

Test Your Logic Using Developer Console

Because logic in Flows is
soooo easy, right?

Rita Leverett

TimbilaForce LLC

Founder and CEO



Facebook page: <https://www.facebook.com/TimbilaForceLLC>

Twitter: @RitaLeverett

LinkedIn: <https://www.linkedin.com/in/rita-leverett-6b616b4/>

Salesforce Success Community (Charity Music Inc)

Business Requirement

Background: Purchases for webinars, workbooks, and workshop were made in Stripe and the transactions sent to Salesforce via Zapier as Opportunities. Each transaction has a Description clearly stating if the purchase is for webinar, workbook, or workshop.

Need: Set the Opportunity Type (Webinar, Workbook, or Workshop) based on the Description field.

Solution: On record create, trigger a Process that uses the Opportunity Id to launch a Flow that finds the record, reads the Description, fills in the Type, and updates the Opportunity record.

First error email (part 1) – from PB

FlowApplication <info@salesforce.com>

Apr 26 (6 days ago)

to me 

Error element myRule_1_A1 (FlowActionCall).
An error occurred when executing a flow interview.

This report lists the elements that the flow interview executed. The report is a beta feature.
We welcome your feedback on [IdeaExchange](#).

Flow Details

Flow Name: Rename_Opportunity
Type: Workflow
Version: 11
Status: Active

Flow Interview Details

Interview Label: Rename_Opportunity-11_InterviewLabel
Current User: Rita Leverett (005360000021VvS)
Start time: 4/26/2017 8:39 PM
Duration: 1 seconds

First error email (part 2) - from PB

Flow Interview Details

Interview Label: Rename_Opportunity-11_InterviewLabel
Current User: Rita Leverett (005360000021VvS)
Start time: 4/26/2017 8:39 PM
Duration: 1 seconds

How the Interview Started

Rita Leverett (005360000021VvS) started the flow interview.
Some of this flow's variables were set when the interview started.
myVariable_old = null
myVariable_current = 0067A0000051EcFQAU

ASSIGNMENT: myVariable_waitStartTimeAssignment

{!myVariable_waitStartTimeVariable} Equals {!Flow.CurrentDateTime}

Result

{!myVariable_waitStartTimeVariable} = "4/26/2017 8:39 PM"

DECISION: myDecision

Executed this outcome: myRule_1

Outcome conditions: and

1. {!myVariable_current.Name} (Ben Pinegar) Is null false
2. {!myVariable_current.CloseDate} (March 8, 2017) Is null false

Logic: All conditions must be true (AND)

SET OPPORTUNITY_TYPE_FROM_DESCRIPTION (FLOWS): myRule_1_A1

Inputs:

varOppld = {!myVariable_current.Id} (0067A0000051EcFQAU)

Second error email (part 1) - from Flow

FlowApplication <info@salesforce.com>

Apr 26 (6 days ago) ☆



to me ▾

Error element Set_the_Opportunity_Type (FlowRecordUpdate).

The flow tried to update these records: 0067A0000051EcFQAU. This error occurred:

ALL_OR_NONE_OPERATION_ROLLED_BACK: Record rolled back because not all records were valid and the request was using AllOrNone header. For details, see [API Exceptions](#).

This report lists the elements that the flow interview executed. The report is a beta feature.

We welcome your feedback on [IdeaExchange](#).

Flow Details

Flow Name: Set_Opportunity_Type_from_Description

Type: Autolaunched Flow

Version: 3

Status: Active

Flow Interview Details

Interview Label: Set Opportunity Type from Description 4/26/2017 8:39 PM

Current User: Rita Leverett (005360000021VvS)

Start time: 4/26/2017 8:39 PM

Duration: 1 seconds

How the Interview Started

Rita Leverett (005360000021VvS) started the flow interview.

Some of this flow's variables were set when the interview started.

varOppId = 0067A0000051EcFQAU

Second error email (part 2) - from Flow

RECORD QUERY: Get_Opportunity_by_Id

Find one Opportunity record where:

Id Equals {!varOppId} (0067A0000051EcFQAU)

Result

Successfully found record.

