





# **Fetching Specific Fields from Database Table**

Author Vishnu R





## Fetching Specific Fields from Database Table

In this blog, let us discuss how to capture and fetch those fields that are coming in the request profile from a Database table.

- We would be exposing an API that would be getting a request that contains some fields.
- > Here, to capture the fields from the request we would be using scripting.
- For fetching the records from the database, we have used a connector Database V2 which allows a query to be passed dynamically.

First, let us see the payload that would be the request:

```
{
    "requestCount": 2,
    "requests":[
    {
        "studentId": "abc",
        "fields":
    ["emailId","percentage","firstName","lastName","studentId","branch","YearOfJoinin
g"]
    },
    {
        "studentId": "xyz",
        "fields": ["emailId","percentage","firstName"]
    }
]
```

From this payload, we need to fetch the records according to the Student ID from the database and only those fields should be coming in the output which is present in the fields.

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}





```
Sample Response:
{
  "Result": [
    {
       "emailId": "ad.2@gmail.com",
       "percentage": "90",
       "grade": "A",
       "firstName": "Adam",
       "lastName": "Levine",
       "studentId": "abc",
       "branch": "Science",
       "YearOfJoining": "2019"
     },
     {
       "emailId": "rick.77@gmail.com",
       "percentage": "71",
       "firstName": "Rick"
     }
  ]
}
```

Now, let us see the steps to achieve this.

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#### Step 1: First, create a process with a start shape with the Web Services Server connector.

	the main shape that begins the process flow. It is automatically added to ea t cannot be removed.
Process Mode	General
Туре	● Connector ○ Trading Partner ○ Data Passthrough ○ No Data
For Pro allow S	imultaneous Executions
allow S <u>Make th</u>	
allow S <u>Make th</u>	imultaneous Executions e recommended change for me.
allow S <u>Make th</u> General P Display Name	imultaneous Executions e recommended change for me.
allow S <u>Make th</u> General P	imultaneous Executions <a>e recommended change for me.</a>
allow S <u>Make th</u> General P Display Name Connector (	imultaneous Executions <a href="mailto:erecommended.change.forme">me</a> <a href="mailto:arameters">arameters</a> <a href="mailto:web_Services_Server">web_Services_Server</a>

Step 2: Configure the Operation related to the Web Service Server Connector.

Note: Here the request profile and Response Profile are optional.

[Operation]Exposin	IgAPI - Web Services Server Operation 🛞 🖿 Folder 🥔 Add Description
Options Archiving	Tracking
Connector Action	Listen 🗸
Simple URL Path (i)	/ws/simple/getProfile
SOAP URL Path i	/ws/soap- Unavailable
Operation Type (i)	GET V
Object (j)	Profile
Expected Input Type i	Single JSON Object 🗸
Request Profile (i)	Q Choose
Response Output Type 🥡	Single JSON Object
Response Profile (1)	Q choose O
Result Content Type 🥡	application/json
Attachment Cache (i)	Q Choose

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**Step 3**: Now, we need to drag and drop a Data Process shape for splitting the incoming request.

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**Step 4:** We need to configure the Data Process for Splitting, first we have to select the profile type as JSON.

olit Documents	Processing Step (2)	Split Documents	~
	Profile Type	JSON	~
	Split Options 🕧		
	Batch Count	o	
	Profile	Q [Profile]]SONRequestPM	/
	Split Element	Q fields (Root/Object/requests/Array/ArrayEle	ement1/Object/fie

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#### Step 5: We need to select the JSON Profile that needs to be split.

