



## Mastering Visual Basic .NET Database Programming

by Evangelos Petroutsos and Asli Bilgin

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How to link your Visual Basic applications to relational and Internet data sources using Microsoft's ADO.NET and XML-based tools and technologies.

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## Mastering Visual Basic .NET Database Programming

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# Visual Basic Net Database Programming

**Jicheng Xie**



## **Visual Basic Net Database Programming:**

**Programming Microsoft Visual Basic .NET for Microsoft Access Databases** Rick Dobson,2003 The Microsoft NET Framework represents an exciting new world for developers who work with Microsoft Access Visual Basic and Visual Basic for Applications This book provides complete practical details on how to take advantage of this world by building or upgrading Access based client applications with Visual Basic NET It gives you specific instructions about how the NET Framework pertains to Access development Then it explores programming with Visual Basic NET and ADO NET and it puts it all together with examples and code samples that show how to develop robust Web applications and services with these tools Topics covered include What s in the Microsoft NET Framework for Access developers Getting started with Visual Basic NET and Microsoft Visual Studio NET Visual Basic NET techniques for data types procedures loops arrays classes class inheritance event processing structured exception handling and file processing Code behind Windows Forms and programming with form controls Form navigation the Data Form Wizard and programming the DataGrid control Learning ADO NET architecture and programming data access and manipulation plus drilling down on datasets and parent child relations with ADO NET A Windows Form sample to browse manipulate and handle concurrency violations Learning ASP NET page design and implementing ADO NET with ASP NET pages Using creating and deploying XML Web services Securing NET Windows and Web applications using Access databases Appendix XML syntax and schema conventions plus Visual Studio NET XML Designers INCLUDES SAMPLE CODE ON THE WEB Sample code available at the COMPANION CONTENT link on this page

**Visual Basic .NET Database Programming** Rod Stephens,2002 Visual Basic NET Database Programming explains how you can use databases in your Visual Basic NET applications Using databases you can store and manipulate large amounts of data in a consistent manner search for specific pieces of data and fetch different groups of records arranged in various ways Visual Basic NET Database Programming talks briefly about several different ways a program manages data but it focuses heavily on the most common type of database in use today a relational database

*Database Programming with Visual Basic .NET* Carsten Thomsen,2002-10-15 Although this volume can be used as a reference book thanks to its many listings and tables it s really intended for any serious VB programmer who needs to do database programming Microsoft MVP author Thomsen takes developers through all the data access aspects of Visual Studio NET with sample code in VB NET

*Mastering Visual Basic .NET Database Programming* Evangelos Petroutsos,Asli Bilgin,2006-02-20 Enter a New World of Database Programming Visual Basic NET and ADO NET facilitate the development of a new generation of database applications including disconnected applications that run on the Web Mastering Visual Basic NET Database Programming is the resource you need to thrive in this new world Assuming no prior experience with database programming this book teaches you every aspect of the craft from GUI design to server development to middle tier implementation If you re familiar with earlier versions of ADO you ll master the many new features of ADO NET all the more

quickly You'll also learn the importance of XML within the new .NET paradigm Coverage includes Getting familiar with the ADO.NET object model Using the data access wizards Taking advantage of new SQL Server 2000 features Carrying out XSL Transformations and XPath queries Generating XML using the T-SQL FOR XML statement Binding controls to ADO.NET result sets Arriving at a sound database design Tuning your SQL Server 2000 database Using the XML Designer in Visual Studio .NET Leveraging the data access tools available in the Visual Studio .NET IDE Working with .NET data providers Choosing between streaming data and caching data Working with the Data Form Wizard in Visual Studio .NET Using advanced ADO.NET techniques Building a threaded application Using .NET's advanced exception handling capabilities Using the .NET Deployment Project Template Note CD-ROM DVD and other supplementary materials are not included as part of eBook file

**Mastering Visual Basic .NET** Evangelos Petroustos, 2006-02-20 VB Programmers Get in Step with .NET With the introduction of Visual Basic .NET VB transcends its traditional second class status to become a full fledged citizen of the object oriented programming letting you access the full power of the Windows platform for the first time Written by the author of the best selling Mastering Visual Basic 6 this all new edition is the resource you need to make a successful transition to .NET Comprising in depth explanations practical examples and handy reference information its coverage includes Mastering the new Windows Forms Designer and controls Building dynamic forms Using powerful Framework classes such as ArrayLists and HashTables Persisting objects to disk files Handling graphics and printing Achieving robustness via structured exception handling and debugging Developing your own classes and extending existing ones via inheritance Building custom Windows controls Building menus and list controls with custom drawn items Using ADO.NET to build disconnected distributed applications Using SQL queries and stored procedures with ADO.NET Facilitating database programming with the visual database tools Building web applications with ASP.NET and the rich web controls Designing web applications to access databases Using the DataGrid and DataList web controls Building XML web services to use with Windows and web applications Special topics like the Multiple Document Interface and powerful recursive programming techniques Note CD-ROM DVD and other supplementary materials are not included as part of eBook file

