

Access™ 2007 Forms & Reports FOR DUMMIES®

by Brian Underdahl and Darlene Underdahl
Authors of iPAQ For Dummies



Wiley Publishing, Inc.

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About the Authors

Brian Underdahl is the well-known, bestselling author of over 70 computer books on a broad range of subjects. He has appeared on a number of TV shows, including the *Computer Chronicles*, and several *TechTV* programs, and is the subject of an hour-long interview on the syndicated *Computer Outlook* radio program. One of his titles was recently recommended to viewers by Scott Gurvey, Bureau Chief, on the *Nightly Business Report* on PBS, and his books have won awards including an Award of Merit from the Northern California Technical Communications Competition and the Referenceware Excellence Award for best title in the Graphic Design and Multimedia category.

Brian has been involved in personal computers from their beginning and has a background in electrical engineering. His last “real” job was as a Senior Programmer/Analyst for a large company, where he worked hard to bring the power and freedom of PCs to the desktops.

Brian figures that it’s the author who should do the work so that readers can get their money’s worth. That’s why his books are different — he takes the time to explain what’s going on so that readers can understand the subjects easily.

Darlene Underdahl spent many years as a Quality Assurance expert. She is applying that “attention to detail” in the writing she does today. In addition to technical writing, she has written a memoir of her early years and is gathering notes for future projects. She works and lives with her husband, the best-selling author Brian Underdahl, in the mountains above Reno, Nevada.

Dedication

Darlene: For Brian . . .

Author's Acknowledgments

No book is the product of one person, even if one person has the title of author and gets to have his or her name on the cover. I'm very lucky to have a lot of people I can thank for all the hard work and effort they put into this book. They include Kyle Looper and Pat O'Brien.

I'd also like to thank the many people who provided me with the wonderful Access tools and add-ons so that I could give you an idea about how you can get even more from Access. Please do check out the Web sites I list for these great products — you owe it to yourself to see how much more productive you can be.

We can't work without a functioning computer, so special thanks go out to Allison Wagda at ZoneLabs for providing ZoneAlarm Internet Security Suite. I sleep a lot better at night knowing that I don't have to worry about viruses and spyware, and I hope all my readers realize the importance of this type of protection.

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Contents at a Glance

<i>Introduction</i>	<i>1</i>
<i>Part I: Accessing Both Ends: Getting Data In and Info Out.....</i>	<i>7</i>
Chapter 1: Getting to Know Forms and Reports	9
Chapter 2: Getting Started with Queries	23
Chapter 3: Creating Simple Forms.....	43
Chapter 4: Building Basic Reports	65
<i>Part II: Creating Effective Queries</i>	<i>91</i>
Chapter 5: Creating Multi-Table Queries	93
Chapter 6: Modifying Data with Queries	111
Chapter 7: Expanding Queries with SQL	131
Chapter 8: Dealing with Quarrelsome Queries	151
<i>Part III: Building Really Useful Forms</i>	<i>171</i>
Chapter 9: Building Better Forms by Using Controls.....	173
Chapter 10: Using Multiple Tables in Forms	193
Chapter 11: Fixing Form Faults	207
<i>Part IV: Designing Great Reports</i>	<i>221</i>
Chapter 12: Adding Fancy Touches to Reports	223
Chapter 13: Creating Reports That Summarize Data.....	245
Chapter 14: When Reports Go Wrong	263
<i>Part V: Way Cool Advanced Queries, Forms, and Reports.....</i>	<i>273</i>
Chapter 15: Tricks for Finding Data with Queries	275
Chapter 16: Tricks for Updating with Queries	291
Chapter 17: Killer Ways to Improve Forms	305
Chapter 18: Expert Methods for Sharing Reports	327
Chapter 19: Making Reports Look Better	339
Chapter 20: Adding Efficiency with Great Tools.....	353

<i>Part VI: The Part of Tens</i>	365
Chapter 21: Ten Great Access Sites Online	367
Chapter 22: Ten Things to Know about Queries (That Also Help You with Forms and Reports)	373
<i>Index</i>	377

