```
10 ' CPC DBase
15 ' The Amstrad User
20 MEMORY 42500
30 DEFSTR a,d:fields9=9
40 KEY DEF 66,1,32,32,32
50 DIM fields9(9):DIM z(5)
60 CLOSEIN:PEN 1:INK 1,0:INK 0,24:BORDER 24:MODE 1:LOCATE
   1C 17,1:INK 2,2:PRINT"CPCDBASE":WINDOW 1,40,5,25:WINDOW
   #1,1,40,3,3:INK 3,6:WINDOW #2,1,40,25,25
70 ON BREAK GOSUB 2910
80 IF PEEK(43901)=237 AND PEEK(43901)=238 THEN GOSUB
   2850
90 IF PEEK(43901)=238 THEN INK 2,8:INK 3,14

100 RESTORE#"MENU MODE":PRINT"Select item from:":PRINT
110 FOR g=1 TO 8:READ a
120 PRINT:PRINT "("MID$(STR$(g),2,1)") "a:NEXT
130 DATA Field entry mode,Record entry,List or order present
    file,Edit or delete a record,Save file/fields only,Loa
    d file/fields only,Erase file,Exit program
140 WHILE INKEY$(9)<>"":WEND
150 a=""::WHILE a(")OR a)"8":a=INKEY$:WEND
160 ON VAL(a)GOTO 180,340,560,1370,1730,2220,2650,2710
170 '
180 CLS:RESTORE,"FIELD ENTRY MODE" *** (1) FIELD ENTRY ***
190 RESTORE,"FIELD ENTRY MODE"
200 LINE INPUT "Enter title of file:";title9:IF LEN(tit
    le9)20 THEN PRINT"TITLE TOO LONG.":GOTO 200
210 IF title9="" THEN title9="Unnamed file"
220 title9=UPPER$(title9):CLS:PRINT title9:WINDOW 1,48,
    7,25:FOR g=1 TO field9
230 PRINT"Enter field no. "MID$(STR$(g),2,1)":";:LINE IN
    PUT field9(g)
240 IF LEN(field9(g))28 THEN PRINT"FIELD TOO LONG.":GO
    TO 230
250 IF RIGHT$(field9(g),1)=":" THEN field9(g)=LEFT$(fiel
    d9(g),LEN(field9(g))-1)
260 IF field9(g)="" THEN PRINT"INVALID ENTRY.":GOTO 230
270 IF g=field9 GOTO 320
280 PRINT:PRINT"Another field? (Y/N)"
290 WHILE INKEY$<>"":WEND
300 a="":WHILE a(>"Y" AND a(>"N":a=UPPER$(INKEY$):WEND
310 IF a="Y" THEN CLS:NEXT
320 field9=g
330 WINDOW 1,40,5,25:CLS:GOTO 100
340 '
350 ' *** (2) RECORD ENTRY ***
360 ON ERROR GOTO 2580
370 IF field9 THEN PRINT#2,"NO FIELDS HAVE YET BEEN EN
    TERED.":FOR q=1 TO 1500:NEXT:CLS#2:GOTO 140
380 IF x=1 GOTO 410 ELSE x=1
390 num=INT(FRE("")/(field9*38))
400 DIM rec9(num,field9)
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```
410 PRINT#1,"DATA ENTRY MODE"
420 WINDOW #3,21,48,5,5:CLS:PRINT title$:WINDOW 1,40,7,
25
430 FOR g=rec+1 TO num
440 PRINT#3,"Record";g:FOR h=1 TO field
450 PEN 2:PRINT fields(h)"s";:PEN 3:LINE INPUT rec$(g,h
):NEXT h
460 NEXT g
470 LEN(rec$(g,h))>80 THEN PRINT"ENTRY TOO LONG.":GO
TO 440
480 PRINT#1:LINE INPUT"Enter another record? "
