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Function: Append in NITRO Workflows and Custom Actions

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* **Applies to**: NITRO Workflows and Custom Actions (Online)

For complete list of functions, please refer to this [article](https://www.crowcanyon.help/article/comprehensive-list-of-functions-in-nitro-studio/).

Introduction

* This function can be used to append value to a collection. For example: Add a user to an existing collection of users in a multi-user column. Supported column types to add value are multi-user, multi-lookup and multi-choice. Appended values can also be saved in text type columns.

Syntax:

* With Expression Builder Ex:

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* **To use ‘Append’ function without expression builder use below syntax:**
* $**append(lookup/lookupid/lookupvalue/user/userid/uservalue/multichoice/string,separator,[placeholder],[placeholder])**

Parameters to be defined in above function:

Param1- Lookup/LookupId/LookupValue/User/UserId/UserValue/MultiChoice/String:

|  |  |  |
| --- | --- | --- |
| S. No. | Parameter Value | Description |
| 1 | Lookup | Target column is of type multi-lookup. |
| 2 | LookupId | Target column is of type multi-lookup. Or target column is of type text and only lookup item Ids are required. |
| 3 | LookupValue | Target column is of type text and only lookup item display values are required. |
| 4 | User | Target column is of type multi-user. |
| 5 | UserId | Target column is of type multi-user. Or target column is of type text and only user Ids are required. |
| 6 | UserValue | Target column is of type text and only user display values (name of user) are required. |
| 7 | MultiChoice | Target column is of type multi-choice. |
| 8 | String | Target column is of type text. Or target is a variable. |

Param2- separator:

* For ‘String’ type output or when target is a text type column or a variable, specify the separator for the values. Multiple values separated by specified character can be used in scenarios where such a list needs to be passed to external systems via Invoke Web API action. Or data must be converted to specified format and saved to text type columns.

Param3- [Placeholder]:

* Specify column placeholder, fixed value, or variable for input values.

Param4- [Placeholder]:

* Specify column placeholder, fixed value, or variable for input values.
* Click ‘+’ (available in right side of Append Function in EB) to add more parameter in the function. These parameters can be a column placeholder, fixed value, or variable for input values.
* Please refer to below table for scenarios and corresponding parameters for the append function.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Scenario Description** | **Target Column Type / Variable** | **Param 1** | **Param 2:** **Separator** | **Param 3: [Placeholder]/Fixed Value/Variable** | **Param 4: [Placeholder]/Fixed Value/Variable** | **More Parameters** | **Output Example** |
| Add values from a lookup column to a multi-lookup column. | Multi-Lookup Column to which value needs to be added   Ex: [LookupMultiCategory] | Lookup | Not Required | Same as target column: [LookupMultiCategory]   Value before append: Calendar;Email | Column whose value need to be added. Value in this column will not change.   Column: [LookupSingleCategory]   Value: Finance | NA | Value in target column after append: Calendar;Email;Finance |
| Get a comma separated list of lookup column Id values from two or more lookup columns. | Variable/ Text columns to which value needs to be added   Ex: [TextLookupId] | LookupId | , | Same as target column: [TextLookupId]   Value before append:  Ex: 6 | Column whose value need to be added. Value in this column will not change.   Column: [LookupMultiCategory]   Value: Calendar;Email | Column whose value need to be added. Value in this column will not change.   Column: [SingleConverted]   Value: 1 | Value in target column after append: 6,4,5,1 |
| Get a semicolon separated list of lookup column display values from two or more lookup columns. | Variable/Text Column to which value needs to be added   Ex: [TextLookupValue] | LookupValue | ; | Same as target column: [TextLookupValue]   Value before append: Ex: Desktop | Column whose value need to be added. Value in this column will not change.   Column: [LookupMultiCategory]   Value: Calendar;Email | Column whose value need to be added. Value in this column will not change.   Column: [SingleConverted]   Value: Hardware Request | Value in target column after append: Desktop;Calendar;Email;Hardware Request |
| Add values from a user column to a multi-user column. | Multi-User Column to which value needs to be added   Ex: [UserAndGroupMulti] | User | Not Required | Same as target column: [UserAndGroupMulti]   Value before append: Ex: TemplateTest3 Members; Maria Clark | Column whose value need to be added. Value in this column will not change.   Column: [UserAndGroupSingle]   Value: Joe Bloggs | NA | Value in target column after append: TemplateTest3 Members;Maria Clark; Joe Bloggs |
| Get a semicolon separated list of user Id values from user column and fixed value. | Variable/Text Column to which value needs to be added   Ex: [TextUserId] | UserId | ; | Same as target column: [TextUserId]   Value before append: Ex: 129 | Column whose value need to be added. Value in this column will not change.   Column: [UserAndGroupMulti]   Value: TemplateTest3 Members; Maria Clark | Fixed Value Ex: 26 | Value in target column after append: 129;140;153;26 |
| Get a semicolon separated list of user display values from user column and fixed value. | Variable/Text Column to which value needs to be added   Ex: [TextUserValue] | UserValue | ; | Same as target column: [TestUserValue]   Value before append: Ex: Scott Restivo | Column whose value need to be added. Value in this column will not change.   Column: [UserAndGroupMulti]   Value: TemplateTest3 Members; Maria Clark | Fixed Value Ex: James Restivo | Value in target column after append: Scott Restivo; TemplateText3 Members;Maria Clark;James Restivo |
| Add values from a choice column and variable to a multi-choice column. | Multi-Choice Column to which value needs to be added   Ex: [DepartmentMulti] | MultiChoice | Not Required | Same as target column: [DepartmentMulti]   Value before append: Ex: Sales,HR | Column whose value need to be added. Value in this column will not change.   Column: [DepartmentSingle]   Value: Marketing | Variable: [varDepartment] Ex: Electronics | Value in target column after append: Sales;HR;Marketing;Electronics |
| Get a comma separated list of choice column values from two or more choice column | Variable/Text Column to which value needs to be added   Ex: [TextString] | String | , | Same as target column: [TextString]   Value before append: Ex: Finance | Column whose value need to be added. Value in this column will not change.   Column:[DepartmentMulti]   Value: Sales,HR | Column whose value need to be added. Value in this column will not change.   Column: [DepartmentSingle]   Value: Marketing | Value in target column after append: Finance,Sales,HR,Marketing |
| Other supported Scenarios | | | | | | | |
| Add values from a user column and fixed value to a multi-lookup column. | Multi-User Column to which value needs to be added   Ex: [MultiUserWithUserId] | UserId | ;#;# | Same as target column: [MultiUserWithUserId]   Value before append: Ex: TemplateTest3 Members; Maria Clark | Column whose value need to be added. Value in this column will not change.   Column: [UserAndGroupSingle]   Value: Joe Bloggs | Fixed Value: 70(Id of Demo Site Members) | Value in target column after append: TemplateTest3Members; Maria Clark; Joe Bloggs; Demo Site Members |
| Add values from a lookup column and fixed value to a multi-lookup column. | Multi-lookup column to which value needs to be added   Ex: [MultiLookupWithLookupId] | LookupId | ;#;# (For getting multiple Lookup id use this separtor) | Same as target column: [MultiLookupWithLookupId]   Value before append: Ex: Calendar;Email | Column whose value need to be added. Value in this column will not change.   Column: [LookupSingleCategory] Value: Finance | Fixed Value: 6(Id of Printer) | Value in target column after append: Calendar;Email;Finance;Printer |

* Note:
* In NITRO Workflows: For users, to append a hard-coded user, specify one of the below user attributes:
* DisplayName
* Id
* Email
* In Custom Actions: For users, to append a hard-coded user, specify the ‘ID’ attribute of the user or SP Group or AD Group.
* **Example of Append Function:**
* In Custom Actions, Configure Append Function in Column Mappings of Update Item Action.
* Configure Update item custom action

Timeline

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* Define Variables

Table

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* Configure ‘Append’ function for different types of columns as shown below:

Text

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* Configure Column Mapping for ‘TextLookupValue’ column using Expression Builder as shown below:

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* Similarly, configure other columns mappings using Expression Builder.