

Index

• Symbols •

& (ampersand), 126
' (apostrophe) in comments, 52–53
" " (double quotation marks), 58, 83, 353
= (equal to) conditional operator, 66
! (exclamation point) (bang operator), 80, 155
> greater than conditional operator, 66
>= greater than or equal to conditional operator, 66
< less than conditional operator, 66
<= less than or equal to conditional operator, 66
<> (not equal to) conditional operator, 66
() parentheses
 functions, 241
 syntax, 353
. (period) (dot operator), 79–80
| (pipe), 63, 103
' ' (single quotation marks), 83
[] (square brackets), 42, 91, 154–155
_ (underscore) continuation character, 157–158

• A •

ACCDB database file, 295
Access
 object library, 32
 object model, 74
Access (Microsoft)
 Database Splitter, 295–298
 Expression Builder, 239–240
 help, 354
 importance of understanding how it works, 351
 Linked Table Manager, 297–298
 Navigation pane, 10
 object library, 32
 object model, 74
 uses for, 1
 versions, 1, 9
 wizards, 15
Access 2007 All-in-One Desk Reference For Dummies (Simpson, Levine Young, and Barrows), 9
Access 2007 For Dummies (Kaufeld, Ulrich Fuller, and Cook), 9
Access 2007 VBA Programming For Dummies Web site, 5
accessing object libraries, 315–317
action queries
 defined, 121–123
 performing on one record, 136–137
 warning messages, 124–125
ActiveX Data Objects (ADO), 141
ActiveX Data Objects 2.8 Library, 32
Add Procedure dialog box, 37, 242
adding
 records to a table, 131–134
 related record to another table, 109–112
ADODB connection, 140–141
ADODB object library, 32
ADODB recordsets
 ADO (ActiveX Data Objects), 141
 closing, 146
 copying to an Excel worksheet, 342–345
 creating, 138–140, 166–167
 creating from external tables, 308–309
 DAO (Data Access Objects), 141
 defined, 137
 defining, 141
 filling with data, 142–143
 navigating, 144–145
 opening, 143–144
 referring to fields in a recordset, 145–146
 syntax, 144
 Type property, 167

- After Insert (AfterInsert)
 - event, 98
 - After Update (AfterUpdate) event, 89, 219
 - AllForms collection, 150
 - Allow Additions property, 185
 - Allow Datasheet View property, 185
 - Allow Deletions property, 185
 - Allow Edits property, 185
 - Allow Filters property, 186
 - Allow Form View property, 185
 - Allow Layout View property, 185
 - Allow PivotChart View property, 185
 - Allow PivotTable View property, 185
 - ampersand (&), 126
 - AND logical operator, 67
 - apostrophe (') in comments, 52–53
 - appearance
 - of message boxes, 177–179
 - of objects, 99
 - appending records to a table, 131–134
 - application modal, 178
 - Application object, 318
 - ApplyFilter method (DoCmd object), 112
 - argument list, 55–57
 - arguments
 - custom functions, 242–243
 - defined, 41–43
 - help, 43–45
 - named arguments, 45
 - syntax, 44–45, 55–56
 - arrays
 - creating, 59
 - defined, 58
 - elements, 58–60
 - multidimensional arrays, 59–60
 - names, 59–60
 - one-dimensional arrays, 59
 - subscripts, 58–60
 - syntax, 59
 - two-dimensional arrays, 59–60
 - values, 59
 - asking users questions, 362–363
 - assigning values to variables, 57
 - Automation technology, 29, 315, 317
 - avoiding retyping common entries, 235–238
- B •**
- Back Color property, 99, 186
 - Back Style property, 101
 - bang (!) operator, 80, 155
 - Barrows, Alison, *Access 2007 All-in-One Desk Reference For Dummies*, 9
 - Beep method (DoCmd object), 112
 - Before Update (BeforeUpdate) event, 89
 - blank spaces, 38
 - boldface, 103
 - bookmarks in Word templates, 325–327
 - Boolean data type
 - defined, 53
 - naming conventions, 62
 - Border Color property, 99
 - Border Style property, 101, 186
 - breakpoints, 279–281
 - browsing Access object model, 74
 - bugs (errors). *See also* debugging
 - compile errors, 268–274
 - defined, 265
 - logical errors, 268, 274–278
 - runtime errors, 268–269, 283–287
 - built-in functions. *See also* functions
 - Date(), 241
 - defined, 19, 239–241
 - Format(), 258
 - help, 240
 - Left(), 247
 - Mid(), 247
 - MsgBox(), 176–182, 362–363
 - Nz(), 257
 - parentheses, 241
 - Sqr(), 241
 - StrConv(), 245, 247
 - UCase(), 247
 - values, 241
 - buttons in message boxes, 176–182

