Using Microsoft Excel with Winshuttle Query

William Berardelli | DAP Products Inc.

Using Microsoft Excel with Winshuttle Query

You will see a few examples of DAP's application of Winshuttle TRANSACTION and QUERY and how, added with a little Excel VBA, they have helped us successfully maintain our established level of user experience when providing data to our users. Let's take a look at how DAP's I.T. Department was able to leverage this tool in the short time it has been available to us.

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For those of you who don't know DAP…

Brands	Categories	#1 Products	Customers	Primary channels
DAP PHENOPATCH DAP THE SPEC LINE WHAT THE JOB DEMANDS.™	• #1 in caulk & sealants • #1 in patch & repair • Adhesives		• Do-It-Yourselfers • Residential contractors • Industrial / OEM • Pro installer	• "Big box" home centers • Co-ops • Mass merchandisers • Independent hardware & paint • Lumber and building material • The Spec Line

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Our Parent and Sister Companies…

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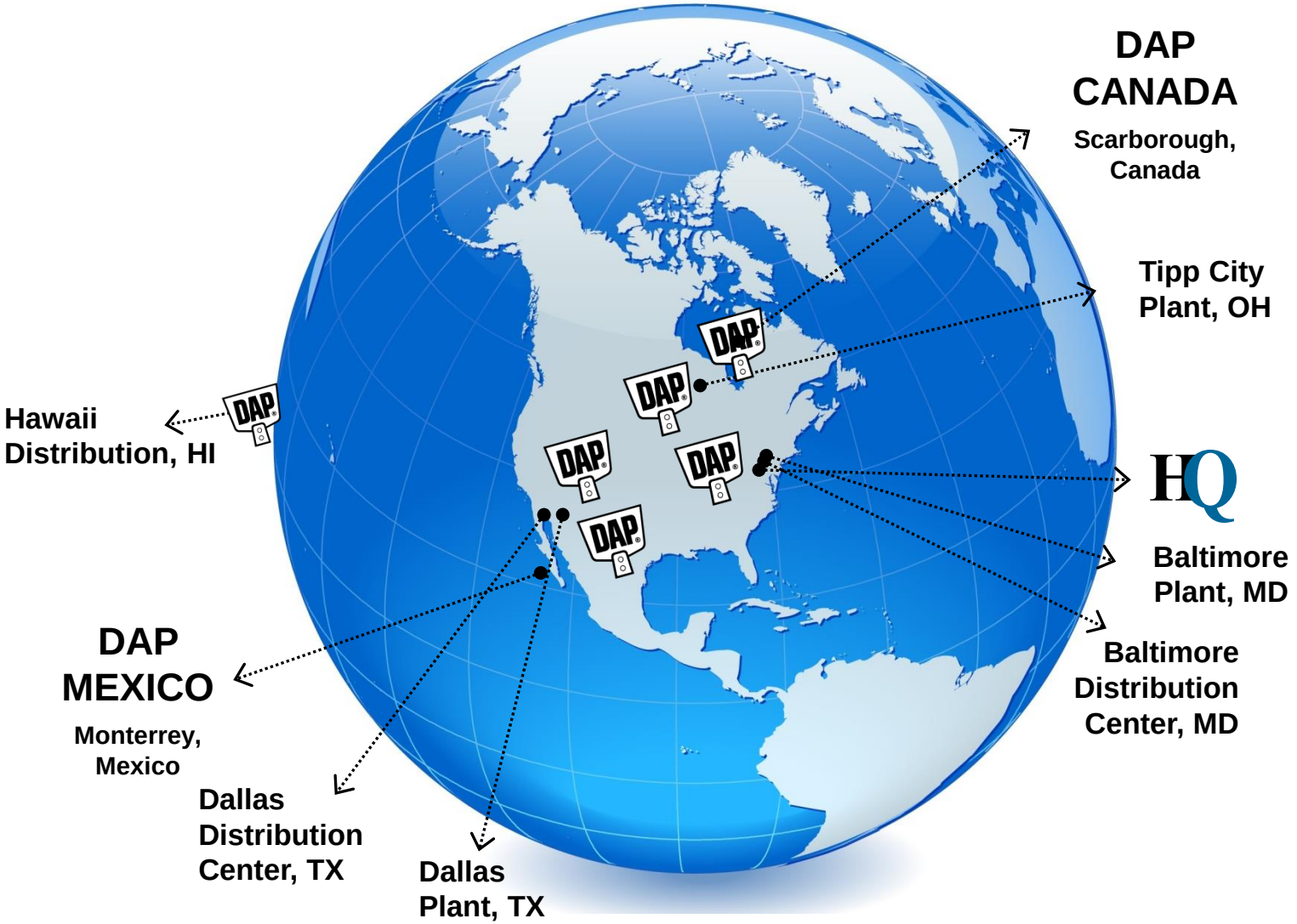
Where we are…


