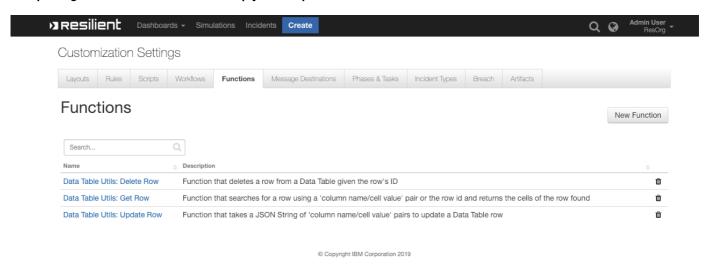
IBM Resilient - Data Table Helper Functions

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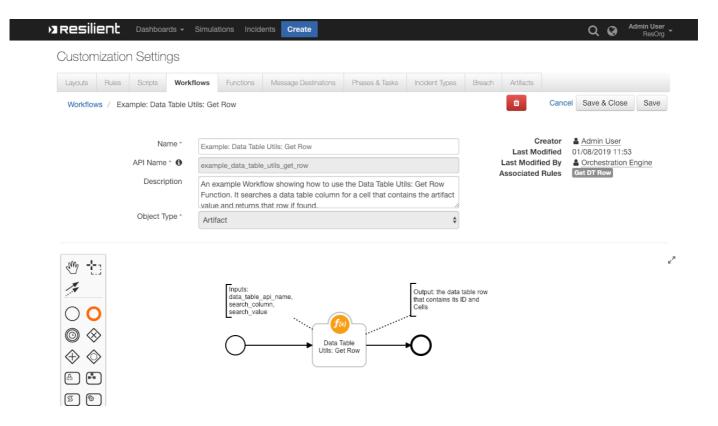
This package contains 3 functions that help you manipulate IBM Resilient Data Tables



The 3 functions allow you to GET, UPDATE and DELETE a row in a Data Table

Function - Get Row:

Gets a row in a Data Table by the row's ID or by searching the column name and cell value



Inputs:

Name	Type	Required	Example	Info
incident_id	Number	Yes	2095	ID of the current Incident
dt_utils_datatable_api_name	String	Yes	"dt_utils_test_data_table"	API name of the Data Table to search
dt_utils_row_id	Number	No	5	ID of the Row to get
dt_utils_search_column	String	No	"dt_col_name"	API name of the column to search
dt_utils_search_value	String	No	"Mary Murphy"	Cell value to search for

Output:

```
results = {
    'inputs': {
        'incident_id': 2095,
        'dt_utils_row_id': None,
        'dt_utils_search_column': 'dt_col_name',
        'dt_utils_search_value': 'Mary Murphy',
        'dt_utils_datatable_api_name': 'dt_utils_test_data_table'
    },
    'success': True,
    'row': {
        'type_id': 1000,
        'cells': {
            'dt_col_name': {
                'row_id': 1,
                'id': 'dt_col_name',
                'value': 'Mary Murphy'
            'dt_col_status': {
                'row_id': 1,
                'id': 'dt_col_status',
                'value': 'Incomplete'
```

```
'dt_col_time': {
                 'row_id': 1,
                'id': 'dt_col_time',
                 'value': '10:45'
            },
            'dt col id': {
                 'row_id': 1,
                 'id': 'dt_col_id',
                 'value': '635'
            }
        },
        'actions': [],
        'inc_owner': 'admin@res.com',
        'version': 2,
        'table_name': 'Test Data Table',
        'inc_name': 'Test DT Utils',
        'inc_id': 2095,
        'id': 1
    }
}
```

Pre-Process Script:

This example uses the Artifact Value as the value to search the data table for

```
# The ID of this incident
inputs.incident_id = incident.id

# The api name of the Data Table to update
inputs.dt_utils_datatable_api_name = "dt_utils_test_data_table"

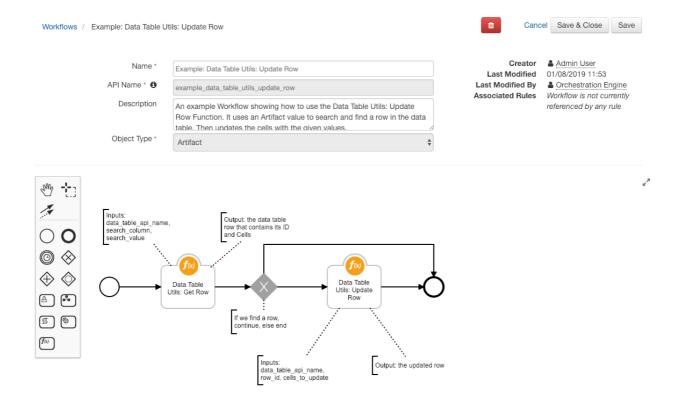
# The column api name to search for
inputs.dt_utils_search_column = "dt_col_name"

# The cell value to search for
inputs.dt_utils_search_value = artifact.value

## Alternatively you can get the row by its ID by defining this input:
# inputs.dt_utils_row_id = 3
```