{!varDescription} = Package of three 1 hour meetings (including pre and post-meetings): 2/21; 3/14 and #3 TBA

{!varOppType} = null

DECISION: What_Type

ASSIGNMENT: Opp_Type_is_Blank

{!varOppType} Equals

Result

{!varOppType} = ""

RECORD UPDATE: Set_the_Opportunity_Type

Find all Opportunity records where:

Type Is null true

Update the records' field values.

Type = {!varOppType} ()

Result

Failed to update records that meet the filter criteria.

Error Occurred: The flow tried to update these records: 0067A0000051EcFQAU. This error occurred:
ALL_OR_NONE_OPERATION_ROLLED_BACK: Record rolled back because not all records were valid and the request was using **AllOrNone** header. For details, see [API Exceptions](#).

PB “Rename Opportunity” launches Workflow “Set Opportunity Type from Description”

Process Builder - Rename Opportunity

← Back To Setup ? Help

Expand All Collapse All View All Processes Clone View Properties Deactivate Read Only ⓘ

```
graph TD; Start[Opportunity] --> Decision{Have Name and Close Date?}; Decision -- TRUE --> Actions[IMMEDIATE ACTIONS  
Set Opportunity Type]; Actions --> Next[EVALUATE THE NEXT CRITERIA]; Decision -- FALSE --> Connector[ ];
```

Launch a Flow

Action Name * ⓘ
Set Opportunity Type

Flow * ⓘ
Set Opportunity Type from Descr...

Set Flow Variables

Flow Variable *	Type *	Value *
varOppId	Reference ▼	[Opportunity].Id 🔍

Save Cancel

A closer look at the setup to launch the Flow

Launch a Flow

ACTION NAME 

Set Opportunity Type

Flow* 

Set Opportunity Type from Descr...

