

# R:BASE Dependency Viewer 11



## Help Manual



# **R:BASE Dependency Viewer 11**

**Manual**

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*by R:BASE Technologies, Inc.*

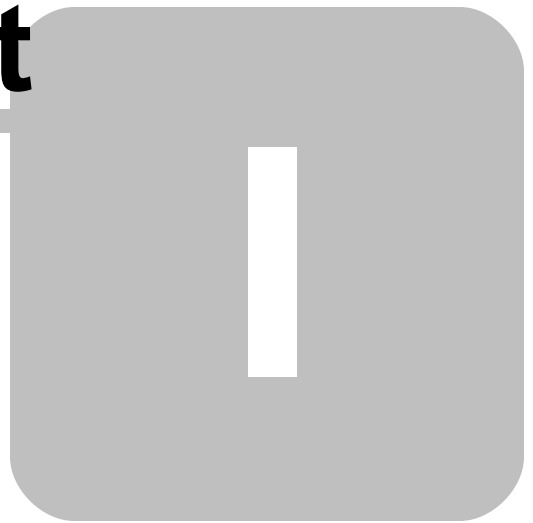
*Welcome to R:BASE Dependency Viewer 11!*

*The R:BASE Dependency Viewer generates model for R:BASE databases within a graphic environment using foreign key relationships to display the relational design.*

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**Part**



# 1 Introduction

## 1.1 R:BASE Dependency Viewer 11

The R:BASE Dependency Viewer generates model for R:BASE databases within a graphic environment using foreign key relationships to display the relational design.

The R:BASE Dependency Viewer connects directly to the database and imports the table structure to create a model. Tables, column relationships, and indexes are available for display. The R:BASE Dependency Viewer generates model for R:BASE databases within a graphic environment using foreign key relationships to display the relational design. After structural changes are made for a database, models can be refreshed to reflect dependency differences.

Images and text notes can be added to the model to add detail to the displayed dependencies. Regions can be added to group objects for an easier break down of database structure.

The R:BASE Dependency Viewer provides the ability to export the model as a PDF document. Printing features allow for the model to be sent to a printer in several pages to for detailed mapping display. The interfaces supports models to be saved and loaded from files. A database connection history is available for time-saving use.

The R:BASE Dependency Viewer allows database administrators to:

- Quickly understand the database by graphically tracking database object dependencies
- Find potential orphans with no dependencies on other objects, to help clean up a database
- Quickly visualize areas of complexity with dependency diagrams
- Analyze the potential impact of database schema changes
- Rapidly document database dependencies for archiving, reporting, and version control

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First Edition

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3. Our support staff deals with advanced issues, therefore the person contacting R:BASE Technologies for assistance should be the system administrator or have other R:BASE/SQL experience and be able to understand and implement the advice given.
4. To have the database, application, and command files being reviewed, safely backed-up before attempting assistance. R:BASE Technologies will NOT be held responsible for lost data or corruption as a result of advice given.

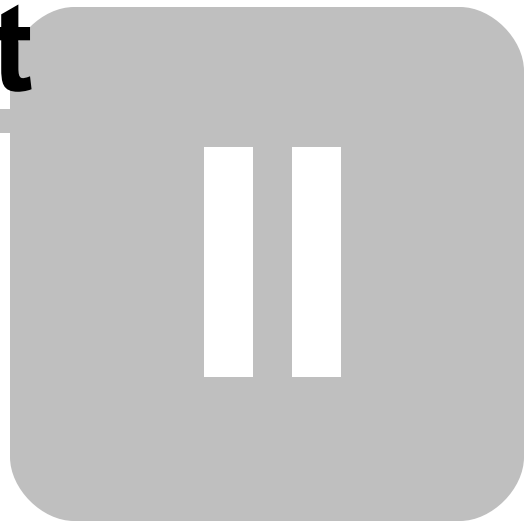
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1. To provide quality assistance in a timely manner to aid in the installation of the product and elementary conversion of database, application, and command files within 30 days of the date of purchase.
2. To provide a reasonable solution for any solvable issue. Not all issues may be solved, and therefore we will acknowledge the existence of known issues, or bugs, which we are presently aware of, that have no reasonable work-around.

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For application, design, or advanced conversion assistance, R:BASE Technologies offers Technical Support Plans of various types to meet your needs. Please visit the Support page at <https://www.rbase.com/support> for details and pricing.

**Part**



## 2 Installation

### 2.1 System Requirements

The following system specifications are recommended for the optimal use of R:BASE and R:BASE-related software.

#### Workstation Hardware

- 2-Core 2GHz+ CPU
- 2 GB of available RAM (4 GB recommended)
- 2 GB of available hard disk space
- 1024x768 or higher resolution video adapter and display
- Standard mouse or compatible pointing device
- Standard keyboard

#### Server Hardware

- 2-Core 2GHz+ CPU
- 6 GB of available RAM (8 GB recommended)

#### Operating System

- Microsoft Windows 11 (Professional)
- Microsoft Windows 10 (Professional)
- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012, 2012 R2

#### Network

- Ethernet infrastructure (Gigabyte recommended)
- Internet connection recommended, but not required, for license activation, software updates, and support
- Anti-virus programs should exclude the R:BASE program, and any add-on product, executable and database files

### 2.2 Software Installation

The installation of the R:BASE Dependency Viewer is fully automated and does not require user intervention for the initial setup.

