



# Query Advanced

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WINSHUTTLE  
USER  
GROUP

ANNUAL  
CONFERENCE  
ATLANTA 2017

## Course Objectives



- Work with SAP data source types to further leverage Winshuttle Query against more complex business processes.
- Publish a Winshuttle Query to enhance the Runner experience.
- Troubleshoot a Winshuttle Query

# Agenda



- Query Essentials
- Advanced Query tools
- Runner and the Excel Add-In
- Troubleshooting a Query
- Query to Transaction round trip

# Agenda



- **Query Essentials**
  - Recording a Query
  - Alternate Data Sources
- Advanced Query tools
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- Query to Transaction round trip

# Record a Query

- Record an SAP Transaction Code

### Create a Script

Transaction   **Query**   Direct

Query : Choose a Creation Method

Create from Tables   Create from Infoset   Create from Logical Database   **Create from Recording**

Create from Template

### Instructions for creating a new Query from recording.

Detailed Info For Create From Recording.

SAP system : UK2   [Log Off](#)

SAP user : scotm

Status : **Connected**

Transaction Code :

Recording Description :

Data type :

Data file :

Script File :

# Record a Query

- Tables are returned

Recorded Transaction Codes (RC)

- VA01(Sales Order)
  - KNA1 (General Data in Customer Master)
  - MARA (General Material Data)
  - VBAK (Sales Document: Header Data)
  - VBAP (Sales Document: Item Data)
  - VBKD (Sales Document: Business Data)

- Fields are selected

# Agenda



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  - **Alternate Data Sources**
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# Alternate Data Sources

- Querying InfoSets/Queries
  - Global Area/ Standard Area
  - Search Data Dictionary

The screenshot shows the SAP Query tool interface. The main window is titled 'WPG\_MARA\_MAKT (Material and Description)'. It has tabs for 'Workspace', 'Criteria', 'Runtime', and 'Mapper'. Below the tabs is a 'Find Fields' search box. A table lists various fields with checkboxes for 'Output' and 'Criteria'. The fields include 'MARA-MATNR' (Material Number), 'MARA-MTART' (Material Type), 'MAKT-MAKTX' (Material Description (Short Text)), 'MAKT-SPRAS' (Language Key), 'TEXT\_MARA\_MATNR' (Text:Material Number), 'TEXT\_MARA\_MTART' (Text:Material Type), and 'TEXT\_MAKT\_SPRAS' (Text:Language Key). To the right of the main window is a 'Search for InfoSet/Query' panel. It has a dropdown for 'Global Area' and 'SAP InfoSets'. The search term 'WPG\_MARA\_MAKT' is entered in the search box. Below the search box is a 'User Group' field and a 'Search' button. At the bottom of the interface, there are tabs for 'Lists', 'Data Preview', 'Data Set', and 'Search Results'. The 'Search Results' tab is active, showing a message 'Found 1 results in SAP Data Dictionary.' and a table with one row: 'WPG\_MARA\_MAKT' (Material and Description) with 'UserGroup' as '---'.

| Output                   | Criteria                 | Name            | Description                       | Type   | Length |
|--------------------------|--------------------------|-----------------|-----------------------------------|--------|--------|
| <input type="checkbox"/> | <input type="checkbox"/> | MARA-MATNR      | Material Number                   | String | 18     |
| <input type="checkbox"/> | <input type="checkbox"/> | MARA-MTART      | Material Type                     | String | 4      |
| <input type="checkbox"/> | <input type="checkbox"/> | MAKT-MAKTX      | Material Description (Short Text) | String | 40     |
| <input type="checkbox"/> | <input type="checkbox"/> | MAKT-SPRAS      | Language Key                      | String | 2      |
| <input type="checkbox"/> | <input type="checkbox"/> | TEXT_MARA_MATNR | Text:Material Number              | String | 40     |
| <input type="checkbox"/> | <input type="checkbox"/> | TEXT_MARA_MTART | Text:Material Type                | String | 25     |
| <input type="checkbox"/> | <input type="checkbox"/> | TEXT_MAKT_SPRAS | Text:Language Key                 | String | 16     |

| InfoSet/Query Name | InfoSet/Query Description | UserGroup |
|--------------------|---------------------------|-----------|
| WPG_MARA_MAKT      | Material and Description  | ---       |