Set Flow Variables

Flow Variable*

varOppId

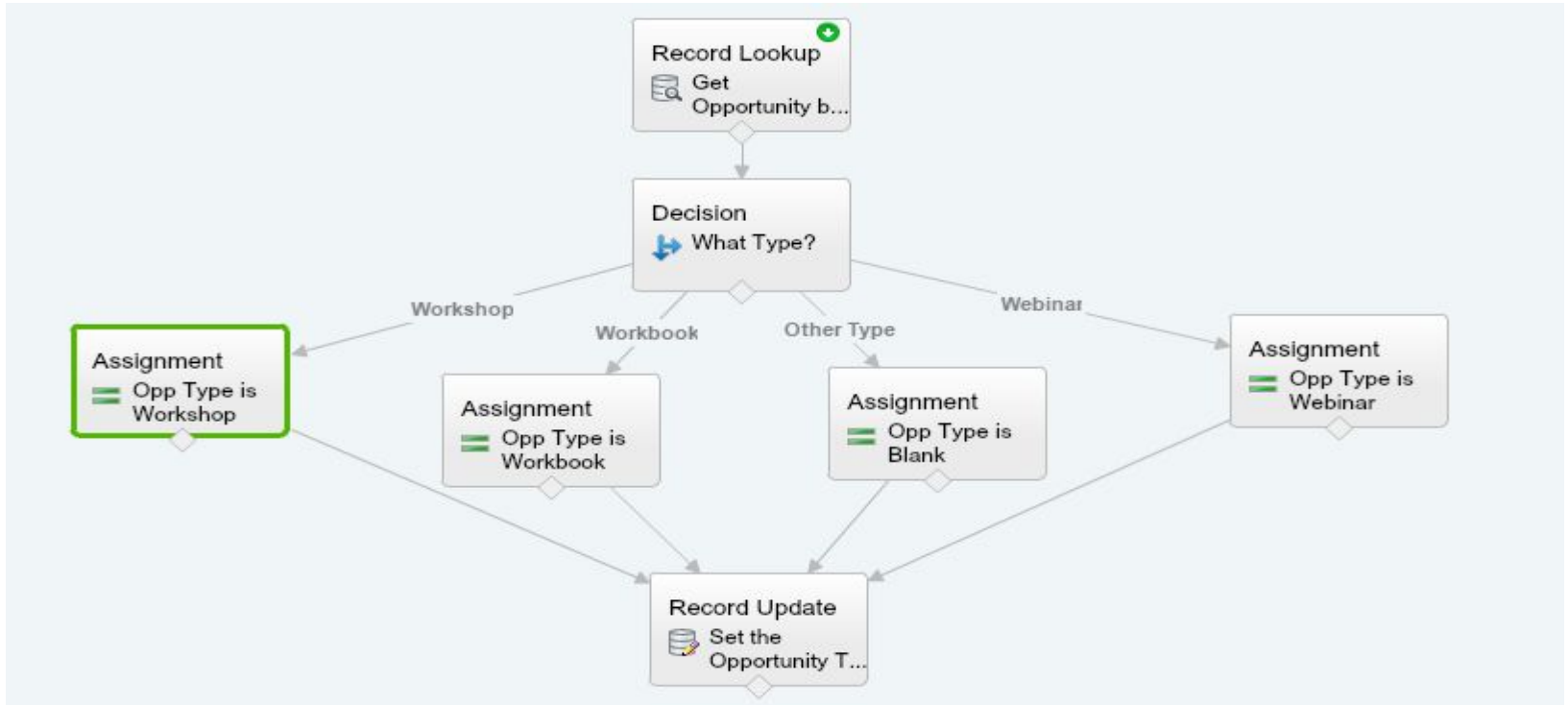
Type*

Reference 

Value*

[Opportunity].Id 

Flow - Set Opportunity Type from Description



Record Lookup part 1 - take the Id and find the Opportunity record just created by PB

Record Lookup

Use filters to find a specific record, then assign its fields to flow variables.

General Settings

Name *

Unique Name *

[Add Description](#)

Filters and Assignments

Look up * that meets the following criteria:

Field

Operator

Value

[Add Row](#)

Record Lookup part 2 - get that record's Description and Type

Sort results by:

Assign the record's fields to variables to reference them in your flow.

Field	Variable	
<input type="text" value="Description"/> <input type="button" value="v"/>	<input type="text" value="{!varDescription}"/> <input type="button" value="v"/>	<input type="button" value="x"/>
<input type="text" value="Type"/> <input type="button" value="v"/>	<input type="text" value="{!varOppType}"/> <input type="button" value="v"/>	<input type="button" value="x"/>

[Add Row](#)

Assign null values to the variable(s) if no records are found.

Record Update part 1

Record Update ✕

Use filters to find a specific record, then select fields to update.

▼ General Settings

Name *


Unique Name * i

Description

Record Update part 2 - Update the Type with the value from the Decision and Assignment nodes

▼ Filters and Assignments

Update * that meet the following criteria:

Field	Operator	Value	
<input type="text" value="Type"/>	<input type="text" value="is null"/>	<input type="text" value="{!\$GlobalConstant.True}"/>	

[Add Row](#)

Update record fields with variable, constant, input, or other values.

Field	Value
<input type="text" value="Type"/>	<input type="text" value="{!varOppType}"/>

[Add Row](#)

Uh-oh! Email said the record was found. Where is it?

```
SELECT Id, Name, Description, Type FROM Opportunity WHERE Id = '0067A0000051EcFQAU'
```

Query Results - Total Rows: 0

Id	Name	Description	Type
----	------	-------------	------

Query Grid: [Save Rows](#) [Insert Row](#) [Delete Row](#) [Refresh Grid](#)

Access in Salesforce: [Create New](#) [Open Detail Page](#) [Edit Page](#)

[Logs](#) [Tests](#) [Checkpoints](#) **Query Editor** [View State](#) [Progress](#) [Problems](#)

```
SELECT Id, Name, Description, Type FROM Opportunity  
WHERE Id = '0067A0000051EcFQAU'
```

History

Executed

SELECT Name from Campaign

SELECT Name, IsActive from Campaign

Any query errors will appear here...