DAP CANADA
Scarborough, Canada
Tipp City Plant, OH
Hawaii Distribution, HI
HQ
Baltimore Plant, MD
Baltimore Distribution Center, MD
DAP MEXICO
Monterrey, Mexico
Dallas Distribution Center, TX
Dallas Plant, TX

Headquarters located in Baltimore, Maryland

Distribution Network – Over 60,000 Retail Outlets

HOME CENTERS

THE HOME DEPOT

MENARDS

LOWE'S
Let's Build Something Together

MASS MERCHANTS

Walmart
Save money. Live better.

TARGET

kmart

Sears

PAINT

AkzoNobel
Tomorrow's Answers Today

Dunn-Edwards PAINTS

ALLPRO

KELLY-MOORE PAINTS

ACE

True Value
START RIGHT. START HERE.

Do it Best

LUMBER

PROBuild

McCOY'S BUILDING SUPPLY

Builders FirstSource

DISTRIBUTORS

ORGILL
Worldwide Distribution & Retail Services

LANCASTER

DISTRIBUTION AMERICA
the distribution services company

Celebrating 50 years PRO
Hardware • Building Supply

VAL-TEST

GRAINGER
FOR THE ONES WHO GET IT DONE

HD SUPPLY

INTERLINE BRANDS

DAP's IT systems and SAP implementation

- 12 associates in the I.T. Department, 4 on the infrastructure side, 8 on the applications side
- Approximately 300 users located in our facilities and about 40 remote sales associates.
- User access is from laptops, workstations and mobile devices, or through Windows Terminal Services
- Went live with SAP Financials and Procurement on December 1st of 2012
- SAP and ERP system, our application and file servers, all run on IBM Power Systems servers

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Challenges

Realizing our main systems were no longer able to keep the pace with our growing business requirements, DAP looked to SAP, with its continuous investment in product innovation and best practices, to enable us to reach our goals and overcome obstacles.

- Phased SAP implementation
  our first being completed in December of 2012
- Transitional period with our business systems
  must create and maintain data interfaces
- Continue to support our associate's needs
  provide data support efficiently and in a cost-effective manner

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Challenges

We needed help. Help with:

- Transferring data from our old systems into SAP.
- Getting data out of SAP to feed legacy systems.
- Maintaining data integrity between SAP and our legacy systems.
- Supplying our users with SAP data

Solution!

Winshuttle supplied us with a solution to many of these issues. Our implementation partner utilized Winshuttle TRANSACTION to perform the following:

- 3,700 vendor master records
- 3,000 info recs
- 7,900 material master records
- 3,800 open purchase orders
- 3,000 source lists

These transactions represent approximately 1,000 hours of manual data entry time!

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Results

On our own, with just these three applications of TRANSACTION, DAP has been able to save nearly 170 man hours of manual entry time and ensure the integrity of the data.

TRANSACTION SCRIPT DESCRIPTION	NUMBER OF RECORDS TO PROCESS	AVERAGE TIME TO MANUALLY ENTER A RECORD INTO SAP (SEC)	TIME TO UPLOAD A RECORD INTO SAP USING WINSHUTTLE TRANSACTION (SEC)	TIME SAVED PER RECORD (SEC)	TOTAL TIME SAVED (SEC)	MANUAL TIME (HH:MM)	WINSHUTTLE TIME (HH:MM)	TOTAL TIME SAVED (HH:MM)
CUSTOMER NOTES FROM J.D. EDWARDS TO SAP (FB02)	2,916	120	3.0	117.0	341,172	97:12	02:26	94:46
INVOICE NOTES FROM J.D. EDWARDS TO SAP (FB03)	67	120	1.0	119.0	7,973	02:14	00:01	02:13
MATERIAL PRICE STANDARDS CHANGES (MR21)*	5,961	45	0.2	44.8	267,053	74:31	00:20	74:11
*Performed Yearly								