Run the installer ".exe", provided by download, while physically sitting at the workstation to begin the installation process, and read the installer screens for licensing and other information as the program installs.

#### Installation Directory

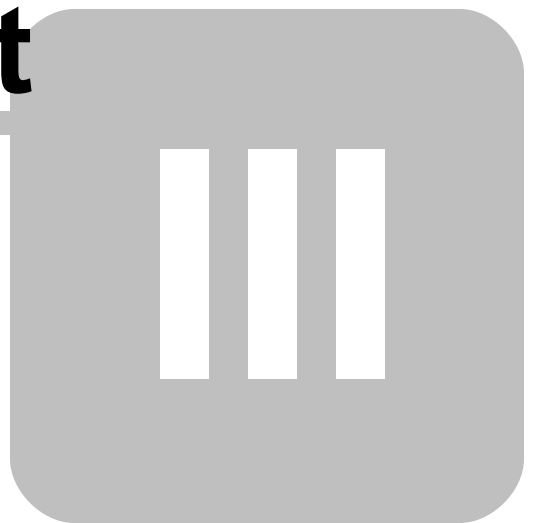
C:\RBTI\RDependencyViewer11

#### Files Installed

RDependencyViewer11.exe  
RDependencyViewer11.chm  
RDependencyViewer11.pdf  
License.rtf  
ReadMe.txt























# Part

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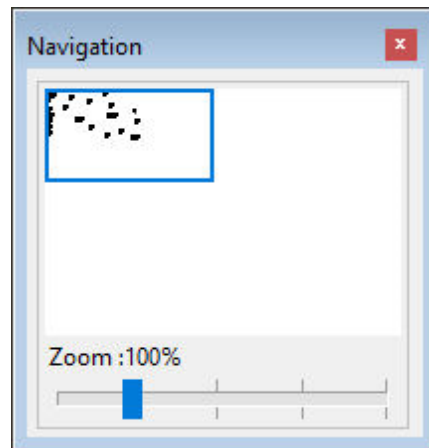
## 3 Using the Dependency Viewer

### 3.1 Tool Bar

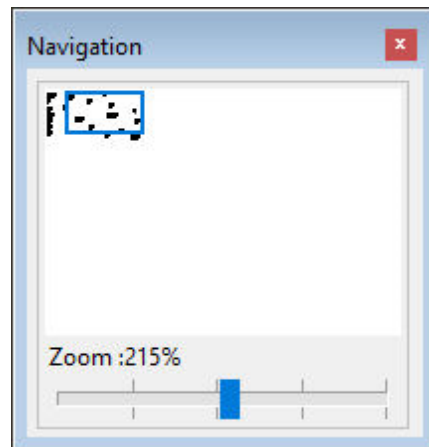
Button	Description
	New Model [Ctrl + N]
	Open Model... [Ctrl + O]
	Save Model [Ctrl + S]
	Save Model As... [Shift + Ctrl + S]
	Displays the Page Setup dialog for printer output, prints the model, or sends the model to a PDF file
	Connects/disconnects databases, and displays a list of recently connected databases
	Imports the database structure for the connected database
	Refreshes the database relationships
	Adds a new image, note, or region to the model
	Centers the objects within the model's dimensions, and displays the Navigation Tool
	Alters the cursor to select and move objects
	Alters the cursor to drag the model
	Alters the cursor to move objects, especially regions
	Alters the cursor to resize objects
	Deletes the selected object
	Zooms in
	Zooms out
	Applies a zoom filter by percentage
	Opens the R:BASE Dependency Viewer model settings
	Displays the R:BASE Dependency Viewer in-line help documentation
	Displays current information about the product such as version
	Closes the R:BASE Dependency Viewer program