SOQL query for all Opportunities - the ID is not found.

```
SELECT Id, Name, Description, Type FROM Opportunity
```

Query Results - Total Rows: 21

Id	Name	Description	Type
0067A0000004phEZQAY	Larry Becht Workshop 2017-03-23	Blah Blah Blah Workshop	Workshop
0067A0000004phMQQAY	Same Weird Thing 2017-03-23 Workbook 201...	Blah Blah Blah Workshop	Workbook
0067A00000051EoPQAU	Ben Pinegar 2017-03-08	Package of three 1 hour meetings (including ...	
0067A00000051EoQQAU	Chris Kisley Workbook 2017-03-11	ONE Thing workbook at no charge (2 x \$108)	Workbook
0067A00000051EoRQAU	Chris Kisley 2017-03-11	The ONE Thing Coaching 1/19/17 Session #1...	
0067A00000051EoSQAU	Chris Kisley Workshop 2017-03-27	Two day ONE Thing Workshop	Workshop
0067A00000051EoTQAU	Chris Kisley Workbook 2017-03-27	ONE Thing Workbook and The ONE Thing Boo...	Workbook
0067A00000051EoUQAU	Chris Kisley Workbook 2017-03-27	ONE Thing books (Chris and Barbara)	Workbook
0067A00000051EoVQAU	Chris Kisley 2017-03-27	RT Mileage 18916 Kanawha Dr., Cornelius, N...	
0067A00000051EoWQAU	Chris Kisley 2017-03-27	Courtyard Marriott Hotel for 2/16/17 stay for...	

Query Grid: [Save Rows](#) [Insert Row](#) [Delete Row](#) [Refresh Grid](#)

Access in Salesforce: [Create New](#) [Open Detail Page](#) [Edit Page](#)

[Logs](#) [Tests](#) [Checkpoints](#) [Query Editor](#) [View State](#) [Progress](#) [Problems](#)

```
SELECT Id, Name, Description, Type FROM Opportunity
```

Any query errors will appear here...

History

Executed

SELECT Subject FROM Task WHERE Subje...

SELECT Name from Campaign

Explanation: AllOrNone prevented record creation - ID no longer exists.

Error element Set_the_Opportunity_Type (FlowRecordUpdate).
The flow tried to update these records: 0067A0000051EcFQAU. This error occurred:
ALL_OR_NONE_OPERATION_ROLLED_BACK: Record rolled back because not all records were valid and the request was using AllOrNone header. For details, see [API Exceptions](#).

But it used to exist - record was found but broke on Record Update. Why?

How the Interview Started

Rita Leverett (005360000021VvS) started the flow interview.
Some of this flow's variables were set when the interview started.
varOppId = 0067A0000051EcFQAU

RECORD QUERY: Get_Opportunity_by_Id

Find one Opportunity record where:
Id Equals {!varOppId} (0067A0000051EcFQAU)

Result

Successfully found record.

{!varDescription} = Package of three 1 hour meetings (including pre and post-meetings): 2/21; 3/14 and #3 TBA

{!varOppType} = null

DECISION: What_Type

ASSIGNMENT: Opp_Type_is_Blank

{!varOppType} Equals

Result

{!varOppType} = ""

RECORD UPDATE: Set_the_Opportunity_Type

Find all Opportunity records where:

Type Is null true

Update the records' field values.

Type = {!varOppType} ()

Result

Failed to update records that meet the filter criteria.

Remember this from the Record Update? Write your Apex using the Type field.

▼ Filters and Assignments

Update * that meet the following criteria:

Field	Operator	Value	
<input type="text" value="Type"/>	<input type="text" value="is null"/>	<input type="text" value="{!\$GlobalConstant.True}"/>	

Add Row

Update record fields with variable, constant, input, or other values.

Field	Value
<input type="text" value="Type"/>	<input type="text" value="{!varOppType}"/>

Add Row

Flow snippet translated to Apex and SOQL

```
SELECT Id, Name, Description, Type FROM Opportunity WHERE Id = '0067A0000051EcFQAU'
```

Query Results - Total Rows: 0

Id

Enter Apex Code

```
1 Opportunity opp = new Opportunity();
2 opp = [SELECT Type FROM Opportunity];
3 System.debug(opp);|
4 //upsert opp;
```

Query Grid: Save Rows Insert Row Delete

Create New Open Def

Logs Tests Checkpoints Query

```
SELECT Id, Name, Description, Typ
WHERE Id = '0067A0000051EcFQAU'
```

