

# FOXPro 2 the COMPLETE REVERENCE

EDWARD JONES & DAVID NESBITT

A COMPREHENSIVE DESKTOP RESOURCE - IDEAL FOR EVERY FOXPRO 2 USER

# FoxPro 2: The Complete Reference

Edward Jones and David Nesbitt

Osborne McGraw-Hill 2600 Tenth Street Berkeley, California 94710 U.S.A.

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### FoxPro 2: The Complete Reference

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### Introduction

From its more humble beginnings as FoxBASE, Fox Software's relational database manager for the PC has grown into FoxPro 2, a product that many agree sets the standard for database management in the DOS world. FoxPro 2 gives you speed, dBASE compatibility, a powerful applications development environment, and much more. FoxPro also provides relational query-by-example and implementation of SQL commands for fast, simple retrieval of data. You'll find details on all these features and many more in this book.

### **About This Book**

This book is designed to meet the needs of both beginners and intermediate to advanced users of FoxPro. Overall, you will find material that leans toward beginners in the front half of the book, while material that appeals to advanced users is primarily in the back half of the book. Throughout this text, you will find exercises and real-world examples that you can follow to see how you can most effectively use FoxPro. And while you will be better off with the features in the latest version of FoxPro, the book is designed to be used with all versions of FoxPro, up to and including version 2.0.

### How This Book Is Organized

This book is divided into five sections. Part I covers the basics of FoxPro and is written in a demonstration-by-example style. Part II covers programming with FoxPro; this section contains numerous examples of program code that you can adapt to your specific tasks. Part III details the use of FoxPro on a network and how applications can be written for use on a network. Part IV contains a detailed reference to all commands, functions, and system memory variables used by FoxPro, as well as a chapter on how to optimize the FoxPro application. Part V consists of four appendixes containing tables of information helpful to all FoxPro users.

Chapter 1 introduces new users to FoxPro, providing coverage of system requirements, installation, and the menu and command structure of the program. In Chapter 2, FoxPro's user interface is detailed and all menu options are explained, along with instructions for using dialog boxes in FoxPro. Chapter 3 starts off the actual use of databases by showing you how to design database files, how to add and list data, and how to change the structure of a file. Chapter 4 builds on these concepts by showing how data can be rearranged through sorting and indexing.

Chapter 5 shows how you can structure various types of queries to retrieve the data you need. Chapter 6 continues this subject through the use of Relational Query By Example (RQBE), a feature of FoxPro 2. Chapters 7 and 8 deal with getting your desired data on paper, in the form of reports or mailing labels. In Chapter 9, you learn how you can use macros to automate your work, and Chapter 10 shows how you can use FoxPro's power to manage relational databases.

Chapters 11, 12, and 13 are more advanced in nature than the chapters that precede them. In Chapter 11, you'll learn how you can use the screen design tools in FoxPro 2 and in earlier versions of FoxPro to design screens for viewing and editing data. Chapter 12 shows how you can use various FoxPro tools and the Editor in FoxPro, which is used extensively when writing programs. Chapter 13 details the use of the Menu Builder and the Project Manager, tools unique to FoxPro 2 that aid in developing sophisticated applications.

Chapters 14 through 19 cover programming in FoxPro. These chapters contain detailed information on how you can control events within FoxPro programs; how you can handle data entry, editing, and reporting needs; how you can tailor a user interface using FoxPro's powerful commands; and how you can use the more advanced commands and functions within FoxPro for programming needs.

Chapters 20 and 21 specifically deal with the needs of the FoxPro user or programmer on a network: Chapter 20 details the use of FoxPro on a network, while Chapter 21 provides tips and techniques needed when programming applications for use on a network.

In Chapters 22 and 23 you will find a detailed command reference and function reference. These chapters are extensive, so you will have an excellent reference to all FoxPro commands and functions once you are familiar with the program. Chapters 24 and 25 round out the book with coverage of FoxPro's system memory variables and tips on optimizing FoxPro.

The appendixes provide listings of file types and system functions used by FoxPro, along with an ASCII table.

### **Conventions Used in This Book**

Throughout this book, we have attempted to follow style conventions to make your understanding of the various elements of FoxPro use and programming as clear as possible. For example, any items that you are asked to type in will appear in **boldface** type. Key presses are indicated with small caps (ALT-D, for example), variables in syntax statements are set in italic type (exp1, for example), and FoxPro commands and functions are set in uppercase (QUIT, for example). (Note that FoxPro will accept commands typed in either upper- or lowercase. We have chosen uppercase for consistency and readability.)

# Contents at a Glance

| Part 1 | Using FoxPro                                       | 1   |
|--------|----------------------------------------------------|-----|
| 1      | Getting Started with FoxPro                        | 3   |
| 2      | The FoxPro User Interface                          | 15  |
| 3      | Creating and Adding Information to Databases       | 37  |
| 4      | Sorting and Indexing a Database                    | 63  |
| 5      | Performing Queries                                 | 83  |
| 6      | Creating Queries with RQBE                         | 97  |
| 7      | Reports                                            | 113 |
| 8      | Designing Labels                                   | 137 |
| 9      | Macros                                             | 149 |
| 10     | The Relational Powers of FoxPro                    | 157 |
| 11     | Creating Screens                                   | 175 |
| 12     | FoxPro Tools and the FoxPro Editor                 | 207 |
| 13     | The Project Manager and FoxPro's Power Tools       | 233 |
| Part I | Programming in FoxPro                              | 249 |
| 14     | The Basics of FoxPro Programming                   | 251 |
| 15     | Using Memory Variables                             | 265 |
| 16     | Process Control in a FoxPro Program                | 279 |
| 17     | Programming for Data Entry, Editing, and Reporting | 293 |
| 18     | Programming with the FoxPro User Interface         | 317 |
| 19     | Advanced Topics                                    | 351 |
|        |                                                    |     |

| Part I | II Networking with FoxPro              | 369 |
|--------|----------------------------------------|-----|
| 20     | Using FoxPro on a Network              | 371 |
| 21     | Network Programming                    | 383 |
| Part I | V Reference                            | 391 |
| 22     | Command Reference                      | 393 |
| 23     | Function Reference                     | 647 |
| 24     | FoxPro System Memory Variables         | 747 |
| 25     | Optimizing FoxPro                      | 763 |
| Part V | Appendixes                             | 775 |
| A      | File Types Used by FoxPro              | 777 |
| В      | System Functions                       | 779 |
| C      | dBASE Commands Not Supported by FoxPro | 781 |
| Ď      | ASCII Codes                            | 783 |

