



R:BASE Technologies, Inc.
3935 Old William Penn Highway
Murrysville, PA 15668-1854 USA
1+724.733.0053 Phone
1+724.733.0196 Fax
<http://www.rbase.com>

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What's New in R:BASE X.5 (Version 10.5) UPDATE 2 Official Release Version Build: 10.5.2.20312

Requested Enhancements

09/27/2019 - 03/12/2020

Item	Date Implemented	Description
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01. 10/01/2019

Commands - It would be helpful in situations to be able to use the ALTER TABLE ... ADD COLUMN command syntax to add a column dynamically by creating the column definition from the attributes of a column in another table.

The enhancement is for the ALTER TABLE command, which is an enhancement for the CREATE TABLE command as well. The implemented behavior will "duplicate" the definition of a column that already exists in the database in another table. The enhanced syntax uses "DUPLICATE" as a keyword followed by the table and column name for which the column definition is to be duplicated.

The "DUPLICATE" feature will copy the data type, length, any default value, and the NOT NULL flag, if any. It will not support computed columns. It will also not duplicate any description for the column.

ALTER TABLE Example:

```
ALTER TABLE TSALES_ORDERS +  
ADD COLUMN CUST_DESC +  
DUPLICATE CUSTOMERS.CUST_DESC
```

CREATE TABLE Example:

```
CREATE TEMPORARY TABLE Temp1 +  
(tEmpID INTEGER, +  
tEmpWebAddr DUPLICATE Employee.WebAddress, +  
tEmpStartDate DATE)
```

The above will create the tEmpWebAddr column with the same type and default value as WebAddress in the Employee table.

02. 10/02/2019 Commands - It would be nice if the CopyToClipboard parameter supported rich text controls and data.
- The implementation of COPYTOCLIPBOARD now supports in Rich Edit, Edit, Image, and Memo controls. The parameter also includes an additional SELECTED value, which only copies the highlighted text. Otherwise, if TRUE is passed as the value, all text in the control is copied.
- PROPERTYCompID COPYTOCLIPBOARD TRUE[SELECTED]
03. 10/03/2019 Forms - New "Duplicate" tile and "Edit Custom EEP" buttons have been added to the Tile Menu Control as time-saving features when tile items have many custom values and to directly modify the tile "On Click" EEP.
04. 10/04/2019 R:BASE Editor - It would be helpful if the "Insert" menu bar options, to insert the date, time, a GUID, commands, or a file, were available when launching the R:BASE Editor for Custom EEPs.
05. 10/07/2019 Database Conversion - When converting forms, reports, and labels from legacy DOS/Windows releases, it would be very helpful to create a text log file to review all status messages and errors to handle each converted form, report, or label accordingly.
06. 10/10/2019 Forms - PNG image support has been implemented for the Tree View and DB Tree View controls. The properties allow for PNG images to be loaded, including a shared dimension for the images. When PNG images are specified, the bitmap based images are ignored. The default PNG dimension is 24.
- PROPERTYTreeViewMenu USEPNG 'TRUE'
PROPERTYTreeViewMenu PNGSIZE '32'
07. 10/16/2019 Forms - The Web Browser controls within the R:BASE Form Designer were updated with dynamic properties to allow manipulation of HTML controls in EEPs. The dynamic properties are useful in the following:
- . Integrating local data with web sites that do not have an API
 - . Automating web page tasks within R:BASE
 - . Extracting data from web pages
08. 10/21/2019 Error Messages - All "file not found" error messages have been enhanced to identify the missing file name and the full path. The error messages have also been updated to conform to an identical text and results, ERROR MESSAGE 2583, where applies.
09. 10/22/2019 Forms - A "Highlight Text Color" property has been added to the Split View control. The property specifies the text color for menu item when highlighted, where the mouse cursor is hovered over the menu item.
- PROPERTYSplitView1 HIGHLIGHTTEXTCOLOR 'BLACK'
10. 10/22/2019 Settings - The TIMEOUT setting logic has been improved to now close normally as if the main form is closed. With the normal close process, the behavior is like clicking the "X" close button of the main R:BASE window. If there are prompts like questions to save/close, then that dialog will stay displayed for a maximum of 10 seconds. After 10 seconds, the process is terminated.
11. 10/28/2019 Forms - The tile properties for Tile Menu form controls may now be altered by the Tile ID value. The functionality allows for tiles to be manipulated with the PROPERTY and GETPROPERTY commands similar to Property ID values. The command below will disable the tile, assuming the Tile ID is equal to DBMaint.
- PROPERTYDBMaint ENABLED 'FALSE'