- Byte data type
 - defined, 53
 - naming conventions, 62
- C •
- calling procedures, 17–18, 171–172
- CCSecureQry query, 300–301
- Change event, 89
- changing
 - appearance of objects, 99
 - contents of a control, 360
 - control types, 204
 - linked tables back to local tables, 299
 - records (rows), 134–136
 - value of a property, 81–82
- checks
 - check-printing report, 254–255
 - printing, 251–255
- class modules. *See also* modules
 - defined, 12–13
 - forms, 14–15, 87–89
- class procedures, 87–89
- classes
 - Class icon, 78
 - Classes list (Object Browser), 31–32
 - defined, 76
- Click event, 89, 198
- client, 295
- client-server relationship, 295, 299–302
- Close Button property, 186
- Close event, 98
- Close method (DoCmd object), 131, 364
- closing
 - database connections, 146
 - forms, 107–109
 - Object Browser, 33
 - recordsets, 146
 - tables, 130–131
 - Visual Basic Editor, 16–17
- code
 - breakpoints, 279–281
 - bugs (errors), 265
 - comments, 52–53
 - copying, 5, 46–47
 - debugging, 265
 - defined, 11
 - Fancy SkipLabels Dialog Box form, 219
 - linking to external data through code, 304–305
 - modifying prewritten code, 48
 - prewritten code, 46–48, 355
 - reading, 154
 - SQL (Structured Query Language), 123–124
 - square brackets ([]), 42, 91, 154–155
 - stepping through code, 281–282
 - syntax, 38–45
 - underscore (_) continuation character, 157–158
 - uses for, 12
 - writing, 11–12, 351–356
- Code window (Visual Basic Editor), 15, 27–28
- collections
 - AllForms, 150
 - changing value of a property, 81–82
 - Class icon, 78
 - defined, 72–74
 - enumerating, 147–152
 - Forms, 150
 - getting the value of a property, 79–81
 - help, 76–77
 - identifiers, 79–81
 - looping through, 147–152
 - methods, 75–76, 82–84
 - properties, 75–76
- colors
 - constants, 100
 - custom colors, 100–101
 - defining, 101–103
 - dialog boxes, 186
 - properties, 99–100, 186
 - RGB values, 100–101
- Colors dialog box, 100–101
- columns (fields)
 - defined, 10
 - listing field names in controls, 204–206
 - references, 145–146

- combining conditional expressions, 67
- combo boxes
 - avoiding retyping common entries, 235–238
 - creating, 189–195, 202–203
 - Default Value property, 203
 - defined, 201
 - hidden values, 228–232
 - ItemData(x) property, 203
 - Limit to List property, 203
 - linked lists, 216–218
 - List Rows property, 203
 - List Width property, 203
 - listing field names, 204–206
 - listing form names, 211–212
 - listing query names, 208–211
 - listing report names, 211
 - listing table names, 208–211
 - listing table/query field values, 212–215
 - listing text options, 207–208
 - Name property, 203
 - quick find feature, 232–235
 - Requery method, 223–226
 - Row Source property, 201, 203, 207
 - Row Source Type property, 203–208
 - updating, 219–228, 360–361
 - Value List, 207–208
 - Value property, 203
- comments, 52–53
- comparison operators, 66
- compilation, 266–268
- compile errors
 - debugging, 269–274
 - defined, 268
 - Expected: end of statement, 272
 - Expected: expression, 271
 - Expected: list separator or), 272–274
- concatenating strings, 126
- conditional expressions
 - combining, 67
 - comparison operators, 66
 - defined, 66
 - logical operators, 67
 - syntax, 66–67
- conditions
 - If . . . End If statement, 67–68
 - loops, 63–64
- connections to databases
 - ADODB connection, 140–141
 - closing, 146
- constants
 - color constants, 100
 - Constant icon, 78
 - creating, 58
 - defined, 44, 58
 - names, 58
 - syntax, 58
 - values, 58
- continuation character, 157–158
- Control Box property, 186
- Control Source property, 255
- controls
 - avoiding retyping common entries, 235–238
 - changing contents of a control, 360
 - changing control types, 204
 - colors, 99–103
 - combo boxes, 189–195, 201–238, 360–361
 - dialog boxes, 187–188
 - disabling, 90–94
 - enabling, 90–94
 - events, 89
 - filling with data, 105–107
 - focus, 91–92
 - hiding, 95
 - list boxes, 201–238, 360–361
 - listing field names, 204–206
 - listing form names, 211–212
 - listing query names, 208–211
 - listing report names, 211
 - listing table names, 208–211
 - listing table/query field values, 212–215
 - listing text options, 207–208
 - locking, 96
 - moving the cursor to a control, 91–92, 359
 - names, 203
 - number styles, 103
 - read-only, 96
 - showing, 95

- special effects, 104
- spin box controls, 195–197
- text styles, 103
- unbound controls, 202
- unlocking, 96
- Cook, Ken, *Access 2007 For Dummies*, 9
- copying
 - code from the Web, 46–47
 - code from the Web site for this book, 5
 - recordsets to an Excel worksheet, 342–345
- CopyObject method (DoCmd object), 113
- Count property, 147–148, 152
- CREATE TABLE SQL statement, 129–130
- creating
 - arrays, 59
 - combo boxes, 202–203
 - constants, 58
 - dialog boxes, 175
 - error handlers, 288–292
 - form letters, 325–331
 - functions, 241–242
 - instances, 319–320
 - linked lists, 216–218
 - list boxes, 202–203
 - message boxes, 176–179
 - modules, 35–36
 - procedures, 36–38
 - queries, 117–118
 - recordsets, 138–140, 166–167
 - recordsets from external tables, 308–309
 - standard modules, 35–36
 - tables, 128–130
 - variables, 57–58
 - what-if scenarios, 335–342
- Currency data type
 - defined, 53
 - naming conventions, 62
- Current event, 96–98
- cursor positioning, 91–92, 359
- custom colors, 100–101
- custom functions. *See also* functions
 - arguments, 242–243
 - creating, 241–242
 - names, 242
 - NumWord(), 251–263
 - passing data to a function, 242–243
 - PCase(), 246–250
 - returning a value from a function, 243–244
 - standard modules, 241
 - testing, 244–245
- custom help access, 180
- custom messages, 361–362
- Cycle property, 186
- D •
- DAO (Data Access Objects), 141
- DAO object library, 32
- Data Entry property, 186
- data storage
 - arrays, 58–60
 - constants, 57–58
 - data types, 53–55
 - dialog box settings, 183–184
 - SQL statements in variables, 125–127
 - variables, 57–58
- data types
 - Boolean, 53, 62
 - Byte, 53, 62
 - Currency, 53, 62
 - Date, 53, 62
 - Decimal, 55
 - defined, 53
 - Double, 53, 62
 - Integer, 54, 62
 - Long, 54, 62
 - Object, 54
 - Single, 54, 62
 - String, 54, 62
 - Variant, 54, 62
- database connections
 - ADODB connection, 140–141
 - closing, 146
- Database Splitter (Microsoft Access), 295–298
- database tables
 - adding a related record to another table, 109–112
 - adding records, 131–134