# **Contents**

|    |                                                                               | 13<br>14                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                               | 14                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | Menu Builder                                                                  | 14                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | 2                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | The FoxPro User Interface                                                     | 15                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3  | Using the Mouse with FoxPro                                                   | 15                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3  | Mouse Tips                                                                    | 16                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | Using the Keyboard                                                            | 16                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4  | The FoxPro Menu System                                                        | 18                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | Making Menu Selections                                                        | 19                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4  | Canceling a Menu Selection                                                    | 19                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4  | Summary of Menu Options                                                       | 19                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4  | The System Menu                                                               | 20                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5  | File Menu                                                                     | 21                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | Edit Menu                                                                     | 23                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6  | Database Menu                                                                 | 24                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7  | Record Menu                                                                   | 26                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7  | Program Menu                                                                  | 27                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8  | Window Menu                                                                   | 29                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8  | Working with Windows                                                          | 30                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8  |                                                                               | 31                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8  |                                                                               | 31                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9  |                                                                               | 32                                                                                                                                                                                                                                                                                                                                                                                                       |
| 9  |                                                                               | 32                                                                                                                                                                                                                                                                                                                                                                                                       |
| 10 |                                                                               | 33                                                                                                                                                                                                                                                                                                                                                                                                       |
| 11 |                                                                               | 33                                                                                                                                                                                                                                                                                                                                                                                                       |
| 12 | Closing a Window                                                              | 33                                                                                                                                                                                                                                                                                                                                                                                                       |
|    | 3<br>4<br>4<br>4<br>4<br>5<br>6<br>7<br>7<br>8<br>8<br>8<br>8<br>9<br>9<br>10 | The FoxPro User Interface  Using the Mouse with FoxPro Mouse Tips Using the Keyboard  The FoxPro Menu System Making Menu Selections Canceling a Menu Selection Summary of Menu Options  The System Menu File Menu Edit Menu Database Menu Record Menu Program Menu Window Menu Working with Windows Opening a Window Adjusting the Size Moving a Window Hiding a Window Changing Windows The Zoom Option |

| Dialog Boxes                   | 34       | 4                              |            |
|--------------------------------|----------|--------------------------------|------------|
| Check Boxes                    | 34       | Carting and Indonesia          |            |
| List Boxes                     | 34       | Sorting and Indexing a         |            |
| Pushbuttons                    | 35       | Database                       | 63         |
| Radio Buttons                  | 35       | Sorting                        | 64         |
| Pulldown Control               | 36       | Selecting a Sort Field         | 65         |
|                                |          | Sorting on Multiple Fields     | 68         |
|                                |          | Using Ascending and Descending | g          |
| ٥                              |          | Sort Orders Together           | <b>~70</b> |
| 3                              |          | Using the FOR Clause to Sort   |            |
| Creating and Adding            |          | Selected Records               | 71         |
| Information to Databases       | 37       | Using the FOR Clause to Sort   |            |
| What Is a Database?            | 37       | Selected Fields                | 72         |
|                                | 37       | A Caveat                       | 72         |
| Data Types                     | _        | Indexing                       | 72         |
| Creating a New Database        | 38       | Indexing with the INDEX        |            |
| The Database Structure         | 40       | Command                        | 73         |
| Dialog Box                     | 40       | Indexing with the FoxPro       |            |
| Correcting Mistakes            | 41       | Menus                          | 75         |
| Inserting, Moving, and         | 41       | Selective Indexing with the    |            |
| Deleting Fields                | 41       | FOR Clause                     | 77         |
| The Structure Menu             | 42       | Indexing on Multiple Fields    | 78         |
| Saving the Database Structure  | 42       | Indexing on Fields of          |            |
| Adding Information to the      | 40       | Different Types                | 79         |
| Database                       | 43       | Opening Databases with         |            |
| Adding Data to Memo Fields     | 45       | Îndex Files                    | 80         |
| Using the Edit Mode            | 49       | Using the SET INDEX and        |            |
| The Browse Mode                | 49       | SET ORDER Commands             | 81         |
| The Browse Menu                | 51       | Using REINDEX                  | 82         |
| Splitting the Browse Window    | ۳0       | Using CLOSE INDEX              | 82         |
| and Using Edit                 | 53       | · ·                            |            |
| Adjusting Field Sizes and      | -0       | 5                              |            |
| Positions                      | 53       | Performing Queries             | 83         |
| Unlinked Partitions            | 54       |                                | 83         |
| Displaying Multiple Databases  |          | The Anatomy of an Expression   | 84         |
| in Browse Mode                 | 55       | Relational Operators           | 85         |
| Using the LIST and DISPLAY     | 55       | Logical Operators              | 86         |
| Commands                       | 55<br>57 | Arithmetical Operators         | 86         |
| Searching Within a Field       | 37       | String Operators Functions     | 87         |
| Deleting and Recalling Records | E 17     |                                | 88         |
| from the Database              | 57<br>57 | Performing Queries Locate      | 88         |
| Deleting Records               | 57<br>59 | The Continue Option            | 91         |
| Recalling a Deleted Record     | 59       | The LOCATE FOR Command         | 91         |
| Using the SET DELETED          | 60       | The Seek Option                | 92         |
| Command                        | 00       | The SEEK Command               | 93         |
| Deleting and Recalling         | 60       | The FIND Command               | 93         |
| Multiple Records               | υυ       | Using the SET FILTER           | 50         |
| Modifying the Structure of a   | 61       | Command to Select Subsets      |            |
| Database Saving the Changes    | 61<br>62 | of Data                        | 94         |
| Naving the Linanges            | UZ       | UL Data                        | - 1        |