# Alternate Data Sources

- Querying Logical Databases

The screenshot shows the SAP Query workspace with the 'Criteria' tab selected. A 'Find Fields' dialog is open, displaying a table of fields from the 'VAKPA (Sales Index: Orders by Partner Function)' logical database. Below the dialog, a search results table shows 11 results found in the Local Data Dictionary. On the right, a tree view displays the structure of the 'SD\_SALES\_DOCUMENT' logical database, including various data nodes like VBAK, VBUP, and VBAK.

| Key | Output                   | Criteria                            | Name  | Description                 | Type   | Length |
|-----|--------------------------|-------------------------------------|-------|-----------------------------|--------|--------|
|     | <input type="checkbox"/> | <input type="checkbox"/>            | KUNDE | Partner number (KUNNR, LI)  | String | 10     |
|     | <input type="checkbox"/> | <input checked="" type="checkbox"/> | PARVV | Partner Function            | String | 2      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | VKORG | Sales Organization          | String | 4      |
|     | <input type="checkbox"/> | <input checked="" type="checkbox"/> | TRVOG | Transaction group           | String | 1      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | AUDAT | Document Date (Date Receiv) | Date   | 8      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | VKBUR | Sales Office                | String | 4      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | VKGRP | Sales Group                 | String | 3      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | VTWEG | Distribution Channel        | String | 2      |
|     | <input type="checkbox"/> | <input type="checkbox"/>            | SPART |                             | String |        |

  

| LDB Name          | LDB Description                           | LDB Node Name | LDB Node Name               |
|-------------------|---|---------------|-----------------------------|
| SD_SALES_DOCUMENT | Logical database for inquiries, contracts | VBAK          | Sales Document: Header Data |
| SD_SALES_DOCUMENT |   | VBAP          |                             |

# Agenda



- Query Essentials
- Advanced Query tools
  - **Transforms**
  - **“IN” operator**
  - **Left outer join**
- Runner and the Excel Add-In
- Troubleshooting a Query
- Query to Transaction round trip

# Transforms

Shift Down Add Transform Write Headers Restore Mapping Preview Run Number of Entries

Editing Sheet Headers and Mapping Run Time

Workspace Criteria Run Time **Mapper**

| Output                              | Field description                                 | Field name         | Type & Length | Map Direction | Mapped to column |
|-------------------------------------|---|--------------------|---------------|---------------|------------------|
| <input checked="" type="checkbox"/> | Log cell  | Log cell           |               |               | A1               |
| <input checked="" type="checkbox"/> | <b>Material Number</b>                            | <b>MARA .MATNR</b> | String 18     |               | B                |
| <input checked="" type="checkbox"/> | Material description in upper case for matchcodes | MAKT .MAKTG        | String 40     |               | C                |
| <input checked="" type="checkbox"/> | Language Key                                      | MAKT .SPRAS        | String 1      |               | D                |

**Transform Rule** X

MATNR  
Material Number  
String, 18

Transform Rule:

**i** Type or copy and paste an Excel formula from your data sheet, using individual cell references. For example, type =SUM(A2,B2) to upload the sum of columns A and B to this field. The formula will be automatically applied to the complete column during the run.

Add the transformed value to the data file:

Cell:

Transform Original Mapping

# “IN” Operator

The screenshot shows the SAP Query workspace and the List Builder dialog. In the workspace, the 'Criteria' tab is active. The 'Material Number - MATNR' criterion is highlighted in yellow, with the operator 'In' selected in a dropdown menu. The 'Language Key - SPRAS' criterion is also visible with the operator '='. The List Builder dialog is open, showing 'List applied to: MATNR' and 'Type of list: Static Value List'. The dialog contains a table with one row and two columns: 'Value' and 'Description'. The 'Value' column contains the number '1'. Buttons for 'Delete', 'Import', 'OK', and 'Cancel' are visible.

Workspace: Criteria | Run Time | Mapper

Find all items: +

Material Number - MATNR

MARA.MATNR In

Language Key - SPRAS

MAKT.SPRAS =

List Builder

List applied to: MATNR

Type of list: Static Value List | Dynamic Lookup List

Delete | Import

|   | Value | Description |
|---|-------|-------------|
| 1 |       |             |

OK | Cancel

# “IN” Operator

List Builder

List applied to: MATNR

Type of list:  Static Value List  Dynamic Lookup List

List source:  Current Data Set File  Linked Excel or Text File

Configure Dynamic List

Create dynamic list from current dataset file

File name and path: \\seafiles\Home\dmauliffe\Training\WUG\Demo Content\Query Advanced Options.2

