ForEach failing with the following error - InvalidTemplate: Array elements can only be selected using an integer index

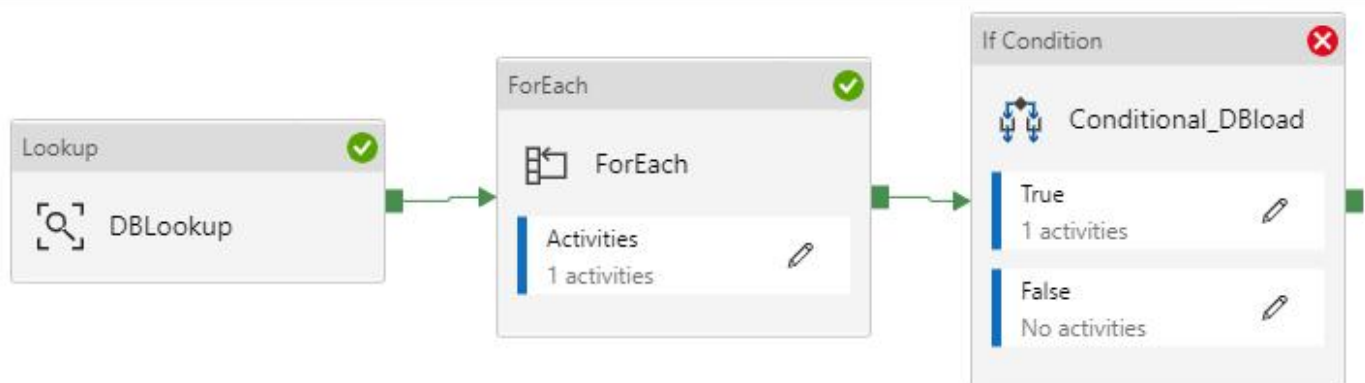Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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Issue

Customer was trying to read the output of a previous activity in ForEach loop, and the pipeline was failing with the following error:

```
{
'errorCode': 'InvalidTemplate',
'message': 'The execution of template action 'FilterDataFilter' failed: The evaluation of 'query' action 'wher
'failureType': 'UserError',
'target': 'DataFilter',
'details': ''
}
```


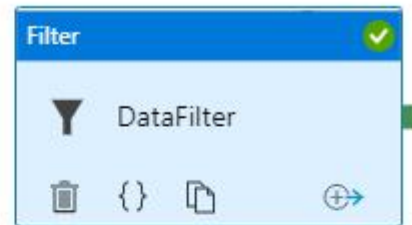The DBlookup activity output follows below:

Output

```
{
    "count": 2,
    "value": [
        {
            "Id": 1,
            "Name": "Customer",
            "Type": "Table",
            "Enabled": 1
        },
        {
            "Id": 2,
            "Name": "Department",
            "Type": "Table",
            "Enabled": 0
        }
    ],
    "effectiveIntegrationRuntime": "DefaultIntegrationRuntime (East US)",
    "billingReference": {
        "activityType": "PipelineActivity",
        "billableDuration": [
            {
                "meterType": "AzureIR",
                "duration": 0.0166666666666666666,
                "unit": "DIUHours"
            }
        ]
    },
    "durationInQueue": {
        "integrationRuntimeQueue": 10
    }
}
```

After look up activity user have Foreach, Inside first for-each activity, user have filter activity DataFilter activity provides an output

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00 Second_dbload > ⊟ ForEach

Filter   ✔

    ▼   DataFilter

    🗑   {}   ⧉   ⊕→

General   **Settings**   User properties

Items   `@activity('DBLookup').output.value`

Condition   `@equals(item().Enabled,1)`

Output

```
{
    "ItemsCount": 2,
    "FilteredItemsCount": 1,
    "Value": [
        {
            "Id": 1,
            "Name": "Customer",
            "Type": "Table",
            "Enabled": 1
        }
    ]
}
```

For the ifcondition activity customer has configured the expression to read the output of Filter activity in ForEach loop, and getting an error:

General   **Activities (1)**   User properties

Expression   @equals(activity('DataFilter').Output[0].value[0].Enabled,1)