Function - Update Row:

Uses a JSON String of 'column name/cell value' pairs to update a Data Table row



Inputs:

Name	Туре	Required	Example	Info
incident_id	Number	Yes	2095	ID of the current Incident
dt_utils_datatable_api_name	String	Yes	"dt_utils_test_data_table"	API name of the Data Table to search
dt_utils_row_id	Number	Yes	5	ID of the Row to update
<pre>dt_utils_cells_to_update</pre>	JSON String	Yes	'{"dt_col_status":"Done","dt_col_time":"Just Now"}'	A JSON String of column name and cell value pairs to update

Output:

```
results = {
    'inputs': {
```

```
'incident_id': 2095,
        'dt utils row id': 1,
        'dt_utils_cells_to_update': {
             'dt_col_status': 'Done',
             'dt col time': 'Just Now'
        'dt utils datatable api name': 'dt utils test data table'
    },
    'success': True,
    'row': {
        'type_id': 1000,
        'cells': {
            'dt_col_name': {
                 'row_id': 1,
                 'id': 'dt_col_name',
                 'value': 'Mary Murphy'
             'dt_col_status': {
                 'row_id': 1,
                 'id': 'dt_col_status',
                 'value': 'Done'
            },
             'dt_col_time': {
                 'row_id': 1,
                 'id': 'dt_col_time',
                'value': 'Just Now'
            },
             'dt_col_id': {
                 'row_id': 1,
                 'id': 'dt_col_id',
                 'value': '635'
            }
        },
        'actions': [],
        'inc_owner': 'admin@res.com',
        'version': 3,
        'table_name': 'Test Data Table',
        'inc_name': 'Test DT Utils',
        'inc id': 2095,
        'id': 1
    }
}
```

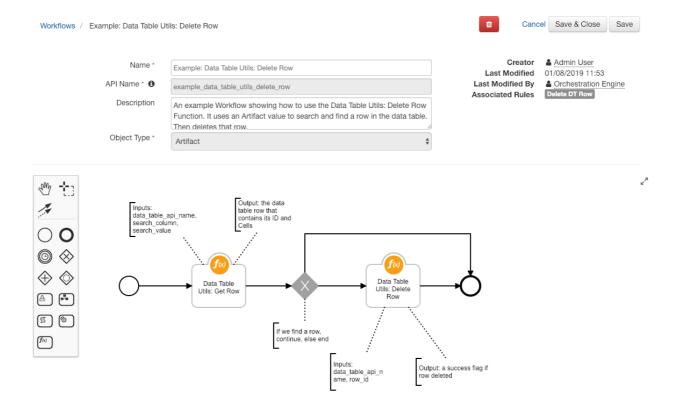
Pre-Process Script:

In this example we make use of the **dict_to_json_str** function to allow us to easily form a JSON String to pass column name and cell value pairs to the function in order to update the Data Table

```
value = d[entry]
    if value is None:
      value = False
    if isinstance(value, list):
      helper.fail('dict_to_json_str does not support Python Lists')
    if isinstance(value, basestring):
      value = value.replace(u'"', u'\\"')
      entries.append(json_entry_str.format(key, value))
    elif isinstance(value, bool):
      value = 'true' if value == True else 'false'
      entries.append(json_entry.format(key, value))
    elif isinstance(value, dict):
      entries.append(json_entry.format(key, dict_to_json_str(value)))
      entries.append(json entry.format(key, value))
  return '{0} {1} {2}'.format('{', ','.join(entries), '}')
######################
### Define Inputs ###
######################
# The ID of this incident
inputs.incident_id = incident.id
# The api name of the Data Table to update [here it is taken from previous Get Row Function]
inputs.dt_utils_datatable_api_name =
workflow.properties.row_to_update.inputs.dt_utils_datatable_api_name
# The ID of the row to update [again, taken from previous Get Row Function]
inputs.dt_utils_row_id = workflow.properties.row_to_update.row["id"]
# The column api names and the value to update the cell to
inputs.dt_utils_cells_to_update = dict_to_json_str({
  "dt_col_time": "Just Now",
  "dt_col_status": "Done"
})
```

Function - Delete Row:

Deletes a row from a Data Table given the row's ID



Inputs:

Name	Туре	Required	Example	Info
incident_id	Number	Yes	2095	ID of the current Incident
dt_utils_datatable_api_name	String	Yes	"dt_utils_test_data_table"	API name of the Data Table to search
dt_utils_row_id	Number	Yes	5	ID of the Row to delete