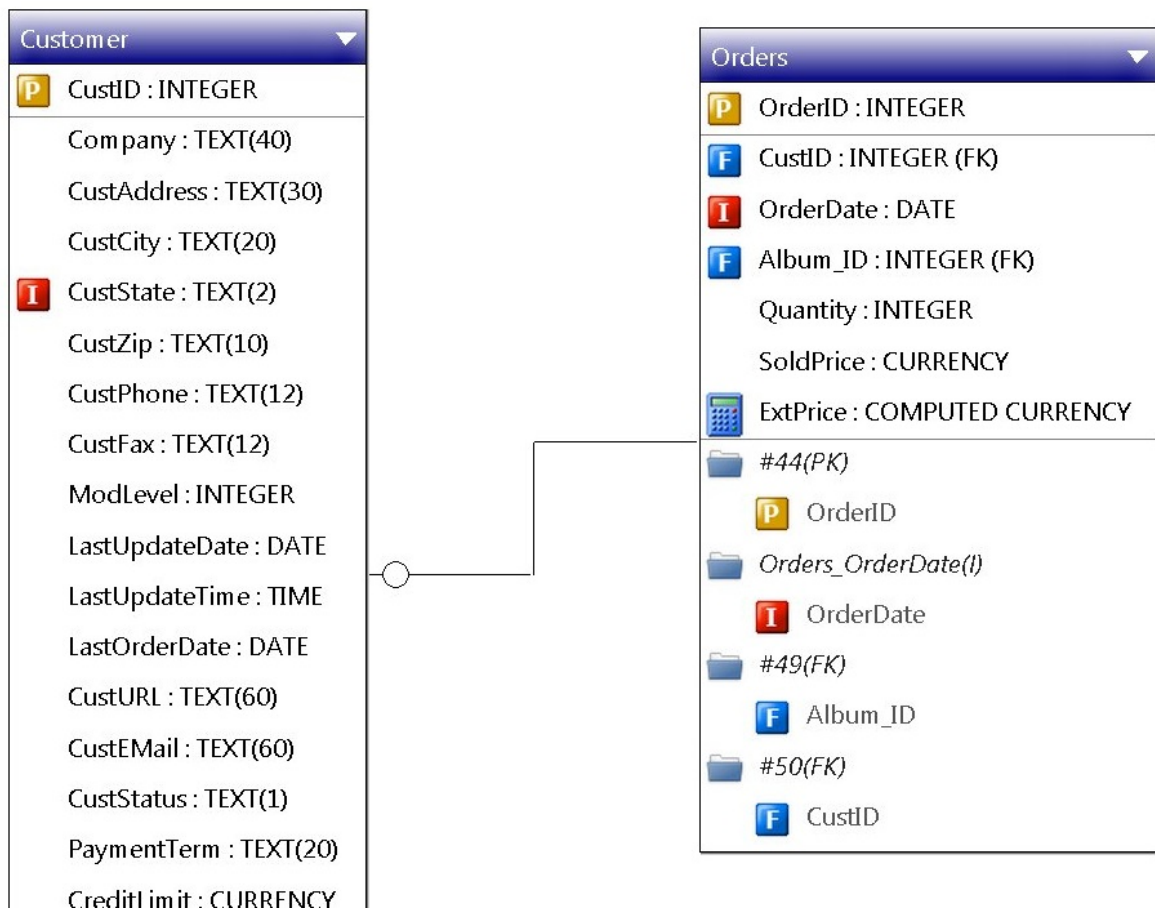
### 3.2 Navigation Tool

The Navigation Tool displays the model and the area currently being displayed. The preview area be zoomed in and out using the slider object. To display the Navigation Tool, select "View" > "Navigation Tool" from the toolbar.



When the zoom percentage display is higher and the navigation square is smaller than the model, the blue navigation square can be dragged to specific areas of the model allowing a clearer view of the model's tables.





### 3.3 Importing a Database

The first step to working with the R:BASE Dependency Viewer is to connect to a database and import the structure.

To connect to a database, select "Database" > "Connect" from the [Tool Bar](#).

A dialog will be displayed to browse the computer for a database structure file (.RB1). After the connecting, the database name will be added to the status bar across the bottom left corner of the R:BASE Dependency Viewer window.

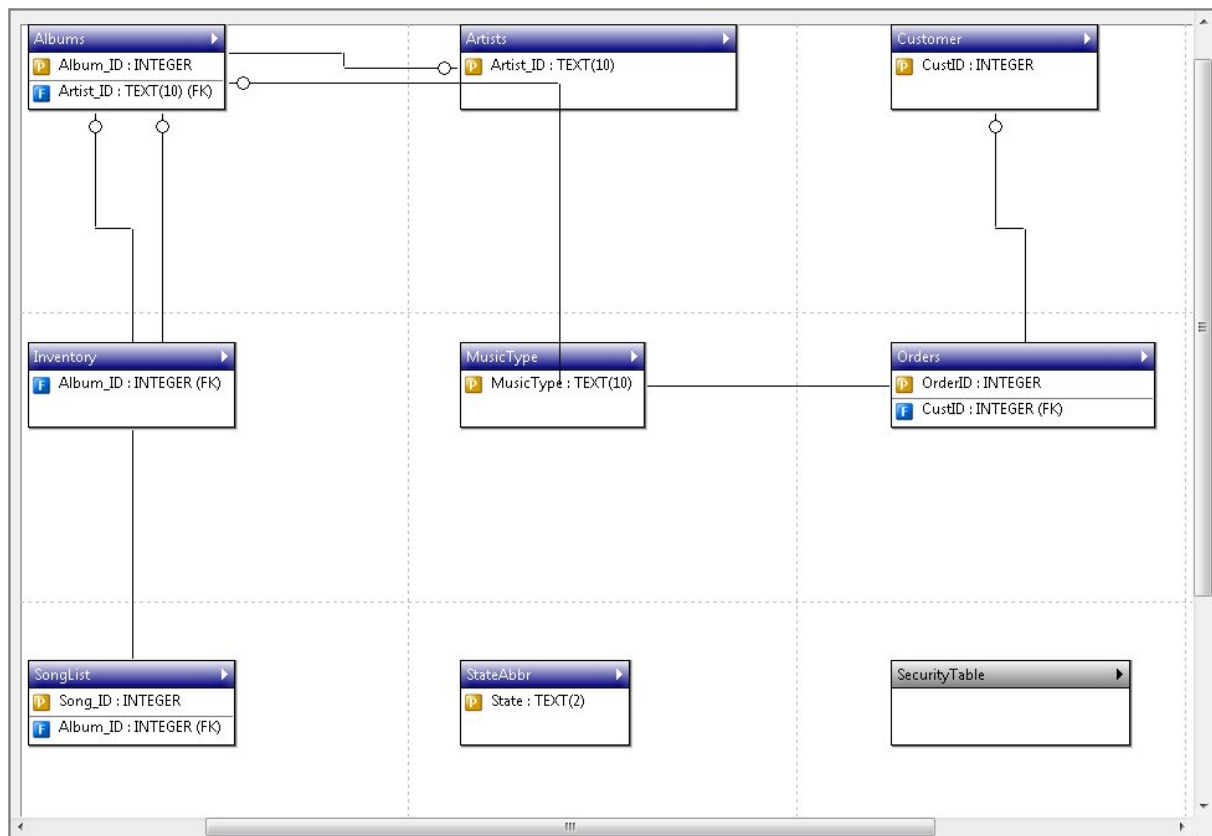
Next, import the database structure by selecting the "Import" button from the [Tool Bar](#).