- database tables (*continued*)
 - appending records, 131–134
 - avoiding multiple tables and links, 305–307
 - closing, 130–131
 - creating, 128–130
 - creating recordsets from external tables, 308–309
 - defined, 10
 - deleting, 130–131
 - exporting data, 309–314
 - importing data, 302–304, 309–314
 - Linked Table Manager, 297–298
 - linked tables, 298–299
 - linking to external data, 304–305, 309–314
 - listing query names in a control, 208
 - listing table names in a control, 209–211
 - listing table/query field values in a control, 212–215
 - local tables, 298–299
- databases
 - ACCDB database file, 295
 - avoiding multiple tables and links, 305–307
 - client-server relationship, 295, 299–302
 - exporting data, 309–314
 - importing data, 302–304, 309–314
 - linking to data, 304–305, 309–314
 - splitting, 295–298
- Date data type
 - defined, 53
 - naming conventions, 62
- Date() function, 241
- debug window (Visual Basic Editor), 26
- debugging. *See also* bugs (errors)
 - breakpoints, 279–281
 - compile errors, 269–274
 - defined, 265
 - error handlers, 285–292
 - Locals window (VBA Editor), 280–281
 - logical errors, 274–278
 - runtime errors, 283–287
 - stepping through code, 281–282
- Debug.Print statement, 275–278
- Decimal data type, 55
- decision-making constructs
 - conditional expressions, 66–67
 - If...End If statement, 67–68
 - loops, 62–65
 - Select Case block of code, 68–69
- declarations area of modules, 60
- declaring
 - object variables, 319–320
 - variables, 165
- Default Method icon, 78
- Default Property icon, 77
- Default Value property, 203
- Default View property, 185
- defining
 - colors, 101–103
 - recordsets, 141
- Delete event, 98
- DeleteObject method (DoCmd object), 113, 131
- deleting
 - records (rows), 134–136
 - tables, 130–131
- delimiters (separators), 79–80
- dependencies in linked lists, 217
- Destination Table property, 128
- Details pane (Object Browser), 31–32
- detecting mouse clicks, 198–199
- determining whether a form is open or closed, 226, 358
- dialog boxes
 - colors, 186
 - controls, 187–188
 - creating, 175
 - defined, 175
 - Fancy SkipLabels Dialog Box form, 219
 - forms, 184–186
 - message boxes, 176–182
 - mouse clicks, detecting, 198–199
 - storing dialog box settings, 183–184
 - uses for, 182–183
- Dim statement, 152–153
- disabling controls, 90–94

Dividing Lines property, 186
 DoCmd object
 ApplyFilter method, 112
 Beep method, 112
 Close method, 131, 364
 CopyObject method, 113
 DeleteObject method, 113, 131
 FindNext method, 112
 FindRecord method, 112
 GoToControl method, 112
 GoToRecord method, 112, 364
 Object Browser, 113–114, 365
 OpenForm method, 357, 364
 OpenReport method, 364
 OutputTo method, 364
 PrintOut method, 112, 364
 Rename method, 113, 364
 RunCommand method, 113
 RunMacro method, 364
 RunSQL method, 365
 Save method, 112, 365
 SelectObject method, 112, 365
 SendObject method, 113, 365
 ShowAllRecords method, 112
 TransferDatabase method, 302–305
 TransferSpreadsheet method, 365
 Do...Loop loops, 62–63
 dot (.) operator, 79–80
 Double data type
 defined, 53
 naming conventions, 62
 double quotation marks (" "), 58, 83, 353
 drop-down lists, 189–195

● **E** ●

Editor
 closing, 16–17
 Code window, 15, 27–28
 debug window, 26
 Immediate window, 26–27
 Locals window, 280–281
 moving windows, 281
 opening, 15–16, 21
 panes, 22–23
 Project Explorer, 23–25
 Properties window, 24–25
 sizing windows, 281
 syntax, 38–39
 toolbars, 22
 elements in arrays, 58–60
 e-mail, sending via Outlook, 320–324
 Enabled property, 90–91
 enabling controls, 90–94
 encapsulation, 217–218
 Enum icon, 78
 enumerating collections, 147–152
 equal to (=) conditional operator, 66
 error handlers
 creating, 288–292
 defined, 285
 error description, 285
 error number, 285
 On Error statement, 285–286
 labels, 287–288
 Resume statement, 286
 trapping runtime errors, 285
 errors (bugs). *See also* debugging
 compile errors, 268–274
 defined, 265
 logical errors, 268, 274–278
 runtime errors, 268–269, 283–287
 events
 After Insert (AfterInsert), 98
 After Update (AfterUpdate),
 89, 219
 Before Update (BeforeUpdate), 89
 calling a procedure from an event,
 171–172
 controls, 89
 Event icon, 78
 form events, 96–98
 mouse clicks, 198–199
 On Change (Change), 89
 On Click (Click), 89, 198
 On Close (Close), 98
 On Current (Current), 96–98
 On Delete (Delete), 98
 On Load (Load), 98, 218–219, 298

events (*continued*)

- On Mouse Down (MouseDown), 89, 198–199

- On Unload (Unload), 298

Excel (Microsoft)

- copying recordsets to an Excel worksheet, 342–345

- running Excel macros from Access, 346–347

- uses for, 334

- what-if scenarios, 334–342

exclamation point (!) (bang operator),

- 80, 155

executing

- defined, 12

- procedures, 17–18

Expected: end of statement compile

- error, 272

Expected: expression compile

- error, 271

Expected: list separator or)