History

Executed

Open Log Execute Execute Highlighted

SELECT Name from Cam

Oh snap! Why is it trying to make a list?

```
SELECT Id, Name, Description, Type FROM Opportunity WHERE Id = '0067A0000051EcFAU'
```

Query Results - Total Rows: 0

Id	Name	Description	Type
----	------	-------------	------

Execute Anonymous Error

Line: 2, Column: 1

System.QueryException: List has more than 1 row for assignment to SObject

OK

Because it needs the ID to get ONE record!

```
SELECT Id, Name, Description, Type FROM Opportunity WHERE Id = '0067A0000051EcPQAU'
```

Query Results - Total Rows: 0

Id

Enter Apex Code

```
1 Opportunity opp = new Opportunity();
2 opp = [SELECT Type FROM Opportunity
3         WHERE Id = '0067A0000051EoPQAU'];
4 System.debug(opp);
5 //upsert opp;
```

Query Grid: Save Rows Insert Row Delete

Logs Tests Checkpoints Query

```
SELECT Id, Name, Description, Type
WHERE Id = '0067A0000051EoPQAU'
```

Any query errors will appear here...

Type

Create New Open Detail Page Edit Page

History

Executed

SELECT Name, Parent.Name, IsActive fro...

SELECT Name, Parent.Name, Parent.Id, Is...

SELECT Id, Name, DeveloperName FROM ...

Open Log

Execute

Execute Highlighted

Ooh, this time something happened. Let's check the Debug Log.

Execution Log

Timestamp	Event	Details
14:40:35:001	USER_INFO	[EXTERNAL] 005360000021VvS rita@wpc.org.spring17 Eastern Standard Time GMT-04:00
14:40:35:001	EXECUTION_STA...	
14:40:35:001	CODE_UNIT_ST...	[EXTERNAL] execute_anonymous_apex
14:40:35:001	VARIABLE_SCO...	[1] opp Opportunity true false
14:40:35:001	HEAP_ALLOCATE	[72] Bytes:3
14:40:35:001	HEAP_ALLOCATE	[77] Bytes:152
14:40:35:001	HEAP_ALLOCATE	[342] Bytes:408
14:40:35:001	HEAP_ALLOCATE	[355] Bytes:408
14:40:35:001	HEAP_ALLOCATE	[467] Bytes:48
14:40:35:001	HEAP_ALLOCATE	[139] Bytes:6
14:40:35:001	HEAP_ALLOCATE	[EXTERNAL] Bytes:5

This Frame Executable Debug Only Filter

Logs Tests Checkpoints **Query Editor** View State Progress Problems

```
SELECT Id, Name, Description, Type FROM Opportunity
WHERE Id = '0067A0000051EoPQAU'
```

History

Executed

SELECT Name, Descrpt Name, ToAction fra


Success! This was just read-only but a data upsert would have worked here.

Execution Log		
Timestamp	Event	Details
14:40:35:008	USER_DEBUG	[4]DEBUG Opportunity:{Id=0067A0000051EoPQAU, RecordTypeId=01236000000SDfAAAW}

Add the ID field set equal to the original variable sent from Process Builder.

