Section I: 13	
How to CREATE a database	1,4
CREATE	16
Entering data into your new database	10
Modifying data in a database	
Full Screen Editing Features	19
an introduction to dBASE II to commands and the	
error correction dialog	`20
USE, DISPLAY, LIST	21
Expanding commands with expressions	- '
LIST	22
Looking at your data records	25
DISPLAY	oh .
Positioning yourself in the database	24
GO, GOTO, SKIP	25
The interactive ? command	25
Adding more records to a database	20
APPEND, INSERT	-0
Cleaning up a database	20
DELETE RECALL PACK	
Section I Summary	29

In this section, we create a database and enter data. We also introduce you to some dBASE II commands that will be developed and added to throughout the rest of this manual. For a complete definition of a command, check Part II.

How to CREATE a database

We'll start by creating a database of names for a mailing list system. Each record in the database will contain the following information:

NAME: up to 20 characters long ADDRESS: up to 25 characters long CITY; up to 20 characters long STATE: 2 characters long ZIP CODE: 5 characters

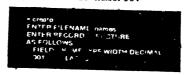
First, type ^CREATE^.

dBASE II responds with: ENTER FILENAME:.

Enter a filename starting with a letter and up to 8 characters long (limited by CP/M), no colons, no spaces. Since this is a file of names, let's call it something that makes sense to a human being: type "Names".

When you hit return, dBASE II creates a file called <NAMES.DBF>. The part of the name after the period is the CP/M file name extension, and is short for database file (Section V, File Types).

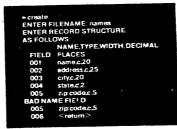
In a database management system, each one of the items that we want to enter into a single related grouping is called a <u>field</u> and the grouping is called a <u>record</u> (Section V, Database Basics). In our example, each record will have 5 fields. dBASE needs to know the name of each field, what type of data it will contain, how long it is and how many decimal places if the data is numeric.



Field names can be up to 10 characters long, and may be entered in upper and/or lowercase. The name must start with a letter and cannot contain spaces, but can contain digits and embedded colons. Don't abbreviate any more than you have to: the computer will understand what you mean, but people might not.

The type of data is specified by a single letter: C for Character, N for Numeric and L for Logical. In this case, all fields contain character data.

Field width can be any length up to 254 characters. If the field is numeric and decimal places are specified, remember that the decimal point also takes one character position. we know what names we want to give our fields, the type of data that they will contain, and their lengths so type the information in now. Here's what the screen looks like when you're finished:



Notice what happened at field 5: we made an error by entering a space in the field name, so dBASE II told us what the error was and gave us a chance to correct it.

Notice also that the data type for the ZIP code was specified as "character", even though we normally think of the digits here as numbers.

This was done because a dBASE II command such as 'TOTAL' can total all the numeric fields in a record (without you specifically listing them all). Doing so with the ZIP code field would simply be a waste of time. We can still use the relational operators ("greater than", "less than", "equal or not equal to") with the character data, so this will not interfere with any ZIP code sorting we may want to do later.

When dBASE II asked us for the specifications for a sixth field, we hit (enter) to end the data definition. dBASE II saved the data structure, then asked if we wanted to enter data in it.

The <Names.DBF> database is immediately ready for data entry, so type \hat{y} . On the next page we tell you how to enter the data.

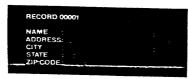
Entering data into your new database

If you do not have full screen editing on your terminal, the record number and the field names will appear one at a time below whatever has been typed on the screen up until now. The length of each field is shown by two colons, with the cursor positioned for you to start writing. When you fill the field or press <enter>, the next field will appear. After the last field in a record has been filled (or ignored), you start on a new record.

To stop entering data, hit <enter> when the cursor is at the first character position of the first field in a new record.

If you installed dBASE II with full screen editing, the screen will be erased, then the record number and all the fields will be displayed starting in the upper left-hand corner of the screen, with the cursor at the first character position of the first field.

(If you chose one of the standard terminals on the installation list, the field names may be in reverse video or at half_intensity. If you want to change this later, you can disable it by using the "Y - CHANGE/MODIFY" option in the installation procedure).