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Microsoft® Excel

&

WINSHUTTLE™

SAP®

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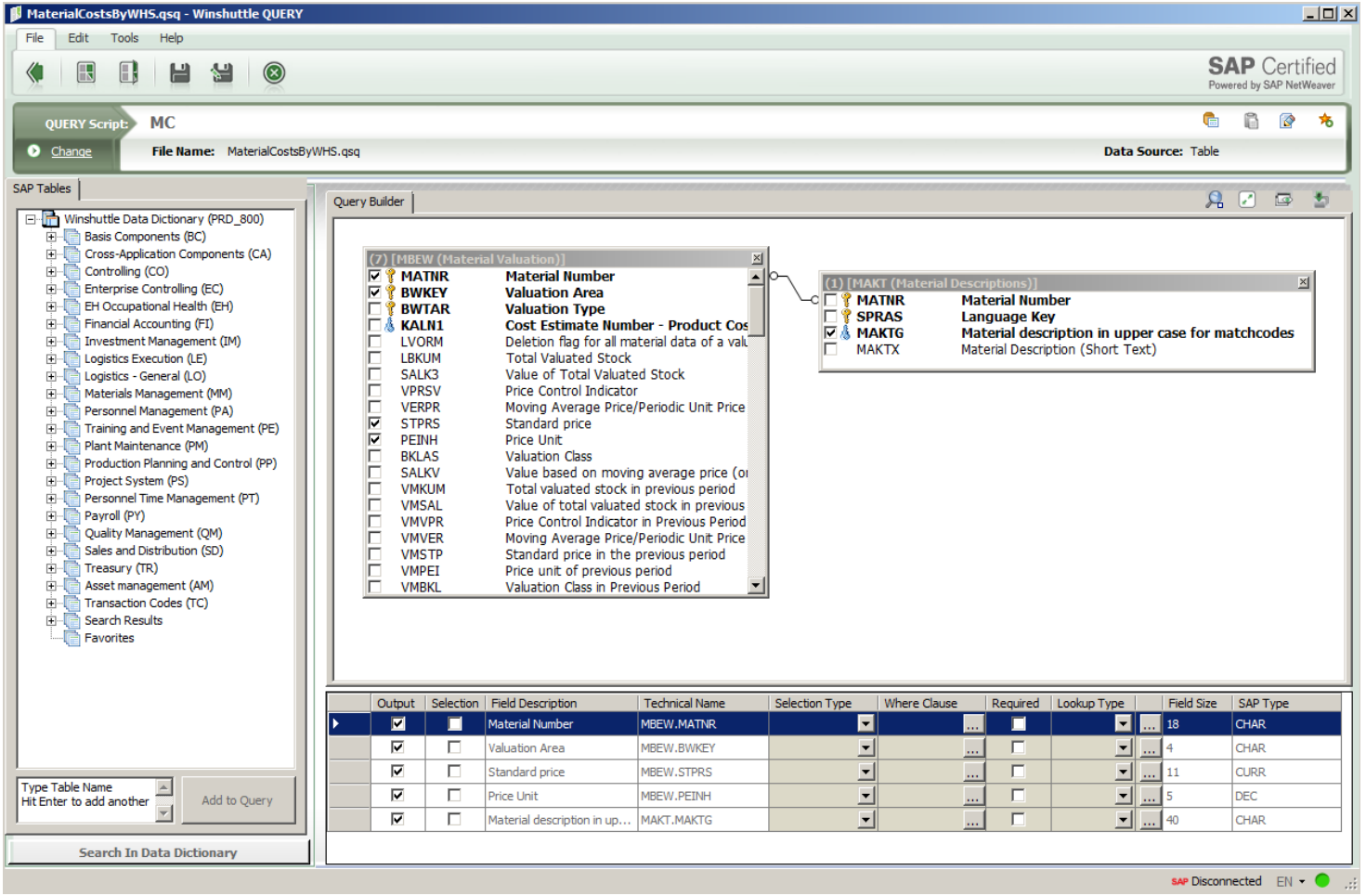
Using Microsoft Excel with Winshuttle Query

#1 Query Builder: Graphically specify tables, fields & criteria that comprise the data