12. 10/31/2019 R:BASE Editor - The Insert GUID functionality inserts values with apostrophes, square brackets and braces. However, the apostrophe and square brackets are not always desired for GUID data.
- The R:BASE Editor settings were enhanced where the default character assigned to the inserted GUI value can be specified with three check box options.
13. 11/04/2019 Commands - Added CODELOCK 6 option to specify an input folder location and file extension followed by an output folder, to CodeLock the entire source into individual locked files. The CodeLock GUI module also includes the added option.
- CODELOCK 6 D:\CmpSource*.rmd D:\CmpLocked
14. 11/29/2019 Find in/Search Utilities - Can the Tree View node properties, specifically the EEP File property, be included in the "Find in Control Properties" (Ctrl-L) searches, for the Database Explorer and forms? Currently, it appears the EEP File property is not searched. This is also true for the Drop-Down Menu Button.
15. 12/09/2019 File Gateway - When importing a new table and the altering the field settings, please allow the precision and scale to be specified for the NUMERIC and BIGNUM data types.
16. 12/09/2019 File Gateway - When specifying to import a new table, please have the interface check to see if the table name already exists.
17. 12/09/2019 File Gateway - Having used an invalid table name (e.g. NAME, LABEL, TABLE) to create a new table when importing some data from an Excel file, I was wondering if it would be possible to display this message when the name is chosen rather than waiting until after the data has been read and the field names reviewed. (Quite a bit of time can be spent adjusting the column names and data types only to find that the table name is invalid at that point.)
18. 12/09/2019 Forms - When you right-click on a row in a Variable Lookup List View, it does not set the focus into that row. So, the value is not trapped in the variable. You must first click on the row, and then right-click on it. The intent is to use the control with both a double-click and a right-click EEP. The Variable Lookup List Box and Variable User Defined List Box controls were also updated.
19. 12/16/2019 Data Designer - Please enhance the column definition interface to inform users if a reserved word is specified as a column name. Right now, only table names are checked.
20. 12/17/2019 Forms - With an Enhanced DB Grid using Sequence Mode, I have a need to fire an EEP after the row has been dragged and dropped and the sequence is altered. Other EEP evaluations occur repetitively, as multiple values are being altered for the individual Sequence Mode/Sequence Field drag operation. The "On Drag Drop" EEP was tried, but does not fire when the row is dropped.
- The "On Drag Drop" EEP will now fire after the Sequence Field dataset is updated with Sequence Mode.
21. 01/07/2020 Forms - The Tab Set control was enhanced with two properties TabTo and AllowChange and an added "Before Tab Change" EEP, which is triggered before the tab is changed. The changes make it possible for access to a tab to be prevented.
- TabTo returns the index of the target tab.
- AllowChange tells the Tab Set control if it should allow the change or not. The default behavior is to allow the change.
- Note that the properties TabTo and AllowChange are only to be used in the "On Before Tab Change" EEP.