The tables defined for the database will appear from top to bottom and left to right in alphabetical order. The table with a constraint or index will be listed first with a blue and white gradient background for the table caption. Tables without a constraint or index will be listed at the bottom with a grey and white gradient background. ODBC Server tables will have a green caption. dBase tables will have a brown caption.

Table names appear in the caption for each square. Also listed in the table caption is an arrow for expanding the full table column and constraint list. The table objects can be dragged around the model background using the mouse.

Relationship lines will link to the tables where references are implemented. By default, a character is located on each line where a table is referenced by another table.

The table objects will appear similar to the image below.



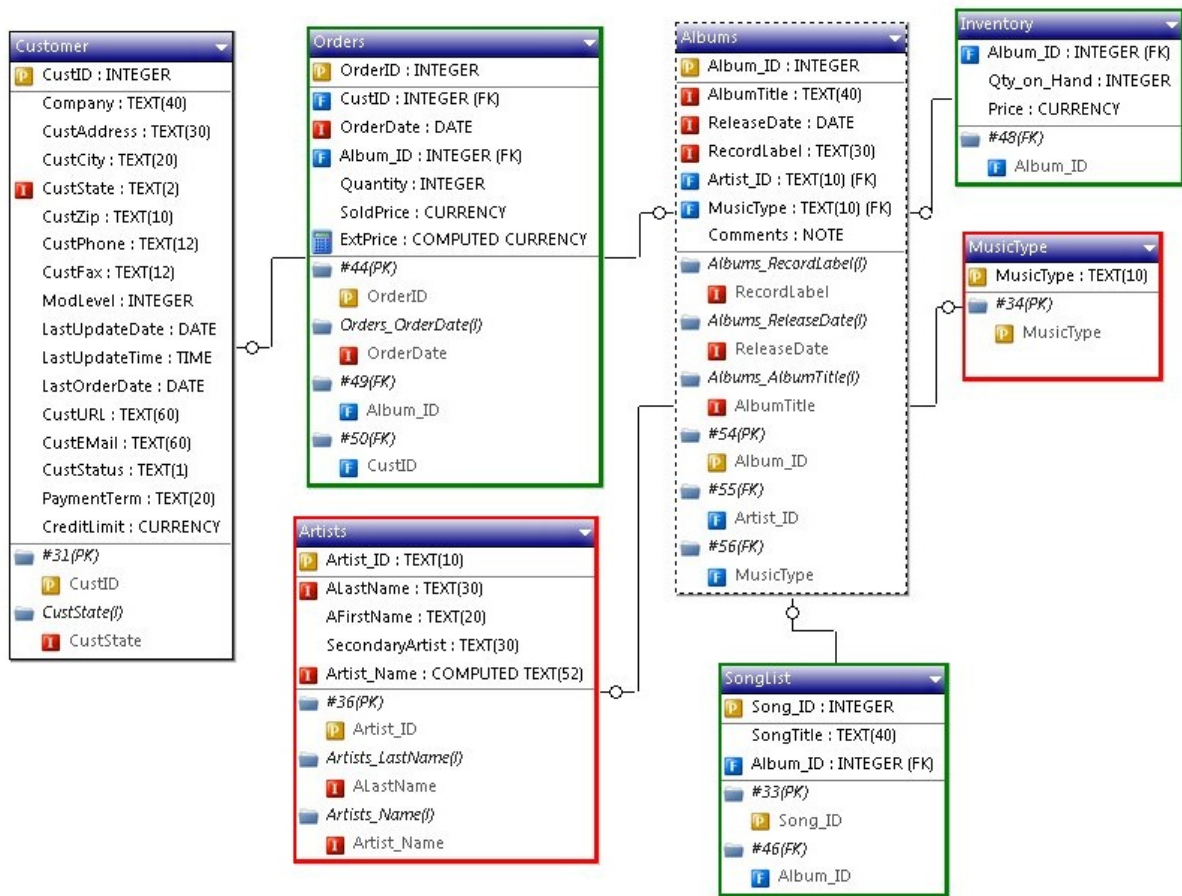
### 3.4 Model Relationships

After a database is imported into a model and tables are displayed, the dependencies can be reviewed. By default, a character is located on each line where a table is referenced by another table.

When a table is selected, a red border is displayed around the objects that reference the object selected. Green shading around a table object shows the objects that the object you selected references.

In the image below, the BluzVan sample database is used where the Albums table object in the center is selected. The Inventory, Orders, and SongList tables have a green border as they reference the Albums table. The Artists and MusicType tables have a red border as the Albums table references them.





### 3.5 Image Properties

Images can be added to the database model. To add an image, select the "Image" button from the [Tool Bar](#)

Then, after using the mouse to click on the model where the image will be located, a dialog will be displayed to browse the computer for an image.

After the image is added, the image properties can be changed by right clicking on the image and selecting "Edit..."