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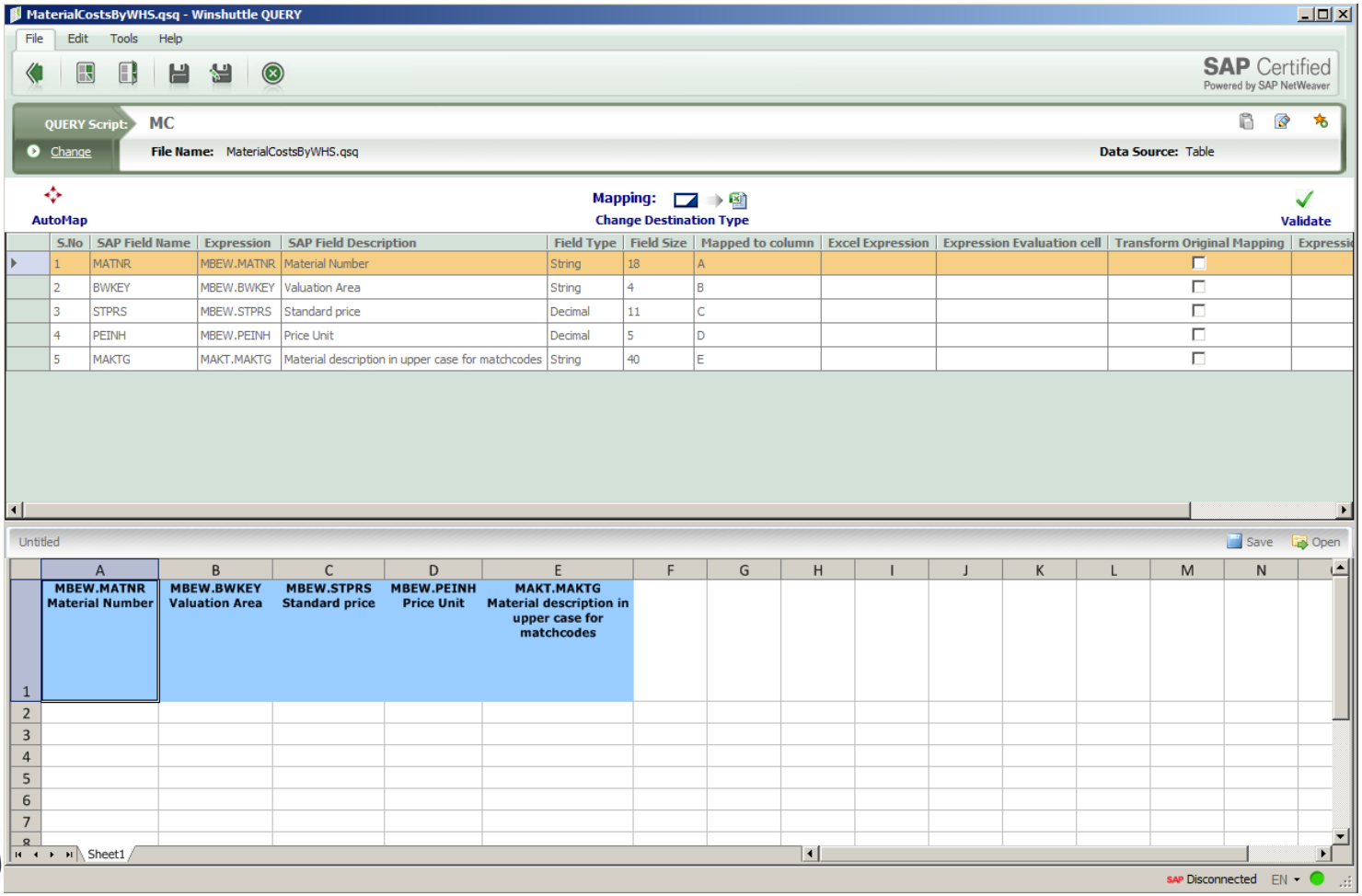
#2 Mapping: Manipulate the fields as they are populated to the spreadsheet