Table of Contents

Introduction 1

About This Book.....	1
Conventions Used in This Book	2
What You Don't Have to Read	2
Icons Used in This Book.....	2
Foolish Assumptions	3
How This Book Is Organized.....	4
Part I: Accessing Both Ends: Getting Data In and Info Out	4
Part II: Creating Effective Queries	4
Part III: Building Really Useful Forms	4
Part IV: Designing Great Reports.....	4
Part V: Way Cool Advanced Queries, Forms, and Reports.....	5
Part VI: The Part of Tens	5

Part 1: Accessing Both Ends: Getting Data In and Info Out 7

Chapter 1: Getting to Know Forms and Reports 9

Finding Forms Fascinating	9
Streamlining data input with forms.....	11
Entering data with the Form Wizard	12
Editing information with forms	13
Viewing data by using forms.....	14
Recognizing Why Reports Rock	14
Using reports to show results.....	14
Using reports to present data in a professional format	15
Using reports to show data analysis.....	16
Using reports to preserve the moment	16
Seeing Why Both Forms and Reports Have a Place.....	17
Understanding the Value of Queries	18
Introducing the query concept.....	18
Using queries to enhance forms and reports	19
Queries, Forms, and Reports Basics You Need to Know	20
Access Add-Ons and Extra Cool Tools	21

Chapter 2: Getting Started with Queries 23

Understanding the Types of Queries.....	23
Introducing select queries.....	24
Getting to know crosstab queries	26



Make-table queries	27
Using update queries	28
Introducing append queries	29
Getting to know delete queries	30
Creating Queries Using a Wizard	31
Why you should be off to see the wizards	31
Understanding the limitations of the wizards	32
Creating your first query with the wizard	32
Creating Queries in Design View	36
Getting to know the Design View	36
Creating an example query in Design View	38
Modifying Queries for Better Results	40
Deleting a query	41
Modifying an existing query	41
Rearranging and deleting fields in a query	41
Chapter 3: Creating Simple Forms	43
Creating Forms with the Help of a Wizard	43
Meeting the Form Wizard	44
Befriending the Form Wizard	45
Knowing what the wizard can't do	48
Building Forms the Hard Way: Using Design View	49
Introducing Design View tools	49
Starting a form in Design View	52
Associating a table to your form in Design View	53
Adding fields to the form	55
Modifying Forms You've Created	57
Aligning objects on a form	58
Setting consistent sizes	60
Spacing horizontally and vertically	61
Shrinking a big form down to size	63
Chapter 4: Building Basic Reports	65
Getting to Know the Types of Access Reports	65
Introducing simple reports	66
Using reports that group data	67
Using reports to summarize information	67
Creating Reports by Using a Wizard	68
Using the Report Wizard	68
Understanding what the wizard doesn't know	72
Designing Reports from Scratch	73
Understanding the report bands	73
Setting up the report page	75
Choosing your tables	79
Selecting the fields	81

Modifying Report Layouts	82
Deciding what needs to be done	82
Moving and formatting those pesky labels	83
Pulling the layout together to save paper	85
Adding Data from External Linked Tables.....	87
Choosing a method for accessing external data	87
Importing or linking external data	88

Part 11: Creating Effective Queries91

Chapter 5: Creating Multi-Table Queries93

Understanding Multi-Table Queries	93
Understanding the benefits of multiple tables	94
Establishing relationships between multiple tables	95
Adding Multiple Tables to Queries	96
Selecting multiple tables up front	96
Adding the tables you forgot about to your query	98
Choosing the fields to use.....	99
Making Access use the correct table	100
Linking to External Databases in Your Queries	101
Understanding the types of external data you can use.....	101
Linking to tables in another foreign database format	103
Knowing what you can and can't do with a linked external database	104
Understanding Relationships in Queries	105
Getting to know how tables are related.....	105
Making sure that you choose the right relationships.....	106
Setting up table relationships	107