- compile error, 272–274

exporting data, 309–314

Expression Builder

- built-in functions, 239–240

- opening, 239–240

expressions

- conditional expressions, 66–67

- testing, 26–27

- uses for, 239

● **F** ●

Fancy SkipLabels Dialog Box

- form, 219

fields (columns)

- defined, 10

- listing field names in controls, 204–206

- references, 145–146

filling

- form controls with data, 105–107

- recordsets with data, 142–143

FindNext method (DoCmd object), 112

FindRecord method (DoCmd object), 112

focus (controls), 91–92

Font Bold property, 103

Font Italic property, 103

Font Name property, 103

Font Size property, 103

Font Underline property, 103

For Each...Next loop, 149–152

ForeColor property, 99

form controls

- avoiding retyping common entries, 235–238

- changing contents of a control, 360

- changing control types, 204

- colors, 99–103

- combo boxes, 189–195, 201–238, 360–361

- disabling, 90–94

- enabling, 90–94

- events, 89

- filling with data, 105–107

- focus, 91–92

- hiding, 95

- list boxes, 201–238, 360–361

- listing field names, 204–206

- listing form names, 211–212

- listing query names, 208–211

- listing report names, 211

- listing table names, 208–211

- listing table/query field values, 212–215

- listing text options, 207–208

- locking, 96

- moving the cursor to a control, 91–92, 359

- names, 203

- number styles, 103

- read-only, 96

- showing, 95

- special effects, 104

- spin box controls, 195–197

- text styles, 103

- unbound controls, 202

- unlocking, 96

form events

- After Insert (AfterInsert), 98

- After Update (AfterUpdate), 219

- defined, 96

- On Close (Close), 98

- On Current (Current), 96–98

- On Delete (Delete), 98

- On Load (Load), 98, 218–219, 298

- On Unload (Unload), 298

form letters

- Access forms, 327–328
- merge code, 328–334
- Microsoft Word templates, 325–327

Format() function, 258

Form_Current() procedure, 97–98

forms

- adding a related record to another table, 109–112

class modules, 14–15, 87–89

class procedures, 87–89

closing, 107–109

colors, 99–103

defined, 10

- determining whether a form is open or closed, 226, 358

dialog boxes, 184–186

Fancy SkipLabels Dialog Box form, 219

linking to lists across forms, 222–223

listing form names in a control, 211–212

number styles, 103

opening, 107–109, 357

properties, 184–186, 358

references to open forms, 358–359

SkipLabelsForm form, 159–162

synchronizing, 227–228

text styles, 103

Forms collection, 150

For...Next loop, 64–65

functions. *See also* procedures

arguments, 242–243

built-in functions, 239–241

creating, 241–242

Date(), 241

defined, 19

Format(), 258

help, 240

Left(), 247

Mid(), 247

MsgBox(), 176–182, 362–363

names, 242

NumWord(), 251–263

Nz(), 257

parentheses, 241

passing data to a function, 242–243

PCase(), 246–250

returning a value from a function, 243–244

Sqr(), 241

standard modules, 241

StrConv(), 245, 247

testing, 244–245, 278

UCase(), 247

values, 241

• G •

Get External Data dialog box, 47

getting the value of a property, 79–81

Global icon, 78

GoToControl method (DoCmd object), 112

GoToRecord method (DoCmd object), 112, 364

greater than (>) conditional operator, 66

greater than or equal to (>=) conditional operator, 66

guessing, 354

• H •**handling errors**

creating error handlers, 288–292

error description, 285

error number, 285

On Error statement, 285–286

labels, 287–288

Resume statement, 286

trapping runtime errors, 285

help

arguments, 43, 45

collections, 76–77

custom help access, 180

functions, 240

Help windows (Object Browser), 33–34

keywords, 40–43, 154

methods, 84–85

Microsoft Access, 354

objects, 76–77

properties, 84–85

syntax, 38–43, 45

VBA (Visual Basic for Applications), 354

hidden values in combo and list boxes, 228–232

hiding
 controls, 95
 warning messages, 124–125
 high-level programming languages, 266–267

• I •

icons
 Class icon, 78
 Constant icon, 78
 Default Method icon, 78
 Default Property icon, 77
 Enum icon, 78
 Event icon, 78
 Global icon, 78
 Method icon, 78
 Module icon, 78
 Object Library icon, 78
 Project icon, 78
 Property icon, 77
 User Defined Type icon, 78
 VBA Keyword or Data icon, 78
 identifiers, 79–81
 If . . . End If statement, 67–68
 Immediate window (Visual Basic Editor),
 26–27
 Import Objects dialog box, 47
 importing
 data, 302–304, 309–314
 modules, 47–48
 input from users, 362–363
 INSERT INTO SQL statement, 132–133
 instances, 319–320
 Integer data type
 defined, 54
 naming conventions, 62
 integration with Office applications
 Application object, 318
 Automation technology, 315, 317
 copying recordsets to an Excel
 worksheet, 342–345
 form letters with Word, 326–334
 instances, 319–320
 Object Browser, 317–318
 object libraries, 32, 315–317

running Excel macros from Access,
 346–347
 sending e-mail via Outlook, 320–324
 what-if scenarios with Excel, 334–342
 IntelliSense technology, 76
 IsLoaded property, 358
 italics, 103
 ItemData(x) property, 203

• J •

joining strings, 126

• K •

Kaufeld, John, *Access 2007 For Dummies*, 9
 keywords
 defined, 38
 help, 40–43, 154
 MsgBox, 176–177
 New, 319
 Private, 18–19
 Public, 18–19, 37
 Set, 146
 syntax, 38–43
 VBA Keyword or Data icon, 78

• L •

learning VBA programming, 356
 Left() function, 247
 left-click, detecting, 198–199
 less than (<) conditional operator, 66
 less than or equal to (<=) conditional
 operator, 66
 Levine Young, Margaret, *Access 2007 All-in-
 One Desk Reference For Dummies*, 9
 libraries
 Access, 32
 accessing, 315–317
 ADODB, 32
 DAO, 32
 defined, 29
 Microsoft Outlook, 323
 Object Library icon, 78