- **Object Name** - specifies the image object name
- **Image to Load** - specifies the image that can be loaded into the object
- **Options** - specifies image options
  - **Center** - centers the image in the object
  - **Proportional** - resizes image to the proportions of the containing control
  - **Transparent** - allows the background to become transparent to the parent object
  - **Stretch** - resizes image to fill entire object
- **Comments** - specifies comments for the image object

Image Properties

Object Name: Image\_01

Image to Load

Options

☐ Center ☐ Proportional ☒ Transparent ☒ Stretch

Comments

OK Cancel

### Moving and Resizing

The image can be moved around the model and resized to different widths and heights. Use the "Move" and "Resize" options to perform these tasks.

## 3.6 Note Text Properties

Notes can be added to the database model. To add a note, select the "Note" button from the [Tool Bar](#).

Then, after using the mouse to click on the model where the note text will be located, the model object will appear.

Right click on the added note text and select "Edit..." to view the note text properties.

- **Object Name** - specifies the note text object name
- **Font Color** - specifies the text font color
- **Note Text** - specifies text to be displayed on the model

Note Text Properties

Object Name: Note\_01

Font Color: WindowText

Note Text

Doubleclick on the Note to edit the Text.

OK Cancel

### Moving and Sizing

The Note Text can be moved around the model. Use the "Move" option to perform this task. The size of the Note Text object is based upon the text that it contains and cannot be resized to different widths and heights.

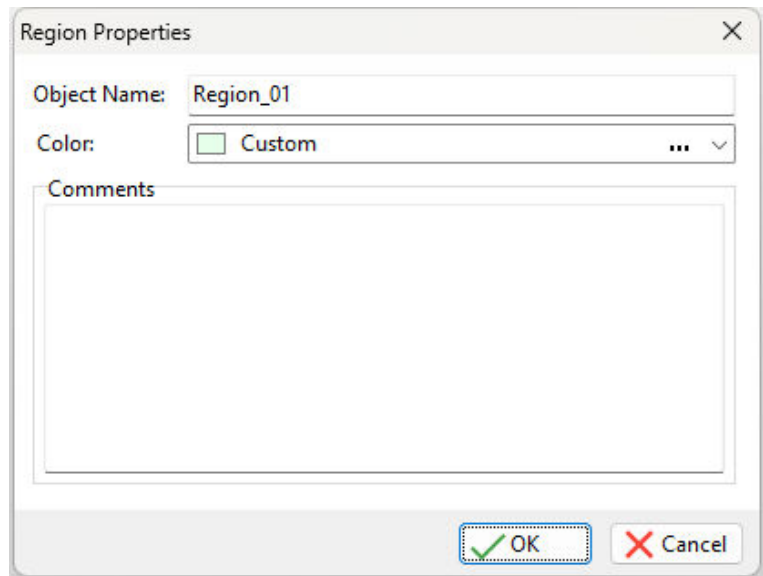
## 3.7 Region Properties

To group objects together, regions can be added to a database model. Once an object is contained within the region borders, it becomes part of the region and is affected by anything that occurs with the region. If the region is moved or deleted, the objects within the region will also be moved or deleted.

To add a region, select the "Region" button from the [Tool Bar](#).

Then, use the mouse to click and drag the region size that is needed for the model. The region will appear. Right click on the added region and select "Edit..." to view the region properties.

- **Object Name** - specifies the region object name
- **Color** - specifies the background color
- **Comments** - specifies comments for the region



The image shows a "Region Properties" dialog box with a title bar and a close button (X). It contains three main sections: "Object Name" with a text field containing "Region\_01", "Color" with a color selection dropdown showing a green square and the word "Custom", and "Comments" with a large text area. At the bottom right, there are "OK" and "Cancel" buttons with green checkmark and red X icons respectively.

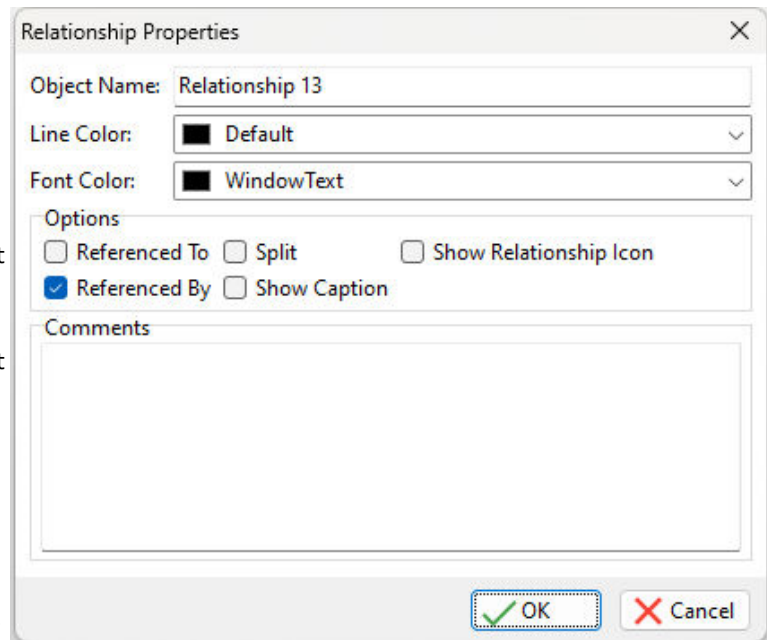
### Moving and Resizing

The region can be moved around the model. Use the "Move" option to perform this task. When the region is moved, any objects completely enclosed within the regions border will also be moved. The region can be resized to different widths and heights. Use the "Resize" option to perform this task.

