

Nested Arrays

Case 1 - folio_inventory.instance__ table:

Testing these CREATE DATA MAPPING commands working on the `folio_inventory.instance__` table:

```
CREATE DATA MAPPING FOR json
FROM TABLE folio_inventory.instance__ COLUMN jsonb PATH '$'
TO 't';
```

```
CREATE DATA MAPPING FOR json
FROM TABLE folio_inventory.instance__ COLUMN jsonb PATH '$.metadata'
TO 'metadata';
```

```
CREATE DATA MAPPING FOR json
FROM TABLE folio_inventory.instance__ COLUMN jsonb PATH '$.tags'
TO 'tags';
```

```
CREATE DATA MAPPING FOR json
FROM TABLE folio_inventory.instance__ COLUMN jsonb PATH '$.tags.tagList'
TO 'taglist';
```

Added 3 tags to this instance 'mdg-test', 'array-test', and 'taglist-test' via the FOLIO UI - AFTER the CREATE DATA MAPPING Commands were implemented

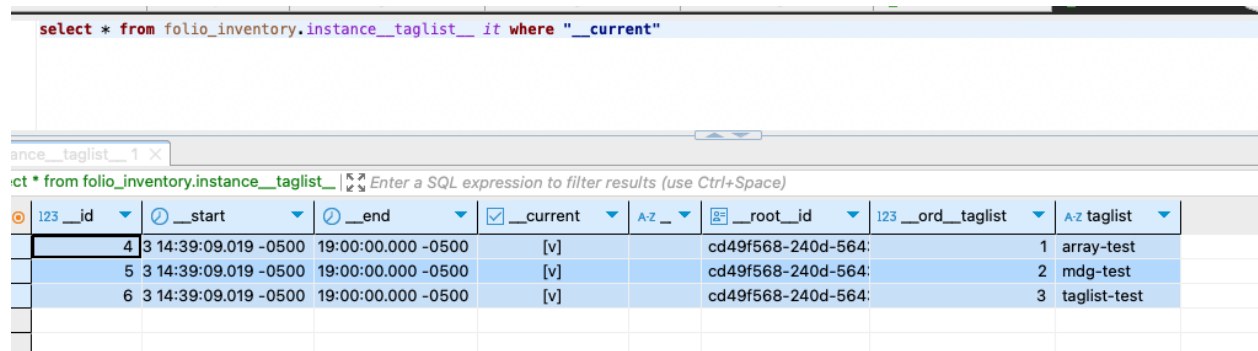
The data in the jsonb column in the `folio_inventory.instance__` table now looks like this:

```
{
  "id": "cd49f568-240d-5643-ac6b-c7968783d1ad",
  "hrid": "b9222160",
  "tags": {
    "tagList": [
      "array-test",
      "mdg-test",
      "taglist-test"
    ]
  },
  "notes": [
    {
      "note": "Record is based on online resource; title from PDF title page (ProQuest, last viewed Jan. 2015). Reuse except for individual research requires license from ProQuest, LLC",
      "staffOnly": false,
      "instanceNoteTypeId": "66ea8f28-d5da-426a-a7c9-739a5d676347"
    }
  ],
  "title": "[Mission Indian Reservation withdrawal revocation] [electronic resource]",
  "series": [],
  "source": "MARC",
  "_version": 7,
  "editions": [],
  "metadata": {
    "createdDate": "2023-06-17T14:04:15.626Z",
    "updatedDate":

```

```
"2024-12-03T19:39:09.016Z", "createdByUserId":
"c83f82f7-1ca3-5512-85d6-e3cb76be16eb", "updatedByUserId":
"c83f82f7-1ca3-5512-85d6-e3cb76be16eb"), "statusId":
"52a2ff34-2a12-420d-8539-21aa8d3cf5d8", "subjects": [{"value": "Indians of North
America--Missions"}, {"value": "Indian reservations"}], "languages": ["eng"], "indexTitle":
"[Mission Indian Reservation withdrawal revocation]", "identifiers": [{"value": "eo015140",
"identifierTypeId": "7e591197-f335-4afb-bc6d-a6d76ca3bace"}], "publication": [{"place":
"[Bethesda, Md.]", "publisher": "[ProQuest]", "dateOfPublication": "1883"}], "contributors":
[], "catalogedDate": "2019-06-11", "staffSuppress": false, "instanceTypeId":
"6312d172-f0cf-40f6-b27d-9fa8feaf332f", "previouslyHeld": false, "classifications": [],
"instanceFormats": [], "electronicAccess": [{"uri":
"https://colorado.idm.oclc.org/login?url=http://congressional.proquest.com/congressi
onal/docview/t66.d72.1883-33-2", "publicNote": "Full Text (via ProQuest)",
"relationshipId": "f5d0068e-6272-458e-8a81-b85e7b9a14aa"}], "holdingsRecords2": [],
"modeOfIssuanceId": "9d18a02f-5897-4c31-9106-c9abb5c7ae8b", "publicationRange": [],
"alternativeTitles": [], "discoverySuppress": false, "instanceFormatIds":
["f5e8210f-7640-459b-a71f-552567f92369"], "publicationPeriod": {"start": 1883},
"statusUpdatedDate": "2023-06-17T14:04:15.356+0000", "statisticalCodeIds":
["b5968c9e-cddc-4576-99e3-8e60aed8b0dd"], "administrativeNotes": [],
"physicalDescriptions": ["1 online resource (3 p.), digital, PDF file."],
"publicationFrequency": [], "natureOfContentTermIds": []}
```