Import rows: From: 1 through: End

Trim Spaces:  Trim leading spaces  Trim trailing spaces

Import Columns: Value: A Description:

|    | A        | B                             | C   |           |
|----|----------|-------------------------------|---|-----------|
| 1  | Log Cell | MARA.MATNR<br>Material Number | MAKT.MAKTG<br>Material description in upper case for matchcodes | MA<br>Lan |
| 2  |          |                               |   |           |
| 3  |          |                               |   |           |
| 4  |          |                               |   |           |
| 5  |          |                               |   |           |
| 6  |          |                               |   |           |
| 7  |          |                               |   |           |
| 8  |          |                               |   |           |
| 9  |          |                               |   |           |
| 10 |          |                               |   |           |
| 11 |          |                               |   |           |
| 12 |          |                               |   |           |

OK Cancel

# Left Outer Join

Workspace Criteria Run Time Mapper

**MARA (General Material Data)**

| Key | Output                              | Criteria                            | Name:<br>Description          | Type<br>Length |
|-----|-------------------------------------|-------------------------------------|-------------------------------|----------------|
|     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | MATNR<br>Material Number      | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | MTART<br>Material Type        | String<br>4    |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | MATKL<br>Material Group       | String<br>9    |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | BISMT<br>Old material number  | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | VHART<br>Packaging Material T | String<br>4    |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | SATNR<br>Cross-Plant Configur | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | PMATA<br>Pricing Reference Ma | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | MFRPN<br>Manufacturer Part N  | String<br>40   |
|     | <input type="checkbox"/>            | <input type="checkbox"/>            | MFRNR<br>Number of a Manufa   | String<br>10   |

**MARC (Plant Data for Material)**

| Key | Output                              | Criteria                 | Name:<br>Description           | Type<br>Length |
|-----|-------------------------------------|--------------------------|--------------------------------|----------------|
|     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | MATNR<br>Material Number       | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | WERKS<br>Plant                 | String<br>4    |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | DISPR<br>Material: MRP profile | String<br>4    |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | DISPO<br>MRP Controller (Mati  | String<br>3    |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | NFMAT<br>Follow-Up Material    | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | PRCTR<br>Profit Center         | String<br>10   |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | STDPD<br>Configurable materic  | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | VRBMT<br>Reference material fc | String<br>18   |
|     | <input type="checkbox"/>            | <input type="checkbox"/> | VRBWK<br>Reference plant for c | String<br>4    |

Left outer join  
Left outer join

# Agenda



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# Runner Excel Add-In

## Publishing a Script

Run completed. Records downloaded: 5

Query Advanced Options.xlsx is opened in read-only mode because it is locked for editing by another program. [Retry](#)

| A   | B                             | C   | D | E | F | G | H | I | J | K | L | M | N |
|---|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Log Winshuttle Studio 11.3<br>SAP System: Client: SAP User - WE6:800:dmcauliffe<br>Mode - Table; Script Name - Query Advanced Options.Qsq<br>Records extracted - 5<br>Date and Time - 9/14/2017 3:02:04 PM<br>Execution Time - 00:00:01<br>Run Reason - | MARA.MATNR<br>Material Number | MAKT.MAKTG<br>Material description in upper case for matchcodes |   |   |   |   |   |   |   |   |   |   |   |
| 1   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 2   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 3   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 4   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 5   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 6   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 7   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 8   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 9   |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 10  |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 11  |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 12  |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 13  |                               |   |   |   |   |   |   |   |   |   |   |   |   |
| 14  |                               |   |   |   |   |   |   |   |   |   |   |   |   |

# Runner Excel Add-In



Query Advanced Options - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW DEVELOPER New Tab Winshuttle for Journal Entry Winshuttle Run

David Log on to SAP Winshuttle SAP Files: Data Settings Run Settings Actions Developer Settings

Query Advanced Opti... Info Write Headers Start Row: 2  
 Query Adva... Lookup Values #Records: All  
 Write Records Log cell: A1 Run Number of Entries Schedule Developer Settings