- Office, 32, 315–317
 - references, 316–317
 - searching, 33–34
 - setting references to, 30
 - stdole, 32
 - VBA, 32
 - lifetime of variables, 60–61
 - Limit to List property, 203
 - linked lists
 - creating, 217–218
 - defined, 216–217
 - dependencies, 217
 - Linked Table Manager, 297–298
 - linked tables, 298–299
 - linking to
 - external data, 304–305, 309–314
 - lists across forms, 222–223
 - list boxes
 - avoiding retyping common entries, 235–238
 - creating, 202–203
 - Default Value property, 203
 - defined, 201
 - hidden values, 228–232
 - ItemData(x) property, 203
 - linked lists, 216–218
 - listing field names, 204–206
 - listing form names, 211–212
 - listing query names, 208–211
 - listing report names, 211
 - listing table names, 208–211
 - listing table/query field values, 212–215
 - listing text options, 207–208
 - Name property, 203
 - quick find feature, 232–235
 - Requery method, 223–226
 - Row Source property, 201, 203, 207
 - Row Source Type property, 203–208
 - updating, 219–228, 360–361
 - Value List, 207–208
 - Value property, 203
 - List Rows property, 203
 - List Width property, 203
 - listing
 - field names in a control, 204–206
 - form names in a control, 211–212
 - query names in a control, 208–211
 - report names in a control, 211
 - table names in a control, 208–211
 - table/query field values in a control, 212–215
 - text options in a control, 207–208
 - literal strings, 157–158
 - Load event, 98, 218–219, 298
 - local tables, 298–299
 - Locals window (VBA Editor), 280–281
 - Locked property, 96
 - locking controls, 96
 - logical errors
 - debugging, 274–278
 - defined, 268
 - logical operators, 67
 - Long data type
 - defined, 54
 - naming conventions, 62
 - looping through collections, 147–152
 - loops
 - conditions, 63–64
 - defined, 62
 - Do...Loop, 62–63
 - For Each...Next, 149–152
 - For...Next, 64–65
 - syntax, 63–65
 - While...Wend, 64
 - low-level machine language, 266–267
- M •**
- machine code, 266–267
 - macros
 - defined, 10
 - running Excel macros from Access, 346–347
 - testing, 346
 - Mail Merge Wizard, 325
 - mailing labels, 159–162
 - Make-Table query, 128–129
 - members, 76
 - Members list (Object Browser), 31–32
 - merging data with a Word document, 328–334

- messages
 - custom messages, 361–362
 - message boxes, 176–182
- methods
 - ApplyFilter method (DoCmd object), 112
 - Beep method (DoCmd object), 112
 - Close method (DoCmd object), 131, 364
 - CopyObject method (DoCmd object), 113
 - Default Method icon, 78
 - defined, 75–76, 82
 - DeleteObject method (DoCmd object), 113, 131
 - FindNext method (DoCmd object), 112
 - FindRecord method (DoCmd object), 112
 - GoToControl method (DoCmd object), 112
 - GoToRecord method (DoCmd object), 112, 364
 - help, 84–85
 - IntelliSense technology, 76
 - Method icon, 78
 - OpenForm method (DoCmd object), 357, 364
 - OpenReport method (DoCmd object), 364
 - OutputTo method (DoCmd object), 364
 - PrintOut method (DoCmd object), 112, 364
 - Rename method (DoCmd object), 113, 364
 - Requery, 223–226
 - RunCommand method (DoCmd object), 113
 - RunMacro method (DoCmd object), 364
 - RunSQL method (DoCmd object), 365
 - Save method (DoCmd object), 112, 365
 - SelectObject method (DoCmd object), 112, 365
 - SendObject method (DoCmd object), 113, 365
 - ShowAllRecords method (DoCmd object), 112
 - syntax, 82–84
 - TransferDatabase method (DoCmd object), 302–305
 - TransferSpreadsheet method (DoCmd object), 365
- Microsoft Access
 - Database Splitter, 295–298
 - Expression Builder, 239–240
 - help, 354
 - importance of understanding how it works, 351
 - Linked Table Manager, 297–298
 - Navigation pane, 10
 - object library, 32
 - object model, 74
 - uses for, 1
 - versions, 1, 9
 - wizards, 15
- Microsoft Access 2007 Object Library, 32
- Microsoft ActiveX Data Objects 2.8 Library, 32
- Microsoft Excel
 - copying recordsets to an Excel worksheet, 342–345
 - running Excel macros from Access, 346–347
 - uses for, 334
 - what-if scenarios, 334–342
- Microsoft Office 12.0 Object Library, 32
- Microsoft Office 2007 Access database engine Object Library, 32
- Microsoft Office applications
 - Application object, 318
 - Automation technology, 315, 317
 - copying recordsets to an Excel worksheet, 342–345
 - form letters with Word, 326–334
 - instances, 319–320
 - Object Browser, 317–318
 - object libraries, 32, 315–317
 - running Excel macros from Access, 346–347
 - sending e-mail via Outlook, 320–324
 - what-if scenarios with Excel, 334–342
- Microsoft Outlook, 320–324
- Microsoft Web site, 354
- Microsoft Word
 - bookmarks, 325–327
 - form letters, 325
 - Mail Merge Wizard, 325
 - merging data with a Word document, 328–334
- Mid() function, 247
- Min Max Buttons property, 186
- modal message boxes, 178
- Modal property, 186

modifying prewritten code, 48
 module-level declaration, 36, 60–61
 modules
 class modules, 12–15, 87–89
 creating, 35–36
 declarations area, 60
 defined, 10, 12
 functions, 241
 importing, 47–48
 Module icon, 78
 opening, 15–16, 21, 24
 procedures, 19
 standard modules, 12–13
 Visual Basic Editor, 15–16, 21
 mouse clicks, detecting, 198–199
 MouseDown event, 89, 198–199
 moving
 cursor to a control, 91–92, 359
 windows in VBA Editor, 281
 MsgBox () function
 appearance options, 177–179
 asking users questions, 362–363
 behavior options, 177–182
 custom help access, 180
 syntax, 176–177
 MsgBox keyword, 176–177
 multidimensional arrays, 59–60