22. 01/10/2020 Settings - A new BOOLEAN operating condition setting (ON/OFF) has been implemented which specifies that constants (e.g. TRUE, FALSE) in expressions will be treated as type BOOLEAN values. The default is OFF.
23. 01/30/2020 Forms - It would be nice to have the form Version number displayed in the [Ctrl+Alt+I] information window.
24. 02/04/2020 File Gateway - The Import capabilities have been enhanced to support the .accdb file format for MS Access files.
25. 02/04/2020 Trace Debugger - When tracing an EEP, the corresponding tab should identify the form, control, and EEP-type being traced. Currently, the tab is generically titled (for example) "Custom EEP (94597176)".
- The new friendly naming convention for the Trace Debugger tabs are:
- . Component ID(Caption/Text)|EEP Name (Component ID and Caption/Text will display if exist)
 - . Form/External Form Name|EEP Name
 - . Form/External Form Name|Custom Form Action Name
 - . Report/Label Name|Action Name
 - . Table Name (RUN SELECT)
 - . Stored Procedure Name
26. 02/05/2020 Data Browser/Layouts - The Data Browser should support additional column-formatting options. Of particular importance is customization of the number of decimal digits displayed in numeric fields; currently, trailing zeros are dropped, making it hard to compare related values in different rows. Such settings could be preserved in a saved Layout.
- The Data Browser Layouts have been enhanced to apply display formats to numeric, date, and time values. The display format is available for review in the Layout Details, within the Data Browser settings.
27. 02/06/2020 Forms - New "Popup Menu" support has been implemented for Tree View and DB Tree View controls, to offer a right click popup menu to run procedures.
28. 02/06/2020 RBA Applications - Using hints in RBA application menus gives detailed explanations for the respective menu item to the user. For an experienced user, this is maybe tiresome. However, in a runtime area there is no method to switch off the hints.
- The STATUSHINTS parameter has been added to specify if hints are displayed in the application status bar. The TOP and LEFT parameters have also been added to control the application window location.
- ```
PROPERTYRBA_FORM STATUSHINTS FALSE
PROPERTYRBA_FORM TOP 10
PROPERTYRBA_FORM LEFT 10
```
29. 02/07/2020 Settings - Can the current LAYOUT setting (ON/OFF) be made available in the Saved Layouts tab, within the Data Browser settings? It would save even more time to provide the ability to toggle the LAYOUT setting directly from this area.
30. 02/07/2020 Forms - It would be helpful to know when the mouse cursor is over a form/MDI form, to then give focus automatically. The purpose would be very handy for drag and drop operations between forms, variable refresh, data refresh and so forth when there are multiple MDI forms displayed.
31. 02/11/2020 Forms - The DB/Variable "Date And Time Edit" controls were enhanced with a new "On DateTime Cleared" EEP to handle instances an event is triggered if the date change is from a non-NULL value to NULL (cleared).