Chapter 6: Modifying Data with Queries111

Understanding What You Can Modify with a Query	111
Knowing what you can modify	112
Knowing what you can't modify	113
Called to Action: Data-Modifying Queries	113
Creating New Tables with Queries	115
Why you would want to create new tables	115
Creating your first table with a make-table query	116
Updating Data by Using Queries	119
Creating an update query example	119
Understanding the update query results	123
Deleting Data with Queries	123
Adding New Data with Queries.....	126
Using an append query.....	126
Combining make-table and append queries	129

Chapter 7: Expanding Queries with SQL131

Getting the Scoop on SQL	131
Understanding the “S” in SQL	132
Putting SQL in its place (at the heart of all Access queries)	133
Understanding How SQL Can Help	134
Going beyond the automated query functions.....	134
Creating an indexed table with SQL.....	135
Modifying a table with SQL	137
Viewing the SQL You’ve Already Created and Didn’t Know About	138
Switching to Design View	138
Changing to SQL View.....	138
Seeing the results in Datasheet View	140
Going back to Design View	141
Getting Your Feet Wet with Simple SQL Statements	142
Making Useful SQL Statements.....	144
Updating records with SQL	145
Creating and filling tables using SQL	145
Summarizing values using SQL.....	146
Deleting records using SQL.....	147
A Nod to VBA Programmers	147

Chapter 8: Dealing with Quarrelsome Queries151

Troubleshooting Queries That Don’t Quite Work.....	151
Understanding the clues Access gives you.....	152
Locating the problem.....	153
Using Datasheet View as a troubleshooting tool.....	155
Troubleshooting Sassy SQL	158
Figuring out what went wrong.....	159
Trying Design View	160
Things to watch out for in SQL queries.....	160
Simplifying your SQL to find the problem.....	161
Avoiding Improper Relationships	162
Understanding how bad relationships can mess you up	162
Making sure your relationships make sense.....	164
Correcting relationships that don’t work.....	164
Junking Joins That Don’t Join.....	165
Understanding why default joins may not work	165
Correcting your joins	166
Steering Around Empty Query Results	167
Understanding some of the causes of empty query results	167
Correcting a query that doesn’t return any data	167
Preventing Data Destruction	168
Beginning by backing up	168
Avoiding destructive query results.....	169
What to do if your database seems to be kaput.....	169

Part III: Building Really Useful Forms 171**Chapter 9: Building Better Forms by Using Controls173**

Getting to Know the Controls	173
Common Controls You Can Use	174
List box controls.....	175
Option button controls.....	176
Check box controls	177
Adding Controls to Your Forms.....	177
Adding list boxes to your forms	178
Adding option groups	181
Using check boxes on forms	184
Adding labels to toggle buttons	185
Incorporating ActiveX Controls	186
Modifying the Characteristics of Controls.....	189
An example of setting default values	189
Blocking access to certain controls	191
Improving controls by using tab order.....	192

Chapter 10: Using Multiple Tables in Forms193

Understanding Forms and Subforms.....	194
Understanding the need that subforms fill	194
Getting to know the subform place.....	194
Adding Fields from Multiple Tables to Your Forms	196
Verifying relationships and adding fields	196
Adding subforms with the Form Wizard	197
Adding a subform after the fact.....	198
Choosing the Best Subform View.....	198
Making the switch from Datasheet view to another subform view.....	199
Introducing your subform view options.....	201
Adding Multiple Subforms	202
Navigating Records in Multi-Table Forms	203
Choosing the right navigator bar	203
Finding records with filters	204

Chapter 11: Fixing Form Faults207

Preventing Invalid Data with Input Masks	207
Setting up an input mask with the wizard	208
Making an input mask from scratch.....	209
Limiting a User to Specific Values with Validation Rules	211
Setting up your own validation rules.....	211
Remembering Access validation rules	214
Quick validation rules you can use	214
Preventing Users from Changing Records	215

