PROGRAMMlNG

IN

D BASE

NEAi{ EAST UNlVEHSlTY

OGAN lBHAHIM

(C)1992

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**PREFACE**

This book is aboul lhe DBASE Ill PLUS programming language.

The book is aimed for lhe Iirsl year Universily sludenls sludying Compuler Programming. Compuler Science. or Compuler Jnformalion Systems. The lopics in the book have successfully been laughl lo the second year CJS (Compuler lnformalion Systems) sludenls al the Near Easl University. The book is of inlroduclory nalure and should be completed in one semester.

The book should also be exlremely useful as a self-leaching aid lo a praclising professional who wan ls lo learn lhe DBASE language in order lo create his or her own database.

ome previous knowledge of algorithmic design and experience of al leasl an~ programming language is assumed.

Exercises are provided al lhe end of every chapter lo help sludenls pul .heir knowledge in lo praclice.

e chapters are organised such lhal lhe topics in a chapler are ependenl in many cases upon lhe topics in the previous chapters and as - result of lhis lhe chapter should not be skipped.

e recommended method of sludy is such lhal lhe sludenls should have cess lo a personal compuler while solving lhe exercises.

I am graleful lo my wife who lyped lhe manuscript and also checked lhe ire book for errors.

Dogan Ibrahim

1992 - Nicosia.

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| 262 | !)Nl.LOdNOJ .m ,1.!)010NOHHJ ·gr |
| *Ol2* | SQNVNNO:) ,,.L3S,, 3SVHQ • ·~a |
| t22 | SNOI!:)NO.tf 3SVHQ ·vr |
| l91 | 31dNVX3 N!)IS3Q 3SVHV!VQ "£1 |
| t91 | S3SJ:)H3X3 6'2 l |
| 291 | S3SVHV!VQ 31dl!10W g·2r |
| gg[ | 3SVHQ NI 8N!X3QNJ l"2l |
| tsr | QNVWWO:) M3!11..! !3S 9·2r |
| 29! | 3!)VH3AV QNV NOS g·2r |
| OSI | S.\3)1 NOJ!:)NO..! v·2r |
| 9tl | QNVWWO:) .. NO,, 3H! £·2 l |
| ttl | s:rnoa3:)0Hd 2·2r |
| OtI | V!VQ !)N!!NIHd 1·2r |
| Otl | S:)JdO! :;rsvaa Q3:)NVAQV ·21 |
| 68! | S3SJ:)H3X3 9· 11 |
| l2I | SWVH80Hd 3H! !)N!N8!S3Q g· r I |
| 6 l I | 3H0!:)0tl!S 3SVHV!VQ 3H! !)NI.\ V1dS!Q fl l |
| lll | 3SVHV!VQ 3HJ, 8N!!V3H:) £'11 |
| t!I | SG131.il 3H! 8N!Nl.tf3Q 2' I l |
| IOI | S310GOW WVH!)OHd 31-1! !)N!A.tfl!N3G! r · r r |
| IOI | 31dNVX3 3SVHG :!I!31dW0:) V · r 1 |
| 66 | S3SIJH3X3 ro l |
| 86 | Srt:;I.LS.\S ON:;IW 'o l |

17. GLOSSARY OF COMPUTING TERMS

295

18. SCREEN LAYOUT FORMS

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**1**

**INTRODUCTION**

dalabase is a colleclion of related data ilems. Examples of databases re records of sludenls at a college. cuslomer records in a bank elc.

en il is required lo access a parlicular record in a database, a database anagemenl syslem (DBMS) is used. The DBMS creates lhe database. rovides easy access lo the users in order lo view. update, or add a new ord. Many small applications could be designed using a single database. *:-ge* applications may require a number of separate databases. As an mple. in a large faclory lhere could be need for an employee database. uslomer database. a slock database and so on. The DBMS helps lo

.ale dala in diff ercnl databases.

·.'\SE Ill PLUS is a relalional dalabase which stores dala as tables. These cles consisl of rows and columns as in lhe following example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | STUDENTS | |  |  |
| NAME | STUDENT NO | 1.LASS | AGE | ADDRESS |
| A. Jones | 12306 | 3E | 23 | 21 Vicloria Way |
| D. Smilh | 11289 | 4A | 20 | 10 Charlotte Sl |
| A. Mary | 90122 | 3E | 21 | 23 Alberl Sq |

e above is an example of a dalabase for STUDENTS al a college. Each of the database is known as a RECORD. There are 3 records in the

11

above database. Each column of a database is known as a l•'ll•:LD. There are 5 fields per record in lhe above database.

Bcf ore a database can be used. il musl be created. This is known as defining lhe STIWC'l'Ulrn of Lhe database This includes defining lhc field names and l he characteristics of each filed.

D13ASE Ill PLUS is one of lhc rnosl popular and the most commonly used du la base package available for Lhc personal computers. running under lhe ·MS- DOS opera ling system.

. .

The specifications of D8ASr: 111 Pl.US arc summarised below:

Maximum number of records:

Maximum record size:

Maximum number of fields:

l billion 4000 bytes 12U

Maximum character size:

Muximurn dale field size:

Maximum logical field size:

Maximum memo field size:

Maximum numeric field size:

254 u

1 5000

19 byles

Maximum number of open files:

Maximum command line lenglh:

Largest number:

Smallcsl positive number:

15 254

1 x 10308

1 x 10-:307

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