[Profile]]SONRequestPM - JSON Profile 🛈 🐞 Folder 🖉 Add Description

Data Elements	
Koot      Koot      Koot      VequestCount      Array      VequestS      VequestS	Element Details Set the properties of the selected root element, object, object entry, array, or array element. Value Name () fields Value Type Array (Repeating) () () Required () Comments ()

**Step 6**: Now, we need to select the split element with which you need to split and that element should be repeating.

+ X 주 ± Split Documents	Processing Step 👔	© ♣ Root © E Object © requestCount © € Array © € Array © € ArrayElement1 © E Object	
	Split Options i	🔍 studentid	
	Batch Count	E Array	
	Profile	Cancel OK	
	Split Element	Q fields (Root/Object/requests/Array/ArrayElement1/Object/fie	
			•
	OK Cancel	Split Options ③ Batch Count Profile Split Element	Split Options () Batch Count Profile Split Element Of fields (Root/Object/requests/Array/ArrayElement1/Object/fie

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Step 7: Now, we need to drag and drop the Data Process Shape for scripting.

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**Step 8:** In Data Process, you need to choose custom scripting with inline script or process script component if you need it to be reused.

ustom Scripting	Processing Step 🥡	Custom Scripting	~
	Select Script Source	O Process Script Component	
		Inline Script	
	Language	Groovy 2.4	~
	Inline Script	<pre>import java.util.Properties; import java.io.InputStream; import java.io.InputStream; import com.boomi.execution.ExecutionUtil; //needed for dynamic process property import groovy.json.JsonSlurper; import groovy.json.JsonBuilder; for( int i = 0; i &lt; dataContext.getDataCount(); i++ ) {</pre>	•

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#### Step 9: The script that should be written is:

#### Edit Script

Language	Groovy 2.4	~	T
impo impo impo impo impo for( def def grop	<pre>ort java.util.Proper ort java.io.InputStr ort java.io.InputStr ort com.boomi.execut ort groovy.json.Json (int i = 0; i &lt; dat InputStream is = da Properties props = jsonObject = new JS fields = jsonObject value = fields.join s.setProperty('docu newJSONDbject = new JS</pre>	<pre>ties; ram; sam; ion.ExecutionUtil; //needed for dynamic process pr Sulper; Builder; aContext.getDataCount(); i++ ) { taContext.getStream(i); dataContext.getProperties(i); onSlurper().parse(iS); rrequests[0].fields; (','); enct.dynamic.userdefined.field", value);</pre>	<ul> <li>Control of the store of the sto</li></ul>
			Cancel

- Here, in the script we are using a JSON Slurper for parsing the JSON and we will take the JSON Object, and using this JSON Object we would be capturing the Fields that are coming in the request.
- Once it is captured, we would separate each field with a comma and it is stored in dynamic document property named fields.

Step 10: Drag and drop a Set Properties for capturing the ID.

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• You would be able to capture the ID with a dynamic document property from the output coming from the data process.

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**Step 11:** Drag and drop a message shape for capturing the Dynamic Query which needs to be passed to the Database Connector.

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**Step 12:** You need to use placeholders for passing the ID and SQL Query to the Database connector in a JSON Format.

<pre>mbine documents into a single message (i) }''', '':"SELECT '{2}' from api.empdetails WHERE tid=\$studentid" </pre>
":"SELECT '{2}' from api.empdetails WHERE tId=\$studentId"
× ∓ ±
JSON Profile - [Profile]]sonRequestSplit - studentId (Root/Object/requests/Array/ArrayElement1/Object/ studentId)
Document Property - Dynamic Document Property - field

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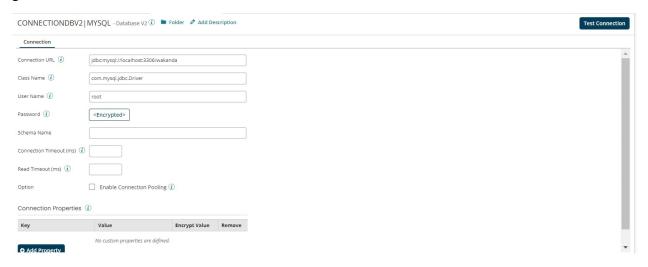




**Step 13:** We need to drag and drop a Database V2 connector for fetching the records from the Database.

Image: Start - Web Services Server       SplitjsonRequest       ScriptingCapturingFieRds       CAPTURING_ID       SqlQuery       Database V2         [Operation]ExposingAPI       Image: Capture of the services of the service o				
Image: Start - Web Services Server       SplitJsonRequest       ScriptingCapturingFieltis       CAPTURING_ID       SqlQuery       Database V2         [Operation]ExposingAPI       Image: Configure       Image: Configure       Image: Configure				
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**Step 14:** Now, we need to configure the connection related to Database V2 and the action as get.