| 6                             |     | Title/Summary                   | 124 |
|-------------------------------|-----|---------------------------------|-----|
|                               |     | Box                             | 124 |
| Creating Queries with         |     | Field                           | 125 |
| RQBE                          | 97  | Text                            | 126 |
| About Rushmore                | 97  | Add and Remove Line             | 126 |
| Using the RQBE Window         | 98  | Bring to Front and Send to      |     |
| Choosing Databases for Use    |     | Back                            | 126 |
| with the Query                | 99  | Center                          | 127 |
| Choosing Fields for the Query |     | Quick Report                    | 127 |
| Results                       | 100 | The Report Expression Dialog    |     |
| Choosing an Order for the     |     | Box                             | 127 |
| Query Results                 | 100 | Printing and Displaying Reports | 130 |
| Grouping the Query Results    | 100 | A Sample Custom Report          | 131 |
| Specifying the Output         |     | Producing Reports at the        |     |
| Destination                   | 101 | Command Level                   | 133 |
| Sample RQBE Window Queries    | 101 | Commands for Margin Settings    |     |
| Examining the SELECT          |     | and Manual Ejects               | 135 |
| Command                       | 102 | 3                               |     |
| Inserting and Removing        |     | 0                               |     |
| Selection Criteria            | 104 | 8 ———                           |     |
| Using Logical Operators in    |     | Designing Labels                | 137 |
| Queries                       | 104 | Creating Labels                 | 137 |
| The .AND. Condition           | 105 | The Label Design Screen         | 138 |
| The .OR. Condition            | 106 | The Expression Builder          | 140 |
| Using Date Ranges in Queries  | 106 | Page Preview                    | 141 |
| Specifying the Sort Order for |     | Saving a Custom Label Layout    | 142 |
| Your Results                  | 106 | Saving the Label Form           | 142 |
| Creating Queries Using        |     | Printing Labels                 | 142 |
| Selected Fields               | 108 | Tips for Printing Labels        | 145 |
| Changing the Query Output     | 109 | An Example Label                | 14  |
| Saving and Reusing Queries    | 112 | Modifying Existing Labels       | 148 |
| Reusing Saved Queries         | 112 | Widditying Existing Exects      |     |
| 7                             |     | 9                               |     |
| Reports                       | 113 | Macros                          | 149 |
| The Report Creation Process   | 113 | Third-Party Macro Facilities    | 149 |
| Types of Reports              | 113 | Assigning Macros to Keys        | 150 |
| Quick Reports                 | 114 | Creating a Macro                | 150 |
| A Sample Quick Report         | 117 | The Keyboard Macros Dialog      |     |
| Customized Reports            | 117 | Box                             | 15  |
| Examining the Report Layout   |     | A Sample Macro                  | 15  |
| Window                        | 118 | Saving Macros                   | 15  |
| Manipulating Objects in the   |     | Tips for Creating and Using     |     |
| Report Layout Window          | 119 | Macros                          | 15  |
| The Report Menu Options       | 120 | Adding to Existing Macros       | 15  |
|                               | 120 | Inserting Literals and Adding   |     |
| Page Layout                   | 121 | Pauses in Macros                | 15  |
| Page Preview<br>Data Grouping | 122 | Limitations of Macros           | 15  |
| Data Grouping                 |     |                                 |     |

| 10 ———                           |         | Commands Available in        |     |
|----------------------------------|---------|------------------------------|-----|
| The Relational Powers of         |         | FoxView                      | 192 |
|                                  | <b></b> | Using Forms View to Create a |     |
| FoxPro                           | 157     | Form                         | 193 |
| Understanding Relational         |         | Moving Fields                | 194 |
| Databases                        | 158     | Changing Field Labels        | 194 |
| Ways to Relate Databases in      |         | Adding Text                  | 195 |
| FoxPro                           | 158     | Saving Screen Format Files   | 196 |
| Creating the HOURS Database      | 159     | Leaving FoxView              | 197 |
| Querying from Two Databases      | 160     | Using a Screen Format File   | 197 |
| A Sample Relational Query        | 162     | Modifying a Screen Form      | 198 |
| The View Window                  | 163     | Drawing Boxes                | 198 |
| Setting Relations Through the    |         | Changing Colors              | 199 |
| View Window                      | 165     | More About Table View        | 199 |
| Relating Files with SET          |         | Moving Fields and Objects in |     |
| RELATION                         | 168     | Table View                   | 204 |
| A Warning About                  |         | A Note About FoxView and     |     |
| Relationships and Indexes        | 171     | DOS                          | 205 |
| Using View Files to Store        |         |                              |     |
| Relationships                    | 171     | 12 ————                      |     |
| Creating Relational Reports      | 172     | FoxPro Tools and the         |     |
| Analyzing Types of Relationships | 172     |                              | 005 |
| 11                               |         | FoxPro Editor                | 207 |
| 11 ————                          |         | Desk Accessories             | 207 |
| Creating Screens                 | 175     | Calculator                   | 207 |
| Differences Between Versions of  |         | Calendar/Diary               | 209 |
| FoxPro                           | 175     | Special Characters           | 211 |
| The FoxPro 2 Screen Painter      |         | ASCII Chart                  | 213 |
| and Format Files                 | 176     | Capture                      | 214 |
| Starting the FoxPro Screen       |         | Filer                        | 214 |
| Painter                          | 176     | The FoxPro Editor            | 220 |
| The Screen Menu                  | 176     | Creating a New File          | 221 |
| Placing Fields                   | 178     | Opening Existing Files       | 222 |
| Placing Text                     | 180     | Saving and Closing Files     | 222 |
| Moving and Deleting Objects      | 181     | Entering Text                | 223 |
| Placing Boxes                    | 181     | Cursor Movement              | 224 |
| Placing Pushbuttons              | 181     | Selecting Text               | 224 |
| Placing Radio Buttons            | 183     | Cut, Copy, and Paste         | 225 |
| Placing Check Boxes              | 184     | Find and Replace             | 226 |
| Placing Popups                   | 185     | Printing Files               | 227 |
| Placing Lists                    | 186     | Setting Preferences          | 228 |
| Further Control of Screen        |         | Redefining the Editor with   |     |
| Objects                          | 187     | Macros                       | 230 |
| Saving Screens and Generating    |         |                              |     |
| Code                             | 188     | 13 ——————                    |     |
| Using Screens                    | 189     | — <del>-</del>               |     |
| A Screen Painter Example         | 190     | The Project Manager and      | 000 |
| Creating Entry Forms with        |         | FoxPro's Power Tools         | 233 |
| FoxView                          | 191     | The Menu Builder             | 234 |