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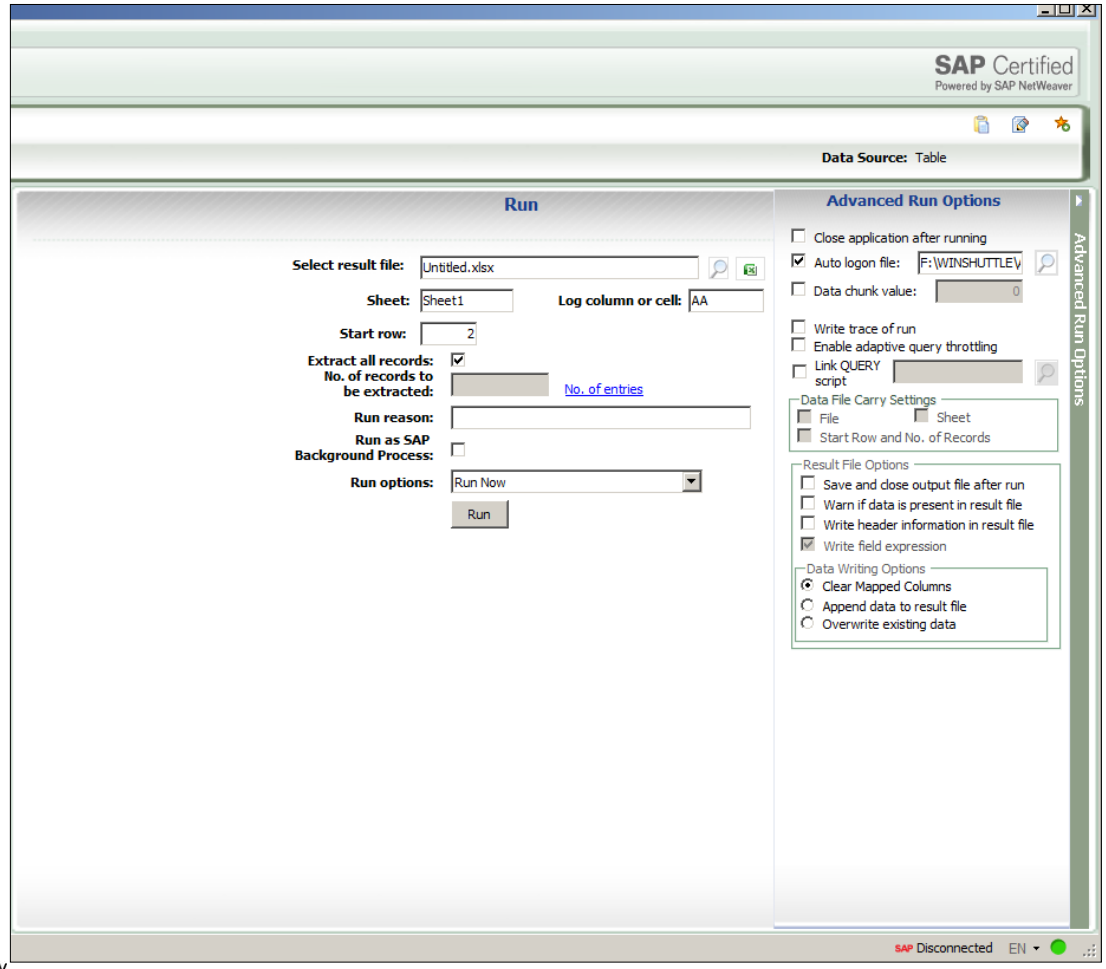
#3 Run: Manage various processing attributes of the query