490 WHILE INKEY$="":WEND
500 a$="":WHILE a$<>"Y"AND a$<>"N":a$=UPPER$(INKEY$):WEND
510 IF a$="Y"THEN NEXT
520 rec=g:field=field
530 GOTO 68
540 PRINT"NO ROOM FOR ANY MORE RECORDS."rec$(g,h)="":I
OR h=1 TO field:rec$(g,h)="":NEXT:num=g:GOTO 100
550 '
560 '          *** (3) LIST/ORDER FILE ***
570 IF rec=0 THEN PRINT#2,"NO RECORDS HAVE YET BEEN ENT
ERED.":FOR pause=1 TO 1500:NEXT:CLS#2:GOTO 140
580 PEN 1:WINDOW 1,40,5,25:CLS:PRINT#1,"LIST/ORDER FILE
MODE"
590 PRINT"Select from":PRINT
600 RESTORE &1B:PRINT#1:FOR g=1 TO 5:READ a$:PRINT"<"RIGHT
$(STR$(g),1)">"a$:NEXT
610 PRINT
620 DATA List all records,List certain fields of all re
cords,Search through file,Order file,Return to main men
u
630 WHILE INKEY$="":WEND
640 a$="":WHILE a$<"1"OR a$>"5":a$=INKEY$:WEND
650 IF a$="3"GOTO 68
660 ON VAL(a$)GOTO 680,770,960,1230,68
670 '
680 '          *** (3A) LIST ALL RECORDS ***
690 CLS:PRINT title$:PRINT#2," PRESS SPACE BAR TO STOP,
ESC TO PAUSE":WINDOW 1,40,7,23
700 FOR g=1 TO rec:PRINT#3"RECORD"g
710 FOR h=1 TO field
720 PEN 3:PRINT fields(h)"s";:PEN 3:PRINT LEFT$(rec$(g,
h),39-LEN(fields(h))):IF LEN(rec$(g,h))>40-LEN(fields(h)
,40)
730 IF INKEY$=" "GOTO 500
740 PEN 1:NEXT:NEXT
750 GOTO 2780
760 '
770 '          *** (3B) LIST CERTAIN FIELDS
OF ALL RECORDS ***
780 CLS
790 LINE INPUT"Type in the number(s) of the fields to
be listed: ";a$
800 IF a$=""THEN GOTO 830

810 FOR g=1 TO LEN(a$):IF MID$(a$,g,1)>"0"AND MID$(a$,g,1
)<"9"THEN NEXT:GOTO 830 ELSE 830
820 IF VAL(a$=0 THEN GOTO 830 ELSE 840
830 PRINT"INVALID ENTRY.":GOTO 790
840 IF LEN(a$)=1 THEN IF VAL(a$)>field THEN PRINT"THERE A
RE NOT THIS MANY FIELDS.":GOTO 790 ELSE 840
850 FOR g=1 TO LEN(a$):IF VAL(a$(g,g)<=field THEN N
EXT:GOTO 860 ELSE PRINT"THERE ARE NOT THIS MANY FIELDS.
":GOTO 790
860 CLS:PRINT title$:WINDOW 1,40,7,23
870 PRINT#2," PRESS SPACE BAR TO STOP, ESC TO PAUSE"
880 FOR g=1 TO rec
890 PEN 1:PRINT#3"RECORD"g
900 FOR h=1 TO field
910 PEN 2:PRINT LEFT$((temp))"s";:PEN 3:PRINT LEFT$(rec
$(g,temp)),39-LEN(fields(h))):IF rec$(g,temp),40-LEN
(field(temp)))),40)
920 IF INKEY$=" "THEN GOTO 500
930 NEXT:NEXT:PRINT:GOTO 2780
940 END
950 '          *** (3C) SEARCH THROUGH FILE
***
970 RESTORE 910
980 CLS
990 FOR g=1 TO 5:READ a1
1000 PRINT"Enter the "RIGHT$(STR$(g),1)";a1" piece of da
