DB-Rider Reference Manual

field-actions.r

field-actions.r script are found at the following location:

<DB-Rider install path>/db-overlays/<database-name>/<tablename>/field-actions.r
Each table has a field-actions.r script to affect how data entry happens within the Edit Record window.
You can edit the field-actions.r file by selecting the menu item: Edit/Field Actions
either in the Query window or Edit Record window.

This is a synopsis of what takes place within the field-actions.r file.

All of the code blocks described below take place ONLY in the Edit Record window they will NOT be run when any of these equivalent actions take place in the Query Window. This is designed this way to cleanly separate the two environments.

```
on-new-record [
              ; code block run when the 'New Record-F6' key is pressed
               ; useful for inserting default or custom values into a record before the user
               ; has to enter any data
on-display-record [
               ; code block run once record is displayed
               ; Good place to put common functions used by any of the other code blocks below
               ; or if you have longer scripts that you want to use
               ; you can put them in the "user-scripts" folder. Use the menu item: 'Edit/user-scripts'
on-duplicate-record [
               source-record-actions [
                           ; code block run against the original SOURCE record when a record is duplicated
               target-record-actions [
                           ; code block run against the NEW TARGET record when a record is duplicated
 "<field-name-in-quotes>" [
                                                                                                     ; FIELD ACTIONS
                                                                                                     ; all actions particular to the named field % \left( 1\right) =\left( 1\right) +\left( 1\right)
                                                                                                     ; below lists all of the available action events that can be customized.
               assist-button
                                                                          ; code attached to the "..." button for this field
                                                                          ; Some code is automatically generated here when there is a relationship defined
                                                                          ; in the "relationships.r" file and if the datatype of the field is
                                                                          ; either a 'date', 'enum' or 'set'
                                                         ; code to run when the Enter key or tab key is pressed
                                                        ; in the typewriter days the enter key was referred to as the "RETURN" key
                                                        ; this code will also run if you move the cursor with the mouse and
                                                         ; click somewhere away from the field.
                                                                                                               ; code run when "New Target Record-F5" is pressed
               on-new-target-record [
                             source-record-actions []; code block run against the original SOURCE record
                              target-record-actions [] ; code block run against the TARGET record
```

Useful functions available withing the field actions environment.

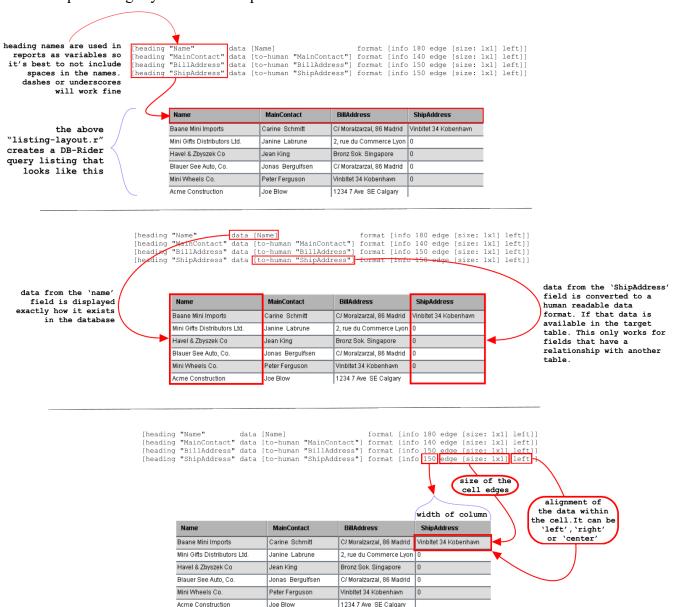
- set-field
- get-field
- get-field/human

- set-focus "<the-field-name>"
- set-focus next-field
- request-db-list
- request-date-for-field
- request-enum-for-field
- request-set-for-field

Note: When attempting to do a 'set-field' on a date field make sure you convert your date with 'to-YYYY-MM-DD' function. IE: set-field "orderDate" to-YYYY-MM-DD now/date

listing-layout.r

The listing-layout format is used to customize query output listing as well as report output listings. The example 'listing-layout.r' file is explained.



The data block in the layout can use the 'format' function to modify output as well, like this:

```
[heading "Price" data [ format to-decimal Price #0.2.24 ] format [info 80 edge [size: 1x1] left]]
```

Which will display the 'price' field with commas in the thousands field and prefix the data with the dollar (\$) symbol.

The 'format' function (provided by Eric Long) is used throughout DB-Rider to modify values for the listing layout during queries and for report creation. Type "help format" into the 'Rebol Command' field to see it's use.

Data entry features in the 'Edit Record' window

Date Handling

Any manual date entry fields will automatically do the following

- 1.) Convert the date into a format that is acceptable to the database. IE. 14-Aug-2011 is converted to 2011-08-04 or YYYY-MM-DD format
- 2.) Automatic date entry format conversions

```
Data Entered Corrected Date

a) "15 3 2011" => "2011-03-15"
b) "15 3 11" => "2011-03-15"
c) "3 15" => "<a href="current year">current year</a>-03-15"
d) "15" => if 15th is before the current day then "<a href="current year">-<a href="current-month">-15" => if 15th is after the current day then "<a href="current year">-<a href="current-month">-15" => "<a href="current year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year">-<a href="year
```

3.) All of the above "shortcuts" apply to DateTime fields and TimeStamp fields as well.

```
The last number in any input is considered the time portion
```

```
IE. 5 7 11 => 2017-05-07 11:00
" " (space) => <current-date> <current-time>
```

DataValidation

Data is validated as soon as you enter the data into a field for the following datatypes:

- tinyint
- bool
- smallint
- mediumint

- int
- float
- bigint
- double
- decimal
- date
- datetime
- timestamp
- varchar
- char
- tinytext
- text
- mediumtext
- longtext
- time
- year
- enum
- set

There is currently NO data validation for the following datatypes:

- binary
- tinybinary
- varbinary
- blob
- longblob
- tinyblob
- mediumblob
- bit

Data Entry Assistance

To assist with making valid data entry, requesters are automatically built for the following data types:

- Any field in a relationship with another table
- Dates
- Enum
- Sets

Edit Record Window shortcut keys

Ctrl + 1 = Next record

Ctrl + k = Previous record

These are designed to aid in data entry it is equivalent of pressing enter on the current field and then pressing the ">" or "<" buttons.