| The Menu Design Window                                                                                                                                                                                                                                                                                                    | 234                                                                                                   | 15                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Assigning Hot Keys                                                                                                                                                                                                                                                                                                        | 234                                                                                                   | Using Mamory Variables                                                                                                                                                                                                                                                                                                                                                                                     | 265                                             |
| Responding to Menu Pads                                                                                                                                                                                                                                                                                                   | 235                                                                                                   | Using Memory Variables                                                                                                                                                                                                                                                                                                                                                                                     | 266                                             |
| Creating a Submenu                                                                                                                                                                                                                                                                                                        | 236                                                                                                   | Types of Memory Variables                                                                                                                                                                                                                                                                                                                                                                                  | 200                                             |
| Creating Divider Lines in                                                                                                                                                                                                                                                                                                 |                                                                                                       | Creating and Naming Memory Variables                                                                                                                                                                                                                                                                                                                                                                       | 266                                             |
| Submenus                                                                                                                                                                                                                                                                                                                  | 236                                                                                                   | Creating Character Variables                                                                                                                                                                                                                                                                                                                                                                               | 267                                             |
| Saving the Completed Menu                                                                                                                                                                                                                                                                                                 | 236                                                                                                   | Creating Numeric Variables                                                                                                                                                                                                                                                                                                                                                                                 | 268                                             |
| Generating Menu Code                                                                                                                                                                                                                                                                                                      | 236                                                                                                   | Creating Date Variables                                                                                                                                                                                                                                                                                                                                                                                    | 269                                             |
| The Project Manager                                                                                                                                                                                                                                                                                                       | 237                                                                                                   | Creating Logical Variables                                                                                                                                                                                                                                                                                                                                                                                 | 270                                             |
| A Note About Stand-Alone                                                                                                                                                                                                                                                                                                  | 00=                                                                                                   | Viewing the Contents of Memory                                                                                                                                                                                                                                                                                                                                                                             | 2,0                                             |
| Programs                                                                                                                                                                                                                                                                                                                  | 237                                                                                                   | Variables                                                                                                                                                                                                                                                                                                                                                                                                  | 270                                             |
| Creating a Project                                                                                                                                                                                                                                                                                                        | 238                                                                                                   | Releasing Variables from                                                                                                                                                                                                                                                                                                                                                                                   | 2,10                                            |
| The Project Menu Options                                                                                                                                                                                                                                                                                                  | 240                                                                                                   | Memory                                                                                                                                                                                                                                                                                                                                                                                                     | 271                                             |
| Creating Applications                                                                                                                                                                                                                                                                                                     | 242                                                                                                   | Memory Variable Files                                                                                                                                                                                                                                                                                                                                                                                      | 272                                             |
| Building a Sample Project and                                                                                                                                                                                                                                                                                             | 0.40                                                                                                  | Hiding and Showing Variables                                                                                                                                                                                                                                                                                                                                                                               | 4.7                                             |
| Application                                                                                                                                                                                                                                                                                                               | 243                                                                                                   | with PRIVATE and PUBLIC                                                                                                                                                                                                                                                                                                                                                                                    | 272                                             |
|                                                                                                                                                                                                                                                                                                                           |                                                                                                       | Arrays                                                                                                                                                                                                                                                                                                                                                                                                     | 274                                             |
|                                                                                                                                                                                                                                                                                                                           |                                                                                                       | Macro Substitution                                                                                                                                                                                                                                                                                                                                                                                         | 277                                             |
|                                                                                                                                                                                                                                                                                                                           |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |
|                                                                                                                                                                                                                                                                                                                           | يبا كرية                                                                                              | 16                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| II                                                                                                                                                                                                                                                                                                                        |                                                                                                       | Process Control in a FoxPi                                                                                                                                                                                                                                                                                                                                                                                 | -                                               |
|                                                                                                                                                                                                                                                                                                                           |                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                            | $\alpha = \alpha$                               |