Looking Out for Poorly Formatted Data.....	216
Knowing what not to do	216
Formatting data on forms.....	218

Part IV: Designing Great Reports.....221

Chapter 12: Adding Fancy Touches to Reports223

Adding Descriptive Titles to Your Reports	223
Getting title basics down.....	224
Modifying existing titles	225
Formatting your report titles.....	226
Getting Dynamic with Your Titles	227
Understanding how to use expressions in your titles.....	227
Using expressions to create dynamic titles	228
Using properties to control your expressions.....	230
Getting rid of the .mdb document extension.....	231
Coming Up with Page Title Ideas	231
Adding Dates and Page Numbers.....	233
Choosing the right place for dates and numbers.....	233
Getting fancy with date displays	233
Discovering some neat page number tricks	234
Making Records Easier to Read with Alternating Bands of Color.....	236
Step 1: Picking colors and translating them to hex	236
Step 2: Writing code to apply your color bands.....	238
Making Records Stand Out.....	240

Chapter 13: Creating Reports That Summarize Data245

Discovering How to Group Records	245
Understanding your record-grouping options.....	246
Creating your first report grouping.....	247
Making sure you get the right groups.....	251
Adding Subtotals and Totals.....	253
Understanding how subtotals and totals work	253
Adding totals to groups and reports.....	254
Using Some Advanced Summarizing Methods	256
Going beyond simple math	256
Converting string values	259
Finding the largest, smallest, and average values.....	259
Trimming off extra spaces.....	260
Rounding numbers.....	260

Chapter 14: When Reports Go Wrong263

Troubleshooting Reports	263
Figuring out whether the report is really wrong	264
Figuring out what's wrong with the report	264

Avoiding Bad Report Layouts	266
Considering the purpose of your report	266
Avoiding text box data overflow	267
Avoiding page overflow	268
Formatting data in reports	269
Eliminating Unnecessary Labels for Tighter Reports.....	270
Deciding whether you really need all those labels	271
Deleting labels	271
Moving labels to headers	272

***Part V: Way Cool Advanced Queries, Forms, and Reports*273**

Chapter 15: Tricks for Finding Data with Queries275

Finding Just the Data You Need.....	275
Getting to know the operators.....	276
Selecting a range of records.....	277
Finding data that's close but not exact	282
Creating Queries That Ask What to Find.....	284
Understanding parameter queries	284
Building your very own parameter query.....	285
Excluding Data You Don't Want	286
Eliminating duplicates from results	287
Finding duplicates with SQL queries	287
Modifying join properties to get the results you want	288

Chapter 16: Tricks for Updating with Queries291

Creating New Fields with a Query.....	291
Deciding whether using a query to add fields is worth it	292
Adding your first field with a query.....	292
Adding Default Values by Using a Query.....	294
Getting to know what you can add	294
Adding default values to your very first field	295
Making sure you don't override real data	295
Performing Calculations.....	296
Determining whether to use a query for your calculations.....	296
Writing your first query calculations.....	297
Updating Records by Using Data from Another Table	299
Choosing the right type of query for your updates	300
Updating data in one table with data from another	
without any conditions	300
Making sure the right data is updated.....	304

Chapter 17: Killer Ways to Improve Forms	305
Prequalifying the Data Entered	305
Crafting Forms That Are Easier to Use	313
Chapter 18: Expert Methods for Sharing Reports	327
Sharing Data with Microsoft Excel	327
Sending Reports to Microsoft Word	328
Using OLE Objects in Reports	331
Chapter 19: Making Reports Look Better	339
Enhancing the Appearance of Important Information	339
Printing on Standard Labels	345
Keeping Related Data Together	347
Adding Your Logo to Reports	350
Chapter 20: Adding Efficiency with Great Tools	353
Using Cool Tools to Document Everything	354
Souping Up Your Database	357
Using Software to Share Stuff	359
 Part VI: The Part of Tens	 365
Chapter 21: Ten Great Access Sites Online	367
Chapter 22: Ten Things to Know about Queries (That Also Help You with Forms and Reports)	373
 Index	 377

Introduction

Microsoft Access 2007 can be an incredibly useful application, but it can also be very frustrating if you don't know how to make it do what you want it to do. In a perfect world, you'd have a guru around, 24/7 — someone who knows Access 2007 inside and out and is willing to guide you along the way, showing you handy little tricks and useful techniques that help you get the results you need.