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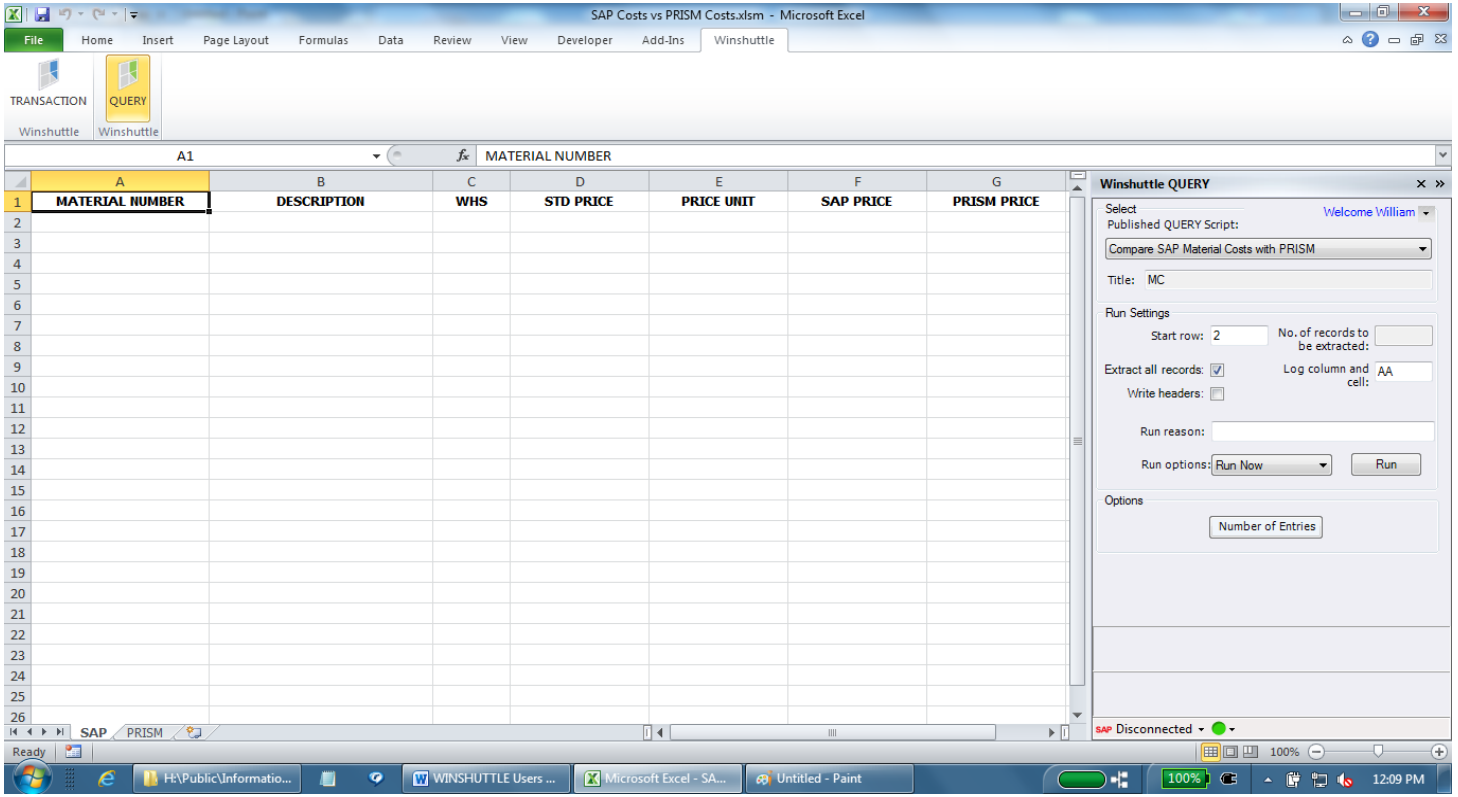
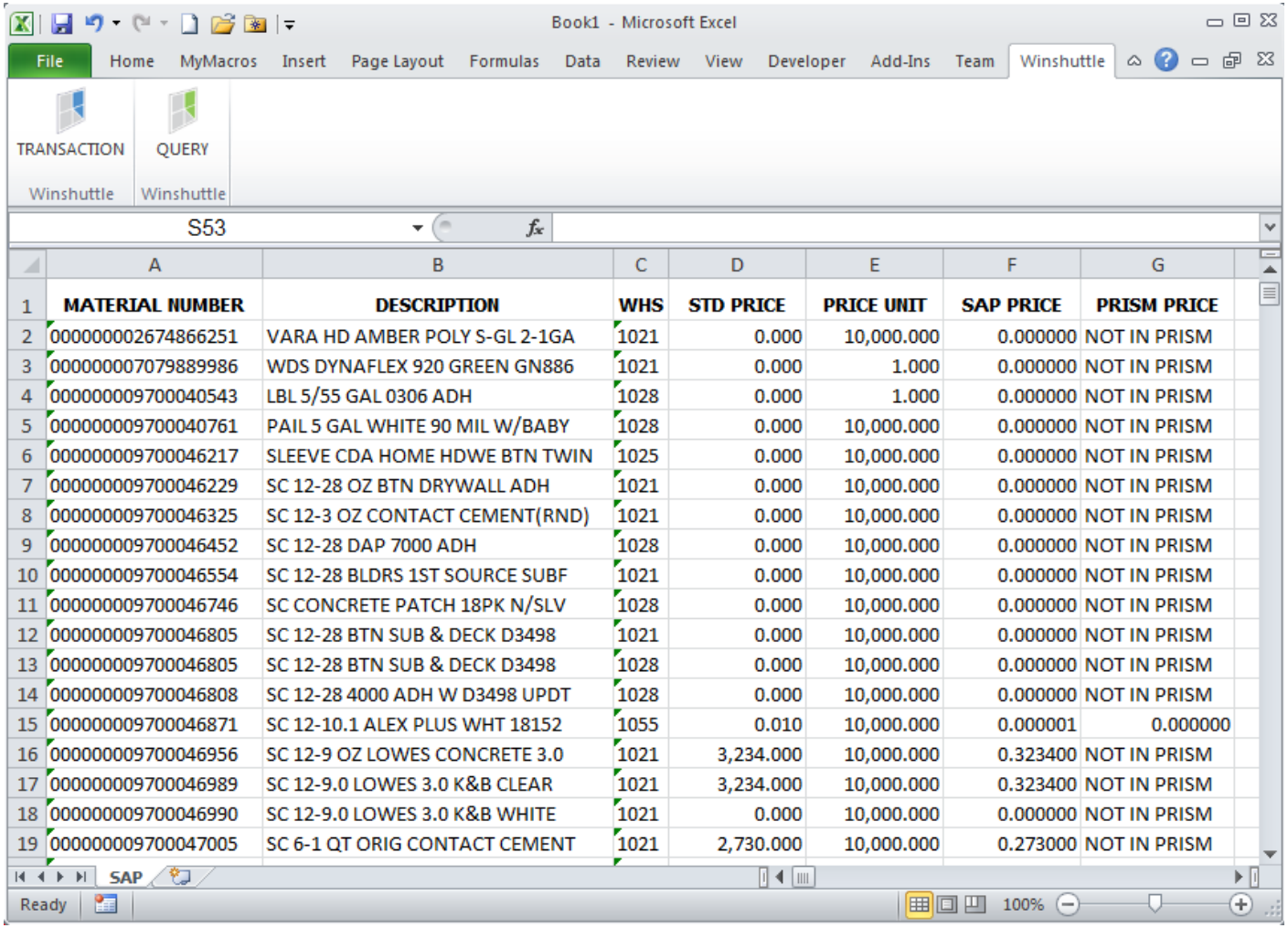
Report to show cost discrepancies between our SAP and ERP systems. Winshuttle Query is published to Excel and run from the Add In pane. VBA takes over once the query is done.