**Database Programming with Visual Basic .NET and ADO.NET** F. Scott Barker, 2003 The topic combination of VB .NET and ADO.NET is unbeatable VB .NET is the most popular language in which to code And every developer needs to understand ADO.NET to allow data to be accessed from a Web site In this book Developers will be shown numerous code examples that will illustrate how to program database driven applications within the .NET Framework The book is aimed at both established and new VB Developers Important topics covered include Visual Studio development environment ASP.NET applications Windows Forms application using VB .NET with ADO.NET complex queries security COM interop and application deployment

**Mastering Visual Basic .NET Database Programming** Evangelos Petroustos, 2002 Enter a new world of database programming Visual basic .NET and ADO.NET facilitate the development of a new generation of database applications

including disconnected applications that run on the web Mastering Visual Basic NET database programming is the resource you need to thrive in this new world assuming no prior experience with the database programming this book teaches you every aspect of the craft from GUI design to server development to middle tier implementation If you re familiar with earlier version of ADO you will master the many new features of ADO NET all the more quickly you will also learn the importance of XML within NET paradigm Coverage include a Getting familiar with the ADO NET object model b Using the data access wizards c Taking advantage of new SQL Server 2000 features d Carrying out XSL Transformation and XPath queries e Generating XML using T SQL for XML statement f Binding controls to ADO NET results set g Tuning your SQL Server 2000 database h Using XML Designer in Visual Studio NET i Leveraging the data access tools available in the visual studio NET IDE j Working with NET data providers k Choosing between streaming data and caching data l Working with the data form wizards in Visual Studio NET m Using advanced ADO NET techniques n Building a threaded application o Using NET s advanced exception handling capabilities p Using NET Deployment Project Template

**Ado.NET Programming in Visual Basic .NET** Steven Holzner,Bob Howell,2003 Written for developers who need to get up to speed on ADO NET this book covers the ADO NET object model from start to finish from database tools to creating data objects from creating Web Services to developing multi tier database applications It also covers everything from Windows Forms classes and data binding to creating ASP NET Web applications

Visual Basic .NET Database Programming For Dummies Richard Mansfield,2001-11-29 Visual Basic NET Database Programming For Dummies covers everything you need to get up and running with this substantially changed version of Visual Basic and to begin creating databases for the new Microsoft NET Platform This book introduces programmers to quick database solutions with Visual Basic NET provides step by step instructions on how to design and build databases from scratch and shows you how to create reports validate and index data and create custom controls The book also demonstrates how to connect your database to the Internet

**SQL Server Database Programming with Visual Basic.NET** Ying Bai,2020-05-27 A guide to the practical issues and applications in database programming with updated Visual Basic NET SQL Server Database Programming with Visual Basic NET offers a guide to the fundamental knowledge and practical techniques for the design and creation of professional database programs that can be used for real world commercial and industrial applications The author a noted expert on the topic uses the most current version of Visual Basic NET Visual Basic NET 2017 with Visual Studio NET 2017 In addition he introduces the updated SQL Server database and Microsoft SQL Server 2017 Express All sample program projects can be run in the most updated version Visual Basic NET 2019 with Visual Studio NET 2019 Written in an accessible down to earth style the author explains how to build a sample database using the SQL Server management system and Microsoft SQL Server Management Studio 2018 The latest version of ASP NET ASP NET 4 7 is also discussed to provide the most up to date Web database programming technologies This important book Offers illustrative practical examples and detailed descriptions to aid in

comprehension of the material presented Includes both fundamental and advanced database programming techniques Integrates images into associated database tables using a DevExpress UI tools WindowsUI Written for graduate and senior undergraduate students studying database implementations and programming courses SQL Server Database Programming with Visual Basic NET shows how to develop professional and practical database programs in Visual Basic NET 2017 Visual Basic NET 2019

**Programming Right from the Start with Visual Basic.Net** Thaddeus R. Crews, Chip Murphy, 2004 For one semester introductory courses in Visual BASIC Programming Programming Right From the Start with Visual Basic NET combines innovative pedagogy with the latest technology including object orientation and the NET framework This comprehensive book uses a unique modular approach In a simple straightforward manner Unit 1 teaches students the essential concepts for logic and design including variables input assignment output conditions loops procedures functions arrays and files Unit 2 introduces VB NET syntax with an emphasis on designing and developing graphical event driven programs with an emphasis on applied business solutions Unit 3 illustrates the power of the NET Framework including chapters on ADO NET database programming ASP NET web applications and object oriented programming Unit 3 also contains two detailed case studies one involving a complete Shopping Cart implementation using ASP NET and ADO NET and a second detailed case study of a working machine learning program