ta to be found:";:LINE INPUT z(g)
1010 IF z(g)=""THEN PRINT"INVALID ENTRY.":GOTO 1000
1020 DATA st,nd,rd,th
1030 IF g=5 THEN 1030 ELSE PRINT"Do you want to search
for other data   simultaneously? (Y/N)"
1040 WHILE INKEY$="":WEND
1050 a$="":WHILE a$<>"Y"AND a$<>"N":a$=UPPER$(INKEY$):WEND
1060 IF a$="Y"THEN CLS:NEXT
1070 CLS:temp=g
1080 flag=0
1090 FOR g=1 TO rec:flag=0
1100 a1=""
1110 FOR h=1 TO field
1120 a1=a1+rec$(g,h)+" "
1130 NEXT
1140 FOR h=1 TO temp:IF INSTR(a1,z(h))>0 THEN flag=fla
g+1:IF flag=temp THEN flag=1:GOTO 1170 ELSE NE
XT
1150 IF flag=1GOTO 1210
1160 IF flag=0 GOTO 1190 ELSE IF g>rec THEN PRINT:PRIN
T:GOTO 2780
1170 IF flag=1 THEN WINDOW 1,48,7,25:PRINT title$:WIND
OW 1,40,7,25
1180 PRINT#1:PRINT"RECORD"g:FOR h=1 TO field:PEN 2:PRINT
fields(h)"s";:PEN 3:PRINT LEFT$(rec$(g,h)),39-LEN(fields
(h))):IF(rec$(g,h),40-LEN(fields(h))),40):PEN 1:NEXT:G
OTO 1210
1190 PRINT"No record was found containing "z(FOR h=1 TO
temp:PRINT z(h);:IF temp=1 THEN PRINT".":GOTO 1210 ELS
```

```
1200 PRINT"*,*;:NEXT:GOTO 2780
E IF h=temp-1 THEN PRINT "and "t(h+1)",":GOTO 2780
1210 NEXT g:IF flag%=0 THEN PRINT:PRINT:GOTO 2780 ELSE
flag%=0:GOTO 1160
1220 '
1230 '            *** (3D) ORDER FILE ***
1240 CLS:PRINT"Enter number of field by which file is
to be ordered:"
1250 WHILE INKEY$<>"":WEND
1260 a=**:WHILE VAL(a)<1 OR VAL(a)>fields:a=INKEY$:WEND
1270 temp=VAL(a)
1280 SPEED INK 20,38:PEN 44,2:INK 2,24,8:WINDOW #4,1,40
,9,9:PRINT#4," SORTING FILE, PLEASE WAIT"
1290 FlagA=0:FOR g=1 TO rec-1
1300 IF rec%(g,temp)<rec%(g+1,temp) GOTO 1330
1310 FOR h=1 TO fields:temp@=rec%(g+1,h):rec%(g+1,h)=rec
%(g,h):rec%(g,h)=temp@
1320 NEXT:flag@=1
1330 NEXT:IF flag@=1 GOTO 1290
1340 IF rec%(49%1)=230 THEN INK 2,8 ELSE INK 2,2
1350 PEN #4,1:PRINT#4," File has been ordered.":F
OR pause=1 TO 1500:NEXT:GOTO 500
1360 '
1370 '            *** (4) EDIT/DELETE A RECOR
D ***
1380 IF REC=0 THEN PRINT#2,"NO RECORDS HAVE YET BEEN EN
TERED.":FOR pause=1 TO 1500:NEXT:PRINT#2:GOTO 140
1390 CLS:PRINT#4,"EDIT/DELETE RECORD MODE"
1400 '
1410 WHILE INKEY$<>"":WEND
1420 a=**:WHILE a<>"E" AND a<>"D":a=UPPER$(INKEY$):WEND
1430 IF a="D" GOTO 1580
1440 '
1450 '            *** (4A) EDIT A RECORD ***
1460 CLS
1470 LINE INPUT"Enter number of record to be edited:",a
:IF a="":GOTO 1578
1480 FOR g=1 TO LEN(a):IF MID$(a,g,1)<"0"OR MID$(a,g,1)