NOTE:: If this doesn't look like your screen, there is a problem with INSTALL. Please re-do the installation.

Field lengths are indicated by two colons. When a field is filled or you hit <enter>, the cursor jumps down to the next field. The cursor can be moved back up to a previous field by holding the control key down and pressing the letter E once: ^control-E^, abbreviated as ^ctl-E^. When you are finished with the last field, dBASE II presents another empty record.

Enter the following names and addresses. We'll be using them soon to show you some of the powerful features of dBASE II.

CLINKER, DUANE DESTRY, RALPH EMBRY, ALBERT FORMAN, ED GREEN, TERRY	456 789 234 345 456 567	Crater Rd., Everett, WA Minnow Pl., Burlington, MA Charles Dr., Los Angeles, CA Mahogany St., Deerfield, FL Sage Ave., Palo Alto, CA Boston St., Dallas, TX Doheny Dr., Hollywood, CA	33441 94303 75220 90046
HOWSER, PETER	678	Dusty Rd., Chicago, IL	90046

If you make any mistakes that can't be corrected by backspacing and writing over them, read the next two pages on editing <u>before</u> moving on to the next record. If you accidentally get back to the dBASE dot prompt, type:

"USE Names"
APPEND

and continue with your entries. (This will be explained later in the manual).

To stop entering data, after you've entered the last ZIP code and while you are on the first character of the first field of the next record, hit (enter). If you have typed in some data or moved the cursor, hold the control key down and press the letter "Q: (^control-Q^).

dBASE leaves the data entry mode and presents its dot prompt (.) to show you that it's ready for your commands.

If you want to stop now, simply type QUIT ..

"QUIT" must be typed every time you terminate a dBASE II session. This automatically closes all files properly. Unless you do so, you may destroy your database.

Modifying data with EDIT

If you made any errors in the entries, you can correct them quickly and easily in the Full Screen Edit mode. Type:

"USE Names"
"EDIT <number>"

where "number" is the number of one of the records in the

dBASE brings up the entire record and you can use the Full Screen Editing commands to modify any or all of the data in the record. To move to the next record, use ctl-C. To move to the previous record. use ctl-R. To try it, type EDIT 3.



If you mark a record for deletion by using <code>ctl-U^</code>, <code>"DELETED"</code> appears at the top of the screen. Pressing <code>ctl-U^</code> again removes the word and <code>"un-deletes"</code> the record. If you <code>LIST^</code> (pp.20 and 21) or <code>"DISPLAY^</code> (pp. 20 and 23) your database, you will see an asterisk next to all records marked for deletion.

To abort full-screen editing, use ctl-Q. This does not make the changes that were on the screen when you exited.

To exit gracefully and save the changes made so far, use $^{\circ}$ Ctl-W^ ($^{\circ}$ Ctl-O^--the letter "0"--with Superbrain).

FULL SCREEN EDITING PEATURES:

- ctl-X moves cursor down to the next field (or ctl-F).
- ctl-E moves cursor back to the previous field (or ctl-A).
- ct1-D moves cursor ahead one character.
- ct1-S moves cursor back one character.
- ctl-V toggles between overwrite and insert modes.
- ctl-G deletes the character under the cursor.
- <Rubout> deletes the character to the left of the cursor.
- ctl-P toggles your printer ON and OFF.
- et1-Q quits and returns to normal dBASE II operation without making changes, even in the MODIFY mode.

'MODIFY' functions:

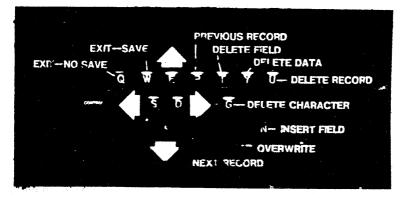
- ctl-T deletes the field where the cursor is and moves all the lower fields up.
- ctl-Y clears the current field to blanks, but leaves all fields where they were.
- ctl-N moves fields down one position to make room for insertion of a new field at the cursor position.