**Database Access with Visual Basic .NET** Jeffrey P. McManus, Jackie Goldstein, 2003 Whether you are using WinForms WebForms or Web Services Database Access with Visual Basic NET Third Edition is your practical guide to developing database applications with Visual Basic NET and ADO NET The authors provide real world solutions to the data access issues Visual Basic NET developers face every day and share their secrets for becoming a more effective database programmer using NET technologies The book begins by reviewing the fundamentals of database development Structured Query Language SQL and Microsoft SQL Server tm 2000 It then examines how to use the major ADO NET objects to access data stored in relational databases Through detailed examples readers learn how to use properties and methods as well as more advanced features and techniques Extensive code listings in Visual Basic NET illustrate each concept while business cases apply concepts to real world applications The final chapters provide a solid examination of how XML and ASP NET integrate with ADO NET to create various types of database applications A companion Web site provides the code used in the book s myriad examples all of which is compatible with Visual Basic NET 2003 Key topic coverage includes SQL queries and commands Using SQL Server 2000 ADO NET objects Advanced ADO NET features and techniques SQL Server and OLEDB as well as ODBC NET Data Providers Using Visual Studio NET Data Projects for managing SQL Scripts Integrating XML with ADO NET Developing Web based database applications with ASP NET Web services and middle tier objects Database Access with Visual Basic NET Third Edition equips VB developers with the knowledge and skills needed to build a powerful new generation of database applications in less time using NET technologies 0672323435B01092003

Beginning VB .NET 1.1 Databases Dan Maharry, 2006-11-02 Visual Basic NET is a powerful NET

programming language that is often considered the workhorse of programming Further development in VB NET accounts for a huge portion of all programming efforts To understand VB NET is to meet challenging programming projects head on Author Dan Maharry livens the topic with his unique style and presents you with the skill set you want and need to enter today s VB NET programming jobs This book is an ideal read for beginning and intermediate VB NET students who want to understand the core of VB NET and database programming Maharry is at the height of his powers and promises to lead you on a memorable VB NET journey

**Practical Database Programming with Visual Basic.NET** Ying Bai,2012-05-09  
Practical Database Programming with Visual Basic NET The most up to date Visual Basic NET programming textbook covering both fundamentals and advanced level programming techniques complete with examples and solutions Visual Basic NET VB NET is an object oriented computer programming language that can be viewed as an evolution of the classic Visual Basic VB which is implemented on the NET Framework Microsoft currently supplies two major implementations of Visual Basic Microsoft Visual Studio which is commercial software and Microsoft Visual Studio Express which is free of charge Forgoing the large amounts of programming codes found in most database programming books Practical Database Programming with Visual Basic NET shows students and professionals both how to develop professional and practical database programs in a Visual Basic NET environment by using Visual Studio NET Data Tools and Wizards related to ADO NET 4 0 and how to apply codes that are auto generated by solely using Wizards The fully updated Second Edition Covers both fundamentals and advanced database programming techniques Introduces three popular database systems with practical examples including MS Access SQL Server 2008 and Oracle Features more than fifty sample projects with detailed illustrations and explanations to help students understand key techniques and programming technologies Includes downloadable programming codes and exercise questions This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Visual Studio NET environment

**Expert One-on-One™ Visual Basic® 2005 Database Programming** Roger Jennings,2006-02-13 Are you hesitant to migrate to Visual Studio r 2005 Maybe you re ready to upgrade to Visual Basic 2005 but feel a bit overwhelmed by ADO NET 2 0 and the Visual Data Tools of this new release In this hands on guide I ll share with you the best practices the latest features and advanced data management techniques with Visual Basic 2005 and SQL Server or SQL Server Express 2005 Plus I ll incorporate simple to moderately complex project examples that feature real world database front end applications with Windows and Web forms First I ll begin with ADO NET 2 0 basics then I ll move on to designing and programming smart clients with typed DataSets as their data sources Gradually I ll walk you through using DataSource GridView and DetailsView Web controls Finally I ll demonstrate how to take advantage of the new T SQL extensions in process Web services and notifications What you will learn from this book How to build usable Windows r and Web forms from a sample database in less than five minutes without writing a line of code Effective writing of data validation

code for bound text boxes and DataGridViews Ways to apply advanced ASP NET 2 0 data techniques The process of creating and deploying VB 2005 SQL CLR projects Who this book is for This book is for experienced VB programmers who are upgrading from VB6 or VS 2002 2003 to VB 2005 Basic familiarity with the VS 2005 or VB Express 2005 environment is helpful but not assumed No prior VB6 VBA or VBScript experience is necessary Wrox Expert One On One books present the wisdom accumulated by an experienced author who is recognized as an expert by the programming community These experts challenge professional developers to examine their current practices in pursuit of better results

