

Crystal Reports® 10 FOR **DUMMIES®**

by Allen G. Taylor



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***Crystal
Reports® 10***
FOR
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Allen G. Taylor is a 30-year veteran of the computer industry and the author of over 20 books, including *SQL For Dummies*, *Access 2003 Power Programming with VBA*, *Database Development For Dummies*, and *SQL Weekend Crash Course*. He lectures nationally on databases, innovation, and entrepreneurship. He also teaches database development internationally through a leading online education provider and teaches digital circuit design locally at Portland State University. You can contact Allen at allen.taylor@ieee.org.

Dedication

This book is dedicated to my daughter, Valerie Joy Taylor, who is indeed a joy as well as being a psychologist and world traveler.

Author's Acknowledgments

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Introduction

Crystal Reports 10 is the latest in a long and celebrated series of report writers for personal computers. Crystal Reports is by far the best-selling report writer package in the world, even though you may have never heard of it. In the past, it has been bundled with many of the most popular applications without being acknowledged by name. (A version of Crystal Reports is currently bundled into Microsoft's Visual Studio .NET, and Crystal Reports 10 is sold as a standalone product.) If you want to produce a high-quality report quickly, Crystal Reports is the top choice to do the job.

About This Book

Crystal Reports 10 For Dummies is an introductory level book that gets you using Crystal Reports quickly and effectively. It covers all the major capabilities of Crystal Reports but doesn't bog you down in intricate detail. The objective is to give you the information you need to produce the types of reports that most people need most of the time. I also get into some out-of-the-ordinary report types that you might be called upon to generate on occasion.

Use this book as a handy reference guide. Each chapter deals with an individual feature that you may need at one time or another. Pull out the book, read the chapter, and then do what you need to do. In many cases, step-by-step procedures walk you through commonly needed operations. You might find it worthwhile to put the book beside your computer and perform the operations as you read about them.

Anyone who may be called upon to produce a report based on database data can profit from the information contained in this book. It's also valuable to managers who may never personally produce a report, but have oversight of people who do. This book tells you what's possible, what you can do easily, and what takes a little more effort to accomplish. This knowledge can help you estimate how long it should take to produce reports of various types.

Conventions Used in This Book

When an instruction in the book says, for instance, File⇨Save, it means to click the left mouse button on File in the main menu, and then click Save on the submenu that drops down from it.

Anything you see that is printed in a monospaced font is code, or something you'll run across in the course of programming a database (field names, for example). `This is a monospaced font.` Crystal Reports executes code that you enter as formulas or SQL statements.

What You're Not to Read

You can read the book through from cover to cover, working through the examples, although you don't have to. Whether you read it all the way through or not, you can use it as a quick reference when you want to perform a particular operation that you have not used in a while.

There's another whole section of this introduction that explains the icons you'll normally run across, and there is a good reason for paying attention to each of them. There is, however, one icon that you get to skip: Consider yourself exempted from the requirement to read anything that appears by a Technical Stuff icon.



Material next to one of these icons may be interesting to techies like me (there must be some of you out there) but generally is not necessary for a full understanding of how to use Crystal Reports.

Foolish Assumptions

I've never met you, but because we're going to be together for a while, I'll make a few assumptions about you and what you know. I assume that you know how to use a personal computer and that you're somewhat familiar with Microsoft Word. If you know how to navigate around Microsoft Word, you already know almost all there is to know about navigating around Crystal Reports. The user interfaces of the two products are similar.

I assume that you've seen directory trees before, such as those extensively used in Microsoft Windows. You know that if you see a plus sign (+) to the left of a node that shows a folder (or other) icon, it means you can click the plus

sign to expand that node, to see what the node contains. Crystal Reports treats directory trees in a similar way.

I assume you know how to perform a drag-and-drop operation with your mouse. In Crystal Reports, when you click an object and start dragging it, your progress is shown by a rectangular placement frame. When you release the mouse button to drop the item, the placement frame is replaced by a duplicate of the item that you dragged.

How This Book Is Organized

This book contains six major parts. Each part contains several chapters.

Part I: Reporting Basics

Part I introduces you to Crystal Reports and the art of report creation. You find out what a report should accomplish and what it should look like. Then you fire up Crystal Reports and use it to create a simple report based on data held in a database.

Part II: Moving Up to Professional Quality Reports

You can do many things beyond the basics to make reports more focused, more readable, and easier on the eye. This part gives you the information you need to do all those things.

Part III: Advanced Report Types and Features

Part III gets into serious report creation. With the information in this part, you can zero in on exactly the data you want and display it in the most understandable way. You'll be able to nest one report within another, pull report elements from multiple non-database sources, present multidimensional data in OLAP cubes, and illustrate points with charts and maps. With these tools, you can produce reports fit for the eyes of the organization's CEO.