Using Microsoft Excel with Winshuttle Query



	A	B	C	D	E	F	G
1	MATERIAL NUMBER	DESCRIPTION	WHS	STD PRICE	PRICE UNIT	SAP PRICE	PRISM PRICE
2	000000002674866251	VARA HD AMBER POLY S-GL 2-1GA	1021	0.000	10,000.000	0.000000	NOT IN PRISM
3	000000007079889986	WDS DYNAFLEX 920 GREEN GN886	1021	0.000	1.000	0.000000	NOT IN PRISM
4	000000009700040543	LBL 5/55 GAL 0306 ADH	1028	0.000	1.000	0.000000	NOT IN PRISM
5	000000009700040761	PAIL 5 GAL WHITE 90 MIL W/BABY	1028	0.000	10,000.000	0.000000	NOT IN PRISM
6	000000009700046217	SLEEVE CDA HOME HDWE BTN TWIN	1025	0.000	10,000.000	0.000000	NOT IN PRISM
7	000000009700046229	SC 12-28 OZ BTN DRYWALL ADH	1021	0.000	10,000.000	0.000000	NOT IN PRISM
8	000000009700046325	SC 12-3 OZ CONTACT CEMENT(RND)	1021	0.000	10,000.000	0.000000	NOT IN PRISM
9	000000009700046452	SC 12-28 DAP 7000 ADH	1028	0.000	10,000.000	0.000000	NOT IN PRISM
10	000000009700046554	SC 12-28 BLDRS 1ST SOURCE SUBF	1021	0.000	10,000.000	0.000000	NOT IN PRISM
11	000000009700046746	SC CONCRETE PATCH 18PK N/SLV	1028	0.000	10,000.000	0.000000	NOT IN PRISM
12	000000009700046805	SC 12-28 BTN SUB & DECK D3498	1021	0.000	10,000.000	0.000000	NOT IN PRISM
13	000000009700046805	SC 12-28 BTN SUB & DECK D3498	1028	0.000	10,000.000	0.000000	NOT IN PRISM
14	000000009700046808	SC 12-28 4000 ADH W D3498 UPDT	1028	0.000	10,000.000	0.000000	NOT IN PRISM
15	000000009700046871	SC 12-10.1 ALEX PLUS WHT 18152	1055	0.010	10,000.000	0.000001	0.000000
16	000000009700046956	SC 12-9 OZ LOWES CONCRETE 3.0	1021	3,234.000	10,000.000	0.323400	NOT IN PRISM
17	000000009700046989	SC 12-9.0 LOWES 3.0 K&B CLEAR	1021	3,234.000	10,000.000	0.323400	NOT IN PRISM
18	000000009700046990	SC 12-9.0 LOWES 3.0 K&B WHITE	1021	0.000	10,000.000	0.000000	NOT IN PRISM
19	000000009700047005	SC 6-1 QT ORIG CONTACT CEMENT	1021	2,730.000	10,000.000	0.273000	NOT IN PRISM