**Beginning ASP.NET Databases Using VB.NET** John Kauffman,Fabio Claudio Ferracchiati,Brian Matsik,Eric N. Mintz,Jan D. Narkiewicz,Kent Tegels,Donald Xie,John West,Jesudas Chinnathampi,James Greenwood,2004-05-21 What is this book about For a web site to offer its users an experience that improves on that of newspapers or textbooks it needs a way to change the information it contains dynamically and that means it needs access to a data source Through the combination of ASP NET and ADO NET Microsoft provides everything necessary to access read from and write to a database and then allow web users to view and manipulate that data from a web browser In this book we ll show you how it s done What does this book cover Packed with clear explanations and hands on examples Beginning ASP NET Databases contains everything you ll need on your journey to becoming a confident successful programmer of data driven web sites In particular we ll look at Connecting to common data sources including SQL Server and MS Access Reading data with data reader and dataset objects Creating and deleting records and editing data Displaying data with ASP NET s web server controls Writing and using stored procedures from VB NET code Placing your data access code in reusable class libraries The book closes with a real world case study that consolidates the tutorials throughout the book into a practical result Who is this book for To use this book you need a computer running either Windows 2000 or Windows XP Professional Edition The examples it contains will not run on Windows XP Home Edition This book is for people who have some experience of programming ASP NET with Visual Basic NET are familiar with the operation of the NET Framework and want to learn how to use ASP NET to make data centric web applications No prior knowledge of database programming is necessary

[Programming with Microsoft Visual Basic .NET](#) Diane Zak,2002 Experience the dynamic changes of the next generation of Visual Basic Best selling author Diane Zak takes Microsoft s NET platform head on with this innovative book for beginning programmers Unlike other programming titles this book teaches programming from a task driven approach rather than a command driven approach It includes extensive hands on end of chapter materials and tutorials By working through the tutorials which are each motivated by a realistic case individuals learn how to use programming applications found in the workplace Second the content organization and approach of this book exploit the already familiar popular Windows environment Master the latest programming tools with this highly successful book

*Visual Basic .NET All-In-One Desk Reference For Dummies* Richard Mansfield,2003-03-21 Visual Basic NET made clear Covers all aspects of VB NET programming in seven self contained minibooks Visual Basic NET

Programming Fundamentals Advanced Visual Basic NET Programming The NET Editor Object Oriented Programming Programming for the Web Database Programming and Graphics and Games Visual Basic is the primary tool of more than fifty percent of all professional developers so the upgrade to VB NET represents a major paradigm shift this handy all in one guide gives them easy access to valuable information Guides the reader through getting integrated with the rest of Visual Studio NET covers programmatic encryption and other NET security capabilities and shows how to program for Web services with VB NET and ASP NET Companion Web site includes a must have bonus appendix that provides parallel VB 6 and VB NET sample code to help VB programmers make the somewhat difficult transition to NET

### **Beginning Visual Basic 2005**

**Databases** Thearon Willis, 2006 As one of the most popular programming languages in the world Visual Basic continues to expand on the functionality and flexibility of its framework This book explains how to use Visual Basic 2005 to write efficient database applications that can be used throughout an enterprise With this teaching tool you ll learn how to use queries views and stored procedures to efficiently access and manipulate data from your applications You ll get a firm grasp on using ADO NET as well as OleDb SQL and Oracle to access specific databases Plus hands on examples and try it out exercises help you put your reading into practice so that with each chapter you ll gradually build the pieces of a single application What you will learn from this book How ADO NET continues to evolve as a building block for accessing and manipulating data in relational databases Ways to encrypt and decrypt data hash passwords and further secure access to your data Techniques for accessing your Web Service from both Windows r and Web applications Best practices for using business logic and data access components to produce report data or update data in your back end databases Who this book is for This book is for developers who want to learn to write database applications and back end databases such as Microsoft r Access Microsoft r SQL Server and Oracle r Some experience with Visual Basic 2005 is helpful but not required Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think providing a structured tutorial format that will guide you through all the techniques involved

**beginning vb.net databases** Willis T,

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Visual Basic Net Database Programming**

In a world inundated with displays and the cacophony of instantaneous connection, the profound power and mental resonance of verbal artistry usually fade in to obscurity, eclipsed by the regular barrage of sound and distractions. However, set within the musical pages of **Visual Basic Net Database Programming**, a captivating work of literary splendor that impulses with fresh thoughts, lies an memorable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus manuals visitors on a mental odyssey, softly exposing the latent potential and profound impact embedded within the complex web of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is main styles, dissect its charming publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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