79)

   sele 5

    ?
    ?space(9)+str(M_AMT_DEPO,9,2)+space(9)+str(M_ONE_LTR,3)+space(12)+;
    str(M_HALF_LTR,3)+space(12)+str((M_ONE_LTR + M_HALF_LTR),9,2)
    ?replicate("-",79)
    ?
    ?
    ?
    ?
    lct = lct + 1
   if lct >= 3
      lct = 0
      if screen_print = 2
         eject
      endif
   endif

   skip

enddo

   ?replicate("-",79)
   if screen_printer = 2
      eject
      set print off
   endif

close all
clea
```

```
return
*------------

*****************************************************
**                                                 **
**                  UTILITIES                      **
**                                                 **
*****************************************************

procedure sort_index
clea
store 0 to option
do while .t.
@ 1,25 say "Sorting  Indexing"
@ 1,1 to 9,20 double
@ 2,2 prompt "MILK.DBF      -> "
@ 3,2 prompt "PARTYMST.DBF -> "
@ 4,2 prompt "MAINPROD.DBF -> "
@ 5,2 prompt "SUBPROD.DBF  -> "
@ 6,2 prompt "CUSTMST.DBF  -> "
@ 7,2 prompt "TRAN.DBF      -> "
@ 8,2 prompt "EXIT             "
menu to option
do case
   case option = 1
        @ 1,22 say "Sorting                 ......"
        use milk
        sort on M_DATE,M_ROOT_CD,M_PARTY_CD to samp
        use samp
        copy to milk
        use
   case option = 2
        @ 2,22 say "Sorting      Indexing ......"
        use partymst
        sort on party_cd to samp
        use samp
        copy to partymst
        index on party_cd to partymst
        use
   case option = 3
        @ 3,22 say "Sorting      Indexing ......"
        use mainprod
        sort on p_code to samp
        use samp
        copy to mainprod
        index on p_code to mainprod
        use
   case option = 4
        @ 4,22 say "Sorting      Indexing ......"
        use subprod
        sort on s_code to samp
        use samp
        copy to subprod
        index on s_code to subprod
        use
```

```
   case option = 5
        @ 5,22 say "Sorting      Indexing ......"
        use custmst
        sort on cust_code to samp
        use samp
        copy to custmst
        index on cust_code to custmst
        use
   case option = 6
        @ 6,22 say "Sorting                ......"
        use tran
        sort on t_date,t_main_cd,t_sub_cd,t_cust_cd to samp
        use samp
        copy to tran
        use
   case option = 7
        exit
endcase
close all
clea
enddo
return
*------------
procedure back_up
clea
store 0 to option
do while .t.
@ 1,25 say "Backup"
@ 1,1 to 9,20 double
@ 2,2 prompt "MILK.DBF      -> "
@ 3,2 prompt "PARTYMST.DBF  -> "
@ 4,2 prompt "MAINPROD.DBF  -> "
@ 5,2 prompt "SUBPROD.DBF   -> "
@ 6,2 prompt "CUSTMST.DBF   -> "
@ 7,2 prompt "TRAN.DBF      -> "
@ 8,2 prompt "EXIT             "
menu to option
do case
   case option = 1
        @ 1,22 say "Backup                ......"
        !copy milk.dbf a:
   case option = 2
        @ 2,22 say "Backup                ......"
        !copy  partymst.dbf a:
   case option = 3
        @ 3,22 say "Backup                ......"
        !copy mainprod.dbf a:
   case option = 4
        @ 4,22 say "Backup                ......"
        !copy subprod.dbf a:
   case option = 5
        @ 5,22 say "Backup                ......"
        !copy custmst.dbf a:
   case option = 6
        @ 6,22 say "Backup                ......"
```

```
        !copy tran.dbf a:
   case option = 7
        exit
endcase
close all
clea
enddo
return
*------------
procedure re_store
clea
store 0 to option
do while .t.
@ 1,25 say "Restore from A:"
@ 1,1 to 9,20 double
@ 2,2 prompt "MILK.DBF     -> "
@ 3,2 prompt "PARTYMST.DBF -> "
@ 4,2 prompt "MAINPROD.DBF -> "
@ 5,2 prompt "SUBPROD.DBF  -> "
@ 6,2 prompt "CUSTMST.DBF  -> "
@ 7,2 prompt "TRAN.DBF     -> "
@ 8,2 prompt "EXIT            "
menu to option
do case
   case option = 1
        @ 1,22 say "Restore from A:                ......"
        !copy a:milk.dbf
   case option = 2
        @ 2,22 say "Restore from A:                ......"
        !copy  a:partymst.dbf
   case option = 3
        @ 3,22 say "Restore from A:                ......"
        !copy a:mainprod.dbf
   case option = 4
        @ 4,22 say "Restore from A:                ......"
        !copy a:subprod.dbf
   case option = 5
        @ 5,22 say "Restore from A:                ......"
        !copy a:custmst.dbf
   case option = 6
        @ 6,22 say "Restore from A:                ......"
        !copy a:tran.dbf
   case option = 7
        exit
endcase
close all
clea
enddo
return
*-----------
```