|                                                                                                                                                                                                                                                                                                                           | ••                                                                                                    | Program                                                                                                                                                                                                                                                                                                                                                                                                    | 279                                             |
| Programming in FoxPr                                                                                                                                                                                                                                                                                                      | ·o                                                                                                    | Program Sequential Processing with DO,                                                                                                                                                                                                                                                                                                                                                                     | 279                                             |
|                                                                                                                                                                                                                                                                                                                           | .0                                                                                                    | •                                                                                                                                                                                                                                                                                                                                                                                                          | <b>279</b> 279                                  |
|                                                                                                                                                                                                                                                                                                                           | ·o                                                                                                    | Sequential Processing with DO,                                                                                                                                                                                                                                                                                                                                                                             | -                                               |
|                                                                                                                                                                                                                                                                                                                           | ·o                                                                                                    | Sequential Processing with DO, RETURN, RUN, and CALL                                                                                                                                                                                                                                                                                                                                                       | 279<br>282                                      |
| Programming in FoxPr                                                                                                                                                                                                                                                                                                      | •••                                                                                                   | Sequential Processing with DO,<br>RETURN, RUN, and CALL<br>Using RUN to Run Other<br>Programs<br>LOAD and CALL                                                                                                                                                                                                                                                                                             | 279                                             |
| Programming in FoxPro  14  The Basics of FoxPro                                                                                                                                                                                                                                                                           |                                                                                                       | Sequential Processing with DO,<br>RETURN, RUN, and CALL<br>Using RUN to Run Other<br>Programs                                                                                                                                                                                                                                                                                                              | 279<br>282<br>283                               |
| Programming in FoxPro  14  The Basics of FoxPro Programming                                                                                                                                                                                                                                                               | 251                                                                                                   | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning                                                                                                                                                                                                                                                                      | 279<br>282                                      |
| Programming in FoxPro  14  The Basics of FoxPro                                                                                                                                                                                                                                                                           |                                                                                                       | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE,                                                                                                                                                                                                                                     | 279<br>282<br>283<br>284                        |
| Programming in FoxPro  14  The Basics of FoxPro Programming                                                                                                                                                                                                                                                               | 251<br>251<br>254                                                                                     | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning                                                                                                                                                                                                                                                                      | 279<br>282<br>283<br>284<br>285                 |
| Programming in FoxPro  14  The Basics of FoxPro  Programming  A Sample Program                                                                                                                                                                                                                                            | <b>251</b> 251                                                                                        | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function                                                                                                                                                                                               | 279<br>282<br>283<br>284                        |
| Programming in FoxPro  14  The Basics of FoxPro Programming A Sample Program Creating Programs                                                                                                                                                                                                                            | 251<br>251<br>254<br>254                                                                              | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with                                                                                                                                                              | 279 282 283 284 285 286                         |
| Programming in FoxPro  14  The Basics of FoxPro Programming A Sample Program Creating Programs Using the FoxPro Editor                                                                                                                                                                                                    | 251<br>251<br>254                                                                                     | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE                                                                                                                                                      | 279<br>282<br>283<br>284<br>285                 |
| Programming in FoxPro  14  The Basics of FoxPro Programming  A Sample Program Creating Programs Using the FoxPro Editor Using Another Word Processor Compiling Versus                                                                                                                                                     | 251<br>251<br>254<br>254<br>255                                                                       | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO                                                                                                                        | 279 282 283 284 285 286                         |
| Programming in FoxPro  14  The Basics of FoxPro Programming  A Sample Program Creating Programs Using the FoxPro Editor Using Another Word Processor Compiling Versus Interpreting                                                                                                                                        | 251<br>251<br>254<br>254<br>255<br>255                                                                | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and                                                                                                         | 279 282 283 284 285 286 287                     |
| Programming in FoxPro  14  The Basics of FoxPro Programming  A Sample Program Creating Programs Using the FoxPro Editor Using Another Word Processor Compiling Versus                                                                                                                                                     | 251<br>251<br>254<br>254<br>255<br>255<br>255                                                         | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO                                                                                                                        | 279 282 283 284 285 286                         |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants                                                                                                    | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>256                                           | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN                                                                                             | 279 282 283 284 285 286 287                     |
| Programming in FoxPro  The Basics of FoxPro Programming  A Sample Program Creating Programs Using the FoxPro Editor Using Another Word Processor Compiling Versus Interpreting Programming Concepts                                                                                                                       | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>256<br>257                                    | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN                                                                                             | 279 282 283 284 285 286 287                     |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants                                                                                                    | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>256<br>257<br>257                             | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN                                                                                             | 279 282 283 284 285 286 287                     |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators                                                          | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>257<br>257<br>258                             | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17  Programming for Data                                                                   | 279 282 283 284 285 286 287                     |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions                                               | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>256<br>257<br>257                             | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17  Programming for Data Entry, Editing, and                                               | 279 282 283 284 285 286 287 288                 |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions  Some Commonly Used                           | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>257<br>257<br>258<br>260                      | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17  Programming for Data Entry, Editing, and Reporting                                     | 279 282 283 284 285 286 287 288                 |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions  Some Commonly Used  Commands                 | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>256<br>257<br>257<br>258<br>260                      | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN 17 Programming for Data Entry, Editing, and Reporting ACCEPT, INPUT, and WAIT               | 279 282 283 284 285 286 287 288                 |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions  Some Commonly Used  Commands  SET TALK       | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>257<br>257<br>257<br>258<br>260<br>261<br>261        | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17 Programming for Data Entry, Editing, and Reporting ACCEPT, INPUT, and WAIT ACCEPT       | 279 282 283 284 285 286 287 288 293 293 293     |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions  Some Commonly Used  Commands  SET TALK  SKIP | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>257<br>257<br>257<br>258<br>260<br>261<br>261<br>261 | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17 Programming for Data Entry, Editing, and Reporting ACCEPT, INPUT, and WAIT ACCEPT INPUT | 279 282 283 284 285 286 287 288 293 293 293 294 |
| Programming in FoxPro  The Basics of FoxPro  Programming  A Sample Program  Creating Programs  Using the FoxPro Editor  Using Another Word  Processor  Compiling Versus  Interpreting  Programming Concepts  Constants  Memory Variables  Expressions  Operators  Functions  Some Commonly Used  Commands  SET TALK       | 251<br>251<br>254<br>254<br>255<br>255<br>256<br>257<br>257<br>257<br>258<br>260<br>261<br>261        | Sequential Processing with DO, RETURN, RUN, and CALL Using RUN to Run Other Programs LOAD and CALL Assembler Guidelines and a Warning FoxPro's Conditionals: IF, ELSE, and ENDIF The Immediate IF() Function Evaluating Multiple Choices with DO CASE Repetitive Processing with DO WHILEENDDO and SCANENDSCAN  17 Programming for Data Entry, Editing, and Reporting ACCEPT, INPUT, and WAIT ACCEPT       | 279 282 283 284 285 286 287 288 293 293 293     |

