

2012 R:BASE® eXtreme 9.1/9.5 Super Advanced Training

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Maui, Hawaii
Monroeville-Pittsburgh, PA
Tucson, AZ
San Diego, CA



eXtreme 9.1/9.5 (32/64)

Bringing Productive Database Development to the Forefront

Course Outline

First Things First

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Welcome to R:BASE eXtreme 9.1/9.5 for Windows

Welcome to the Next Generation R:BASE eXtreme 9.1/9.5 for Windows. R:BASE is an Industrial-Strength, Multi-User Relational Database. But R:BASE is not just a Database Management System; it is a total GUI development environment for all Windows desktop and network applications. R:BASE eXtreme 9.1/9.5 for Windows is the ideal Database Management Suite for creating and maintaining your mission critical data with a true graphical user interface. Since its introduction in 1981 as the first PC-based database management system based on Dr. Codd's relational model, R:BASE has led as the first 32-bit DBMS in its class, providing programming-free application development, automatic multi-user capabilities, 4GL (a full-featured programming language in the R:BASE base product) and embedded ANSI SQL. And now with R:BASE eXtreme 9.1/9.5 for Windows, we have added a whole new look and feel to enhance the applications you develop in R:BASE. You can rapidly produce the type of results that previously would have required various third party development tools. Simply using native controls, you can now design cool applications at a fraction of the cost and development time when compared to other database and development tools available.

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Second Edition

Course Outline

- | Section | Topics |
|---------|--|
| 1 | <p>Understanding the R:BASE eXtreme 9.1/9.5 (32/64) for Windows Environment</p> <ul style="list-style-type: none">• Installation and Configuration<ul style="list-style-type: none">• Typical vs. Server Installation• Customizing Installation for Remote Access Users (Terminal Servers)• Customizing R:BASE Environment Settings• Default Directories• Understanding Configuration Files
RBENGINE91_32.CFG, RBENGINE95_32.CFG
RBENGINE91_64.CFG, RBENGINE95_64.CFG• Using R:BASE eXtreme 9.1/9.5 (32/64) in a Multi-User Environment• Customizing Personal Settings<ul style="list-style-type: none">• Startup Options• Database Explorer• R:BASE Editor• R> Prompt and Command History• Data Browser• Data Designer• Form Designer• Report/Label Designer• Application Designer• Hint Settings• Walkmenu Time Interval• Custom Colors• Managing Favorite Folders• Enabling Built-in Object Inspectors for Form, Label and Report Designers• Using Built-in RBG9 R:DCC Client• Managing Updates |
| 2 | <p>Upgrading to R:BASE eXtreme 9.1/9.5 (32/64)</p> <ul style="list-style-type: none">• Upgrading R:BASE 7.6 Database/Application to R:BASE eXtreme 9.1/9.5 (32)• Upgrading R:BASE 7.6 Database/Application to R:BASE eXtreme 9.1/9.5 (64)• Upgrading R:BASE V-8 Database/Application to R:BASE eXtreme 9.1/9.5 (64) |
| 3 | <p>In-Depth Review of All New Features and Enhancements in R:BASE eXtreme 9.1/9.5</p> <ul style="list-style-type: none">• Database Explorer<ul style="list-style-type: none">• Customizing Database Explorer Options and Columns• Displaying List Items in Groups• Customizing Form/Label/Report Update Version Options• Understanding Drag and Drop Features• Migrating Forms, Labels, and Reports Between Databases• R:BASE Editor• R> Prompt, Command History, and SET NAMEWIDTH Command (64)• File Gateway and R:BASE Gateway Specification (.rgw) Files• Data Designer• Query Builder• Form Designer• Label/Report Designer• External Form Designer• Application Designer• Variable Watch List• Data Dictionary• R:BASE BLOB Editor• Built-In Plugins• Magnifying Glass• User Privileges |