Output:

```
results = {
    'inputs': {
        'incident_id': 2095,
        'dt_utils_row_id': 2,
        'dt_utils_datatable_api_name': 'dt_utils_test_data_table'
    },
    'success': True,
    'row': {
        'message': None,
        'hints': [],
        'success': True,
        'title': None
    }
}
```

Pre-Process Script:

```
# The ID of this incident
inputs.incident_id = incident.id

# The api name of the Data Table [here it is taken from previous Get Row Function]
inputs.dt_utils_datatable_api_name =
workflow.properties.row_to_delete.inputs.dt_utils_datatable_api_name
```

The ID of the row to delete [again, taken from previous Get Row Function]
inputs.dt_utils_row_id = workflow.properties.row_to_delete.row["id"]

Rules

Rule Name	Object Type	Workflow Triggered
Get DT Row	Artifact	Example: Data Table Utils: Get Row
Update DT Row	Artifact	Example: Data Table Utils: Update Row
Delete DT Row	Artifact	Example: Data Table Utils: Delete Row

Data table

Data Table Utils: Test Data Table



Displaying 1 - 1 of 1

API Name:

dt_utils_test_data_table

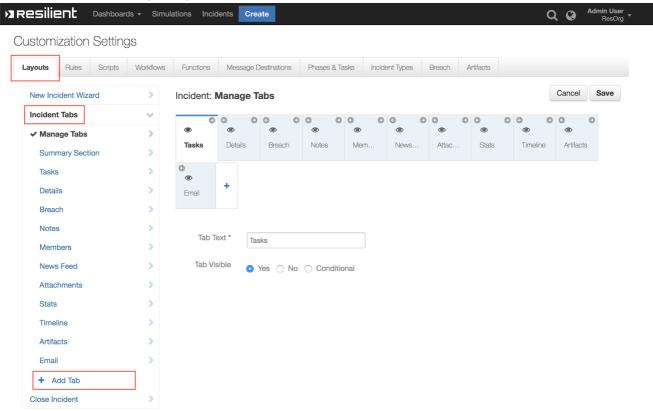
Columns:

Column Name	API Access Name	Туре
ID	dt_col_id	Text
Time	dt_col_time	Text
Name	dt_col_name	Text
Status	dt_col_status	Text

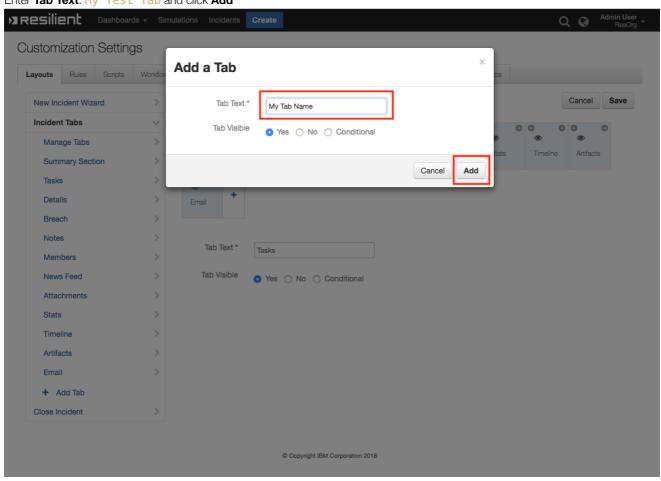
Display the Datatable in an Incident

• In order to **display** the Test Data Table in your Incident, you must **modify your Layout Settings**

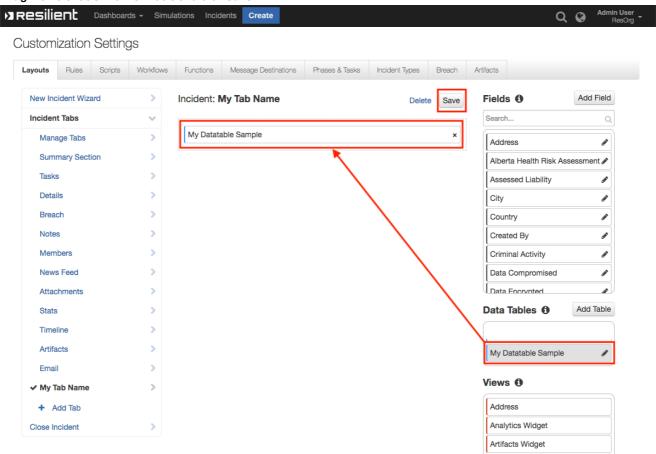
1. Go to Customization Settings > Layouts > Incident Tabs > + Add Tab



2. Enter Tab Text: My Test Tab and click Add



3. Drag the Data table into the middle and click Save



4. Create a new Incident and you will now see the My Test Tab with the Test Data Table