32. 02/17/2020 Forms - A new GETPROPERTY parameter was added to capture the column name where the focus is clicked for the column filter in Enhanced DB Grids.
- GETPROPERTY ComponentID CURRENTFILTERCOLUMNNAME 'vFilterColName'
33. 02/17/2020 Forms - Just like the GETPROPERTY capability to acquire a filtered WHERE clause in an Enhanced DB Grid, it would also be helpful to capture the sorted rows.
- GETPROPERTY TABLE 'FormTableName->SORTEDROWS' 'vSortedRows'
34. 02/18/2020 Commands - The ability to capture the current WHERE clause and current column sort in forms, and for forms using an Enhanced DB Grid, has been implemented.
- The below captures the current WHERE Clause and ORDER BY expression for the table.
- GETPROPERTY TABLE 'FormTableName->CURRENTWHERE' 'vCurrentWhere'  
GETPROPERTY TABLE 'FormTableName->CURRENTSORT' 'vCurrentSort'
- The below captures the current WHERE Clause and current sort for the Enhanced DB Grid.  
CURRENTWHERE will return the combination of the form-level WHERE Clause and grid-level filter.  
CURRENTSORT will return the current ORDER BY expression.
- GETPROPERTY ComponentID CURRENTWHERE 'vGridCurrentWhere'  
GETPROPERTY ComponentID CURRENTSORT 'vGridCurrentSort'
35. 02/20/2020 File Gateway/Commands - A new IMPORT parameter, PERCENT\_MODE, was introduced for the XLS format in relation to the treatment of percentage cells and how they differ within XLS and XLSX (9.5 vs 0.095 respectively).
- PERCENT\_MODE <DEFAULT|100|RAW>
- DEFAULT - the default behavior is used. "9.5" for XLS and "0.095" for XLSX.  
100 - the output is 9.5. The stored value is multiplied by 100.  
RAW - the output is 0.095. Note that percentage values are really stored as (raw) decimals
- The default value of PERCENT\_MODE is DEFAULT.
- GATEWAYIMPORT XLS +  
Rates.xlsx REPLACE +  
TaxTableImport +  
OPTION SHEET\_INDEX 0 +  
|SHOW\_PROGRESS ON +  
|PERCENT\_MODE RAW
36. 02/25/2020 Data Dictionary - With the implemented request for the data dictionary (F3) to remember the last table name selected in the Columns tab, could it be enhanced so that the selected table/view is positioned to be visible in the Table/View Name panel when the table/view name is off-screen because it is further down the alphabetical list.
37. 03/02/2020 Commands - The AUTOCHK command has been enhanced to check indexes. A specific index or all indexes may be checked. The database must be connected in order to check indexes.
- The process reviews each index (file 3) and walks through every pointer to the data file (file 2). An error is reported if:
- . The pointer from the index does not point to a valid location in the 2 file
  - . The pointer from the index points to a valid location in the 2 file, but the row that lives there has been deleted
  - . The row count from walking the entire index does not match the row count for the table as stored in file 1

38. 03/06/2020 Functions - The (CVAL('VIEWLOCKS')) function has been implemented to show locks upon views.
39. 03/09/2020 Commands - The LIST command will now show additional letters for the type of lock detected on tables.
- . (L) for a local lock
  - . (R) for a remote lock
  - . (C) for a cursor lock
  - . (r) for a row lock
40. 03/09/2020 Functions - The type of lock on a table can be captured using the new GetLockType parameter added to the GETVAL function: (GETVAL('GetLockType', 'tableviewname')). The function returns the following values: None, Local, Remote, Cursor, Row.