C11

|    | A   | B                                    | C  | D | E | F |
|----|---|--------------------------------------|--|---|---|---|
| 1  | Log Winshuttle Studio 11.3<br>SAP System: Client: SAP User - WE6:800:dmcauliffe<br>Mode - Table; Script Name - Query Advanced Options.Qsq<br>Records extracted - 5<br>Date and Time - 9/14/2017 3:02:04 PM<br>Execution Time - 00:00:01<br>Run Reason - | <b>MARA.MATNR</b><br>Material Number | <b>MAKT.MAKTG</b><br>Material description in upper case for matchcodes |   |   |   |
| 2  |   | 100-100                              | CUP HOLDER CCC   |   |   |   |
| 3  |   | 100-102                              | TEST 4   |   |   |   |
| 4  |   | 100-103                              | T1ESTING 3   |   |   |   |
| 5  |   | 100-104                              | T1ESTING 3   |   |   |   |
| 6  |   | 100-105                              | SAD  |   |   |   |
| 7  |   |                                      |  |   |   |   |
| 8  |   |                                      |  |   |   |   |
| 9  |   |                                      |  |   |   |   |
| 10 |   |                                      |  |   |   |   |

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- Query Essentials
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- **Troubleshooting a Query**
- Query to Transaction round trip

# Troubleshooting a query

**Data Browser: Initial Screen**

Table Name:

**Data Browser: Table MARA: Selection Screen**

Number of Entries

Material:  to

Created On:  to

Created by:  to

Changed by:  to

Complete status:  to

Maint. status:  to

DF client level:  to

Material Type:  to

Industry sector:  to

Material Group:  to

Base Unit:  to

Document:  to

Prod.hierarchy:  to

Mfr Part Number:  to

Width of Output List:

Maximum No. of Hits:

**Data Browser: Table MARA Select Entries 1**

Check Table...

| Cl. | Material | Created    | Created by | Last Chg   | Changed by | Complete status | Maint. status | Cl. | MTyp | I | Matl Group | Old material no. | BUn | OUn | Document | Type | Vers | Page | Ch.no |
|-----|----------|------------|------------|------------|------------|-----------------|---------------|-----|------|---|------------|------------------|-----|-----|----------|------|------|------|-------|
| 800 | 100-102  | 01/15/2009 | DIVYAK     | 08/16/2017 | RCRACIUN   | KVEDLBXGCP SQZ  | KVEDLBGCP SQ  |     | HAWA | M | 01001      | DP20103778       | ST  |     |          |      |      |      |       |

# Agenda



- Query Essentials
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- Troubleshooting a Query
- **Query to Transaction round trip**

# Query to Transaction Round Trip



File View Workspace Criteria Map Run

Add Table Remove Table Search for tables Inspect Table Show in Data Dictionary Find Joining Table Convert Join Remove Join Remove from List Move Up in List Move Down in List Move to Top of List Move to Bottom of List

Workspace Table Tools Joins List Operations Run Time

Workspace Criteria Run Time Mapper

**MARA (General Material Data)**

| Key                                 | Output (1)                          | Criteria                 | Name/Description           | Type/Length |
|-------------------------------------|-------------------------------------|--------------------------|----------------------------|-------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | MATNR Material Number      | String 18   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | MTART Material Type        | String 4    |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | MATKL Material Group       | String 9    |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | BISMT Old material number  | String 18   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | VHART Packaging Material T | String 4    |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | SATNR Cross-Plant Configur | String 18   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | PMATA Pricing Reference Ma | String 18   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | MFRPN Manufacturer Part N  | String 40   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | MFRNR Number of a Manufa   | String 10   |

**MAKT (Material Descriptions)**

| Key                                 | Output (1)               | Criteria                            | Name/Description               | Type/Length |
|-------------------------------------|--------------------------|-------------------------------------|--------------------------------|-------------|
| <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | MATNR Material Number          | String 18   |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SPRAS Language Key             | String 1    |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | MAKTG Material description in  | String 40   |
| <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | MAKTX Material Description (Sh | String 40   |

File View Map Run

Cut Copy Paste (Insert Before) Delete Enabled Comment Undo Shift Down Shift Up Paste Require Data Allowed Values Add Transform Change Mapping Direction Change Building Type Skip Screen if Not P... Create Loop Create Condition Auto Map Unlock Headers Allow Validation Add Long Text Add File Attachment... Find Restore Mapping Synchronize