| Using Colors with                                                                                                                                                                                                                                                                                                                                         |                                                             | Bar Menus Using                                                                                                                                                                                                                                                      |                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| @SAYGET Commands                                                                                                                                                                                                                                                                                                                                          | 297                                                         | @PROMPT and MENU                                                                                                                                                                                                                                                     |                                               |
| Using @CLEAR to                                                                                                                                                                                                                                                                                                                                           |                                                             | TO                                                                                                                                                                                                                                                                   | 325                                           |
| Selectively Clear Screens                                                                                                                                                                                                                                                                                                                                 | 298                                                         | Implementing Pulldown Menus                                                                                                                                                                                                                                          |                                               |
| Working with Memo Fields                                                                                                                                                                                                                                                                                                                                  | 299                                                         | in FoxPro                                                                                                                                                                                                                                                            | 325                                           |
| Using TEXTENDTEXT to                                                                                                                                                                                                                                                                                                                                      |                                                             | Implementing Pick Lists                                                                                                                                                                                                                                              | 328                                           |
| Display Messages                                                                                                                                                                                                                                                                                                                                          | 300                                                         | FoxPro and Windows                                                                                                                                                                                                                                                   | 330                                           |
| Data Entry and Editing Under                                                                                                                                                                                                                                                                                                                              |                                                             | Defining the Window                                                                                                                                                                                                                                                  | 331                                           |
| Program Control                                                                                                                                                                                                                                                                                                                                           | 301                                                         | Activating and Using the                                                                                                                                                                                                                                             |                                               |
| Adding Data Under Program                                                                                                                                                                                                                                                                                                                                 |                                                             | Window                                                                                                                                                                                                                                                               | 332                                           |
| Control                                                                                                                                                                                                                                                                                                                                                   | 301                                                         | Deactivating the Window                                                                                                                                                                                                                                              | 333                                           |
| Editing Records Under                                                                                                                                                                                                                                                                                                                                     |                                                             | An Example of the Use of                                                                                                                                                                                                                                             |                                               |
| Program Control                                                                                                                                                                                                                                                                                                                                           | 303                                                         | Windows                                                                                                                                                                                                                                                              | 334                                           |
| Deleting Records Under                                                                                                                                                                                                                                                                                                                                    |                                                             | IN WINDOW                                                                                                                                                                                                                                                            | 334                                           |
| Program Control                                                                                                                                                                                                                                                                                                                                           | 305                                                         | Drawing Boxes                                                                                                                                                                                                                                                        | 336                                           |
| Using BROWSE for Data Entry                                                                                                                                                                                                                                                                                                                               |                                                             | Using Colors in FoxPro                                                                                                                                                                                                                                               | 336                                           |
| and Editing                                                                                                                                                                                                                                                                                                                                               | 306                                                         | Color Pairs                                                                                                                                                                                                                                                          | 337                                           |
| Producing Reports Under                                                                                                                                                                                                                                                                                                                                   |                                                             | Color Schemes                                                                                                                                                                                                                                                        | 339                                           |
| Program Control                                                                                                                                                                                                                                                                                                                                           | 308                                                         | Color Sets                                                                                                                                                                                                                                                           | 341                                           |
| LIST and DISPLAY                                                                                                                                                                                                                                                                                                                                          | 308                                                         | Remember the Users                                                                                                                                                                                                                                                   | 342                                           |
| Using Stored Reports and                                                                                                                                                                                                                                                                                                                                  |                                                             | Implementing Custom Help                                                                                                                                                                                                                                             | 345                                           |
| Labels in Programs                                                                                                                                                                                                                                                                                                                                        | 309                                                         |                                                                                                                                                                                                                                                                      |                                               |
| Writing Reports with Program                                                                                                                                                                                                                                                                                                                              |                                                             | 19 ———                                                                                                                                                                                                                                                               |                                               |
| Code                                                                                                                                                                                                                                                                                                                                                      | 312                                                         | _ <del>-</del>                                                                                                                                                                                                                                                       | ~~1                                           |
| Sending Escape Codes to the                                                                                                                                                                                                                                                                                                                               |                                                             | Advanced Topics                                                                                                                                                                                                                                                      | 351                                           |
| Printer                                                                                                                                                                                                                                                                                                                                                   | 315                                                         | Debugging Applications                                                                                                                                                                                                                                               | 351                                           |
|                                                                                                                                                                                                                                                                                                                                                           |                                                             | 0-m -0770 1 1 70                                                                                                                                                                                                                                                     |                                               |
|                                                                                                                                                                                                                                                                                                                                                           |                                                             | SET ECHO and the Trace                                                                                                                                                                                                                                               |                                               |
| 18                                                                                                                                                                                                                                                                                                                                                        |                                                             | Window                                                                                                                                                                                                                                                               | 352                                           |
| 18                                                                                                                                                                                                                                                                                                                                                        | <del></del>                                                 |                                                                                                                                                                                                                                                                      | 353                                           |
| 18 ————————————————————————————————————                                                                                                                                                                                                                                                                                                                   | 015                                                         | Window                                                                                                                                                                                                                                                               |                                               |
| Programming with the FoxPro User Interface                                                                                                                                                                                                                                                                                                                | 317                                                         | Window SET STEP Using the Debug Window Setting Breakpoints in the                                                                                                                                                                                                    | 353                                           |
| Programming with the FoxPro User Interface Building Effective Menus                                                                                                                                                                                                                                                                                       | 317                                                         | Window<br>SET STEP<br>Using the Debug Window                                                                                                                                                                                                                         | 353                                           |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus                                                                                                                                                                                                                                                                             | 317<br>318                                                  | Window SET STEP Using the Debug Window Setting Breakpoints in the                                                                                                                                                                                                    | 353<br>354<br>354                             |
| Programming with the FoxPro User Interface Building Effective Menus                                                                                                                                                                                                                                                                                       | 317<br>318<br>319                                           | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows                                                                                                                                                                             | 353<br>354                                    |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus                                                                                                                                                                                                                                                                             | 317<br>318                                                  | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions                                                                                                       | 353<br>354<br>354                             |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus Popup Menus                                                                                                                                                                                                                                                                 | 317<br>318<br>319<br>319                                    | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions                                                                                                       | 353<br>354<br>354<br>355                      |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus Popup Menus Pulldown Menus                                                                                                                                                                                                                                                  | 317<br>318<br>319                                           | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application                                                                                                                                      | 353<br>354<br>354<br>355<br>358               |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User                                                                                                                                                                                                                                | 317<br>318<br>319<br>319<br>319                             | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY()                                                                                 | 353<br>354<br>354<br>355<br>358<br>363        |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User Friendliness                                                                                                                                                                                                                   | 317<br>318<br>319<br>319                                    | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY()                                                                                 | 353<br>354<br>354<br>355<br>358<br>363        |
| Programming with the FoxPro User Interface Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User Friendliness Implementing Popup Menus in                                                                                                                                                                                       | 317<br>318<br>319<br>319<br>319<br>320                      | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363        |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO                                                                                                                                      | 317<br>318<br>319<br>319<br>319                             | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT                                                                                                                                                   | 317<br>318<br>319<br>319<br>319<br>320                      | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO  Popups Using DEFINE  POPUP and ON                                                                                                   | 317<br>318<br>319<br>319<br>319<br>320<br>320               | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO  Popups Using DEFINE  POPUP and ON  SELECTION POPUP                                                                                  | 317<br>318<br>319<br>319<br>319<br>320                      | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO  Popups Using DEFINE  POPUP and ON                                                                                                   | 317<br>318<br>319<br>319<br>319<br>320<br>320               | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions  III Networking with FoxPa                               | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO  Popups Using DEFINE  POPUP and ON  SELECTION POPUP  Popups Using @MENU and  READ MENU TO                                            | 317<br>318<br>319<br>319<br>319<br>320<br>320               | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions                                                          | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus  Bar Menus  Popup Menus  Pulldown Menus  A Note About User  Friendliness  Implementing Popup Menus in FoxPro  Popups Using @PROMPT  and MENU TO  Popups Using DEFINE  POPUP and ON  SELECTION POPUP  Popups Using @MENU and  READ MENU TO  Implementing Bar Menus in                 | 317<br>318<br>319<br>319<br>319<br>320<br>320<br>321<br>322 | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions  III Networking with FoxPi                               | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User Friendliness Implementing Popup Menus in FoxPro Popups Using @PROMPT and MENU TO Popups Using DEFINE POPUP and ON SELECTION POPUP Popups Using @MENU and READ MENU TO Implementing Bar Menus in FoxPro                        | 317<br>318<br>319<br>319<br>319<br>320<br>320               | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions  III Networking with FoxPi  20 Using FoxPro on           | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User Friendliness Implementing Popup Menus in FoxPro Popups Using @PROMPT and MENU TO Popups Using DEFINE POPUP and ON SELECTION POPUP Popups Using @MENU and READ MENU TO Implementing Bar Menus in FoxPro Bar Menus Using DEFINE | 317<br>318<br>319<br>319<br>319<br>320<br>320<br>321<br>322 | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions  III Networking with FoxPi  20 Using FoxPro on a Network | 353<br>354<br>354<br>355<br>358<br>363<br>365 |
| Programming with the FoxPro User Interface  Building Effective Menus Bar Menus Popup Menus Pulldown Menus A Note About User Friendliness Implementing Popup Menus in FoxPro Popups Using @PROMPT and MENU TO Popups Using DEFINE POPUP and ON SELECTION POPUP Popups Using @MENU and READ MENU TO Implementing Bar Menus in FoxPro                        | 317<br>318<br>319<br>319<br>319<br>320<br>320<br>321<br>322 | Window SET STEP Using the Debug Window Setting Breakpoints in the Trace or Debug Windows Handling Errors Within the Application Using Low-Level File Functions INKEY() and READKEY() User-Defined Functions  III Networking with FoxPi  20 Using FoxPro on           | 353<br>354<br>354<br>355<br>358<br>363<br>365 |