| Item | Date Fixed | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01.  | 09/27/2019 | Forms - When double clicking within an Advanced Variable Rich Edit control the Rich Text editor does not display.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 02.  | 09/30/2019 | Forms - On a fresh start of a form (first launch), the "On Date Change" EEP for the Variable Date/Time Picker does not execute. If you change the dates back and forth a few times, the EEP fires accordingly and then everything works from there on.                                                                                                                                                                                                                                                                                                                              |
| 03.  | 09/30/2019 | Reports - When a report is printed to a large PDF document where an image object is designated as a JPG, a memory allocation issue can result when the image is converted to a bitmap image.                                                                                                                                                                                                                                                                                                                                                                                        |
| 04.  | 10/08/2019 | Reports - When PROPERTYREPORT FIND_TEXT_IN_PREVIEW ON is added to an R:BASE environment, a report is printed twice when previewing a report and then selecting the Print button.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 05.  | 10/18/2019 | Commands - When you unload data for a table or to an ASCII file with the ANSIOUTPUT setting to ON, and the first field with a high order character, CHAR(128) through CHAR(255), has only a single high order character, then it will be unloaded as ?? for that character.                                                                                                                                                                                                                                                                                                         |
| 06.  | 10/18/2019 | Forms - When using PROPERTYAPPLICATION TASKBARBUTTON 'TRUE' for a form and pressing [Windows Logo+D] key combination to go to the desktop, returning to R:BASE does not display the form, and it appears R:BASE is locked, where the form is not seen anywhere. R:BASE must be closed from the Task Manager.                                                                                                                                                                                                                                                                        |
| 07.  | 10/23/2019 | Forms - When assigning a format mask to a phone number field upon a form, using the predefined value (!\000)\ 000\0000:0) within property editor, the field cursor is positioned on the open parenthesis and not a valid position when running the form and entering the data.                                                                                                                                                                                                                                                                                                      |
| 08.  | 10/24/2019 | Functions - The CVTYPE function works for table columns, but does not return the expected values for SYSTEM table columns.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 09.  | 10/24/2019 | System Tables - Within the SYS_TYPES system table, there are discrepancies between the NUMERIC and BIGNUM datatypes in several fields. The SYS_CASE_SENSITIVE value is to be 0 for the BIT, BITNOTE, and VARBIT datatypes.                                                                                                                                                                                                                                                                                                                                                          |
| 10.  | 10/25/2019 | RDCC Client - After logging in, the menu option to review the User Details does not display my user information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 11.  | 10/29/2019 | Forms - When a form is launched in "Enter" mode with a format mask defined for an edit field, where the mask does not match the data in the table, the display of the data is altered incorrectly when leaving and returning to the field. Also, it is not possible to get the focus to the end of the field, and if the entered values are deleted, and the focus moves to another field, the value reappears.<br><br>It is now possible to use a non-matching format mask when entering data through a form. For Edit mode, the data in the table and the format mask must match. |
| 12.  | 10/31/2019 | Indexes - When selecting data from a table where an index (or key) is assigned to a GUID datatype column, and the WHERE Clause condition for the query specifies values where the GUID column IS NULL, the expected results are not returned.                                                                                                                                                                                                                                                                                                                                       |
| 13.  | 11/06/2019 | Codelock - When creating a large table with a Codelocked command file, the table is not defined, as when the file is not locked. The Codelock procedure was updated to utilize increased size limits related to the binary expansion of Codelock data.                                                                                                                                                                                                                                                                                                                              |

14. 11/12/2019 Functions - When a negative value is specified for the second argument, an error is encountered. Can the function be updated to return a NULL without the error message, like the SGET function?
15. 11/14/2019 Forms - The "IN" parameter to launch command blocks in procedure files is not saving the property editor settings, and is not running the expected code within Tree View and List View controls.
16. 11/14/2019 Forms - Error messages reporting a component is not found in the current form are encountered for non-themed applications when a PAUSE/CLS is used within a form's On After Start EEP.
17. 11/18/2019 Error Messages - All "file not found" error messages were enhanced to identify the missing file name and the full path, and were also updated to conform to an identical text and results, to Error Message #2583. The uniform error message number caused unexpected warnings for applications checking for prior error numbers. The prior error numbers were reverted.
18. 11/18/2019 Commands - The FORMS command does not bring up the Form Designer dialog just like when launching the Form Designer from the R:BASE Main Toolbar. REPORTS command still brings up the Report Designer dialog.
19. 11/20/2019 Forms - When using an Enhanced DB Grid with the "skip read-only columns" property checked, [Enter]ing through the form has the focus still landing on the read-only columns. The [Tab] key works as expected.
20. 11/22/2019 Trace Debugger - If there are any number of spaces, CHAR(32), following a command block in an ASCII application file, the debugger will not start properly. The program starts, but the debugger does not.
21. 11/22/2019 Reports - When printing a report containing a large JPG image where the "Transparent" setting is enabled, the print process takes a long time to complete. With "Transparent" unchecked the report prints almost immediately.  
  
A global property was added to switch to "classic rendering" of report transparency. When ON, the metafile approach to generate transparent images will be disabled.  
  