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Step 15: Now, we need to configure the operation related to Database V2.

- First, we need to perform import, and while importing
  - > The get operation type should be Standard Get.
    - > Enable SQL Query should be checked.

Connector Action	GET	~		•
Atom*		~		
Connection*	Q Choose	0		
Get Operation Type i	Standard Get	~		
Schema Name				
Option	Document Batching (i)			
Option	Enable SQL Query (1)			
Table Names и				
Filter (i)				
				-
			Cancel	Next

[Operation]DynamicQuery - Database V2 Operation () 🖿 Folder 🖉 Add Description	
Options Archiving Tracking Caching	
Connector Action	A .
Object empdetails (TABLE)	
Request Profile Q. (JSON)DBRequest 🖉 🕲	
Response Profile Q. [Profile]JSONDBOP	
Tracking Direction 🚯 💿 Input Documents 🔿 Output Documents	
Error Behavior 🗌 Return Application Error Responses 🗊	
Get Operation Type 👔 Standard Get 🗸	
Option Include IN Clause (	
Schema Name api	
SQL Query	
Link Element (i)	•
Lock & Edit Close Previous Save on 24 Jun 2023 at 08:11:33 PM UTC+5:30 Revert	৩ <u>Revision History</u>

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#### Step 16: Now, we need to Add 2 parameters in the Database V2 Connector.

	e "send" connectors. The Connector shape uses a co d operation components to establish where and how	
General Paramete	ers	
Add or edit the values of	your parameters.	
+ / × ∓ ± Name	Value	Source
SQLQuery (Object/SQLQuery)	JSON Profile - [Profile]JSONRequest - Query (Root/Object/Query)	C <sup>2</sup>
studentid (Object/studentid)	JSON Profile - [Profile]JSONRequest - id (Root/Object/id)	C <sup>2</sup>

• The first parameter would be the SQL Query and the Second parameter would be the Student ID based on which we need to fetch the records.

**Step 17:** We need to drag and drop a Message shape for combining the JSON Records that are coming as the output of the Database V2 connector.

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**Step 18:** Inside the message shape we need to add a placeholder and a comma, combine documents into a single message checkbox should be ticked.

To transform inco	age Shape ③ ming document data into a free-form message using a combination of static ables, use the Message shape. The Message shape is often used to construct
Display Name	Combining JSON Object
Option	<ul> <li>Combine documents into a single message (i)</li> </ul>
Message	{1},
Variables	+ / × = +
	{1} Current Data
ок с	ancel

Step 19: Drag and drop another message shape to format it into a JSON.

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tart - Web Services Server Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	CONNECTI	ONDBV2 MYSQL	pining JSON Object Formatting	ISON
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Start - Web Services Server [Operation]ExposingAPI	SplitjsonRequest	ScriptingCapturingFields	s CAPTURING_ID S	CONNECTI [Operation	ONDBV2 MYSQL		ISON

Step 20: Drag and drop another message shape to format it into a JSON.

	Shape ③ ocument data into a free-form message using a combination of static the Message shape. The Message shape is often used to construct	-
Display Name	Formatting JSON	
Option	Combine documents into a single message 🕢	
Message	'{ "Result":[ '(1)' ] ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
Variables	★ X ★ ± {1} Current Data	-
OK Cancel		

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Step 21: Drag and drop a Data Process shape to make the payload a well-formed JSON.