^APPEND^ functions:

- ctl-R writes the record to disk and moves to the next record.
- (Enter) when cursor is at the initial position of a new record resumes normal dBASE II operation.
- ct1-Q erases the record and resumes normal dBASE II operation

"EDIT" functions: (Do not use in "APPEND" mode)

- ctl-C writes the record to disk and advances to the next record.
- ctl-R writes the record to disk and backs up to the previous record.
- ctl-W toggles the record deletion mark on and eff.
- ctl-W saves any changes made and resumes normal dBASE II operation. With Superbrain, use <code>^ctl-O^</code> (the letter "0").
- ct1-Q aborts any changes in the record you're working on and prints the coordinate prompt. Hit (enter) to resume normal dBASE II operation.



An introduction to dBASE II commands and the error correction dialog (USE, LIST, DISPLAY)

dBASE II commands are generally verbs. You type them in when you see the dBASE II dot (.) prompt.

When you want to tell dBASE II which database file you want to work with, you type "USE <filename".

To look at the record you are on, type "DISPLAY".

To see all the records in the database, type `LIST`. (To stop and start the scrolling, use `control-S`.)

dBASE II commands can be abbreviated to four letters, but if you use more letters they must all be correct ('DISPLAY', 'DISP' and 'DISPLA' are valid commands; DISPRAY is not.)

If you chose the error correction dialog when you installed dBASE II, the command line is scanned and you are prompted with error messages when mistakes are detected. You get a second chance to make corrections without having to retype the entire line.

Type ^EDUT 3^.

dBASE II repeats a command it does not know. If you decide to change it, you do not have to retype the entire command.

In response to "CHANGE FROM:" type in enough of the wrong part of the command so that it is unambiguous, then hit <enter>:

In response to "CHANGE TO:" type in the replacement for the material you want changed.

In this example, we changed only a single letter, but you'll find this feature useful when you are testing and debugging long command lines.

Tip: The 'ERASE' command erases the screen and positions the prompt dot at the upper left-hand corner of the screen so that you can start new commands with a clean slate.

Expanding commands with expressions and relational operators (LIST)

One of the most powerful features of dBASE II is the ability to expand and "tailor" the commands.

You can add "phrases" and expressions to most commands to further define what the commands will do. Commands can be entered in upper and lowercase letters, and command lines can be up to 254 characters long. To extend the line beyond the width of your display, type in a semicolon (;) as the last character on the line (no space after it). dBASE II will use the next line as part of the command.

Since dBASE II is a relational DBMS, you'll find the relational operators useful:

- < : less than
- > : greater than
- = : equal to
- <= : less than or equal to</pre>
- >= : greater than or equal to

These commands mean exactly what the explanation on the right says. They generate a logical value as a result (True or False). If the expression is True, the command is performed. If the expression is false, the command is not performed.

Earlier, we mentioned that the LIST command will show all the records in the database (to stop and start the scrolling, use 'ctl-S'). The full form of the command is:

"LIST [OFF] [FOR <expression>]"

If the optional OFF is used, the record numbers will not be displayed.

If the optional FOR clause is used, dBASE II will list only the records for which the expression is true. Type the following, using single quotes around the character data (more on data types in Section II):

USE Names

LIST

LIST OFF

*LIST FOR Zip:Code = '9'

*LIST OFF FOR Zip:Code < '8'

*LIST FOR Name='GREEN'

Notice that when you enter only part of the contents of the field, that is all that is compared by dBASE. We did not need Mr. Green's full name, for example, although we might have used it if our database contained several GREEN's.