• **N** •

Name property, 152, 156, 203
 named arguments, 45
 names
 arrays, 59–60
 constants, 58
 controls, 203
 custom functions, 242
 objects, 152–153
 procedures, 18–19, 37
 variables, 58
 naming conventions for variables, 61–62
 navigating recordsets, 144–145
 Navigation Buttons property, 186
 Navigation pane (Microsoft Access), 10
 New keyword, 319
 not equal to (<>) conditional operator, 66
 NOT logical operator, 67

number styles, 103
 NumWord () custom function
 argument, 251, 256
 code listing, 251–253
 downloading, 263
 Format () built-in function, 258
 Nz () built-in function, 257
 PrintChecks report, 254–255
 values, 257–263
 variables, 256–263
 Nz () function, 257



Object Browser
 Classes list, 31–32
 closing, 33
 Details pane, 31–32
 DoCmd object, 113–114, 365
 Members list, 31–32
 Microsoft Office applications, 317–318
 opening, 31
 Project/Library list, 31–33
 search box, 31–34
 split bars, 31–32
 uses for, 30–31
 viewing currently loaded object libraries,
 32–33
 writing code, 355
 Object data type, 64
 object libraries
 Access, 32
 accessing, 315–317
 ADODB, 32
 DAO, 32
 defined, 29
 Microsoft Outlook, 323
 Object Library icon, 78
 Office, 32, 315–317
 references, 316–317
 searching, 33–34
 setting references to, 30
 stdole, 32
 VBA, 32
 object models, 71–74
 object variables, 152–153, 319–320
 object-oriented, 10

- objects
 - Application, 318
 - changing appearance of, 99
 - changing value of a property, 81–82
 - Class icon, 78
 - collections, 72–74
 - colors, 99–103
 - defined, 10, 72
 - DoCmd, 112–114, 131, 302–305, 357, 364
 - getting the value of a property, 79–81
 - help, 76–77
 - identifiers, 79–81
 - methods, 75–76, 82–84
 - names, 152–153
 - opacity, 101
 - properties, 75–76
 - references, 155–157
 - transparency, 101
 - Office applications
 - Application object, 318
 - Automation technology, 315, 317
 - copying recordsets to an Excel worksheet, 342–345
 - form letters with Word, 326–334
 - instances, 319–320
 - Object Browser, 317–318
 - object libraries, 32, 315–317
 - running Excel macros from Access, 346–347
 - sending e-mail via Outlook, 320–324
 - what-if scenarios with Excel, 334–342
 - Office 12.0 Object Library, 32
 - Office 2007 Access database engine Object Library, 32
 - OLE Automation object library, 32
 - On Change (Change) event, 89
 - On Click (Click) event, 89, 198
 - On Close (Close) event, 98
 - On Current (Current) event, 96–98
 - On Delete (Delete) event, 98
 - On Error statement, 285–286
 - On Load (Load) event, 98, 218–219, 298
 - On Mouse Down (MouseDown) event, 89, 198–199
 - On Unload (Unload) event, 298
 - one-dimensional arrays, 59
 - opacity of objects, 101
 - OpenForm method (DoCmd object), 357, 364
 - opening
 - Expression Builder, 239–240
 - forms, 107–109, 357
 - modules, 15–16, 21, 24
 - Object Browser, 31
 - property sheet, 74
 - recordsets, 143–144
 - Visual Basic Editor, 15–16
 - OpenReport method (DoCmd object), 364
 - operators
 - comparison operators, 66
 - logical operators, 67
 - OR logical operator, 67
 - Outlook (Microsoft), 320–324
 - OutputTo method (DoCmd object), 364
- *p* ●
- parentheses ()
 - functions, 241
 - syntax, 353
 - passing data
 - to a function, 242–243
 - to procedures in general, 54–57
 - PaymentMethod_AfterUpdate()
 - procedure, 92–94
 - PCase() custom function, 246–250
 - period (.) delimiter character, 79–80
 - pipe (|), 63, 103
 - Pop Up property, 186
 - pop-up message boxes, 178
 - positioning cursor, 91–92, 359
 - prewritten code, 46–48, 355
 - printing
 - checks, 251–255
 - reports, 363
 - PrintOut method (DoCmd object), 112, 364
 - Private keyword, 18–19
 - procedure-level declaration, 60–61
 - procedures
 - argument list, 55–57
 - calling, 17–18, 171–172