Well, I may not be there with you, but this book is the next best thing. I've gathered the really useful pieces of information that you need to create powerful queries, very easy-to-use forms, and reports that actually tell the story of what is going on inside your data. Along the way, I make sure to show you the special tricks and techniques that I use.

About This Book

Access 2007 Forms & Reports For Dummies is a hands-on guide that uses real-world examples to show you just what you need to know about Access and why you need to know it. You won't find a bunch of buzzwords and jargon. Rather, you do find the solid information you really need and can't find elsewhere about creating queries, forms, and reports. Yes, I do give you good, solid information about queries in addition to forms and reports because queries are an essential element that will help you create better forms and reports.

Access 2007 Forms & Reports For Dummies is also a reference that you can use as you like. If you have a specific problem you need to solve right now, you can jump directly to the related topic and skip around as much as you want. But if you really want to make Access work for you, I suggest that you read through the entire book because you will discover many things you don't already know.

Finally, *Access 2007 Forms & Reports For Dummies* is specifically for users of Access 2007. Although the basics of queries, forms, and reports haven't changed much from the earlier versions of Access, there are enough important changes in Access 2007 so you'll find this book very useful even if you've used previous versions of Access.

Conventions Used in This Book

We've used a few conventions in this book to make it easier for you to spot special information. Here are those conventions:

- ✓ New terms are identified by using *italic*.
- ✓ Web sites addresses (URLs) are designated by using a monospace font.
- ✓ Any command you enter at a command prompt is shown in bold and usually set on a separate line. Setoff text in italic represents a placeholder.
- ✓ Command arrows, which are typeset as ⇨, are used in a list of menus and options. For example, Tools⇨Options means to choose the Tools menu and then choose the Options command.
- ✓ Key combinations are shown with a plus sign, such as Ctrl+F2. This means you should hold down the Ctrl key while you press the F2 key.
- ✓ All Access properties and fields are set apart in monospace font, as well, like this: Use the Input Mask property of the Data tab to create an input mask.
- ✓ Wherever I instruct you to use a snippet of code, I set it apart like this:

```
INSERT INTO LIVEWINBID  
SELECT [Auction 67].*  
FROM [Auction 67];
```

What You Don't Have to Read

I always have a hard time telling people that they don't have to read certain parts of a book if they don't care to. You can find some really useful information hidden away in things like the text next to Technical Stuff icons, but I understand if you feel that there isn't room in your brain for one more bit of technical information. Maybe the best thing that I can recommend is that if you don't want to read the whole book now, start by reading what looks the most interesting and then, after you've discovered how much really cool stuff I include, go back and have a look at what you missed the first time. You'll be glad you did!

Icons Used in This Book

Access 2007 Forms & Reports For Dummies includes icons that point out special information. Here are the icons I use and what they mean:



This icon makes you seem like a real Access expert in no time. It highlights special tricks and shortcuts that make using Access even easier. Don't miss any of these!



This icon reminds you of important information that can be far too easy to forget and that can cause a lot of frustration when you do forget.



Be careful when you see this icon. It points out an area where you'll want to be extra cautious so that you don't cause yourself problems. It also tells you how to avoid the problems.



Technical Stuff is information for folks who want to know all the geeky details.



Real World Examples tell you about actual ways to apply your new Access techniques. Don't miss any of these because they're sure to give you a lot of ideas you can adapt and use.