And there are now 3 rows in the (new) `folio_inventory.instance__taglist__` table:



The screenshot shows a database query interface. At the top, a SQL query is entered: `select * from folio_inventory.instance__taglist__ it where "__current"`. Below the query, a table displays the results. The table has columns: `id`, `__start`, `__end`, `__current`, `__root_id`, `ord__taglist`, and `taglist`. There are three rows of data, all with `__current` set to `[v]`.

id	__start	__end	__current	__root_id	ord__taglist	taglist
4	3 14:39:09.019 -0500	19:00:00.000 -0500	[v]	cd49f568-240d-564:	1	array-test
5	3 14:39:09.019 -0500	19:00:00.000 -0500	[v]	cd49f568-240d-564:	2	mdg-test
6	3 14:39:09.019 -0500	19:00:00.000 -0500	[v]	cd49f568-240d-564:	3	taglist-test

Case 2 - folio_inventory.item__ table:

Testing these CREATE DATA MAPPING commands working on the `folio_inventory.item__` table.:

Added 2 tags to this item 'mdg-test', 'taglist-test' BEFORE the CREATE DATA MAPPING commands were implemented

taglist array shows up in `folio_inventory.item__` in the jsonb column

```

{"id": "98843a7b-5d87-5432-8fdf-392939fbf3ee", "hrid": "i1263824",

"tags":
{"tagList":
  ["mdg-test", "taglist-test"]},

"notes": [], "status": {"date": "2024-09-17T18:17:11.713Z", "name": "Available"}, "volume": "",
"barcode": "U183002891994", "_version": 7, "metadata": {"createdDate":
"2023-06-17T19:10:59.056Z", "updatedAt": "2024-12-05T13:08:56.017Z",
"createdByUserId": "c83f82f7-1ca3-5512-85d6-e3cb76be16eb", "updatedAt":
"2024-12-05T13:08:56.017Z", "formerIds": [], "copyNumber": "1",
"yearCaption": [], "materialTypeId": "1a54b431-2e4f-452d-9cae-9cee66c9a892",
"circulationNotes": [], "electronicAccess": [], "holdingsRecordId":
"3e1f8d5d-5543-5636-ab8e-7447d34417d9", "discoverySuppress": false,
"statisticalCodeIds": [], "administrativeNotes": [], "effectiveLocationId":
"ccda5b25-9693-4e70-8fad-b02c7771a6ed", "permanentLoanTypeId":
"2b94c631-fca9-4892-a730-03ee529ffe27", "effectiveShelvingOrder": "TL 3551.5 J64 11",
"effectiveCallNumberComponents": {"typeId":
"95467209-6d7b-468b-94df-0f5d7ad2747d", "callNumber": "TL551.5 .J64"}}

```

Then we implemented the following CREATE DATA MAPPING statements:

```

CREATE DATA MAPPING FOR json FROM TABLE folio_inventory.item__
COLUMN jsonb PATH '$' TO 't';
CREATE DATA MAPPING FOR json FROM TABLE folio_inventory.item__
COLUMN jsonb PATH '$.tags' TO 'tags';

```

Then added 2 tags - `array-test` and `new-tag-mdg` through the FOLIO UI

Those values landed in the `folio_inventory.item__` in the jsonb column:

```

{"id": "98843a7b-5d87-5432-8fdf-392939fbf3ee", "hrid": "i1263824",

"tags":

{"tagList":
  ["array-test",
  "mdg-test",
  "new-tag-mdg",
  "taglist-test"]},

```

```
"notes": [], "status": {"date": "2024-09-17T18:17:11.713Z", "name": "Available"}, "volume": "",  
"barcode": "U183002891994", "_version": 7, "metadata": {"createdDate":  
"2023-06-17T19:10:59.056Z", "updatedAt": "2024-12-05T13:08:56.017Z",  
"createdByUserId": "c83f82f7-1ca3-5512-85d6-e3cb76be16eb", "updatedByUserId":  
"c83f82f7-1ca3-5512-85d6-e3cb76be16eb"}, "formerIds": [], "copyNumber": "1",  
"yearCaption": [], "materialTypeId": "1a54b431-2e4f-452d-9cae-9cee66c9a892",  
"circulationNotes": [], "electronicAccess": [], "holdingsRecordId":  
"3e1f8d5d-5543-5636-ab8e-7447d34417d9", "discoverySuppress": false,  
"statisticalCodeIds": [], "administrativeNotes": [], "effectiveLocationId":  
"ccda5b25-9693-4e70-8fad-b02c7771a6ed", "permanentLoanTypeId":  
"2b94c631-fca9-4892-a730-03ee529ffe27", "effectiveShelvingOrder": "TL 3551.5 J64 11",  
"effectiveCallNumberComponents": {"typeId":  
"95467209-6d7b-468b-94df-0f5d7ad2747d", "callNumber": "TL551.5 J64"}}}
```

But no other tables were created or updated. Investigating what the impact of the CREATE DATA MAPPING FOR json FROM TABLE folio_inventory.item__ COLUMN jsonb PATH '\$.tags' TO 'tags' ; command was, if any.