- class procedures, 87–89
- creating, 36–38
- defined, 17
- executing, 17–18
- Form_Current(), 97–98
- Function procedures, 19
- modules, 19
- names, 18–19, 37
- passing data to, 54–57
- PaymentMethod_AfterUpdate(), 92–94
- Private, 18–19
- Public, 18–19, 37
- scope, 18–19, 37, 242
- SkipLabels, 162–172
- Sub procedures, 18–19
- testing, 278
- programming languages, 266–267
- programs. *See* Microsoft Office applications
- Project Explorer (Visual Basic Editor), 23–25
- Project icon, 78
- Project/Library list (Object Browser), 31–33
- properties
 - Allow Additions, 185
 - Allow Datasheet View, 185
 - Allow Deletions, 185
 - Allow Edits, 185
 - Allow Filters, 186
 - Allow Form View, 185
 - Allow Layout View, 185
 - Allow PivotChart View, 185
 - Allow PivotTable View, 185
 - Back Color, 99, 186
 - Back Style, 101
 - Border Color, 99
 - Border Style, 101, 186
 - Close Button, 186
 - colors, 99–100, 186
 - Control Box, 186
 - Control Source, 255
 - Count, 147–148, 152
 - Cycle, 186
 - Data Entry, 186
 - Default Property icon, 77
 - Default Value, 203
 - Default View, 185
 - defined, 73, 75–76
 - Destination Table, 128
 - Dividing Lines, 186
 - Enabled, 90–91
 - Font Bold, 103
 - Font Italic, 103
 - Font Name, 103
 - Font Size, 103
 - Font Underline, 103
 - Fore Color, 99
 - forms, 184–186, 358
 - help, 84–85
 - IntelliSense technology, 76
 - IsLoaded, 358
 - ItemData(x), 203
 - Limit to List, 203
 - List Rows, 203
 - List Width, 203
 - Locked, 96
 - Min Max Buttons, 186
 - Modal, 186
 - Name, 152, 156, 203
 - Navigation Buttons, 186
 - Pop Up, 186
 - Property icon, 77
 - Record Selectors, 186
 - Record Source, 165–166, 185
 - Row Source, 201, 203, 207
 - Row Source Type, 203–208
 - Scroll Bars, 186
 - Special Effect, 104
 - Type, 167
 - Unique Values, 214
 - Value, 203
 - values, 79–82
 - Visible, 95
- Properties window (Visual Basic Editor), 24–25
- property sheet, 73–74
- Public keyword, 18–19, 37
- punctuation marks, 38, 353

• Q •

queries

- action queries, 121–125, 136–137
- CCSecureQry query, 300–301
- creating, 117–118
- defined, 10
- exporting data, 309–314
- importing data, 302–304, 309–314
- linking to data, 304–305, 309–314
- listing query names in a control, 208–211
- listing table/query field values in a control, 212–215
- Make-Table query, 128–129
- select queries, 121, 137–140
- SQL (Structured Query Language), 117–123

quick find feature, 232–235

quotation marks

- double quotation marks (" "), 58, 83, 353
- single quotation marks (' '), 83

• R •

reading code, 154

read-only controls, 96

Record Selectors property, 186

Record Source property, 165–166, 185

records (rows)

- adding a related record to another table, 109–112
- adding to a table, 131–134
- appending to a table, 131–134
- changing, 134–136
- defined, 10
- deleting, 134–136
- performing an action query on one record, 136–137

recordsets

- ADO (ActiveX Data Objects), 141
- closing, 146
- copying to an Excel worksheet, 342–345
- creating, 138–140, 166–167
- creating from external tables, 308–309
- DAO (Data Access Objects), 141

defined, 137

defining, 141

filling with data, 142–143

navigating, 144–145

opening, 143–144

referring to fields in a recordset, 145–146

syntax, 144

Type property, 167

references

to fields in a recordset, 145–146

to object libraries, 316–317

to objects, 155–157

to open forms, 358–359

References dialog box, 30

removing

records (rows), 134–136

tables, 130–131

Rename method (DoCmd object), 113, 364

reports

check-printing report, 254–255

class modules, 14–15

defined, 10

listing report names in a control, 211

printing, 363

RecordSource property, 165–166

Requery method, 223–226

Resume statement, 286

returning a value from a function, 243–244

RGB values for colors, 100–101

right-click, detecting, 198–199

Row Source property, 201, 203, 207

Row Source Type property, 203–208

rows (records)

- adding a related record to another table, 109–112

adding to a table, 131–134

appending to a table, 131–134

changing, 134–136

defined, 10

deleting, 134–136

- performing an action query on one record, 136–137

RunCommand method (DoCmd object), 113

RunMacro method (DoCmd object), 364

running Excel macros from Access, 346–347

RunSQL method (DoCmd object), 365
runtime, 266–268
runtime errors
 debugging, 283–287
 defined, 268–269

• S •

Save method (DoCmd object), 112, 365
scope
 procedures, 18–19, 37, 242
 variables, 60–61
Scroll Bars property, 186
search box (Object Browser), 31–34
searching object libraries, 33–34
Select Case block of code, 68–69
select queries
 defined, 121
 recordsets, 137–140
SelectObject method (DoCmd object),
 112, 365
sending e-mail via Outlook, 320–324
SendObject method (DoCmd object),
 113, 365
separators (delimiters), 79–80
server, 295
Set keyword, 146
setting references to object libraries, 30
short names for objects, 152–153
ShowAllRecords method (DoCmd
 object), 112
showing
 controls, 95
 custom messages, 361–362
Simpson, Alan, *Access 2007 All-in-One Desk
 Reference For Dummies*, 9
Single data type
 defined, 54
 naming conventions, 62
single quotation marks ('), 83
sizing windows in VBA Editor, 281
SkipLabels procedure
 calling from an event, 171–172
 code listing, 162–164
 copying the label report, 165

 creating LabelsTempTable from
 MyRecordSet, 166–170
 creating the recordset, 166
 declaring variables, 165
 getting a report's recordsource, 165–166
 passing data to, 164–165
SkipLabelsForm form, 159–162
Special Effect property, 104
spin box controls, 195–197
split bars (Object Browser), 31–32
splitting databases, 295–298
SQL (Structured Query Language)
 defined, 117–118
 queries, 117–123
 storing SQL statements in variables,
 125–127
 syntax, 118–119
 VBA code, 123–124
 warning messages, 124–125
SQL statements
 CREATE TABLE, 129–130
 INSERT INTO, 132–133
Sqr () function, 241
square brackets ([]), 42, 91, 154–155
standard modules. *See also* modules
 creating, 35–36
 defined, 12–13
 functions, 241
statements. *See also* SQL statements
 Debug.Print, 275–278
 defined, 17
 Dim, 152–153
 If...End If, 67–68
 On Error, 285–286
 Resume, 286
 Sub...End Sub, 18–19
 syntax, 351–352
 With...End With, 104–105
stdole object library, 32
stepping through code, 281–282
storing data
 arrays, 58–60
 constants, 57–58
 data types, 53–55
 dialog box settings, 183–184