## 3.8 Relationship Properties

When the database tables are first displayed, all table relationships are linked. The properties for each relationship can be altered.

- **Object Name** - specifies the relationship object name
- **Line Color** - specifies the line color
- **Font Color** - specifies the text caption font color
- **Options** - specifies relationship options
  - **Referenced To** - displays an object on the relationship object where the linking column is referencing to
  - **Referenced By** - display an object on the relationship object where the linking column is referenced
  - **Split** - splits the line linking the tables
  - **Show Caption** - displays the relationship caption
  - **Show Relationship Icon** - displays the relationship icon
- **Comments** - specifies comments for the relationship object



The Relationship Properties dialog box is used to configure the appearance and behavior of a relationship object. It includes fields for Object Name, Line Color, and Font Color. The Options section contains checkboxes for Referenced To, Referenced By, Split, Show Relationship Icon, and Show Caption. A large text area is provided for Comments. The dialog has OK and Cancel buttons at the bottom right.

**Relationship Properties**

Object Name: Relationship 13

Line Color: Default

Font Color: WindowText

**Options**

☐ Referenced To ☐ Split ☐ Show Relationship Icon

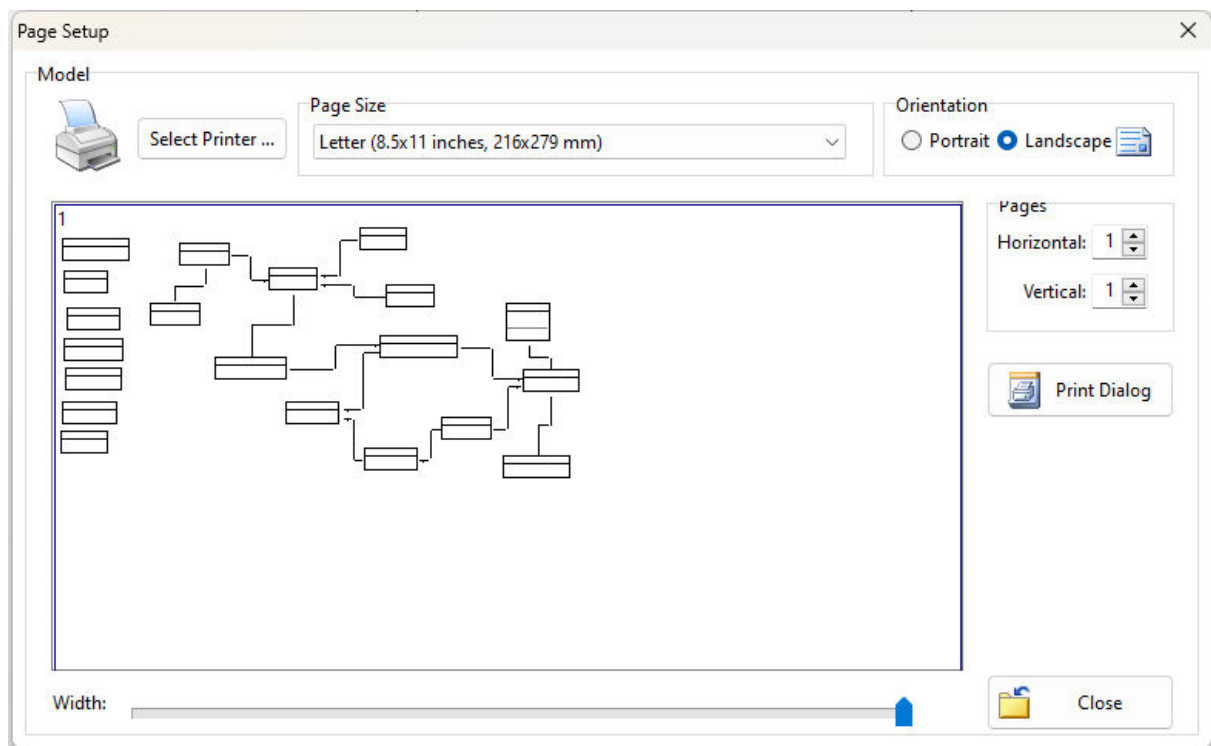
☒ Referenced By ☐ Show Caption

**Comments**

OK Cancel

### 3.9 Page Setup

The Print Preview dialog allows users to adjust several settings to print the model. The width slider control at the bottom of the dialog allows for the model to be displayed across multiple pages of printer output.



The Page Setup dialog box is used to configure the layout and printing of the model. It includes a printer selection button, page size settings, orientation options, and page numbering. A large preview area shows the model diagram. A width slider is located at the bottom, and a Print Dialog button is on the right. The dialog has a Close button at the bottom right.

**Page Setup**

**Model**

Select Printer ...