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Start - Web Services Server	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery	Database V2	Combining JSON Object	Formatting JSON	Replace Comma with Nul
Start - Web Services Server	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery	Database V2	Combining JSON Object	Formatting JSON	Replace Comma with Nu
Start - Web Services Server	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery	Database V2 CONNECTIONDBV2   MYSQL	Combining JSON Object	Formatting JSON	Replace Comma with Nu
Start - Web Services Server [Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery	Database V2 CONNECTIONDBV2   MYSQL	Combining JSON Object	Formatting JSON	Replace Comma with Nu
Start - Web Services Server Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery	Database V2 CONNECTIONDBV2   MYSQL [Operation]DynamicOuery	Combining JSON Object	Formatting JSON	Replace Comma with Nu
Start - Web Services Server [Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID		CONNECTIONDBV2 MYSQL [Operation]DynamicQuery	Combining JSON Object	Formatting JSON	Replace Comma with Nu
start - Web Services Server Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID		CONNECTIONDBV2 MYSQL [Operation]DynamicQuery	Combining JSON Object	Formatting JSON	Replace Comma with Nu
itart - Web Services Server Operation]ExposingAPI	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID		CONNECTIONDBV2 MYSQL [Operation]DynamicQuery		Formatting JSON	Replace Comma with Nu

**Step 22:** In the Data Process, you need to choose the search and replace option where you can specify, $(?=[^{\{}]*])$  this regex in the text to find section and Null in the replace with section.

nanipulation, like spli	tting or combining documents	e the Data Process shape. This shape provides multiple options for data and zipping or unzipping data. You can add one or more processing steps, and operate on the data output from the previous processing step.
isplay Name	Replace Comma with Null	
rocessing Steps		
Data Proce	ess Properties	()
Jata Hoce	sss i roperties	<u> </u>
		S
+ × ∓ ±	Processing Step (i)	Search/Replace
+ × ∓ ±		
+ × ∓ ±	Processing Step (i)	Search/Replace
+ × ∓ ± Search/Replace	Processing Step (i) Text To Find (i)	Search/Replace

Step 23: Finally, you need to add a Return document shape for sending the response back.

Ø	» <u>}</u>	o 📥	•	0=	0	-0=	- <b>)</b> =	
Start - Web Services Server	SplitJsonRequest	ScriptingCapturingFields	CAPTURING_ID	SqlQuery			Formatting JSON	Replace Comma with Null Return Document
[Operation]ExposingAPI					CONNECTIONDBV2   MY	SQL		
					[Operation]DynamicQue	ery		
					Parameters (2 of 12 set)			

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**Step 24:** Now, the process is done and you need to create a package component and deploy the process to an environment. Once deployed, you can test it using any testing tool like Postman by using a POST request with the input payload in the body.

#### **Request from Postman**

Params Authorization Headers (8) Body • Pre-request Script Tests Settings	Cookies
none form-data x-www-form-urlencoded raw binary GraphQL JSON v	leautify
<pre> 1  { 2</pre>	

#### Response

POST	http://LAPTOP-24GLFLD0:9090/ws/simple/getProfile		Send ~
Params	Authorization Headers (8) Body • Pre-request Script Tests	s Settings	Cookies
Body Cod	okies Headers (2) Test Results	🕀 200 OK 284 ms 345 B 🖺 Save	as Example 👓
Pretty	Raw Preview Visualize JSON ~ 🚍		ri Q
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 8	<pre>"Result": [</pre>		

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At TGH, we specialize in driving digital transformation through seamless Integration Technologies.

Operating as an INTEGRATION FACTORY, we serve as a one-stop shop for all your integration needs. Our expert team is well-versed in enterprise software and legacy system integration, along with leading iPaaS technologies like Boomi, MuleSoft, Workato, OIC, and more.

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## Email address

connect@techygeekhub.com

Phone number + 011-40071137 + 91-8810610395

### Our offices

Noida Office iThum Plot No -40, Tower A, Office No: 712, Sector-62, Noida, Uttar Pradesh, 201301

#### Hyderabad Office

Plot no: 6/3, 5th Floor, Techno Pearl Building, HUDA Techno Enclave, HITEC City, Hyderabad, Telangana 500081

