

REST Web Services to Show Multiple-dimensional Properties and Their Values

Greetings everyone, I have faced a bottleneck regarding REST web services and Representation which is I need help to retrieve any data I expected to see from the API platform.

Presentation and classes I recently created, both named "ZGACCENTRYA", which its data source is from GACCENTRYA [DAA](Analytical accounting line) table.

Everything that I desired to display via API did show in Postman. Still, CCE and DIE did not display their multidimensional (both natures are 9 dimensions but I want to show the first three dimensions only) values.

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** https://3124/api1/x3/erp/SAGESEED/ZGACCENTRYA?representation=ZGACCENTRYA.\$query&count=10
- Params:** representation (checked), count (checked)
- Body:** Pretty view of JSON response
- Status:** 200 OK, Time: 883 ms, Size: 3.5

The JSON response body is as follows:

```
{
  "$uuid": "15263061-ad57-49f9-8305-389a4bb31e6b",
  "$etag": "2022-02-21T06:00:55Z",
  "NUM": "ATC-ES01114-000003",
  "LIN": 2,
  "LEDTYP": 1,
  "ANALIN": 1,
  "TYP": "ABOCL",
  "TYP_REF": {
    "$title": ""
  },
  "DIE": "",
  "DIE_REF": {
    "$title": ""
  },
  "CCE": "",
  "CCE_REF": {
    "$title": ""
  }
}
```

Diagram 1: The GET method from \$query for ZGACCENTRYA presentation

query for GACCENTRYA table

Code Search Criteria

Query: ZTEST query for GACCENTRYA table Lines: 1 Last generation: 19/04/23 17:24 ADINT Page: 1/1

	NUM_0	TYP_0	CCE_0	CCE_1	CCE_2	DIE_0	DIE_1	DIE_2
1	ATC-ES01114-000003	ABOCL	PEND-001	122	SERVICE	CCT	PRO	MAR
2								

Diagram 2: Query from GACCENTRYA table

So until this point, I am wondering that in order to show multiple-dimensional properties' value should I work on the configuration of classes or representation. If that is so, how should I start my first step to make it work out?

The configuration or settings of table "GACCENTRYA" stay default.

The settings of ZGACCENTRYA class:

Classes

Tree structure Validation Copy

Class code: ZGACCENTRYA Description: Analytical accounting line

General

Management mode

Type: Persistent Table -view Index: DAAD Plays: TYP-NUM-LIN+LEDTYP+ANALIN

Activity code: ZV001 Financials In cache: Searchable: Transaction management:

Representations

Code	Description	Min no.	Act	Max no.	Sequence number	Insertion	Deletion	Sort	Addition
1									

Scripts

Type	Scripts	Running order	Activity code
1			

Methods

Code	Description	Return type	Activity code	Operation	Index
1					

Parameters

Code	Type	Description	Method	Dim.	Class
1					

Keys

Code	Type	Description
1		

Standard methods

Code	Description	Activity code	Y/N
1	C	Creation	<input checked="" type="checkbox"/>
2	D	Deletion	<input checked="" type="checkbox"/>
3	P	Print	<input type="checkbox"/>
4	R	Read	<input checked="" type="checkbox"/>
5	U	Modification	<input checked="" type="checkbox"/>
6			<input type="checkbox"/>

5 Results Display: 25

All > Development > Data and parameters > Classes

Classes

General Methods Standard methods Properties Mapping Miscellaneous

Tree structure Validation Copy

Properties

29 Results Display: 50

Property	Order	Description	Short description	Type	Menu	Length	Act	Class	Collection	LOB table	LOB field	Content type	Man.
1	TYP	10 Entry type	Entry type	GTE									
2	NUM	20 Document no.	No.	VCR									
3	LIN	30 Line number	No.	C		3							
4	LEDTYP	40 Ledger type	Ledger	M	2644								
5	ANALIN	50 Order information	No.	C		3							
6	IDTLIN	60 Identifier	Identifier	A		5							
7	LED	70 Ledger	Ledger	LED									
8	CPY	80 Company	Company	CPY									
9	FCYLIN	90 Site	Site	FCY									
10	ACCDAT	100 Accounting date	Acct. date	D									
11	ACCNUM	110 Unique number	No.	UNQ									
12	COA	120 Chart code	Chart code	COA									
13	ACC	130 General accounts	Account	GAC									
14	BPR	140 BP	BP	BPR									
15	DIE	160 Dimension type code	Dimension type	DIE									
16	CCE	160 Analytical dimension	Dimension	CCE									
17	SNS	170 Sign	Sign	C		2							
18	CUR	180 Entry currency	Currency	CUR									
19	AMFCUR	190 Entry amount	Amount	MDI									
20	CURLED	200 Ledger currency	Currency	CUR									
21	AMFLED	210 Ledger amount	Currency	MDI									
22	UOM	220 Nonfinancial unit	Unit	UOM									
23	QTY	230 Quantity	Quantity	QTY									
24	ACCNUMMODE	240 Counterpart number	No.	UNQ									
25	CREDATIM	250 Date time	Date time	ADATIM									
26	UPDDATIM	260 Date time	Date time	ADATIM									
27	AUJUD	270 Single identifier	Single Identifier	AUJUD									
28	CREUSR	280 User	User	AUS									
29	UPDUSR	290 User	User	AUS									
30													

All > Development > Data and parameters > Classes

Classes

General Methods Standard methods Properties Mapping Miscellaneous

Tree structure Validation Copy

Parameters

Code	Description	Type	Method	Value
1	AENABLE	Active	TinyInt	2
2	AFILTER	Filter	Alphanumeric	
3				

Keys

Code	Description	Type	Value
1	TYP	Entry type	Alphanumeric
2	LEG	Legislation	Alphanumeric
3			

Mapping

Main table

Table: Index: TYP=NUM+LIN+LEDTYP+ANALIN

Filter:

Table joins

Reference	Class	Destination table	Abbrev.	Origin table	Abbrev.	Link type	Main index	Sort index	Join expression	Selection expression
1										

Key mapping - properties

Class	Key property	Type	Parent class	Parent property	Constant value
1					

Miscellaneous

Additional properties

Legislation property: Company property: Site property: Access code property:

Filters

Code	Description	Activity code	Condition	Error message
1				

The settings of the ZGACCENTRYA presentation:

Development > Data and parameters > Classes

Representations [Invalid links] [Menus] [Tree structure] [i]

General Properties Methods Organization Displayed properties Links Menus

Representation code * ZGACCENTRYA [Q] Description * Analytical accounting line [Q]

General

Class code * ZGACCENTRYA [Q] Instance * DAA [Q] Used for search results

Functions

Authorization [Q] Convergence [Q]

Characteristics

Activity code * ZV001 [Q] Module Financials [v]

Type

Desktop [v] System

Facets

Code	Active
1 Detail	<input checked="" type="checkbox"/>
2 Edit	<input type="checkbox"/>
3 Query	<input type="checkbox"/>
4 Lookup	<input type="checkbox"/>
5 Summary	<input type="checkbox"/>

Managed behaviors

Code	Active
1 Creation	<input checked="" type="checkbox"/>
2 Update	<input checked="" type="checkbox"/>
3 Deletion	<input checked="" type="checkbox"/>

8 Results Display: 10

Development > Data and parameters > Classes

Representations [Invalid links] [Menus] [Tree structure] [i]

General Properties Methods Organization Displayed properties Links Menus

Managed behaviors

Code	Active
1 Creation	<input checked="" type="checkbox"/>
2 Update	<input checked="" type="checkbox"/>
3 Deletion	<input checked="" type="checkbox"/>
4 PDF printing	<input type="checkbox"/>
5 Excel reporting	<input type="checkbox"/>
6 Word reporting	<input type="checkbox"/>
7 Word mail merge	<input type="checkbox"/>
8 Quick edit	<input type="checkbox"/>
9	<input type="checkbox"/>

Collections

Code	Alias	Description	Min no.	Act	Max no.	Sequence number	Insertion	Deletion	Sort	Addition
1							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Scripts

Type	File	Order	Activity code
1			

Properties

Property	Order	Description	Short description	Type	Menu	L	Act	Collection	Lab table	Lab field	Content type	Man...	Control table	Depende...	Access
1															

Parameters

Code	Description	Method	Type	Value
1				

Keys

Representations Invalid links **Menu** Tree structure

General Properties Methods Organization Displayed properties **Links** Menus

Links

Filter
 Anchor type: Property Display of generated links Only invalid links Ancher:

Parameters

Code	Description	Type	Fit...	En...	Method	Input	Number	Value	First value	Final value
1										

Keys

Code	Description	Type	Method	Value
1				

Links

Anchor	Code	Generated	Active link	Invalid	Description	Type	Representation	Action	Target	Instance path	Class co
1											

Menus

Menu

Code	Description	Parent	Order	Activity code
1				

Default configuration

Facet	Default	Link/Menu	Anchor type	Description	Activity code
1 Detail	Yes	-	Q :		Q :
2 Edit	Yes	-	Q :		Q :
3 Query	Yes	-	Q :		Q :
4 Lookup	Yes	-	Q :		Q :
5 Summary	Yes	-	Q :		Q :