

Topic updated on September 21, 2023

Example using Local DB Select action

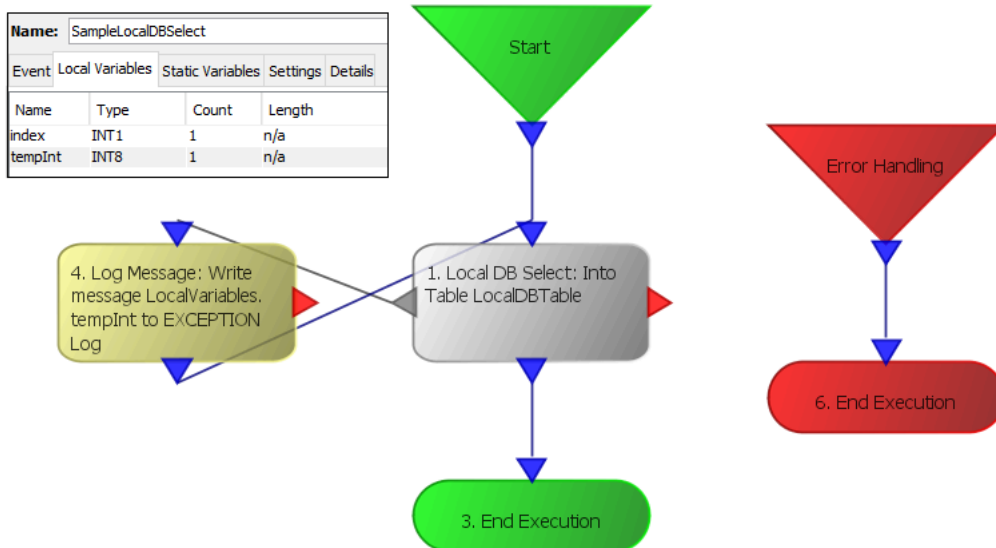
Assumptions

The following is assumed:

- You know how to create a trigger and add actions to that trigger using the Canvas Editor. For more information on the Canvas Editor, see [Using the Canvas Editor](#).
- You are familiar with Structured Query Language (SQL) and relational databases.

Retrieving data from a local database table using Local DB Select

This example describes a trigger that when executed retrieves rows from a local database table using the **Local DB Select** action. The following shows a portion of the sample trigger:



The sample trigger has a **Local DB Select** action and **Log Message** action.

Using the **Local DB Select** action, each column can be mapped to a variable (including trigger variables and device variables).

1. Local DB Select

SELECT: *

FROM: LocalDBTable

WHERE: C_INTEGER < 10000 or C_INTEGER > \$(max)

GROUP BY:

Max Rows: 10

Return Result as Array: False

Input Output Routing Details

Output

Name	Logical	Count	Value	Type
C_REAL	FLOAT8	1		
C_INTEGER	INT8	1	LocalVariables.index	INT8
C_NUMERIC	INT8	1		
C_TEXT	STRING(32)	1		
Error Message	STRING(128)	1		
Rows Selected	INT4	1		
Row Index	INT4	1		

In order to process the data retrieved, the **Local DB Select** action must iterate through the rows returned by the SQL Select operation. You can process the column values for each row using the **Next Row** option on the **Local DB Select** action **Routing** tab. The last action on the **Next Row** route must be routed to the **Local DB Select** action.

1. Local DB Select

SELECT: *

FROM: LocalDBTable

WHERE: C_INTEGER < 10000 or C_INTEGER > \$(max)

GROUP BY:

Max Rows: 10

Return Result as Array: False

Input Output Routing Details

Routing

On Result	Go to
Success	3. End Execution (Success)
Failure	UNDEFINED
Next Row	4. Log Message: Write message LocalVariables.index to EXCEPTION Log

For this example, there is only one action to execute from the **Next Row** route. The **Log Message** action **Success** route is returning to the **Local DB Select** action.

4. Log Message

Message Type: EXCEPTION

Message Level: INFO

Component: User Trigger

Message: \$(Message)

Input Routing Details

Routing

On Result	Go to
Success	1. Local DB Select: Into Table LocalDBTable
Failure	UNDEFINED

When there are no more rows to process and no errors encountered, the logic flow from the **Local DB Select** action will follow the **Success** route. The number of times the **Next Row** route will be executed is given by the values returned in **Rows Selected**. The **Row Index** keeps track of the current row being processed.

Related topics

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