Rilind Asllani
5/2/2021
U0931571
IS 6480-090 Spring 2021
Data Warehousing

Data Warehousing:
Lab 4
Data Integration Processes and Technologies

Submission Item(s)

API Documentation and JSON Fundamental

JSONPath Syntax

`$.observations[*].realtime_end`

☐ Output paths   Expand JSONPath expressions

Inputs

```
 1 ▾ {
 2       "realtime_start": "2013-08-14",
 3       "realtime_end": "2013-08-14",
 4       "observation_start": "1776-07-04",
 5       "observation_end": "9999-12-31",
 6       "units": "lin",
 7       "output_type": 1,
 8       "file_type": "json",
 9       "order_by": "observation_date",
10       "sort_order": "asc",
11       "count": 84,
12       "offset": 0,
13       "limit": 100000,
14 ▾     "observations": [
15 ▾         {
16               "realtime_start": "2013-08-14",
17               "realtime_end": "2013-08-14",
18               "date": "1929-01-01",
19               "value": "1065.9"
20           },
21 ▾         {
22               "realtime_start": "2013-08-14",
23               "realtime_end": "2013-08-14",
24               "date": "1930-01-01",
25               "value": "975.5"
26           },
27 ▾         {
28               "realtime_start": "2013-08-14",
29               "realtime_end": "2013-08-14",
30               "date": "1931-01-01",
31               "value": "912.1"
32           },
33 ▾         {
34               "realtime_start": "2013-08-14",
35               "realtime_end": "2013-08-14",
36               "date": "1932-01-01",
```

Evaluation Results

```
 1 ▾ [
 2       "2013-08-14",
 3       "2013-08-14",
 4       "2013-08-14",
 5       "2013-08-14",
 6       "2013-08-14",
 7       "2013-08-14",
 8       "2013-08-14",
 9       "2013-08-14",
10       "2013-08-14",
11       "2013-08-14",
12       "2013-08-14",
13       "2013-08-14",
14       "2013-08-14",
15       "2013-08-14",
16       "2013-08-14",
17       "2013-08-14",
18       "2013-08-14",
19       "2013-08-14",
20       "2013-08-14",
21       "2013-08-14",
22       "2013-08-14",
23       "2013-08-14",
24       "2013-08-14",
25       "2013-08-14",
26       "2013-08-14",
27       "2013-08-14",
28       "2013-08-14",
29       "2013-08-14",
30       "2013-08-14",
31       "2013-08-14",
32       "2013-08-14",
33       "2013-08-14",
34       "2013-08-14",
35       "2013-08-14",
36       "2013-08-14",
```

Job Design

Job design flow showing tREST_init → tLogRow_1 (1 rows in 1.96s, 0.51 rows/s, row1 (Main)), OnComponentOk → tREST_prim → tExtractJSONFields_1 (row2 (Main), 0.61 rows/s) → tFileOutputDelimited_1 (245 rows in 1.66s, 147.77 rows/s, row3 (Main)) → OnComponentOk → tMsgBox_1.

Dialog "Rilind Asllani": The FRED data was successfully written to fred-content-extract.csv [OK]

Designer | Code

Job(rest_api_fred 0.1)   Contexts(rest_api_fred)   Component   Run (Job rest_api_fred)

Job rest_api_fred

| Basic Run |
| Debug Run |
| Advanced settings |
| Target Exec |
| Memory Run |

Execution

[Run]   [Kill]   [Clear]

```
Starting job rest_api_fred at 16:03 02/05/2021.
[statistics] connecting to socket on port 3811
[statistics] connected
 _____
|tLogRow_1  |
|==========|
|ERROR_CODE|
|==========|
|null       |
 _____
```

fred-content-extract - Excel

File | Home | Insert | Page Layout | Formulas | Data | Review | View

Calibri | 11

Paste

Clipboard | Font | Alignment | Number

E1

	A	B	C	D	E	F	G	H
1	Date;Value		RILIND ASLLANI					
2	2000-01-01;169.3							
3	2000-02-01;170.0							
4	2000-03-01;171.0							
5	2000-04-01;170.9							
6	2000-05-01;171.2							
7	2000-06-01;172.2							
8	2000-07-01;172.7							
9	2000-08-01;172.7							
10	2000-09-01;173.6							
11	2000-10-01;173.9							
12	2000-11-01;174.2							
13	2000-12-01;174.6							
14	2001-01-01;175.6							
15	2001-02-01;176.0							
16	2001-03-01;176.1							
17	2001-04-01;176.4							
18	2001-05-01;177.3							
19	2001-06-01;177.7							
20	2001-07-01;177.4							
21	2001-08-01;177.4							
22	2001-09-01;178.1							
23	2001-10-01;177.6							
24	2001-11-01;177.5							

fred-content-extract