| 372 | @EDIT                                                                                                                 | 399                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 372 | @FILL TO                                                                                                              | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | @GET to Make Check Boxes                                                                                              | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 373 | @GET to Make Invisible                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 373 | Buttons                                                                                                               | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 374 | @GET to Make List Boxes                                                                                               | 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 375 |                                                                                                                       | 405                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 375 | @GET to Make Pushbuttons                                                                                              | 407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | @GET to Make Radio Buttons                                                                                            | 408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 376 | @MENU                                                                                                                 | 410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | @PROMPT                                                                                                               | 410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 376 | @TO                                                                                                                   | 411                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 377 | ACCEPT                                                                                                                | 412                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 378 | ACTIVATE MENU                                                                                                         | 413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 379 | ACTIVATE POPUP                                                                                                        | 414                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 379 | ACTIVATE SCREEN                                                                                                       | 415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | ACTIVATE WINDOW                                                                                                       | 416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 379 | APPEND                                                                                                                | 418                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | APPEND FROM                                                                                                           | 418                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 380 | APPEND FROM ARRAY                                                                                                     | 419                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 380 | APPEND MEMO                                                                                                           | 420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 381 | AVERAGE                                                                                                               | 421                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | BROWSE                                                                                                                | 422                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | BUILD APP                                                                                                             | 425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 383 | BUILD PROJECT                                                                                                         | 426                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CALCULATE                                                                                                             | 426                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 384 | CALL                                                                                                                  | 428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 385 | CANCEL                                                                                                                | 429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CHANGE                                                                                                                | 430                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR                                                                                                                 | 431                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 388 | CLEAR ALL                                                                                                             | 432                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR FIELDS                                                                                                          | 432                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 389 | CLEAR GETS                                                                                                            | 433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR MACROS                                                                                                          | 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR MEMORY                                                                                                          | 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR MENUS                                                                                                           | 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR POPUPS                                                                                                          | 435                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR PROGRAM                                                                                                         | 436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR PROMPT                                                                                                          | 436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | CLEAR READ                                                                                                            | 436                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |                                                                                                                       | 437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |                                                                                                                       | 437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     |                                                                                                                       | 438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 393 | CLOSE MEMO                                                                                                            | 438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 393 | COMPILE                                                                                                               | 439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 394 | CONTINUE                                                                                                              | 439                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 394 | COPY                                                                                                                  | 441                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 395 | COPY FILE                                                                                                             | 442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 396 | COPY INDEXES                                                                                                          | 442                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 397 | COPY MEMO                                                                                                             | 443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 398 | COPY STRUCTURE                                                                                                        | 444                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|     | 372 373 373 374 375 375 375 376 376 377 378 379 379 380 380 381  383 384 385 386 388 388 389  393 394 394 395 396 397 | ### Company of Company |