Part IV: Crystal Reports in the Enterprise

Crystal Enterprise is a companion product to Crystal Reports that controls and secures the distribution of reports. With it you can make your reports accessible to people on your local area network, or on the World Wide Web. Crystal Enterprise's new Business Views capability enables report developers to custom tailor a report based on the interests of the people who will be viewing it. There can be multiple different Business Views of a single report. Crystal Enterprise is also the home of the Crystal Repository, which is a great place to store formulas, custom functions, or Business Views, so they can be used again later.

Part V: Publishing Your Reports

After you create a report, you'll want to make it available to the people who need it. Crystal Reports makes it easy for you to distribute your report for viewing, whether to colleagues in your organization or to Internet users around the world. In addition, you can publish your reports using traditional methods. You can print it; export it to a file, or fax it to people far away. After you complete report development, distribution is easy.

Although Crystal Reports does a great job when used all by itself, you can also incorporate it into applications written in a computer language. Crystal Reports' SQL Commands facility gives you direct control over the data in a report's underlying database. Because a version of Crystal Reports is included as an integral part of Microsoft's .NET application development environment, you can incorporate the power of Crystal Reports into applications you write in Visual Basic, Visual C++, Visual C#, or any language compatible with the .NET framework. This gives the applications you write the sophistication of the world's leading report writer.

Part VI: The Part of Tens

It's always good to remember short lists of best practices. That's what the Part of Tens is all about. Listed here are pointers that help you produce outstanding reports with minimum effort, in the shortest possible time.

About the Web Site

This book has an accompanying Web site where you can find sample reports from the book, some exercises related to the sample reports, and links to sites for related information. To access the Web site, go to www.dummies.com/go/crystalfd.

Icons Used in This Book



Tips save you a lot of time and keep you out of trouble.



Pay attention to the information marked by this icon — you may need it later.



As mentioned earlier, Technical Stuff is detail that I find interesting and you may also. But if you don't, no big deal. It is not essential to gain an understanding of the topic being discussed. Skip it if you like.



Heeding the advice that this icon points to can save you from major grief. Ignore it at your peril.

Where to Go from Here

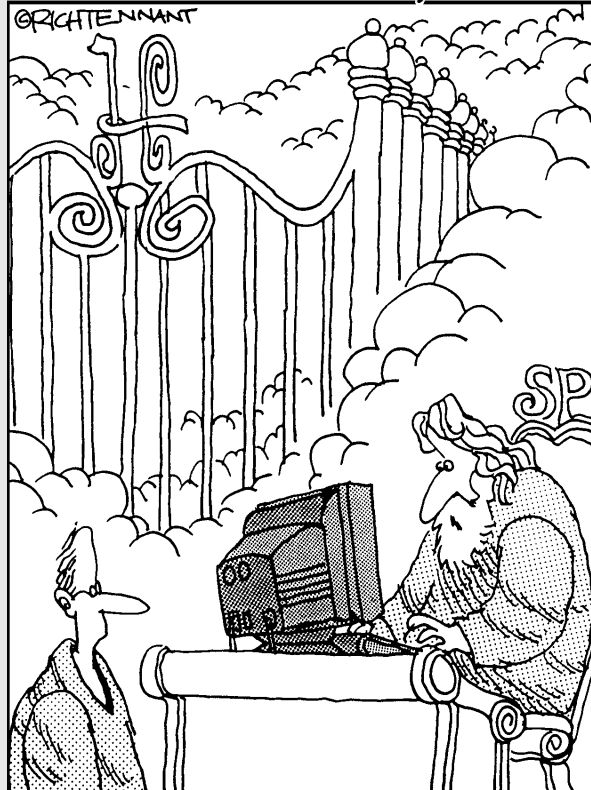
Now you're ready to start finding out about creating professional quality reports based on data stored in your databases, using Crystal Reports 10. Crystal Reports 10 is the latest version of the most popular report writer in the world. You can use it to quickly whip out simple reports, or you can take a little longer and generate a world-class executive report.

Part I

Reporting Basics

The 5th Wave

By Rich Tennant



"Let's check this report on your life.
'Courtesies', 'Kindnesses', not much
there. Helloooo, 'Transgressions'."

In this part . . .

There's data in the database, where it's not doing anyone any good. Your manager wants coherent information, based on that data, on her desk by the close of business today. What should you do? Panic? Consider joining the Foreign Legion?

There's no need to do anything drastic. The chapters in this part quickly tell you how to crank out the report your boss so desperately needs. It won't have all the bells and whistles that you find out about in other parts of this book, but it puts the needed information on the boss's desk before the lights go out tonight. And you'll start to build your reputation as a person who can deliver the goods when the pressure is on.