- 4 Designing and Deploying Applications using External Form Files (R:SwitchBoard)
- 5 Understanding New/Enhanced Controls in Forms
 - Enhanced Panel
 - Enhanced Group Box
 - Enhanced Speed Button
 - Link Label
 - Enhanced DB Navigator
 - Enhanced DB Grid
 - DB Slider
 - Enhanced Scrolling Region
- 6 Implementing Footers, Bands, and Filter Bars in DB Grid
- 7 Analyzing Data using Enhanced DB Grid Filter Options
- 8 Using New Custom Glyphs on Check Boxes in Forms
- 9 Using New Custom Glyphs on Speed Buttons in Forms
- 10 Using New Date/Time Picker Options in Forms
- 11 Using New DB Slider in Forms
- 12 Using New Dual Scrolling Regions in Forms
- 13 Using New Form System Variables
- 14 Using New Link Label Control in Forms
- 15 Using New Hint Capture Feature in Forms
- 16 Dynamic New Theme Selector (Selecting from 51 New Themes)
- 17 Using Advanced Rich Text with Mail Merge Option in Reports
- 18 Using New MaxiCode Barcode in Reports
- 19 Using New PDF417 Barcode in Reports
- 20 Using New System Variables in Reports
- 21 Rotating Variable Images in Forms
- 22 Managing User Privileges
- 23 Designing Search Screens Using "On Key Press" Option
 - Traditional Approach
 - Advanced Technique
 - Saving Search Results as HTA File, XLS Workbook and Temporary Table
- 24 Using GROUPINDEX Property for Speed Buttons
- 25 Implementing New Status Bar Options in Forms
- 26 Implementing "Drag and Drop" Functionality in Forms
- 27 Printing Reports Using Radio Group Menu (Part 1)
- 28 Printing Reports Using Radio Group Menu (Part 2)
- 29 Customizing Individual Row Background Color and Font Color in DB Grid
- 30 Implementing DB Grid Zebra Stripes
- 31 Designing MDI (Multiple Document Interface) Applications
- 32 Designing Applications using Tab Set Control
- 33 Using Custom Form Actions
- 34 Using Radio Group Properties

- 35 Using Multi-Select Variable Lookup List Boxes and List Views
- 36 Cascading List Views
- 37 Using Images in ListView Controls
- 38 Using Form Timer Properties
- 39 Using PROPERTY and GETPROPERTY Commands in Reports
- 40 Designing Zebra-Style Reports using PROPERTY Command
- 41 Using Conditional Check Boxes in Reports
- 42 Printing Reports and Labels as MDI (Multiple Document Interface)
- 43 Customizing PRINT Preview Options
- 44 Capturing DBCalc Results as Variables in Reports
- 45 Customizing CrossTab Reports
- 46 Defining Hot Spots in Reports
- 47 Refresher on Sub-Reports and Nested Sub-Reports
- 48 Management Tools
 - Designing Ad hoc Reports using Query Forms
 - Management Reports (Identifying Customers by Given Criteria)
- 49 Using GATEWAY EXPORT to Create:
 - Colorful XLS Spreadsheet
 - Colorful Multi-Tab XLS Workbook
- 50 Using Integrated PLUGINS in R:BASE eXtreme 9.1/9.5
- 51 Taking Advantage of:
 - New Commands (DEFF, REFF, CREATEOBJECT, DELETEOBJECT)
 - New CHKVAR, CHKCUR, CVAL and GETVAL Functions
 - New Date Functions
 - New SET Commands (FEEDBACK, PROGRESS, NAMEWIDTH)
 - New Local and Global Settings
 - Enhanced Commands (DIR, OUTPUT, PLUGIN, PAUSE 3, PRINT, CONNECT, ON CONNECT, DROP, UNLOAD, SATTACH, CREATE TABLE, ALTER TABLE)
 - TOP and LEFT Parameters
 - Form System Variables
 - Report System Variables
 - Additional PROPERTY Commands
 - Additional GETPROPERTY Commands
- 52 Implementing Code Security with 512-Bit File Encryption
- 53 Integrating Windows Media Player ActiveX Control Properties
- 54 Integrating R:Report Print Manager (an External Form File) in your Applications
- 55 Analyzing and Optimizing Database Performance:
 - Table/Column Relationship
 - Constraints and Indexes
 - Workstation Environment and Settings
 - Taking Advantage of TEMPORARY Tables and Views
 - Taking Advantage of Stored Procedures and Triggers
- 56 Implementing Database Maintenance Routines in Applications
 - Table Analysis
 - Pack Tables
 - Pack Indexes
 - Unattended Backup of Entire Database
 - Transferring Backups to Remote Locations

- 57 Documenting the Entire Database
- 58 Understanding Debug Techniques
- 59 Compiling and Distributing R:Compiler Applications (Advanced Tips and Techniques)
 - Embedding R:BASE 9.1/9.5 Engine into Executable
 - Embedding Additional Resources into Executable
 - External Form Files
 - R:BASE Forms
 - R:BASE Reports
 - R:BASE Labels
 - Themes
 - Runtime Licenses
 - Plugins
 - Misc. Files
 - Customizing Executable File

- 60 Using R:BASE Add-On Products and Tools
 - R:BASE Plugin Power Pack
 - R:Web Suite
 - R:Web Reports
 - R:Web Gateway
 - R:Charts

- 61 **Bonus Topics and Applications**
 - Adding Contents in Forms and Reports
 - Capturing Images in Forms
 - Exploring the New Features and Properties of the Advanced Rich Text Editor
 - Image Annotations in Forms
 - Integrating External Themes
 - Integrating New FEEDBACK System Variables
 - Integrating R:BASE eXtreme 9.1/9.5 (64) with ODBC Compliant Databases
 - Understanding New BSTR Data Type
 - New PROPERTY and GETPROPERTY Commands
 - Roll Up MDI Forms
 - The Latest and Greatest Running R:BASE Your Way! (Part 18)
 - **eXclusively 9.5!**
Special application to demonstrate the use of all the additional features and controls in R:BASE eXtreme 9.5.

