

Using Web activity to call an API with a separate value from SQL each time in a loop in Data Factory

Last updated by | Ranjith Katukojwala | Mar 7, 2023 at 11:35 AM PST

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Issue

How to get set of values from SQL table and use them as part of an API call in data factory

Steps

1. Use a lookup activity to get values from the SQL table and configure it as below with query option.

General Settings User Properties

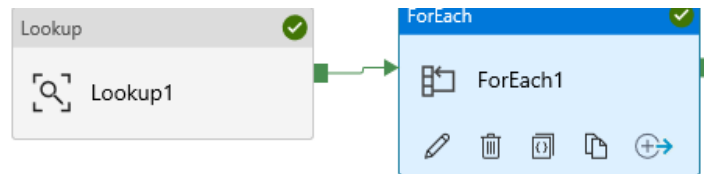
Source dataset * MuraliTest_SQLDataSet Edit New Preview data

Use query ☐ Table ☒ Query ☐ Stored Procedure

Query * SELECT [id] FROM [dbo].[User]

First row only ☐

2. Lookup output to ForEach activity. Configure like below screenshot



General	Settings	Activities (1)	User Properties
Sequential <input type="checkbox"/>			
Batch count		10	
Items		@activity('Lookup1').output.value	

3. In ForEach , drag and drop a web activity and configure the URL with API call like below. Basically we are supplying the values we have held in ForEach (received from SQL table via Lookup activity) after the controller/value part of API call.

General	Settings	User Properties
URL	@concat ('https://webapieee.azurewebsites.net/api/ User/', <u>string(item().id)</u>)	
Method *	GET	

4. *Brian Wang*: My lab doesn't support string() there, so remove it and working from my lab.

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[Web](#)

[Web1](#)

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URL: @concat('https://brianwanwebapp.azurewebsites.net/api/Products/', item().id)

Method: GET

Headers: + New

Datasets: Select... + New

+ Add dataset reference

Linkedservices: Select...

5. I had 3 values for id column in the SQL table. And you can see that API call was fired via web activity 3 times accordingly and returned corresponding records for id's.

NAME	TYPE	RUN START	DURATION	STATUS	ACTIONS	RUNID
Web1	WebActivity	09/24/2019 10:51 AM	00:00:01	✓ Succeeded	→ →	432df95e-08c6-4bfa-98ff-f76dbbac1a35
Web1	WebActivity	09/24/2019 10:51 AM	00:00:01	✓ Succeeded	→ →	c6c3f551-ed6c-4d98-9a24-49b6d010e238
Web1	WebActivity	09/24/2019 10:51 AM	00:00:01	✓ Succeeded	→ →	327acfc1-c68c-4bd1-983a-0e5355c4e14b
ForEach1	ForEach	09/24/2019 10:51 AM	00:00:05	✓ Succeeded	→	65c7d8fd-f47c-4216-8afa-fc8d30d423ad
Lookup1	Lookup	09/24/2019 10:51 AM	00:00:06	✓ Succeeded	→ →	992e97d6-4885-436f-8d21-1856a007d75a

6. Web Activity outputs.

Output

```
{  
  "id": 1,
```

Output

```
{  
  "id": 2,
```

Output

```
{  
  "id": 3,
```

Additional Information:

- **Icm References:**
- **Author:** muralird
- **Reviewer:** vimals, brianwan
- **Keywords:**

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