[CosmosDB] The data type Newtonsoft.Json.Linq.Array is not supported Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

| 201002 - [Cosmo | osDB] The data type | | |
|--|-------------------------------|-------------|----------------------|
| Newtonsoft. Json. Ling. Array is not supported | | ASC Onboard | DiagnosticsConnector |
| INEW LOTISOTE. JSOT | i.Ling.Array is not supported | | |
| Friday, February 9, 2018 | | | |
| 3:09 PM | | | |

| SME | | | | | | | |
|---------------------|--|---|----------|----------|--|--|--|
| Symptoms | Copy or preview from | n CosmosDR fail | with the | followin | ng error: | | |
| - / p. (01113 | Copy or preview from CosmosDB fail with the following error: The data type Newtonsoft.Json.Linq.Array is not supported | | | | | | |
| Cause | decide 2. When | copy from CosmosDB to tabular destination, yes JArray is not supported, you need to whether to make it as a string or flatten it using CosmosDB query copy from CosmosDB to Json or CosmosDB, we support copy as is, but if customer structure or column mapping, (which means to treat it as tabular), this is not ted | | | | | |
| Resolution | if customer wants to copy as is from CosmosDB to CosmosDB or Json binary, please sugge customer not to provide structure in both source/sink dataset. (Do not "Import schema" from Madrid, check "Copy as is" box in Copy Wizard) If customer wants to copy to tabular destination as a string, please suggest customer to create a UDF in the collection and call the UDF in the query If customer wants to flatten more than 1 arrays, please suggest customer to us a join query in CosmosDB If customer wants to flatten 1 array in json, please suggest customer to use schema mapping and define collectionReference. https://docs.microsoft.com/en-us/azure/data-factory/copy-activity-schema-antype-mapping#alternative-schema-mapping | | | | | | |
| | 5. Below is an example for option #2 and #3: | | | | | | |
| | Example: { | | | | | | |
| | There are 2 scenarios: 1. Customer want to expand his array to multiple record like this (option #3): | | | | | | |
| | prope | | | pertyC | y to multiple record like this (option #3). | | |
| | test 1 | | x | pc. 1, 0 | | | |
| | test 1 | | у | | | | |
| | test 1 | 456 | х | | | | |
| | test 1 | 456 | У | | | | |
| | test 2 | 321 | w | | | | |
| | test 2 | 321 | v | | | | |
| | test 2 | 654 | w | | | | |
| | test 2 | 654 | V | | | | |
| | Solution: In this case, customer can use DocumentDB query with JOIN to achieve this: SELECT c.propertyA, array1 as propertyB, array2 as propertyC FROM c JOIN array1 in c.propertyB JOIN array2 in c.propertyC 2. Customer just want to store his array as a string to a single column, like this (optio #2): | | | | | | |
| | prope | ertyA property | rВ р | roperty | С | | |
| | Test : | [123, | | "x", " | | | |
| | Test 2 | 2 [321, | 654] [| "w", " | v"] | | |
| | Solution: In this case, customer can create a user defined function in their collection, and use this function in their query to achieve this. User define function: function ArrayToString (ts) { return JSON.stringify(ts); } Query: SELECT c.propertyA, udf.ArrayToString(c.propertyB) as propertyB, udf.ArrayToString(c.propertyC) as propertyC FROM c | | | | | | |
| | 1 | | | | | | |
| More Information | More sample for JOII { "id": "00000000-00 | | 0000000 | 0000000 | ייחיי | | |

```
"_self": "dbs/Zao3AA==/colls/Zao3AIMSTwI=/docs/Zao3AIMSTwISAAAAAAAAA==/",
                  "_etag": "\"020070f1-0000-0000-0000-5b316e8e0000\"",
                  "Actions": [
                   "data": "abc"
                   "data": "def"
                ],
                 "_attachments": "attachments/",
                 _
"_ts": 1529966222
               {\sf SELECT\ c.id,\ c.\_rid,\ c.\_etag,\ actionArray.data,\ c.\_attachments,\ c.\_ts\ FROM\ c\ JOIN\ actionArray\ in}
               Result:
                   "_rid": "VQJSAOp5gAIBAAAAAAAAA==",
"_self": "dbs/vQJSAA==/colls/vQJSAOp5gAI=/docs/vQJSAOp5gAIBAAAAAAAAA==/",
"_etag": "\"2400ff6c-0000-0000-5b4593510000\"",
                   "data": "abc",
                    "_attachments": "attachments/",
                   _ts": 1531286353
                 {
                   "_rid": "vQJSAOp5gAIBAAAAAAAAA==",
                   "_self": "dbs/vQJSAA==/colls/vQJSAOp5gAl=/docs/vQJSAOp5gAlBAAAAAAAAA==/",
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                   "data": "def",
                    "_attachments": "attachments/",
                    "_ts": 1531286353
               CosmosDB
Tags
```

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