>"9"GOTO 1570 ELSE NEXT
1490 IF VAL(a)>rec THEN PRINT"There are not this many r
ecords.":GOTO 1570
1500 IF VAL(a)=rec Then PRINT"THERE ARE NOT THIS MANY R
ECORDS.":GOTO 1470
1510 CLS:PRINT"Press ENTER alone to bypass a field.":PR
INT:PRINT
1520 FOR g=1 TO field
1530 PEN 2:PRINT field=&(g)"";:PEN 3:PRINT LEFT$(rec%(V
AL(a),g),39+LEN(field%(g)));WEND(rec%(VAL(a),g),40-LEN(
field%(g)),48);TAB(LEN(field%(g)))" ";:LINE INPUT a:
1540 IF a=""THEN 1560 ELSE IF LEN(a)>60 THEN PRINT"En
try too long.":GOTO 1530
1550 rec%(VAL(a),g)=a
1560 NEXT:GOTO 140
1570 PRINT"INVALID ENTRY.":GOTO 1470
1580 '


1590 '            *** (4B) DELETE A RECORD ***
1600 '
ove fol
eave a blank record
1610 WHILE INKEY$<>"":WEND
1620 a=**:WHILE a<>"N"AND a<>"L":a=UPPER$(INKEY$):WEND
1630 IF a="L"THEN flag@=1 ELSE flag@=0
1640 CLS
1650 LINE INPUT"Enter number of record to be deleted:",
a:IF a=""THEN 1730
1660 FOR g=1 TO LEN(a):IF MID$(a,g,1)<"0"AND MID$(a,g,1
))>"9"THEN 1720 ELSE NEXT
1670 IF VAL(a)=0 THEN 1720
1680 IF VAL(a)>rec THEN PRINT"THERE ARE NOT THIS MANY R
ECORDS.":GOTO 1650
1690 IF flag@=0 THEN FOR g=VAL(a) TO rec-1:FOR h=1 TO
fields:rec%(g,h)=rec%(g+1,h):NEXT:NEXT:rec=rec-1:GOTO 17
10
1700 FOR g=VAL(a) TO fields:rec%(VAL(a),g)="":NEXT
1710 PRINT:PRINT:PRINT"Record "a" has been deleted.":FO
R g=1 TO 1500:NEXT:GOTO 140
1720 PRINT"INVALID ENTRY.":GOTO 1650
1730 '
1740 '            *** (5) SAVE FILE/FIELDS ON
LY ***
1750 IF field=0 THEN PRINT#2,"NO FIELDS HAVE YET BEEN E
NTERED.":FOR pause=1 TO 1500:NEXT:PRINT#2:GOTO 140
1760 CLS:PRINT#4,"SAVE FILE/FIELDS MODE":PRINT"Select f
rom:":PRINT:PRINT:PRINT"(1) Save whole file":PRINT#PRIN
T"(2) Save the fields alone"
1770 WHILE INKEY$<>"":WEND
1780 a=**:WHILE a<>"1"AND a<>"2":a=INKEY$:WEND
1790 IF rec=0 AND a="1"THEN PRINT#2,"NO RECORDS HAVE YE
T BEEN ENTERED.":FOR pause=1 TO 1500:NEXT:GOTO 140
1800 PRINT:PRINT:PRINT"Saving speed Fast or Normal? (F/
N)"
1810 WHILE INKEY$<>"":WEND
1820 a$=**:WHILE a$<>"F"AND a$<>"N":a$=UPPER$(INKEY$):W
END
1830 IF a$="N"then SPEED WRITE 0 ELSE SPEED WRITE 1
1840 g$=a*"2"GOTO 2850
1850 '
1860 '            *** (5A) SAVE WHOLE FILE **
*
1870 CLS:PRINT"Press any record on the tape, "and
"then press the ENTER key."
1880 WHILE INKEY$<>"":WEND
1890 WHILE INKEY$<>CHR$(13):WEND:PRINT:PRINT"SAVING "ti
tle$"."