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Sample Applications

A Comprehensive List of Sample Applications *(in alphabetical order)*

01. AddingContent
02. AdvancedDBBackupRoutines
03. AnalyzingDataUsingEnhancedDBGridFilterOptions
04. CapturingDBCalcResultsAsVariablesInReports
05. CapturingImages
06. CascadingListView
07. ConditionalOddEvenInReports
08. ConditionalFormattingInReport
09. ConditionalMAKECLICKProperty
10. CustomizingCrossTabReports
11. CustomizingIndividualRowBackgroundAndFontColorInDBGrid
12. CustomizingPrintPreviewOptions
13. DefiningHotSpotsInReports
14. DesigningApplicationsUsingTabSetControl
15. DesigningMDIApplications
16. DesigningSearchScreensUsingOnKeyPressOption
17. DesigningZebraStyleReportsUsingPropertyCommand
18. DropDownsAndDynamicLookups
19. DynamicRChartsInFormsAndReports
20. DynamicSearchFormsUsingDBGrid
21. DynamicThemeSelector
22. ExploringtheNewFeaturesandPropertiesoftheAdvancedRichTextEditor
23. Generating_XLS_XLSX_Files
24. ImageAnnotations
25. ImplementingDBGridColumnPopupMenusAndHintExpressions
26. ImplementingDBGridZebraStripes
27. ImplementingNewStatusBarOptionsInForms
28. IntegratingExternalThemes
29. IntegratingNewFEEDBACKSystemVariables
30. IntegratingPlugins
31. IntegratingRBASEwithODBCCompliantDatabases
32. IntegratingWindowsMediaPlayerActiveXControlProperties
33. ManagementTools
34. ManagingListBoxAndListViewItems
35. ManagingUserPrivileges
36. NewBSTR
37. NewPROPERTYandGETPROPERTYCommands
38. PrintingReportsUsingRadioGroupMenu
39. PrintingReportsUsingRadioGroupMenu_Part_2
40. RollUpMDIForms
41. RotatingVariableImagesInForm
42. RRBYW15
43. RRBYW16
44. RRBYW17
45. SubReportsAndNestedSubReports
46. TakingAdvantageOf
47. UsingAdvancedRichTextForMailMerge
48. UsingBrushStyleAndPenStylePropertiesInReports
49. UsingConditionalCheckBoxesInReports
50. UsingCustomFormActions
51. UsingDBTreeViewControl
52. UsingDragAndDropFeatureInForms
53. UsingEnhancedDBGird
54. UsingEnhancedDBGirdBandListProperties
55. UsingEnhancedDBGridFilterBar
56. UsingEnhancedDBGridFilterBarProperties
57. UsingEnhancedScrollingRegion

58. UsingFormTimerProperties
59. UsingGatewayExportToCreateXLSWorksheets
60. UsingGroupIndexPropertyForSpeedButtons
61. UsingImagesInListViewControls
62. UsingJumpAndJumpToPropertyCommands
63. UsingLinkLabelControl
64. UsingMultiSelectVariableLookupListBoxes
65. UsingMultiSelectVariableLookupListViews
66. UsingPDFViewerControlProperties
67. UsingRadioGroupProperties
68. UsingSpeedButtonGroups
69. UsingTOPITEMProperty
70. eXclusively 9.5!
Special application to demonstrate the use of all the additional features and controls in R:BASE eXtreme 9.5.

Notes:

- ✓ The following External Form Files (with source code) are also included to manage and demonstrate all SAT applications using R:BASE eXtreme 9.1/9.5:
 - RBASEForEveryone.rff
 - RBG9x_ReportPrintManager.rff
 - RBG9x_SAT_Introduction.rff
 - RBG9x_SAT_Switchboard.rff
 - RBG9x_Start_Here.rff
 - RotatingVariableImagesInForm.rff
 - RRBYW15.rff
 - RRBYW16.rff
 - RRBYW17.rff
 - RRBYW18.rff
 - eXclusively95.rff

- ✓ The entire source code for each application is also provided.

Notes: