

**Kanwardeep Singh Gill**

November 24, 2014 3 minute read

## Multi-Level Expansion with GET\_EXPANDED\_ENTITYSET

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This blog is based on the idea of expanding Entities linked with Multi-Level Navigation Properties(A->B->C->D) in a single Gateway framework call.

To get an idea of expanding multiple entities linked with Navigation property in a single ENTITYSET call with \$EXPAND, refer to my recent blog at [Expand Parent Child Entities in a Single Expansion – GET\\_EXPANDED\\_ENTITYSET](#).

Consider below entity relation ship ENTITY A -> ENTITY B-> ENTITY C linked with Navigation properties Entity A to Entity B = AB and Entity B to Entity C = BC. With this blog I am trying to fetch data for all the entities A, B and C in a single call of the gateway framework using below URI call where A is linked to B and B is linked to C via a navigation property. This is like an INNERJOIN on the interrelated Entities linked via navigation properties:

`/sap/opu/odata/sap/zmultilevel_exp_srv/EntitySetA?$expand=AB/BC,`

this would return data for entity A, B and C in a single Gateway Framework Call which would otherwise be achieved with below 2 Odata Calls:

`/sap/opu/odata/sap/zmultilevel_exp_srv/EntitySetA?$expand=AB`

`/sap/opu/odata/sap/zmultilevel_exp_srv/EntitySetB?$expand=BC`

In above entity expansion, you could always use filters based on the entities A and B, However, the way you access the various properties of entities A and B is slightly different.

Say you want to filter data result on the basis of property X of entity A, the above link would be represented as `/sap/opu/odata/sap/zmultilevel_exp_srv/EntitySetA?$expand=AB/BC&$filter=X eq <Filter Value>.`

However, if you want to filter result set based on property Y of entity B, the link would be represented as

`/sap/opu/odata/sap/zmultilevel_exp_srv/EntitySetA?$expand=AB/BC&$filter=AB/Y eq <Filter Value>.`

We will consider above situations with the help of Sales Order Data linked with entity relations SalesOrder Header -> Sales Order Items  
->Sales Order Schedule Lines

Consider below Entity Structures and Navigation Properties:

Entity Types									
Name	ABAP Structure Type Name	Base Type Name	Abs...	Label	L...	Semantics	Thi...	Me...	
SOHeader	ZSO_S_HEADER		<input type="checkbox"/>		<b>T</b>		<input type="checkbox"/>	<input type="checkbox"/>	
SOItem	ZSO_S_ITEM		<input type="checkbox"/>		<b>T</b>		<input type="checkbox"/>	<input type="checkbox"/>	

Name	Key	Edm Core Type	Prec.	Scale	Max...	Unit Prop.	Cre...	Up...	Sor...	Null...	Filt.	Label	L...	Comp. Type	ABAP Field Name	A
Vbeln	<input checked="" type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sales Document	<b>T</b>		VBELN	<input type="checkbox"/>
Auart	<input type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sales Doc. Type	<b>T</b>		AUART	<input type="checkbox"/>
Vkorg	<input type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sales Org.	<b>T</b>		VKORG	<input type="checkbox"/>
Vtweg	<input type="checkbox"/>	Edm.String	0	0	2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Distr. Channel	<b>T</b>		VTWEG	<input type="checkbox"/>

Name	Key	Edm Core Type	Prec.	Scale	Max...	Unit Prop.	Cre...	Up...	Sor...	Null...	Filt.	Label	L...	Comp. Type	ABAP Field Name	A
Vbeln	<input checked="" type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sales Document	<b>T</b>		VBELN	<input type="checkbox"/>
Posnr	<input checked="" type="checkbox"/>	Edm.String	0	0	6		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Item	<b>T</b>		POSNR	<input type="checkbox"/>
Matnr	<input type="checkbox"/>	Edm.String	0	0	18		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material	<b>T</b>		MATNR	<input type="checkbox"/>
Matkl	<input type="checkbox"/>	Edm.String	0	0	9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Material Group	<b>T</b>		MATKL	<input type="checkbox"/>

Properties															
Name	Key	Edm Core Type	Prec.	Scale	Max..	Unit Prop.	Cre...	Up...	Sor...	Null...	Filt.	Label	L...	Comp. Type	ABAP Field Name
Vbeln	<input checked="" type="checkbox"/>	Edm.String	0	0	10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sales Document	<b>T</b>		VBELN
Posnr	<input checked="" type="checkbox"/>	Edm.String	0	0	6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Item	<b>T</b>		POSNR
Etenr	<input checked="" type="checkbox"/>	Edm.String	0	0	4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Schedule Line	<b>T</b>		ETENR
Edatu	<input type="checkbox"/>	Edm.DateTime	8	0	0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Delivery Date	<b>T</b>		EDATU
Bmeng	<input type="checkbox"/>	Edm.Decimal	13	3	0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confirmed Qty	<b>T</b>		BMENG
Wmeng	<input type="checkbox"/>	Edm.Decimal	13	3	0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Order quantity	<b>T</b>		WMENG

Associations					
Name	E...	Principal Entity	Principal Entity Cardinality	Dependent Entity	Dependent Entity Cardinality
SOHeaderToItem	<b>E</b>	SOHeader	N	SOItem	M
SOItemToSchdLn	<b>E</b>	SOItem	M	SOItemSchdLn	N

Navigation Properties		
Name	Relationship Name	Label
SOHeaderToItem	SOHeaderToItem	Sales Order Header to Items

Name	Relationship Name	Label
SOItemToSchdLn	SOItemToSchdLn	Sales Order Item to Schedule Lines

Redefine GET\_EXPANDED\_ENTITYSET as explained in the attached snapshot.

```
METHOD /iwbsp/if_mgw_appl_srv_runtime~get_expanded_entityset.
```

```
DATA: lt_sheadertoitemtoschdlns TYPE STANDARD TABLE OF zso_s_headertoitemtoschdlns,  
      lt_vbak TYPE STANDARD TABLE OF zso_s_header,  
      lt_vbap TYPE STANDARD TABLE OF zso_s_item,  
      lt_vbep TYPE STANDARD TABLE OF zso_s_schedulelines.
```

```
DATA: ls_vbak TYPE zso_s_header,  
      ls_vbap TYPE zso_s_item,  
      ls_vbep TYPE zso_s_schedulelines,  
      ls_headertoitemtoschdln TYPE zso_s_headertoitemtoschdlns.
```

```
DATA: lv_techname TYPE string.
```

```
IF is_paging-top IS NOT INITIAL.
```

```
  SELECT vbeln auart vkorg vtweg FROM vbak  
  UP TO is_paging-top ROWS INTO TABLE lt_vbak.
```

```
ELSE.
```

```
  SELECT vbeln auart vkorg vtweg FROM vbak  
  UP TO 100 ROWS INTO TABLE lt_vbak.
```

```
ENDIF.
```

```
IF lt_vbak IS NOT INITIAL.
```

```
  SELECT vbeln posnr matnr matkl FROM vbap INTO TABLE lt_vbap  
  FOR ALL ENTRIES IN lt_vbak WHERE vbeln = lt_vbak-vbeln.
```

```
  IF sy-subrc = 0.
```

```
    SELECT vbeln posnr etenr edatu bmeng wmeng FROM vbep INTO TABLE lt_vbep  
    FOR ALL ENTRIES IN lt_vbap WHERE vbeln = lt_vbap-vbeln AND posnr = lt_vbap-posnr.
```

```
  ENDIF.
```

```
ENDIF.
```

```
LOOP AT lt_vbak INTO ls_vbak.
```

```
  MOVE-CORRESPONDING ls_vbak TO ls_headertoitemtoschdln.
```

```
  LOOP AT lt_vbap INTO ls_vbap WHERE vbeln = ls_vbak-vbeln.
```

```
    APPEND ls_vbap TO ls_headertoitemtoschdln-soheadertoitem.
```

```
  ENDLOOP.
```



[https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL\\_EXPAND\\_SRV/SOHeaderSet?\\$expand=SOHeaderToItem/SOItemToSchdLn&\\$filter=Vbeln%20eq%20%271%27&\\$format=json](https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/SOHeaderSet?$expand=SOHeaderToItem/SOItemToSchdLn&$filter=Vbeln%20eq%20%271%27&$format=json)

Tables		
Table Contents		
Table	IT_FILTER_SELECT_OPTIONS	
Attributes	Standard [1x2(16)]	
	Columns ...	
Row	PROPERTY [CString]	SELECT_OPTIONS [Internal Table]
1	Vbeln	Standard Table [1x4(24)]

**With filter on Items Entity (SOItem):** The catch here is that, you have to fetch the filter from the filter string from IO\_Tech\_Request\_Context->MO\_FILTER-'''/\_FILTER\_STRING'''.

[https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL\\_EXPAND\\_SRV/SOHeaderSet?\\$expand=SOHeaderToItem/SOItemToS...](https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/SOHeaderSet?$expand=SOHeaderToItem/SOItemToS...)

Alert Moderator

Reference

{O:30\*\CLASS=/IWBE/CL\_MGW\_REQUEST} MO\_FI...

Object

{O:31\*\CLASS=/IWBE/CL\_MGW\_REQ\_FILTER}

Assigned tags

View

SAP Attribute

St...	Bin...	Vis...	Attrib.	Val...	Val.
			OBJECT		
			/IWBE/CL_MGW_REQ_FILTER		
			MT_FILTER_SELECT_OP...	[0x2(16)]	Hashed Table
			MT_FILTER_STRING	( SOHEADERTOITEM-VBELN = '1' )	
			MO_KEY_CONVERTER	{O:INITIAL}	
			MT_SIMPLE_PROPERTY	[0x2(68)]	Standard Table
			MT_COMPLEX_PROPERTY	[0x2(68)]	Standard Table
			MT_CURRENCY_CODE	[0x3(24)]	Standard Table

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Kindly share your inputs and thoughts on this.  
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## Related Questions

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## 16 Comments

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**Sebastian Hellmann**

[June 9, 2015 at 1:27 pm](#)

Hi Kanwardeep,

thanky you for this explenaiton as I have a similar problem to solve.

The only thing I am confused about is the way you address the third level information

Can you many post an example of the returned JSON/XML?

I would have expected to be some kind of nested expand call like

/SOHeaderSet?\$expand=SOHeaderToItem\$expand=SOItemToSchdIn

I know that this is syntactically not correct but it just seems not consistent to me.



I also wonder why you did not have to create an additional custom structure for the ItemToSchdLn accociation like ZSO\_S\_IETMTOSCHLDN:

```
include type ZSO_S_ITEM,
```

```
SOITEMTOSCHDLN type ZSO_TT_SCHLDN
```

How can the framework map this into the data model if it does not have the same structure?

maybe you can help me to understand this.

Thank you in advance!

Like (0)



**Kanwardeep Singh Gill** | Post author

June 9, 2015 at 2:50 pm

Hi Sebastian,

If you have observed the URL parameter \$EXPAND, you must have noticed that the path passed expalins the hierarchy from HEADER to ITEM to SCHEDULELINE with \$EXPAND=SOHeadertoItem/SOItemToSchdLn.

This \$EXPAND expression tells the framework to map multi level associated entity sets to the output result from the GET\_EXPANDED\_ENTITYSET method of the DPC.

In turn, the framework maps corresponding fields in the output result with the name same as the Navigation Property of the entity sets.

---

```

- <link title="SOHeaderToItem" type="application/atom+xml;type=feed" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/related/SOHeaderToItem" href="SOHeaderSet('1')/SOHeaderToItem">
- <m:inline>
- <feed xml:base="https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/">
  <id>https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/SOHeaderSet('1')/SOHeaderToItem</id>
  <title type="text">SOItemSet</title>
  <updated>2015-06-09T14:16:06Z</updated>
- <author>
  <name/>
</author>
<link title="SOItemSet" rel="self" href="SOHeaderSet('1')/SOHeaderToItem"/>
- <entry>
  <id>https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/SOItemSet(Posnr='000010',Vbeln='1')</id>
  <title type="text">SOItemSet(Posnr='000010',Vbeln='1')</title>
  <updated>2015-06-09T14:16:06Z</updated>
  <category scheme="http://schemas.microsoft.com/ado/2007/08/dataservices/scheme" term="ZMULTILEVEL_EXPAND_SRV.SOItem"/>
  <link title="SOItem" rel="self" href="SOItemSet(Posnr='000010',Vbeln='1')"/>
- <link title="SOItemToSchdLn" type="application/atom+xml;type=feed" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/related/SOItemToSchdLn" href="SOItemSet(Posnr='000010',Vbeln='1')/SOItemToSchdLn">
  - <m:inline>
    - <feed xml:base="https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/">
      <id>https://vmw4462.wdf.sap.corp:44362/sap/opu/odata/sap/ZMULTILEVEL_EXPAND_SRV/SOItemSet(Posnr='000010',Vbeln='1')/SOItemToSchdLn</id>
      <title type="text">SOItemSchdLn</title>
      <updated>2015-06-09T14:16:06Z</updated>
    - <author>
      <name/>
    </author>
    <link title="SOItemSchdLn" rel="self" href="SOItemSet(Posnr='000010',Vbeln='1')/SOItemToSchdLn"/>
    </feed>
  </m:inline>
</link>
<link title="SOItemToSchdLn" type="application/xml" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/relatedlinks/SOItemToSchdLn" href="SOItemSet(Posnr='000010',Vbeln='1')/$links/SOItemToSchdLn"/>
- <content type="application/xml">
  - <m:properties>
    <d:Matkl/>
    <d:Matnr>STE_001</d:Matnr>
    <d:Posnr>000010</d:Posnr>
    <d:Vbeln>1</d:Vbeln>
  </m:properties>
</content>
</entry>
</feed>
</m:inline>
</link>
<link title="SOHeaderToItem" type="application/xml" rel="http://schemas.microsoft.com/ado/2007/08/dataservices/relatedlinks/SOHeaderToItem" href="SOHeaderSet('1')/$links/SOHeaderToItem"/>
- <content type="application/xml">

```

---

Like (0)



Sebastian Hellmann

June 9, 2015 at 3:06 pm

Hi Kanwardeep,

Thank you again for this, I appreciate it!

I just did a little research and found that nested expands are available at ODATA V4 spec which is not yet implemented in the Gateway

I am just wondering why

SOHeaderSet(vblen)?\$expand=SOHeadertoltem/SOItemToSchdLn works but SOHeaderSet(vblen)/SOHeadertoltem/SOItemToSchdLn is not allowed.

I know that the response would be slightly different (no SOHeader information in example 2) but I hope you get my point.

Anyway that is exactly what I need and I thank you again for your post!

br

Sebastian

Like (0)



[Kanwardeep Singh Gill](#) | Post author

[June 9, 2015 at 3:36 pm](#)

Yeah, I got your point and i understand what you are trying to achieve, but sadly the later espression is not allowed.

In example 2, as per my understanding, it is possible to have an expression like this

SOHeaderSet('1')/SOHeaderToltem => This will call SOITEM\_GET\_ENTITYSET of the entity **SOItem** which is associated to **SOHeader**, but the real parent child expansion does not happen here with GET\_EXPANDED\_ENTITYSET.

Similarly, you can ahieve SOHeaderSet('1')/SOHeaderToltem(VBELN='1',Posnr='000001')/SOItemToSchdLn => This will call SOITEMSSCHDLN\_GET\_ENTITYSET method of the entity SOItemsSchdLn which is associated to SOItem entity, which is further associated to SOHeader entity.

In both the scenarios, what you get is not an expanded result set, however, the result set of the child entity.

Like (0)



Sebastian Hellmann

June 15, 2015 at 9:50 am

Hi Kanwardeep,

I now tried to implement it the way you described, but I don't get any output.

The only difference in my code is that I created a local structure for the mapping of the expand path:

```
data: begin of ls_cfg_chars_values.
```

```
    include type /sie/cl_ad_iset_con_02_mpc=>ts_configuration.
```

```
data: tocharacterisitcs type standard table of /sie/cl_ad_iset_con_02_mpc=>ts_characteristic with default key,
```

```
    tovalues      type standard table of /sie/cl_ad_iset_con_02_mpc=>ts_value with default key,
```

```
end of ls_cfg_chars_values.
```

my navigation attributes looks as follows:

The screenshot shows the SAP Data Model Explorer for the entity 'Configuration'. Under 'Navigationseigenschaften', the 'ToValues' attribute is selected. The table below lists the navigation attributes:

Name	Beziehungsname	ADAP-Relation	Bezeichnung	D...
ToValues	Assoc_Characteristic_Values	TOVALUES		T
ToSelectedValues	Assoc_Characteristic_SelectedValues	TASELECTEDVALUES		T

The screenshot shows the SAP Data Model Explorer for the entity 'Configuration'. Under 'Navigationseigenschaften', the 'ToCharacteristics' attribute is selected. The table below lists the navigation attributes:

Name	Beziehungsname	ADAP-Relation	Bezeichnung	D...
ToRegionalizedConfigDataSet	Assoc_Configuration_RegionalizedData	TORREGIONALIZEDCONFIGDATASET		T
ToCharacteristics	Assoc_Configuration_Characteristics	TOCHARACTERISTICS		T

The structure is correctly filled and passed to er\_entity by:

```
copy_data_to_ref(  
    exporting
```

```
is_data = ls_cfg_chars_values  
changing  
cr_data = er_entity ).
```

but still my output shows me now values for both expanded entities.