• use names			
• list			
00001 ALAZAR, PAT	123 Crate: Rd	: vereit	WA98206
00002 BROWN JOHN	456 Minnew PF	Burlington	MA0171G
DOOCT CLINKER DUAN	789 Charles, Dr	Los Arigeres	CA90036
00004 DESTRY RALPH	234 Mahoquny 11	Deed eld	FL33441
30005 EMBRY ALBER	345 Sign Arrange	Paro Alto	CA9430
DOOGS FORMAN ED	456 Boston St	Danis	TX7522C
0000: GREEN TERRY	567 Dohimy tir	Ho iywond	CA9004r
DODOS HOWSER PETER	673 D. 11 P	cago	11.60631
+ tist off			
ALAZAR PAT	123 Chite, F	E verett	WA98206
MHOL MWORE	456 V nm	Burnington	MA01730
CLINKER DUANE	789	os Angeles	CA90036
DESTRY RALPH	237 Yampo or y St	Dearfield	FL33441
EMBRY ALBERT	345 ag ' e	Palo Alto	CA94303
FORMAN, FD	456 Bos.	Dallas	TX75220
GREEN TERRY	567 Doheny fir	Hallywood	CA90046
HOWSER PETER	Cat L stk go	Chicago	11 60631
hist for zipicode 9			
0000° ALAZAR, PAT	1'3 Cer Ffd	Everett	WA 98706
0000' CHINKER DESNE	119 Charles Dr	LOS ATMERES	CA90036
DOOC4 EMBRY ALBERT	34' Sage Avenue	Palo Alto	CA94303
00007 GREEN TERRY	567 Det anv To	Hollywood	CA90046
• list for zip code 8			
OOOD! BROWN JOHN	456 W CON PT	Burington	MA01730
00004 DESTRY RALPH	734 Maliogany St	Floerhold	FL33441
00006 FORMAN ED	455 Boston S	Dallas	TX75270
DOOR HOWER PITER	676 Dusty Rd	٥٥ حات	IL60631
list for name GFIFEN			
DOOL GREEN TITRY	5 . Johany be	→ >:Tvwcod	CA90046

In addition to precisely selecting data from your database, the LIST command can be used to provide you with system information.

"LIST STRUCTURE" shows you the structure of the database in USE.

^LIST FILES^ shows the names of the database (.DBF) files on the logged-in drive. ^LIST FILES ON <drive>^ shows the database files on another drive (do NOT use the usual CP/M colon).

003 CITY 004 STAT	FURIF FIFCO ST HPD SE DATA IL HE: S	RDS 900	10	DFC
NAMES MIND KEYFILE CHECKS TEMP MONEYOUT	FILES OBF OBF OBF OBF OBF	#RCDS 30010 00007 00711 00783 90013 90000 00000	5 LAST UPD 08/00/00/ 00/00/00/ 00/00/00 00/00/00 00:00/00 00:00/00	JAI!

Looking at data with DISPLAY

The ^DISPLAY^ command is similar to ^LIST^. Its full form is:

[A11]
DISPLAY [Record n] [OFF][FOR <expression>]
 [Next n]

This gives you the option of specifying the scope for the "DISPLAY" command (also "LIST").

Specifying "Record n" displays only that record;
"Next n" displays the next "n" records, including the
current record. 'DISPLAY ALL' is the same as 'LIST',
except that 'LIST' will scroll all the records in the
database up the screen, while 'DISPLAY ALL' shows you the
database in groups of 15 records at a time (pressing any key
displays the next 15 records). Type the following:

^DISPLAY All^
^DISPLAY Record 3^
^DISPLAY Next 4^

• displan	10			
	ALAZAR: PAT	123 Crater Rd.	Everett	WA98206
00002	BROWN, JOHN	456 Minnow Pt.	Burlington	01710AM
00003	CLINKER, DUANE	789 Charles Dr.	Los Angeles	CA90036
00004	DESTRY, RALPH	234 Mahogany St.		FL33441
00005	EMBRY, ALBERT	345 Sage Avenue	Palo Alto	CA94303
	FORMAN, ED	456 Boston St.	Dallas	TX75220
00007	GREEN, TERRY	567 Doheny Dr.	Hallywood	CA90046
00008	HOWSER, PETER		Chicago	IL60631
 displa 	y record 3			
00003	CLINKER, DUANE	789 Charles Dr.	Los Angeles	CA90036
	y next 4			
00003	CLINKER, DUANE	789 Charles Dr.	Los Angeles	CA90036
00004	DESTRY, RALPH	234 Mahogany St.	Chertield	FL33441
00005	EMBRY, ALBERT			CA94303
00006	FORMAN, ED	456 Boston St.	Dallas	TX75220

As with 'LIST', the optional FOR clause can be used to select specific data by using logical expressions.

The DISPLAY command can also be used like the LIST command for system functions:

DISPLAY STRUCTURE = LIST STRUCTURE.
DISPLAY FILES = LIST FILES.