Editing Screen and Field Settings Loops and Conditions Sheet Headers Advanced Features

| S.No | Enable                              | Description   | Name                 | Type & Length | Mapping                             | Value             |
|------|-------------------------------------|---|----------------------|---------------|-------------------------------------|-------------------|
| 4    | <input checked="" type="checkbox"/> | SAPLMGMM - 0060 - Initial screen: matl no, industry sector, matl type, etc. |                      |               |                                     |                   |
| 5    | <input checked="" type="checkbox"/> | Cursor position on the screen   | BDC_CURSOR           | (cursor)      | <input checked="" type="checkbox"/> | RMMG1-MATNR       |
| 6    | <input checked="" type="checkbox"/> | OK code for this screen   | BDC_OKCODE           | (ok code)     | <input checked="" type="checkbox"/> | /00               |
| 7    | <input checked="" type="checkbox"/> | Material Number   | RMMG1-MATNR          | STRING 18     | <input checked="" type="checkbox"/> | B                 |
| 8    | <input checked="" type="checkbox"/> | SAPLMGMM - 0070 - View selection  |                      |               |                                     |                   |
| 9    | <input checked="" type="checkbox"/> | Cursor position on the screen   | BDC_CURSOR           | (cursor)      | <input checked="" type="checkbox"/> | MSICHTAUSW-DYT... |
| 10   | <input checked="" type="checkbox"/> | OK code for this screen   | BDC_OKCODE           | (ok code)     | <input checked="" type="checkbox"/> | =RESA             |
| 11   | <input checked="" type="checkbox"/> | SAPLMGMM - 0070 - View selection  |                      |               |                                     |                   |
| 12   | <input checked="" type="checkbox"/> | Cursor position on the screen   | BDC_CURSOR           | (cursor)      | <input checked="" type="checkbox"/> | MSICHTAUSW-DYT... |
| 13   | <input checked="" type="checkbox"/> | OK code for this screen   | BDC_OKCODE           | (ok code)     | <input checked="" type="checkbox"/> | =ENTR             |
| 14   | <input checked="" type="checkbox"/> | Checkbox  | MSICHTAUSW-KZSEL(01) | STRING 1      | <input checked="" type="checkbox"/> | X                 |
| 15   | <input checked="" type="checkbox"/> | SAPLMGMM - 4004 - Main screens with 10 subscreens (tab page)                |                      |               |                                     |                   |
| 16   | <input checked="" type="checkbox"/> | OK code for this screen   | BDC_OKCODE           | (ok code)     | <input checked="" type="checkbox"/> | =BU               |
| 17   | <input checked="" type="checkbox"/> | Cursor position on the screen   | BDC_CURSOR           | (cursor)      | <input checked="" type="checkbox"/> | MAKT-MAKTX        |
| 18   | <input checked="" type="checkbox"/> | Material Description (Short Text)   | MAKT-MAKTX           | STRING 40     | <input checked="" type="checkbox"/> | E=CONCATEN...     |

Data Set

Excel Round trip Que... Unlock Headers

| Locked Headers To write headers in Excel, click Unlock Headers  |                                |   |   |  |
|---|--------------------------------|---|---|--|
| A   | B                              | C   | D   | E  |
| Log Winshuttle Studio 11.3<br>SAP System: Client: SAP User - WE6R00:dscauliffe<br>Mode - Table: Script Name - Round trip Query.Qsq<br>Records extracted - 20<br>Date and Time - 9/14/2017 3:26:33 PM<br>Execution Time - 00:01:33<br>Run Reason - | Material Number<br>RMMG1-MATNR | MAKT-MAKTG<br>Material description in upper case for matchcodes | Log Winshuttle Studio 11.3<br>SAP System: Client: SAP User - WE6R00:dscauliffe<br>Script Name - Transaction round trip.Trx<br>Mode - Standard (Non Batch without controls)<br>Start Row - 2<br>Number of Errors - 0 Records Uploaded - 1<br>Date and Time - 9/14/2017 3:35:57 PM<br>Execution Time - 00:00:01<br>Run Reason - | Material Description (Short Text)<br>MAKT-MAKTG<br>Evaluation Formula<br>{=CONCATENATE(C2,"-X")} |
| 1   |                                |   |   |  |
| 2   |                                |   |   |  |
| 3   |                                |   |   |  |
| 4   |                                |   |   |  |
| 5   |                                |   |   |  |



# Hands On Practice

WINSHUTTLE  
USER  
GROUP

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ATLANTA 2017

## Navigation for Practice

[www.winshuttleacademy.com](http://www.winshuttleacademy.com)

Username: Your email address

Password: Training1

1. Click
2. Click see **Current Learning**
3. Select item to practice (wait a few seconds)
4. Click Standard Tutorial



Questions?