Do you have any idea what could be the problem?

Appreciate you help here!

Thx Sebastian

Like (0)



Former Member

November 30, 2015 at 3:31 pm

Hi Kanwardeep,

do you know how to convert the filter string to select options?

I'm working with NetWeaver 7.31 SPS 06 and GW\_CORE 200 SPS 06.

Like (0)



Kanwardeep Singh Gill | Post author

December 1, 2015 at 9:12 am

Hi Simon,

I achieved it by splitting the filter string.

i know it is not a clean way to achieve it, however, i could not find any other option to convert the filter string into SO[].

Thanks!!

Like (0)

---



Former Member

December 8, 2015 at 3:34 am

All the gateway operations are explained in detailed with screenshots on below page. Hope it can be a help.

[click4interview: SAP Netweaver Gateway Basics](#)

[click4interview: Working Example for SAP Netweaver Gateway Beginners](#)

Like (0)

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Former Member

December 10, 2015 at 1:19 pm

Hi,

I implemented the above scenario, but I have an issue

My cr\_entity has the multideep value, but in the output, only first entity is visible, the second entity is blank

Please help

Like (0)



Former Member

[July 21, 2016 at 7:40 am](#)

Hi,

Can you please tell how to fetch IO\_TECH\_REQUEST\_CONTEXT->MO\_FILTER->MV\_FILTER\_STRING using code based scenario?

Thanks in advance.

Parth 😊

Like (0)



[Kanwardeep Singh Gill](#) | Post author

[July 21, 2016 at 7:50 am](#)

You just have to split the filter string at space and then delete unnecessary table rows which contain “(“,”)”=” etc. Loop over the internal table, first record is the filter name and subsequent is the filter value.

Like (0)



Former Member

[July 21, 2016 at 7:56 am](#)

Hi Kanwardeep,

Thanks for your prompt reply. I am trying to fetch the filter value in GET\_EXPANDED\_ENTITY method. I am not getting my hands on how to reach till MV\_FILTER\_STRING using object IO\_TECH\_REQUEST\_CONTEXT. In debugger I am able to see but how to code for the same. Please help.

Best Regards

Parth

Like (0)



**Kanwardeep Singh Gill** | Post author

July 21, 2016 at 9:45 am

You should be able to access MV\_FILTER\_STRING using IO\_TECH\_REQUEST\_CONTEXT->MO\_FILTER->MV\_FILTER\_STRING

Like (0)



**Former Member**

July 24, 2016 at 5:17 pm

I am trying to access as the same you have mentioned, but it is not showing me method MO\_FILTER for object IO\_TECH\_REQUEST\_CONTEXT in GET\_EXPANDED\_ENTITY method.

Is there anything else that I am missing?

Regards

Parth

Like (0)



**Tobias Spott**



March 18, 2019 at 1:34 pm

Hi,

first of all many thanks for your great post. I really liked reading it coz you described it as simple as possible.

In my case everthing works fine except the filtering (\$filter) on a property of an expanded entity (not the root-node). If i try to filter on property Y of entity B, i get an gateway error which says:

“Linksseitiger Ausdruck des Elementzugriffsoperators mit falsche Kardinalität (zu viele nicht zulässig)”

It seems like there is something wrong with the cardinalities between the entities, but i set it up like in your example:

Entity A (principal entity) has cardinality N

Entity B (dependent entity) has cardinality M

If i filter directly on EntitySet B the filter works correctly.

Do you know this kind of issue? Do you have any clue what i'm doing wrong?

Many thanks in advance !

Cheers t.

Like (0)



Guru Prasad Yepuri

May 6, 2019 at 10:17 am

Hi Tobias,

I am facing the same issue.Could you please share a solution or work around?

Thanks,

Guru.

Like (0)

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