- storing data (*continued*)
 - SQL statements in variables, 125–127
 - variables, 57–58
 - StrConv() function, 245, 247
 - String data type
 - defined, 54
 - naming conventions, 62
 - strings
 - concatenating, 126
 - joining, 126
 - literal strings, 157–158
 - Structured Query Language. *See* SQL
 - styles for text and numbers, 103
 - Sub procedures. *See also* procedures
 - defined, 18–19
 - testing, 278
 - Sub...End Sub statement, 18–19
 - subscripts, 58–60
 - synchronizing forms, 227–228
 - syntax
 - arguments, 43–45, 55–56
 - arrays, 59
 - blank spaces, 38
 - comments, 52–53
 - conditional expressions, 66–67
 - constants, 58
 - defined, 38
 - identifiers, 80
 - keywords, 38–43
 - loops, 63–65
 - methods, 82–84
 - object variables, 152–153
 - parentheses (), 353
 - punctuation marks, 38, 353
 - recordsets, 144
 - Select Case block of code, 68–69
 - SQL statements, 118–119
 - statements, 351–352
 - variables, 57–58
 - Visual Basic Editor, 38–39
 - system modal, 178
- T ●
- tables
 - adding a related record to another table, 109–112
 - adding records, 131–134
 - appending records, 131–134
 - avoiding multiple tables and links, 305–307
 - closing, 130–131
 - creating, 128–130
 - creating recordsets from external tables, 308–309
 - defined, 10
 - deleting, 130–131
 - exporting data, 309–314
 - importing data, 302–304, 309–314
 - Linked Table Manager, 297–298
 - linked tables, 298–299
 - linking to external data, 304–305, 309–314
 - listing query names in a control, 208
 - listing table names in a control, 209–211
 - listing table/query field values in a control, 212–215
 - local tables, 298–299
 - testing
 - custom functions, 244–245
 - expressions, 26–27
 - Function procedures, 278
 - macros, 346
 - Sub procedures, 278
 - text styles, 103
 - TransferDatabase method (DoCmd object), 302–305
 - TransferSpreadsheet method (DoCmd object), 365
 - transparency of objects, 101
 - trapping runtime errors, 285
 - two-dimensional arrays, 59–60
 - Type property, 167
 - types of data
 - Boolean, 53, 62
 - Byte, 53, 62
 - Currency, 53, 62
 - Date, 53, 62
 - Decimal, 55
 - defined, 53
 - Double, 53, 62
 - Integer, 54, 62
 - Long, 54, 62
 - Object, 54
 - Single, 54, 62
 - String, 54, 62
 - Variant, 54, 62

• U •

UCase() function, 247
Ulrich Fuller, Laurie, *Access 2007 For Dummies*, 9
unbound controls, 202
underlines, 103
underscore (_) continuation character, 157–158
Unique Values property, 214
Unload event, 298
unlocking controls, 96
updating
 combo boxes, 219–228, 360–361
 list boxes, 219–228, 360–361
User Defined Type icon, 78
user input, 362–363

• V •

Value List, 207–208
Value property, 203
values
 arrays, 59
 constants, 58
 functions, 241–244
 NumWord() custom function, 257–262
 properties, 79–82
 RGB values for colors, 100–101
 variables, 57
variables
 creating, 57–58
 declaring, 165
 defined, 57
 lifetime, 60–61
 names, 58
 naming conventions, 61–62
 NumWord() custom function, 256–263
 object variables, 152–153, 319–320
 scope, 60–61
 storing SQL statements in variables, 125–127
 syntax, 57–58
 values, 57
Variant data type
 defined, 54
 naming conventions, 62

VBA code
 breakpoints, 279–281
 bugs (errors), 265
 comments, 52–53
 copying, 5, 46–47
 debugging, 265
 defined, 11
 Fancy SkipLabels Dialog Box form, 219
 linking to external data through code, 304–305
 modifying prewritten code, 48
 prewritten code, 46–48, 355
 reading, 154
 SQL (Structured Query Language), 123–124
 square brackets ([]), 42, 91, 154–155
 stepping through code, 281–282
 syntax, 38–45
 underscore (_) continuation character, 157–158
 uses for, 12
 writing, 11–12, 351–356
VBA Editor. *See* Visual Basic Editor
VBA Keyword or Data icon, 78
VBA object library, 32
VBA (Visual Basic for Applications)
 defined, 9, 11
 help, 354
 learning VBA programming, 356
 object library, 32
 versions of Microsoft Access, 1, 9
Visible property, 95
Visual Basic Editor
 closing, 16–17
 Code window, 15, 27–28
 debug window, 26
 Immediate window, 26–27
 Locals window, 280–281
 moving windows, 281
 opening, 15–16, 21
 panes, 22–23
 Project Explorer, 23–25
 Properties window, 24–25
 sizing windows, 281
 syntax, 38–39
 toolbars, 22

Visual Basic for Applications (VBA)
defined, 9, 11
help, 354
learning VBA programming, 356
object library, 32

• W •

warning messages, 124–125
Web sites
 Access 2007 VBA Programming For Dummies, 5
 Microsoft, 354
what-if scenarios
 creating, 335–342
 defined, 334

While...Wend loops, 64
With...End With statement, 104–105
wizards, 15
Word (Microsoft)
 bookmarks, 325–327
 form letters, 325
 Mail Merge Wizard, 325
 merging data with a Word document,
 328–334
writing VBA code, 11–12, 351–356

• X •

XOR logical operator, 67