Both 'LIST' and 'DISPLAY' can show you specific types of files on a drive using the CP/M "wild cards". 'DISPLAY FILES LIKE *.COM ON B', for example, would display all the ".COM" files on drive B. If uncertain, check your CP/M manual, then use this form:

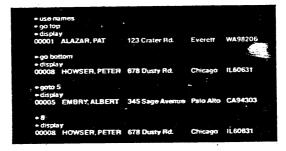
"DISPLAY FILES LIKE (wild card)"

Positioning commands (GO or GOTO and SKIP)

Once you have your database set up, you can also move from record to record quickly and easily with dBASE II. Type the following:

"USE Names"
GO TOP"
DISPLAY"
GO BOTTOM"
DISPLAY"
GOTO 5"
DISPLAY"
8

DISPLAY



"GO TOP" (or "GOTO TOP") moves you to the first record in the database. "GO BOTTOM" moves you to the last record. You can go to a specific record by using "GOTO" (number) (or GO (number)). And you can even eliminate the GO and just specify the record number.

SKIP moves you to the next record. SKIP + n moves you forward or backward "n" records. You can also use "SKIP +(variable/expression), with the number of records skipped determined by the value of the variable or expression (both defined later). Type the following:

^DISPLAY^
^SKIP-3^
^DISPLAY^
^SKIP^
^DISPLAY^

				_
⇔display 00008 HOWSER, PETER	678 Dusty Rd.	Chicago	11.60631	
≠ skip-3 RECORD: 00005				
display 00005 EMBRY, ALBERT	345 Sage Avenue	Pulo Alto	CA94303	
e skip RECORD: 00006				
occos FORMAN, ED	456 Coston St.	Dullas.	17(75220	1

The interactive ? command

The "?" command allows you to use dBASE II in the calculator mode. Simply type in the question mark and a space followed by the quantity or mathematical function you want evaluated and dBASE II will provide the answer on the next line. Using ?? puts the answer on the same line.

Type the following:

^? 73/3.0000^ ^? 73.00/3^ ^? 73/3^



The '?' command shows the answers to a mathematical operation to the same number of decimal places as the maximum in the numbers entered.

You can also think of "?" as meaning: "What is ...", with the dots replaced by an expression, a variable (a field name or a memory variable), a dBASE II function or a list of these separated by commas. Type the following:

"USE Names"

16"
17 Zip: Code"
17 Name"
18 Name"
19 BOTTOM"
17 City"



In the section on functions and commands, we'll show you how the "?" can be used to access other dBASE II functions, and to display CRT prompts to the operator from a command file.

Adding more data with the APPEND and INSERT commands

You can add data to any database quickly and easily with a one-word command. First choose the database file into which you want to enter data by typing "USE (filename)", then typing in the command "APPEND:

"USE Names"
APPEND"



dBASE II responds by displaying the record number that follows the last record in the file and the fields for that database. If you fill in the record, it is added onto the end of the file (appended).

The display includes the names of the fields, with colons showing field lengths. The cursor is at the first position where you can start to enter data. If you fill up the entire field with data, the cursor automatically moves down to the next field. If not, hit <enter>.

If there is no data to be entered in a field, use <enter> to move the cursor to the next field. Character fields will automatically be filled with blanks, numeric fields will show a zero. When entering numeric data, if there are no digits after the decimal, there is no need to type the decimal. dBASE II automatically puts in the decimal point and the necessary number of following zeros.

Records can be inserted into a specific location in a database (to keep them alphabetical, for example) by typing.

"INSERT [BEFORE] [BLANK]"

Using the word "INSERT" alone inserts the record just after the current record. Specifying BEFORE will insert the record just before the current record. In either case, you are prompted the same way as with the "APPEND" and "CREATE" commands. If BLANK is specified, an empty record is inserted and there are no prompts.

Add the following names alphabetically to the (Names.DBF) database:

30328 392 Vicarious Way, Atlanta, GA EDMUNDS, JIM 321 Sawtelle Blvd., Tucson, AZ 85702 INDERS, PER 210 Park Avenue, New York, NY 10016 JENKINS, TED

The sequence of commands is:

"Ton Hames" ^5^ (enter the data for the first name) "IMSERT BEFORE" (enter the data for the last names) ^APPEND^

In the "IMSERT" mode, when you fill the last field, dBASE II will return to the command mode (dot prompt). To exit the "APPEND" mode, position the cursor at the start of a new field, then hit (enter) or "control-Q". In either mode, you can exit from inside a record by using otl-W (otl-0 with Superbrain). This will save

what has been entered up to that point and return you to the command mode.