Page Size: Letter (8.5x11 inches, 216x279 mm)

Orientation: ☐ Portrait ☒ Landscape

**Pages**

Horizontal: 1

Vertical: 1

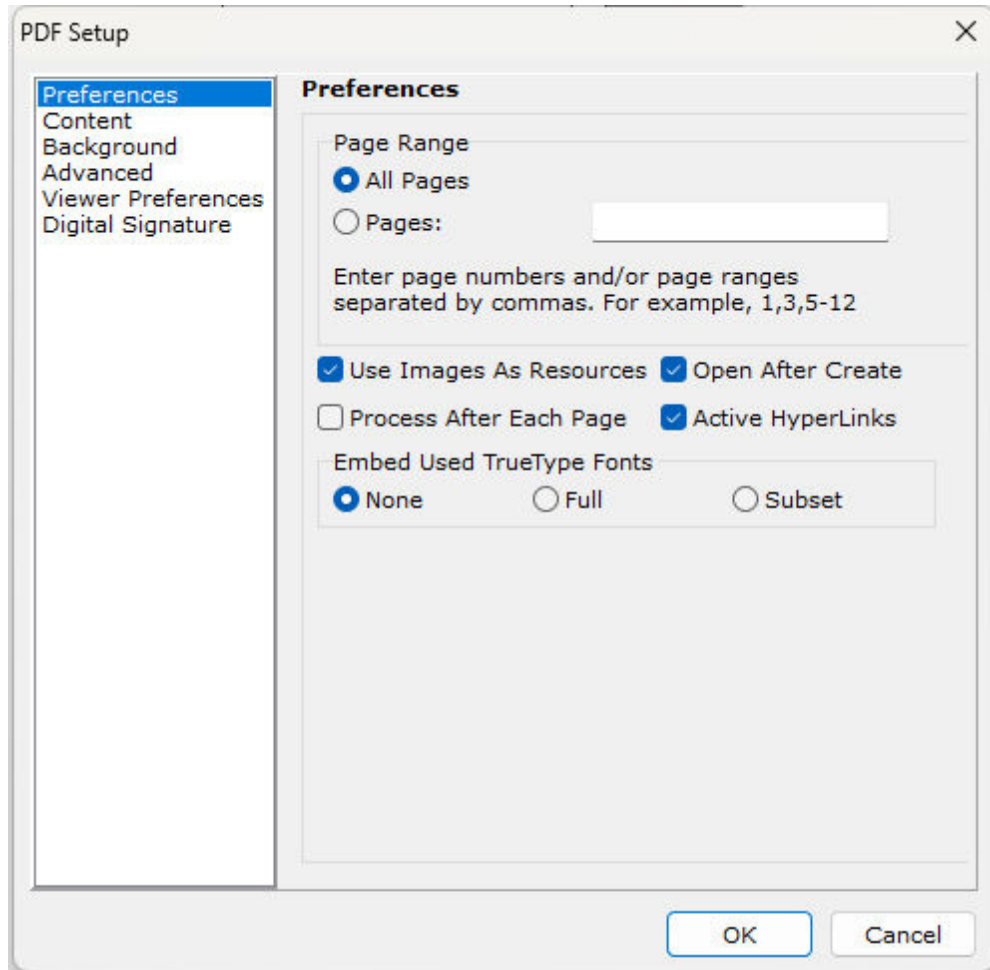
Print Dialog

Width: [Slider]

Close

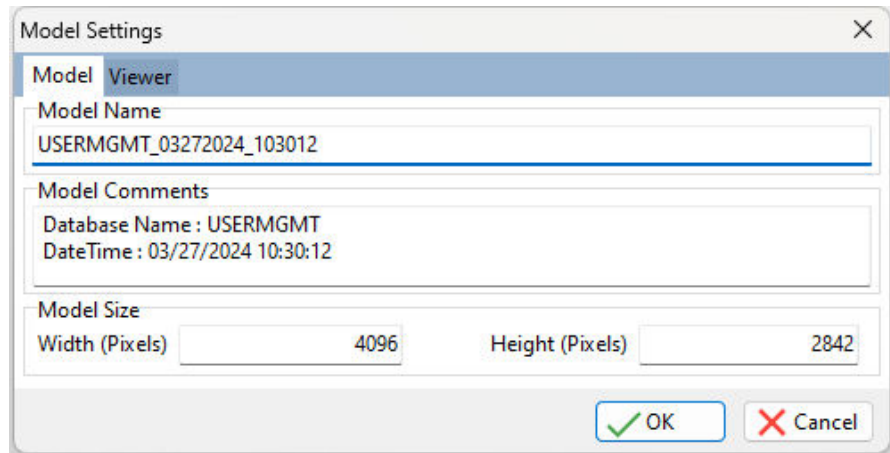
### 3.10 PDF Setup

The "Print" > "to PDF" option allows users to print the model to a PDF file, with various preferences, content, background, and viewer options.



### 3.11 Model Settings

- *Model Name* - specifies the model name
- *Model Comments* - specifies comments for the model
- *Model Size* - specifies the model width and height