1900 ON BREAK GOSUB 2910
```

```
1910 OPENOUT"!":Extras"
1920 PRINT#9,title$:PRINT#9,field:PRINT#9,rec:CLOSEOUT
1930 OPENOUT"!":Fields"
1940 FOR g=1 TO field:PRINT#9,fie$(g):NEXT:CLOSEOUT
1950 OPENOUT"!":Records":FOR h=1 TO rec:FOR i=1 TO field:PRINT#9,rec$(g,h):NEXT:NEXT:CLOSEOUT
1960 PRINT#9,rec$(g,h):NEXT:NEXT:CLOSEOUT
1970 PRINT TAB(6)"!PRESS ESC NOW.!":PRINT#9,"!":CLOSEOUT
1980 PRINT TAB(4)"!The file has now been saved.":"!!Would you"
1990 PRINT"like to verify? (Y/N)"
2000 WHILE INKEY$<>"":WEND
2010 WHILE INKEY$="":WEND
2015 a$=INKEY$:IF a$="Y" OR a$="y" THEN GOTO 40
2020 IF a$="N" THEN GOTO 60
2010 PRINT"Rewind tape and press play. If a read
      error occurs, then either rewind tape,orpress ESC twi
```

```
ESS ESC NOW"CHR$(34)".
2020 KEY DEF 66,1,252,252,252:ON BREAK GOSUB 2040:CAT:O
N BREAK GOSUB 2910:KEY 66,1,32,32,32
2030 GOTO 2050
2040 RETURN
2050 '
2060 '             (50) SAVE FIELDS ALONE
2070 '
2070 CLS:PRINT"Press play and record on the tape,"and
    "then press the ENTER key."
2080 WHILE INKEY$<>"":WEND:WHILE INKEY$<>CHR$(13):WEND:
2090 OPENOUT"fitras"
2100 PRINT#9,titles$:PRINT#9,fields$:PRINT#9,rect:CLOSEOUT
2110 OPENOUT"Fields"
2120 FOR g=1 TO field:PRINT#9,fields$(g):NEXT:CLOSEOUT
2130 OPENOUT"PRESS ESC NOW":PRINT#9,"*":CLOSEOUT
2140 PRINT:PRINT"Fields have now been saved. Would y
    ou "like to verify? (Y/N)
2150 WHILE INKEY$<>"":WEND
2160 a$="":WHILE a$<>"Y"AND a$<>"N":a$=UPPER$(INKEY$):WEND
2170 IF a$="N"THEN &&
2180 PRINT:PRINT"Rewind tape and press play. If a read
    error occurs, then either rewind tape,orpress ESC twi
    ce and record. Press ESCtwice on seeing "CHR$(34)"PR
    ESS ESC NOW"CHR$(34)".
2190 KEY DEF 66,1,252,252,252:ON BREAK GOSUB 2040:CAT:O
N BREAK GOSUB 2910:KEY 66,1,32,32,32
2200 GOTO 60
2210 '
2220 '             (60) LOAD FILE/FIELDS ON
LY ***
2230 CLS:PRINT#1,"LOAD FILE/FIELDS ONLY MODE"
2240 PRINT"Select from:":PRINT:PRINT:PRINT"(1) Load who
le file "PRINT:PRINT"(2) Load fields only"
2250 WHILE INKEY$<>"":WEND
2260 a$="":WHILE a$<>"1"AND a$<>"2":a$=UPPER$(INKEY$):WEND
2270 PRINT:PRINT:PRINT
```

```
2280 IF a="2" THEN 2460
2290                         *** (6A) LOAD WHOLE FILE **
2300
2310 CLEAR:DEFSTR a,z:field(0)=0:IN z(5)
2320 LINE INPUT"Enter name of file to be loaded, or
     press ENTER alone to load the first file";num:IF=,al
2330 IF LEN(a1)>20 THEN PRINT"NAME TOO LONG,":GOTO 2320
     ELSE a1=UPPER$(a1)
2340 CLS:PRINT"When you play on tape, then press ENTER.."N
     HILE INKEY$<>"":WEND:WHILE INKEY$<>CHR$(13):WEND
2350 PRINT:PRINT:PRINT"SEARCHING FOR ";:IF al<>""THEN P
     RINT al"," ELSE PRINT"UNKNOWN FILES."
2360 LOCATE 1,18:PRINT"If a read error occurs, rewind t
     ape and press play, or press ESC, and then type GOTO
     <ENTER>."LOCATE 1,7
2370 ON BREAK GOSUB 2460
2380 INPUT#2,field(0),title$:IF
     RINT"found "title$:IF title<>al AND al<>""THEN PRINT:
     CLOSEIN:GOTO 2380 ELSE PRINT"...LOADING."
2390 INPUT#2,field:DIM field$(field):st=1
2400 INPUT#2,field(num):FOR i=1 TO field:LINE INPUT#2,
     num:INT(FRE(0)/(field*30)):DIM rec$(num,g)GOSUB 2620
2410 CLOSEIN:OPENIN"Extra":GOSUB 2420
2420 FOR g=1 TO field:FOR num=1 LINE INPUT#2,rec$
     g,num):NEXT:CLOSEIN
2430 ON BREAK GOSUB 2460
2440 field(x)=st
2450 CLS:GOTO 100
2460                         *** (6B) LOAD FIELDS ONLY ***
2470 IF flag=1 RETURN
2480 flag=0:GOSUB 2450 ELSE RETURN
2490                         *** (6B) LOAD FIELDS ONLY **
2500 LINE INPUT"Enter name of fields to be loaded, or
     press ENTER alone to load the first file";num:IF,al
2510 IF LEN(a1)>20 THEN PRINT"NAME TOO LONG,":GOTO 2490
     ELSE a1=UPPER$(a1)
2520 CLS:PRINT"Press play on tape, then press ENTER.."N
     HILE INKEY$<>"":WEND:WHILE INKEY$<>CHR$(13):WEND
2530 PRINT:PRINT:PRINT"SEARCHING FOR ";:IF al<>""THEN P
     RINT al"," ELSE PRINT"UNKNOWN FILES."
2540 LOCATE 1,18:PRINT"If a read error occurs, rewind t
     ape and press play, or press ESC, and then type GOTO
     <ENTER>."LOCATE 1,7
2550 ON BREAK GOSUB 2460
2560 INPUT#2,field(0),title$:IF
     RINT"found "title$:IF title<>al AND al<>""THEN PRINT:
     CLOSEIN:GOTO 2560 ELSE PRINT"...LOADING FIELDS."
2570 INPUT#2,field:DIM field$(dummy:num=INT(FRE(0)/(field
     *30))
2580 IF CLOSEIN:OPENIN"field":GOSUB 2470 ELSE FIELD2=FIEL
     D2
2590 FOR g=1 TO FIELD2
```



```
2600 IF field(field THEN field=field(i)
2610 LINE INPUT#4,field(i):NEXT:CLOSEIN
2620 num=INT(FRE(0)/(field*30))
2630 IF rec<0 THEN DIM rec$(num,x,field):st=1
2640 ON BREAK STOP:CLS:GOTO 100
2650                         *** (7) ERASE FILE ***
2660 CLS:PRINT"Are you sure? (Y/N)"
2670 WHILE INKEY$<>"":WEND
2680 a="":WHILE a<>"Y"AND a<>"N":a=UPPER$(INKEY$):WEND
2690 IF a="N"THEN CLS:GOTO 100
2700 FOR g=1 TO 1500:NEXT:PRINT:PRINT"File has be
     en erased."FOR g=1 TO 1500:NEXT:RUN
2710                         *** (8) EXIT PROGRAM ***
2720 CLS:PRINT"Are you sure? (Y/N)"
2730 WHILE INKEY$<>"":WEND
2740 a="":WHILE a<>"Y"AND a<>"N":a=UPPER$(INKEY$):WEND
2750 IF a="N"THEN CLS:GOTO 100
2760 CALL 0
2770
2780                         *** WAIT FOR ENTER KEY ***
2800 PRINT#2,"    PRESS ENTER TO RETURN TO MENU"
2810 WHILE INKEY$<>"":WEND
2820 a="":WHILE a<>CHR$(13):a=INKEY$:WEND
2830 GOTO 980
2840
2850                         *** GREEN SCREEN ROUTINE ***
2860 PRINT:PRINT:PRINT"Are you using green scree
     n or Colour?      (G/C)"
2870 WHILE INKEY$<>"":WEND
2880 a="":WHILE a<>"G"AND a<>"C":a=UPPER$(INKEY$):WEND
2890 IF a="G"THEN POKE 43901,238 ELSE POKE 43901,237
2900 CLS:RETURN
2910 RETURN =%
```