▼ General Settings



Name *

Unique Name * 

Description

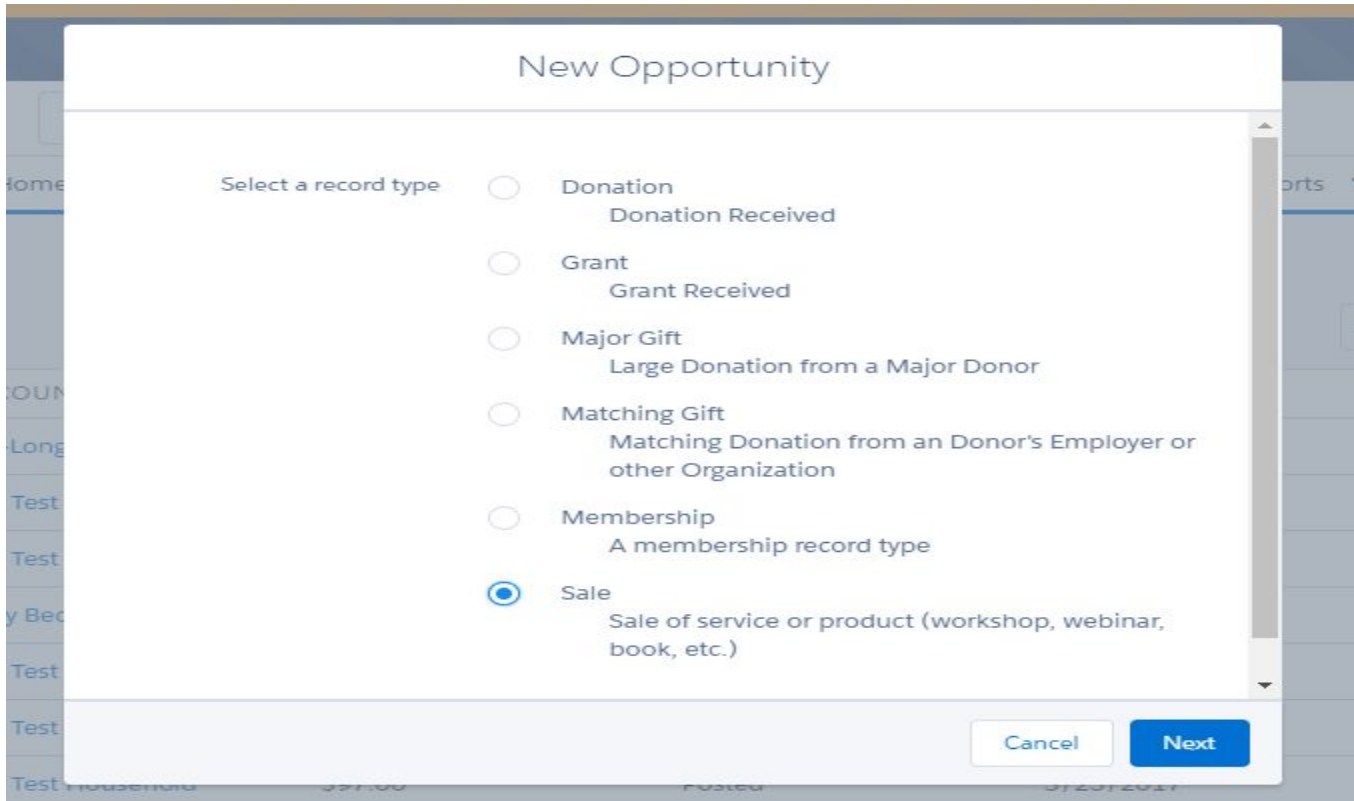
▼ Filters and Assignments

Update * that meet the following criteria:

Field	Operator	Value	
<input type="text" value="Id"/>	<input type="text" value="equals"/>	<input type="text" value="{!varOppld}"/>	
<input type="text" value="Type"/>	<input type="text" value="is null"/>	<input type="text" value="{!\$GlobalConstant.True}"/>	

[Add Row](#)

Let's test with a new Sales Opportunity



New Opportunity

Select a record type

- Donation
Donation Received
- Grant
Grant Received
- Major Gift
Large Donation from a Major Donor
- Matching Gift
Matching Donation from an Donor's Employer or other Organization
- Membership
A membership record type
- Sale
Sale of service or product (workshop, webinar, book, etc.)

Cancel Next

Use one of the keywords in the Description

* Close Date

5/4/2017



Probability (%)

100%

Lead Source

--None--



Type

--None--



Batch

Search Batches

Description

This is the important part where a **Workshop** may be involved.

Success!

Bruce Wayne Workshop 2017-05-04

[+ Follow](#)[Edit](#)[Quick Update](#)[New Payment](#)

Primary Contact 

Thomas Wayne 

Amount 

Close Date


5/4/2017 

Lead Source 

Type

Workshop 

Description

This is the important part where a **Workshop** may be involved. 

Primary Contact Campaign Member Status 

Stage 

Posted 

Probability (%)

100% 

Batch 



BUSINESS INSIDER · 1h



FOX E

[See More News](#)



 Contact Roles (3+) 

 Thomas Wayne PRIMARY 

Role: Donor

Title:

 Bruce Wayne 

Role: Household Member

Title:

 Damian Wayne 

Questions?

Thank you!