Cleaning up a database (DELETE, RECALL, PACK)

Deletions can be made directly from dBASE II as well as in the "EDIT" mode.

To delete the current record, type "DELETE".

To delete more than one record, use the form DELETE <scope>, where the scope is the same as for other dBASE II commands: All, Record n, or Next n.

To make the deletions conditional, expand the command to:

^DELETE [scope] [FOR <expression>]^

where "expression" is a condition or set of conditions that must be met. (This is developed in more detail in Section II).

Type DELETE FILE (drive): (filename) to delete a file. But once you've done this, the data is gone forever, so be careful.

Unlike files, records marked for deletion can be recovered. Rather than erasing the data, DELETE marks each record with an asterisk. You will see the asterisks when you LIST or DISPLAY the records. dBASE II then ignores these records, and does not use them in any processing.

To restore the records, use the following (command:

"RECALL [scope] [FOR <expression>]"

This operates the same way "DELETE" does, with the scope and condition being optional. If a conditional expression is used, it does not have to be the same as was used to mark the records for deletion.

At some point, however, you will want to clean up your files to clarify displays or to make more room for storage. To do this, type:

"PACK".

This erases all records marked for deletion, and tells you how many records are in the database.

Note: once you use this command, the records are lost forever.

To see how these commands work, type the following:

```
*USE Names*

*LIST*

*DELETE RECORD 2*

*DELETE RECORD 4*

*LIST*

*PACK*

*LIST*
```

The screen below shows the first few records in our <Names.DBF> as we perform these commands.