Foolish Assumptions

Making assumptions is always a gamble because assumptions can quickly come back to haunt you. That said, in writing this book I made some assumptions about you. This book is for you if:

- ✓ You have Access 2007 and want to know how to use it more effectively.
- ✓ You don't yet have Access 2007, but are wondering if getting Access 2007 can help you organize all of that data you're currently trying to manipulate with Excel or some other spreadsheet.
- ✓ You have a bunch of data that you want to turn into useful information.
- ✓ You want to see how you can create more efficient Access reports and quit wasting so many trees.
- ✓ You would like to know how to use data from an external database without having to get down on your knees to beg permission every time you need to run a report.
- ✓ You have finally realized that you are a *5th Wave* cartoon addict and simply can't pass up the chance to see what is hidden in these pages.

How This Book Is Organized

Access Forms & Reports For Dummies has six parts. Each part is self-contained, but all the content is somewhat interconnected. That way you'll see the most useful information without a lot of boring repetition.

Part I: Accessing Both Ends: Getting Data In and Info Out

This part shows you the basics of queries, forms, and reports. You see how these pieces fit together, and I make sure that you have the fundamentals down pat so that you have a good foundation for the rest of the topics.

Part II: Creating Effective Queries

Queries enable you to work with sets of data instead of simply dumping everything into the pot. This part shows you how to create effective queries that enable you to pick and choose what shows up in your forms and reports. You even see how you can step beyond simple queries by having a look underneath the fancy face that Access throws onto your queries.

Part III: Building Really Useful Forms

Forms make data entry and editing into a much easier task. This part shows you how to create forms that really are useful, and it tells you how to create forms that tackle data from more than one table at a time — for even greater efficiency.

Part IV: Designing Great Reports

With Access reports you can turn data into useful information. This part shows you how to create great reports that look good and that provide a wealth of understandable information.

Part V: Way Cool Advanced Queries, Forms, and Reports

Ordinary techniques are for ordinary people. This part takes you well beyond the ordinary and shows you how to get so much more from your queries, forms, and reports. This part also shows you some great tools you can use to make Access into an even more powerful partner for your database needs.

Part VI: The Part of Tens

This part tells you about some places on the Web where you can find even more information about Access. It concludes with some vital tips to remember as you work with Access.

Part I

Accessing Both Ends: Getting Data In and Info Out

The 5th Wave

By Rich Tennant



"Ms. Lamont, how long have you been sending out bills listing charges for 'Freight', 'Handling', and 'Sales Tax', as 'This', 'That', and 'The Other Thing'?"

In this part . . .

You need a good foundation if you're going to build anything useful and long lasting. In this part, I make sure that you have a good foundation for the topics in the rest of the book. Here you discover the basics of queries, forms, and reports that you really need but that you may have missed up until now.

Chapter 1

Getting to Know Forms and Reports

In This Chapter

- ▶ Introducing forms
 - ▶ Understanding reports
 - ▶ Using forms and reports together
 - ▶ Introducing queries to your forms and reports
 - ▶ Looking for extra add-ons
-

Without forms and reports, an Access database is just a jumble of hard-to-use information. But with really good forms and reports, that same database becomes both informative and a joy to use. Well-designed forms and reports make your Access databases into something that's far beyond the ordinary in utility, ease of use, and flexibility.