Case	Activity
True	1 Activity
False	*No activities*

{ "errorCode": "InvalidTemplate", "message": "The expression 'equals(activity('DataFilter').Output.value[0]['Enabled'],1)' cannot be evaluated because property 'Output' cannot be selected. Array elements can only be selected using an integer index.", "failureType": "UserError", "target": "Conditional_DBload", "details": "" }
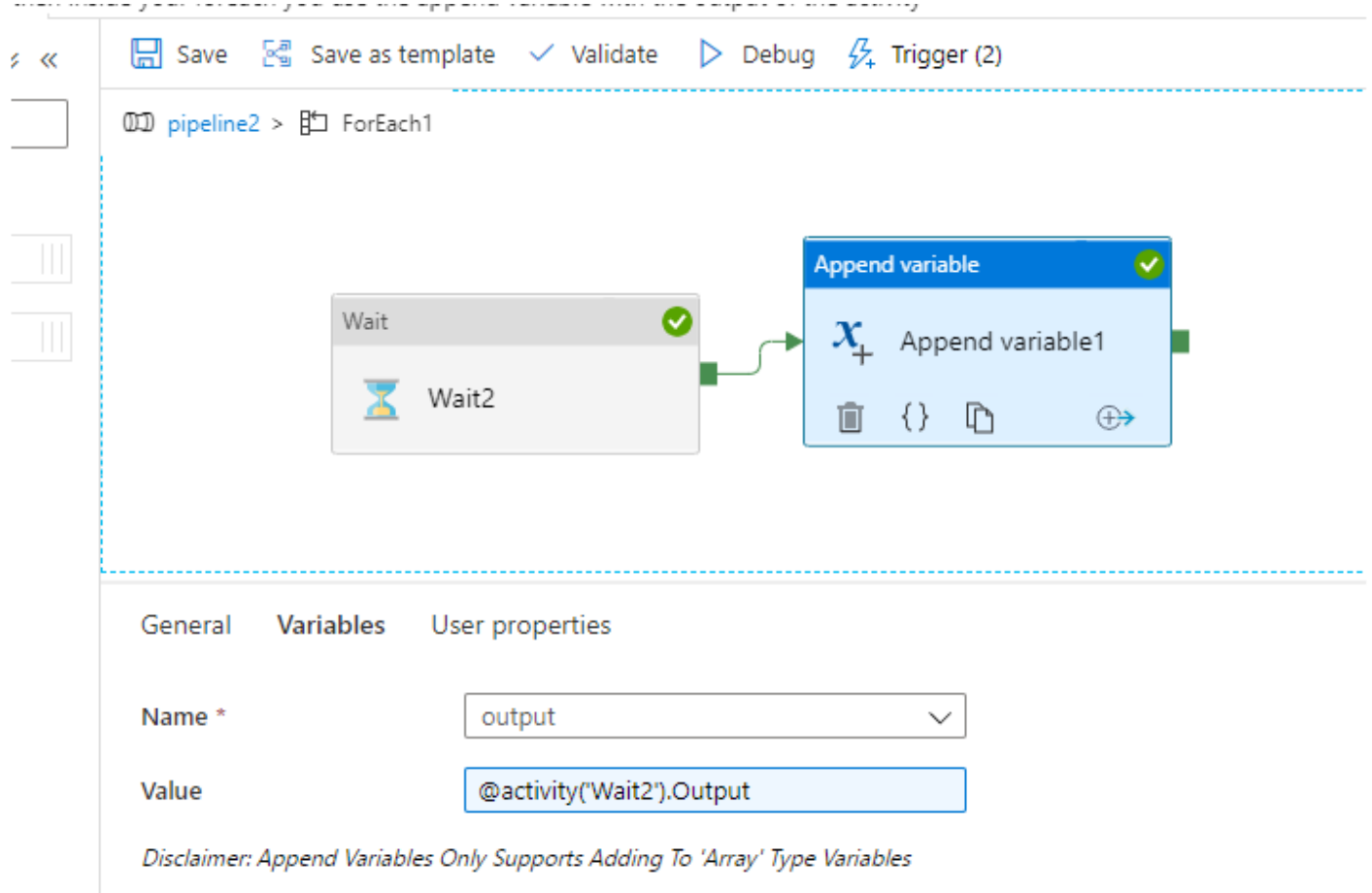
Resolution

The output of an activity inside the foearch is not accessible, to do that customer needs to do aggregation. Refer the below steps:

https://docs.microsoft.com/en-us/azure/data-factory/control-flow-for-each-activity#aggregating-outputs ☐

1. You need to declare a variable of type array:

Parameters   **Variables**   Output

＋ New   🗑 Delete

NAME	TYPE	DEFAULT VALUE
output	Array ⌄	Value

2. Inside your ForEach you use the append variable with the output of the activity

3. Finally outside you would just consume the variable you set

Additional Information:

- **Icm References:** Icm Link ⧉
- **Author:** vimals
- **Reviewer:** vimals
- **Keywords:**

How good have you found this content?