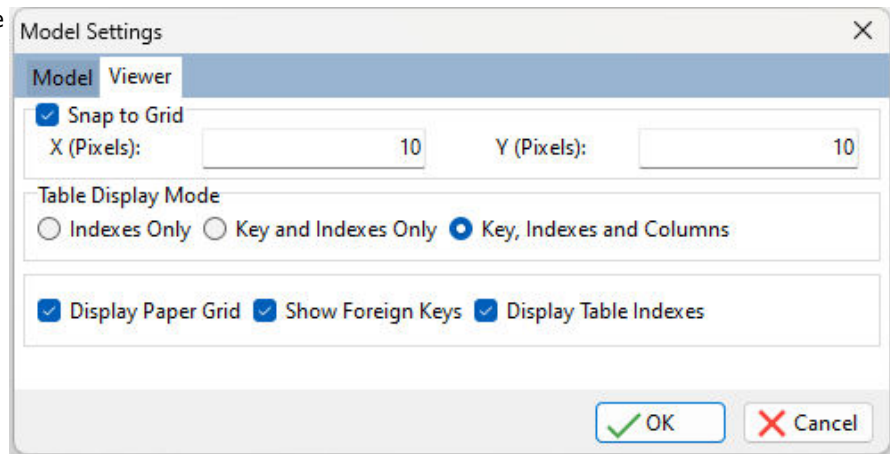


The 'Model Settings' dialog box has two tabs: 'Model' and 'Viewer'. The 'Model' tab is active. It contains the following fields:

- Model Name:** A text field containing 'USERMGMT\_03272024\_103012'.
- Model Comments:** A text area containing 'Database Name : USERMGMT' and 'DateTime : 03/27/2024 10:30:12'.
- Model Size:** Two numeric input fields. 'Width (Pixels)' is set to 4096 and 'Height (Pixels)' is set to 2842.

At the bottom right are 'OK' and 'Cancel' buttons.

- *Snap to Grid* - toggles the snap feature for aligning objects to the grid
- *Table Display Mode* - toggles the display of indexes, constraints, and columns
- *Display Paper Grid* - toggles the model background display of a divided grid based upon into the necessary paper height and width needed for printer output
- *Show Foreign Keys* - toggles the display of defined foreign keys
- *Display Table Indexes* - toggles the display of defined indexes



The 'Model Settings' dialog box has two tabs: 'Model' and 'Viewer'. The 'Viewer' tab is active. It contains the following options:

- Snap to Grid:** A checked checkbox. Below it are two numeric input fields: 'X (Pixels):' set to 10 and 'Y (Pixels):' set to 10.
- Table Display Mode:** Three radio buttons: 'Indexes Only', 'Key and Indexes Only', and 'Key, Indexes and Columns' (which is selected).
- Display Options:** Three checked checkboxes: 'Display Paper Grid', 'Show Foreign Keys', and 'Display Table Indexes'.

At the bottom right are 'OK' and 'Cancel' buttons.

**Part**

**IV**

## 4 Technical Support

Please read over the help documentation at least once before seeking support. We have worked very hard to make the help documentation clear and useful, but concise. It is suggested that you reread these instructions once you have become accustomed to using the software, as new uses will become apparent.

If you have further questions, and cannot find the answers in the documentation, you can obtain information from the below sources:

- Email our Technical Support Staff at: [support@rbase.com](mailto:support@rbase.com)
- Access the R:BASE Technologies Support home page online at <https://www.rbase.com/support>

You may be required to purchase a technical support plan. Several support plans are available to suit the needs of all users. [Available Technical Support Plans](#)

Please be prepared to provide the following:

- The product registration number, which is located on the invoice/order slip for the purchased product
- The type of operating system and hardware in use
- Details regarding your operating environment; such as available memory, disk space, your version of R:BASE, local area network, special drivers, related database structures, application files, and other files that are used or accessed by your application

All provide information will be used to better assist you.

R:BASE Technologies has a number of different services available for R:BASE products. As a registered user, you will receive information about new features for R:BASE and other R:BASE Technologies products. Please remember to register your software. <https://www.rbase.com/register/>



# Part



V

## 5 Useful Resources

- . R:BASE Home Page: <https://www.rbase.com>
- . Up-to-Date R:BASE Updates: <https://www.rbaseupdates.com>
- . Current Product Details and Documentation: <https://www.rbase.com/rbg11>
- . Support Home Page: <https://www.rbase.com/support>
- . Product Registration: <https://www.rbase.com/register>
- . Official R:BASE Facebook Page: <https://www.facebook.com/rbase>
- . Sample Applications: <https://www.razzak.com/sampleapplications>
- . Technical Documents (From the Edge): <https://www.razzak.com/fte>
- . Education and Training: <https://www.rbase.com/training>
- . Product News: <https://www.rbase.com/news>
- . Upcoming Events: <https://www.rbase.com/events>
- . R:BASE Online Help Manual: <https://www.rbase.com/support/rsyntax>
- . Form Properties Documentation: <https://www.rbase.com/support/FormProperties.pdf>
- . R:BASE Beginners Tutorial: <https://www.rbase.com/support/rtutorial>
- . R:BASE Solutions (Vertical Market Applications): <https://www.rbase.com/products/rbasesolutions>

**Part**

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## 6 Feedback

### **Suggestions and Enhancement Requests:**

From time to time, everyone comes up with an idea for something they'd like a software product to do differently.

If you come across an idea that you think might make a nice enhancement, your input is always welcome.

Please submit your suggestion and/or enhancement request to the R:BASE Developers' Corner Crew (R:DCC) and describe what you think might make an ideal enhancement. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the request. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted enhancement request.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to [rdcc@rbase.com](mailto:rdcc@rbase.com).

### **Reporting Bugs:**

If you experience something you think might be a bug, please report it to the R:BASE Developers' Corner Crew. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

You will need to describe:

- What you did, what happened, and what you expected to happen
- The product version and build
- Any error message displayed
- The operating system in use
- Anything else you think might be relevant

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the bug report. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted bug.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to [rdcc@rbase.com](mailto:rdcc@rbase.com).

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