• list				
00001			Everett	WA98206
00002		456 Minnow Pl.	Burlington	MA01730
00003			Los Angeles	
	DESTRY RALPH	234 Mahogany St.		FL33441
00005	EDMUNDS, JIM	392 Vicanous Way	Attanta	GA30328
• delet	e record 2			
00001	DELETION(S)			
 delet 	e record 4			
00001	DELETION(S)			
list				
00001	ALAZAR, PAT	123 Crater Rd.	Everett	WA98206
00002	*BROWN JOHN	456 Minnow Pt.	Burlington	MA01730
00003	CLINKER, DUANE	789 Charles Dr.	Los Angeles	CA90036
00004	*DESTRY RALPH	234 Mahogany St.		FL33441
00005	EDMUNDS, JIM	392 Vicanous Way	Atlanta	GA30328
			2,500	
• recal	record 4			
	record 4			
00001 • itst	record 4	n en en e en		WA98206
00001 • ltst 00001	record 4 RECALL(S).	n en en e en		
00001 • itst 00001 00002	RECALLISI	123 Crater Rd 456 Minnow Pl	Everett	WA98206 MA01730
00001 • list 00001 00002 00003	RECALLISI ALAZAR FAT	123 Crater Rd 456 Minnow Pl	Everett Budington Los Angeles	WA98206 MA01730
00001 • list 00001 00002 00003 00004	ALAZAR FAT *BROWN JOHN CLINKER BUANE	123 Crater Rd 456 Minnow Pt 789 Charles Dr	Everett Budington Los Angeles Deerheld	WA98206 MA01730 CA90036
00001 • list 00001 00002 00003 00004	RECALLISI: ALAZAR FAT BROWN JOHN CLINKER DUANE DESTRY RALPH	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St	Everett Budington Los Angeles Deerheld	WA98206 MA01730 CA90036 FL33441
00001 • list 00001 00002 00003 00004 00005	RECALLISI: ALAZAR FAT BROWN JOHN CLINKER DUANE DESTRY RALPH	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St	Everett Budington Los Angeles Deerheld	WA98206 MA01730 CA90036 FL33441
00001 • list 00001 00002 00003 00004 00005	ALAZAR FAT *BROWN JOHN CUNKER BUANE DESTRY RALPH EDMUNDS, JIM	123 Creter Rd 456 Minnow Pt 789 Charles Dr 234 Mahogany St 392 Vicanous Way	Everett Burlington Los Angeles Deerheid Atlanta	WA98206 MA01730 CA90036 FL33441
00001 • list 00001 00002 00003 00004 00005 • pack PACK (RECALLISI: ALAZAR FAT BROWN JOHN CLINKER DUANE DESTRY RALPH	123 Creter Rd 456 Minnow Pt 789 Charles Dr 234 Mahogany St 392 Vicanous Way	Everett Burlington Los Angeles Deerheid Atlanta	WA98206 MA01730 CA90036 FL33441
00001 • list 00001 00002 00003 00004 00005 • pack PACK (ALAZAR FAT *BROWN JOHN CLINKER GUANE DESTRY RALPH EDMUNDS, JIM	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St 392 Vicanous Way	Everett Burlington Los Angeles Described Attanta	WA98206 MA01730 CA90036 FL33441 GA30328
00001 • list 00001 00002 00003 00004 00005 • pack PACK (• fist 00001	ALAZAR PAT ALAZAR PAT ALAZAR PAT BROWN JOHN CLINKER BUANE DESTRY RALEH EDMUNDS, JIM COMPLETE, 00004 F ALAZAR, PAT	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St 397 Vicanous Way RECORDS COPIED	Everett Burlington Los Angeles Deerlield Atlanta	WA98206 MA01730 CA90036 FL33441 GA30328
00001 • list 00001 00002 00003 00004 00005 • pack PACK (• fist 00001 00002	ALAZAR PAT COMPLETE COMPLETE COMPLETE COMPA ALAZAR PAT COMPLETE COMPA ALAZAR PAT CUNKER DUANE	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St 392 Vicanous Way BECORDS COPIED 123 Crater Rd 789 Charlos Dr.	Everett Burlington Los Angeles Destrietd Attanta Everett Los Angeles	WA98206 MA01730 CA90036 FL33441 GA30328 WA98206 CA96036
00001 • list 00001 00002 00003 00004 00005 • pack PACK (• fist 00001	ALAZAR PAT BROWN JOHN CLINKER DUANE DESTRY RALPH EDMUNDS.JIM COMPLETE, 00004 F ALAZAR, PAT CLINKER, DUANE DESTRY, RALPH	123 Crater Rd 456 Minnow Pl 789 Charles Dr 234 Mahogany St 392 Vicanous Way BECORDS COPIED 123 Crater Rd 789 Charlos Dr.	Everett Burlington Los Angeles Deerlield Attanta Everett Los Angeles Deerheld	WA98206 MA01730 CA90036 FL33441 GA30328

Section I Summary

At this point, you have learned about the power over data that a relational database management system like dBASE II can give you.

You can now "CREATE" a new database and start entering data in minutes.

If you want to change the data, this is easily done with "EDIT", "DELETE", "RECALL" and "PACK".

You can "APPEND" or "IMSERT" more data as required, and "LIST" and "DISPLAY" entire files or precisely selected records. You can also "GOTO" and "SEIP" around within a database quickly and easily.

Additionally, dBASE II can be used interactively as a powerful calculator (and more) with the ?? command.

We have introduced you to expressions and how they can be used to expand the power of dBASE II commands. In the next section, we will go into this in more detail and show you how to get useful information out of your databases quickly and easily.

Before that, please "CREATE" these two files, as we will need them for other examples.

```
ENTER FILENAME MoneyOn
ENTER RECORD STRUCTURE
AS FOLLOWS
       NAME TYPE WIDTH
FIELD DECIMAL PLACES
00:
       Check Date C 7
002
      Check Nmb/C 5
003 ~ Client C 3
004
       JabNumberN 3
005
006
       Descrip C20
007
       Amount N 9.2
008
      Bill Date C.7
009
       Bill Nmbr.C.7
010
       Hours N.6.2
011
       Emp.NmbrN.3
```

```
ENTER FILENAME: orders
ENTER RECORD STRUCTURE
AS FOLLOWS
NAME TYPE WIDTH
001
       CustNmbr.C.9
002
       Item C.20
003
       Qty.N.4
004
      Price N.72
005
      Amount N.9.2
006
      BackOrdr.LT
007
      Ordi Date C. 6
```