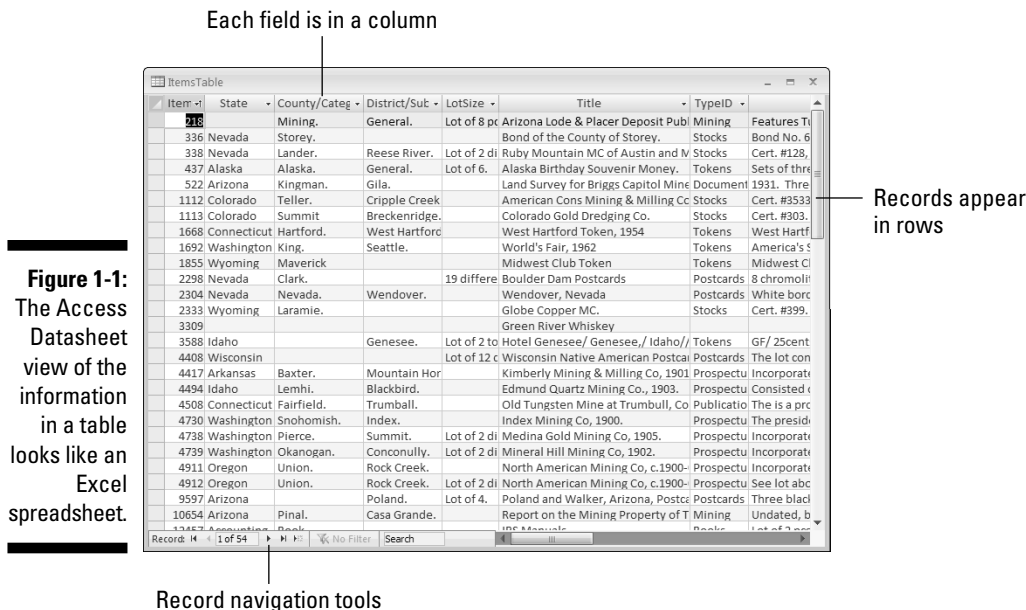
If you've been playing around with Access for a while, you have probably at least tried to create some forms and reports. Maybe some of your efforts didn't seem too bad, but you've probably had your share of frustration, too. Creating forms and reports that really do what you want them to do can be an awfully exasperating experience.

In this chapter, I show you a number of interesting things about forms, reports, and their sidekick queries so that you can see what each of them can do and why they're all important. You see how queries can greatly enhance the capabilities of forms and reports. I finish up the chapter by very briefly mentioning some really cool tools (find out even more about them in Chapter 20).

Finding Forms Fascinating

In order to understand the importance of forms in an Access database, begin by looking at the alternative. Figure 1-1 shows the *Datasheet* view of a typical

Access table. (A *table* is the structure in which Access stores information in your database.) The Datasheet view looks an awful lot like an Excel worksheet. You are likely pretty familiar with this view of a database because it seems as though almost everyone's first attempt at a database is to just create a list in a spreadsheet. Welcome to the "if the only tool you have is a hammer, everything looks like a nail" club!



In Datasheet view, each record is displayed in a single row, with columns for each of the database fields. Even though this view of the data is probably pretty familiar, it isn't very convenient. For one thing, unless you're keeping track of only a little information about each item, it's really hard to see an entire record in Datasheet view because everything has to fit into one row. That means you have to scroll back and forth to see all of the fields. Depending on the length of each field, sometimes you can't even see the entire contents of a single field on-screen. And don't even think about seeing a single record wrap around and take up multiple rows — making everything fit on-screen simply is not an option.

Of course, some other factors make the Datasheet view pretty inconvenient for most purposes. Can you imagine how little fun it would be to scroll through screen after screen trying to find a specific record in Datasheet view? Now imagine that instead of finding a single record, you want to find a dozen or so related records in a table containing 10,000 or more records. It's almost enough to make you want to move to a desert island where there aren't any computers, isn't it?

Fortunately, there's a good solution at hand in the guise of *forms*. Access forms provide a much more convenient way for you to interact with your database. Learning to create great forms is certainly going to be a lot easier than packing up your stuff for that move to a desert island. The following sections give you a look at some of the ways forms can help you.

Streamlining data input with forms

No database has much value until it contains information. You wouldn't be able to get any useful data from an empty database, so a very important task in creating a database is inputting your data. Sure, you might have some existing data that you can import, but even that data required input at some point.

Entering data into a table in Datasheet view really isn't much fun. You first have to open the table and then locate the record where you want to enter your data. Maybe you're adding to an existing record, or perhaps you're adding a new record right after the last existing one in the datasheet. When you've selected the correct record, you have to move the insertion point to each field in turn and type in the information. It's easy to accidentally start typing into the wrong field — especially if the table layout doesn't quite match the layout of the information you're entering (and how often do you see data on paper that doesn't match the layout of the table?).