PROPERTY APPLICATION CLASSIC\_REPORT\_TRANSPARENCY ON
22. 12/09/2019 File Gateway - When importing a new table and the altering the field settings, BIGNUM is missing from the list of available data types.
23. 12/10/2019 Form/Report Designer - If a table is deleted after a Custom Table Relationship link is defined, the Custom Table Relationships cannot be opened.
24. 12/11/2019 Forms - When selecting to convert a Tab Control to an Enhanced Tab Control, where many objects are listed on the tab page, the form contents disappear.
25. 12/13/2019 File Gateway - I am using GATEWAY to import two columns, a date and time and a temperature. When I try to import the temperature data as a REAL number into a column, I only get to row 17 and I am told that the Column must be a valid REAL and the import stops. If I import the data as TEXT and then use the FLOAT function to convert it there are no errors. However, I cannot see why the data is invalid.
26. 12/16/2019 Data Designer - When adding foreign keys to a table with LOB data, where the data does not allow a valid primary key/foreign key relationship and the definition is halted, the database becomes corrupt.
27. 12/17/2019 Data Designer - When an unsuccessful foreign key creation is made, where the data does not allow a valid primary key/foreign key relationship and the definition is halted, the expected constraint error is displayed with the "Unable to create/modify table" error. However, when you click OK here, the "Table Saved Successfully!" message incorrectly appears.



28. 12/20/2019 File Gateway - When importing a large .xlsx file (73,000+ records), the moving gif spins but no data import takes place.
29. 01/06/2020 Reports/Labels - After altering the "Use Border" setting for a report label, the report does not become dirty.
30. 01/09/2020 Settings - When using FEEDBACK with a database using long table names, a portion of the text is truncated.
31. 01/28/2020 Commands - When performing a IF/ENDIF comparison with WIDETEXT values, the expected result is not returned.
32. 01/29/2020 Forms - When running a MDI form, secondary forms opened from the initial form appear behind the initial form. When launching the GETDATE calendar function, the dialog also appears behind the initial form.
33. 01/30/2020 Stored Procedures - When running an EEP that is a stored procedure (stored in the database with the PUT command), a "File Not Found" error message is displayed.
34. 02/06/2020 Database Explorer - When renaming a form, report, or label, which contains an apostrophe in the comment, an error is displayed and the rename fails.
35. 02/11/2020 Forms - The RBTI\_FORM\_COLNAME system variable is not filled with the column name when the DB Date and Time Edit control is used in a form.
36. 02/14/2020 Trace Debugger - When opening the Call Tree after one or more Trace instances the initial startup file is listed several times.
37. 02/19/2020 Database Explorer - When running the "Find in Files" utility, the prior search results are not cleared when subsequent searches are being performed, which is misleading for the follow-up searches.
38. 02/19/2020 Trace Debugger - With a text variable defined, the ability to modify the variable value is limited to 21 or so characters. After adding intended characters, you must press OK, and then return to the "Modify Variable Value" option, where another 21 or so characters can be entered, and then repeat.
39. 02/19/2020 Forms - The DB Date And Time Edit control's "On DateTime Change" EEP does not fire when the object is assigned to a slave table on a multi-table form.
40. 02/28/2020 WHERE Builder - When pressing buttons for operators and keywords, the Windows clipboard is cleared. This behavior makes it difficult to build WHERE Clauses from text that was captured previously. Please allow the Windows clipboard contents to be retained after the operators and keywords buttons are clicked.
41. 03/02/2020 Report/Label Designer - When using the Preview WHERE Clause in the Report Designer, if a value is entered in the dialog, "Smith" for example, and then the WHERE Builder button is selected, the WHERE Builder displays with Smith as the table alias name. The column list is now blank.
42. 03/05/2020 Commands - Using "SET LOCK TableName ON" does not lock the table.
43. 03/06/2020 Functions - When checking a GUID variable to be NULL, the IFNULL function does not allow the comparison.
44. 03/06/2020 Commands - When using LIST INDEX IndexName command, the formatting is not lined up for multi-column indexes.
45. 03/09/2020 Functions - When a lock is applied to a table with no rows, the (CVAL("TABLELOCKS")) function returns a NULL value rather than the table name.

46. 03/09/2020 Database Explorer - The expected lock image/icon is not applied to a table when a lock is manually applied with the SET LOCK command. The Database Explorer must be refreshed to see the lock.