| COPY STRUCTURE     |     | EXPORT                | 486 |
|--------------------|-----|-----------------------|-----|
| EXTENDED           | 444 | EXTERNAL              | 486 |
| COPY TAG           | 446 | FILER                 | 487 |
| COPY TO ARRAY      | 446 | FIND                  | 487 |
| COUNT              | 447 | FLUSH                 | 489 |
| CREATE             | 447 | FOR                   | 490 |
| CREATE FROM        | 448 | FUNCTION              | 491 |
| CREATE LABEL       | 448 | GATHER FROM           | 492 |
| CREATE MENU        | 449 | GETEXPR               | 493 |
| CREATE PROJECT     | 450 | GO or GOTO            | 494 |
| CREATE QUERY       | 450 | HELP                  | 496 |
| CREATE REPORT      | 451 | HIDE MENU             | 497 |
| CREATE REPORT FROM | 451 | HIDE POPUP            | 497 |
| CREATE SCREEN      | 452 | HIDE WINDOW           | 498 |
| CREATE VIEW (FROM  |     | IF                    | 499 |
| ENVIRONMENT]       | 452 | IMPORT                | 500 |
| DEACTIVATE MENU    | 453 | INDEX                 | 501 |
| DEACTIVATE POPUP   | 454 | INPUT                 | 504 |
| DEACTIVATE WINDOW  | 455 | INSERT                | 504 |
| DECLARE            | 456 | JOIN                  | 505 |
| DEFINE BAR         | 457 | KEYBOARD              | 507 |
| DEFINE BOX         | 459 | LABEL FORM            | 507 |
| DEFINE MENU        | 460 | LIST                  | 508 |
| DEFINE PAD         | 461 | LIST FILES            | 509 |
| DEFINE POPUP       | 462 | LIST MEMORY           | 510 |
| DEFINE WINDOW      | 463 | LIST STATUS           | 510 |
| DELETE             | 466 | LIST STRUCTURE        | 510 |
| DELETE FILE        | 468 | LOAD                  | 511 |
| DELETE TAG         | 468 | LOCATE                | 512 |
| DIMENSION          | 469 | LOOP                  | 513 |
| DIR                | 469 | MENU                  | 513 |
| DISPLAY            | 471 | MENU TO               | 515 |
| DISPLAY FILES      | 472 | MODIFY COMMAND/MODIFY |     |
| DISPLAY MEMORY     | 473 | FILE                  | 515 |
| DISPLAY STATUS     | 475 | MODIFY LABEL          | 516 |
| DISPLAY STRUCTURE  | 475 | MODIFY MEMO           | 517 |
| DO                 | 476 | MODIFY MENU           | 518 |
| DO CASE            | 477 | MODIFY PROJECT        | 518 |
| DO WHILE           | 478 | MODIFY QUERY          | 519 |
| EDIT               | 479 | MODIFY REPORT         | 519 |
| EJECT              | 482 | MODIFY SCREEN         | 520 |
| EJECT PAGE         | 482 | MODIFY STRUCTURE      | 520 |
| ENDCASE            | 483 | MOVE POPUP            | 521 |
| ENDDO              | 483 | MOVE WINDOW           | 521 |
| ENDIF              | 484 | NOTE or * or &&       | 522 |
| ENDPRINTJOB        | 484 | ON BAR                | 522 |
| ENDSCAN            | 484 | ON ERROR              | 522 |
| ENDTEXT            | 485 | ON ESCAPE             | 524 |
| ERASE              | 485 | ON KEY                | 525 |
| EXIT               | 485 | ON KEY =              | 527 |
|                    |     |                       |     |