Forms can make inputting data much easier in several ways:

- ✓ **Forms typically have labels that make seeing exactly which field you're filling in far easier.**
- ✓ **Forms can have drop-down lists so that you simply choose the proper information from the list without worrying about mistyping the data.**
- ✓ **Forms are usually laid out with plenty of room to see all the fields in a record.** That makes keeping track of which record you're entering a much easier task.
- ✓ **You can easily create forms for special purposes, such as entering data in specific sets of fields.** In this case, the form might not need to include all of the fields; when you use only what you need, you end up with a simpler, less confusing form.
- ✓ **Forms don't have to be laid out using the same field order as the table.** This is an especially handy feature if you're inputting data that is laid out quite differently than your table.
- ✓ **You can set up forms to validate the data so that users can't mess up your database by entering bogus information.**

Even if some of these form features seem a little bit beyond your interests or immediate needs right now, don't worry — you'll find out about all of them and get many more great ideas in the chapters that follow.

Entering data with the Form Wizard

Using a form to enter data into an Access database is much easier than entering data directly into a table in Datasheet view. Figure 1-2 shows a simple form you might create with the Form Wizard in Access. In this case, the form is not optimized in any way — it appears the way the wizard created it.

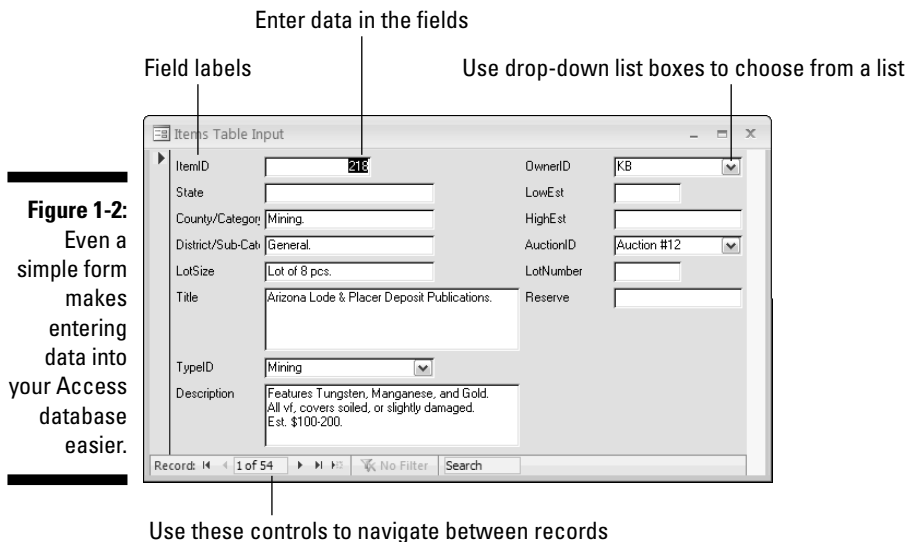


Figure 1-2: Even a simple form makes entering data into your Access database easier.

If you compare the form shown in Figure 1-2 with the Datasheet view shown in Figure 1-1, you can see pretty easily how much more convenient the form is for entering data. Each of the fields is clearly labeled (even if the Form Wizard didn't quite figure out the proper size for a couple of the labels). Here are a couple of ways that the Form Wizard makes entering data easier:

- ✓ **Easy movement between fields:** You can move between the fields by clicking the field you want or by pressing the Tab key. Because the fields are labeled, you can easily move to specific fields, skipping the fields you don't want to use for now.
- ✓ **Easy movement between records:** You can use the navigation controls at the bottom of the form to navigate between records. This feature is just like the navigation controls you commonly use, but with a notable exception: In forms, pressing Page Down moves you to the next record, and Page Up moves you to the previous record. In Datasheet view, Page Down and Page Up move you to a new screen page of records. (The number of records you jump depends on how many records are visible on the screen, and this can change depending on how you display the datasheet window. Don't you just love the inconsistency?)