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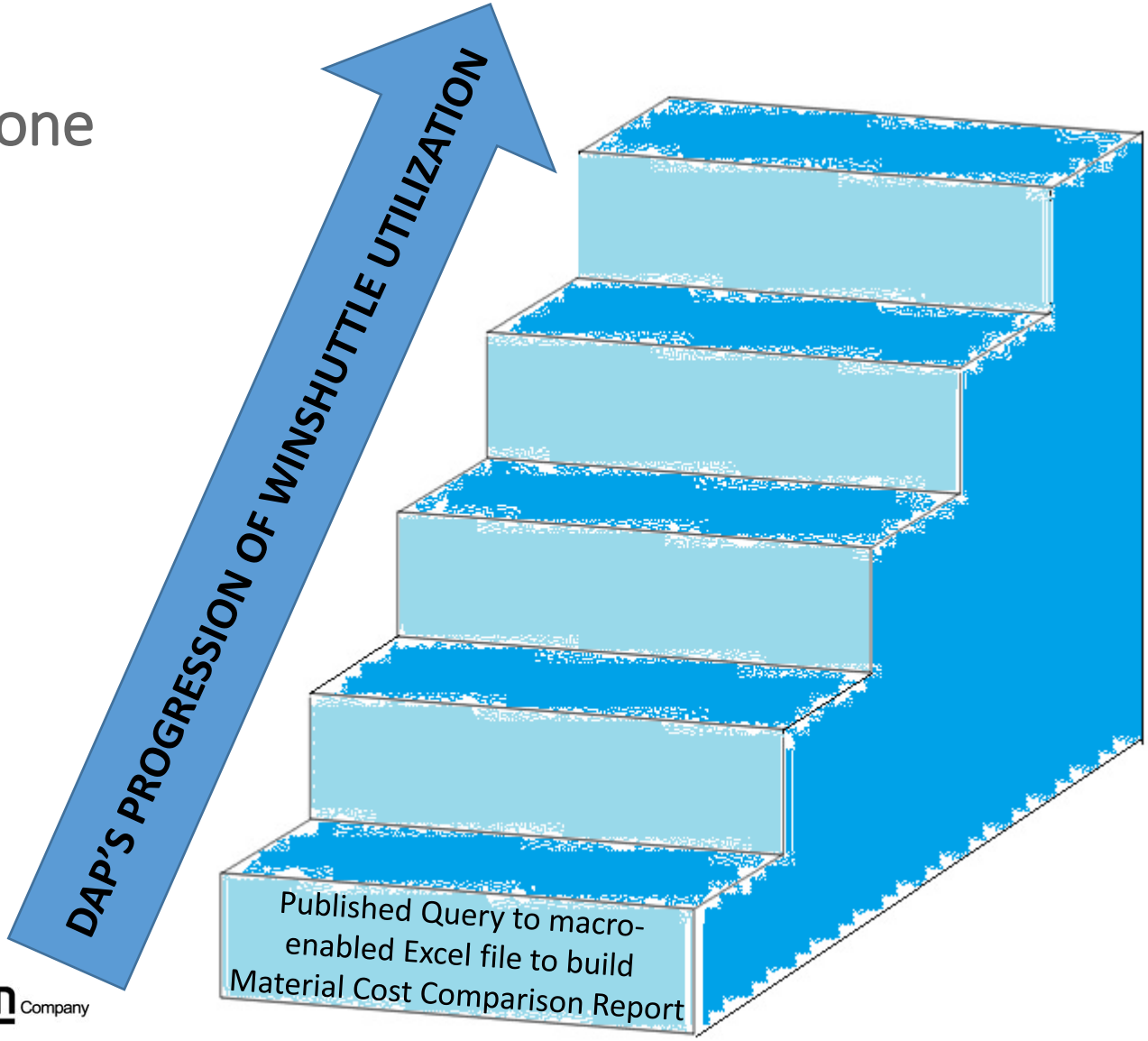
Milestone



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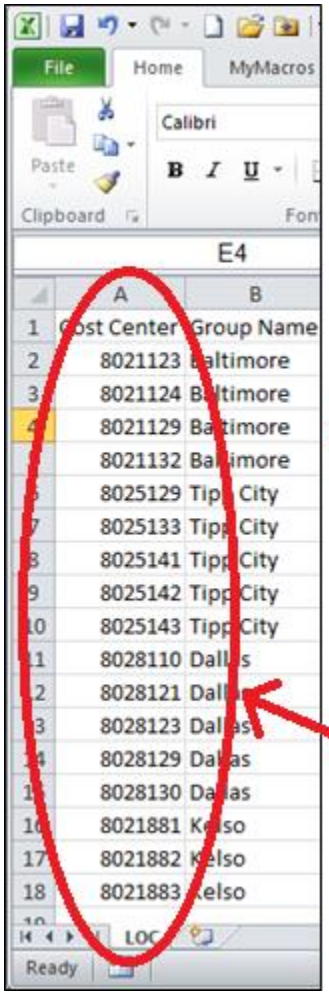
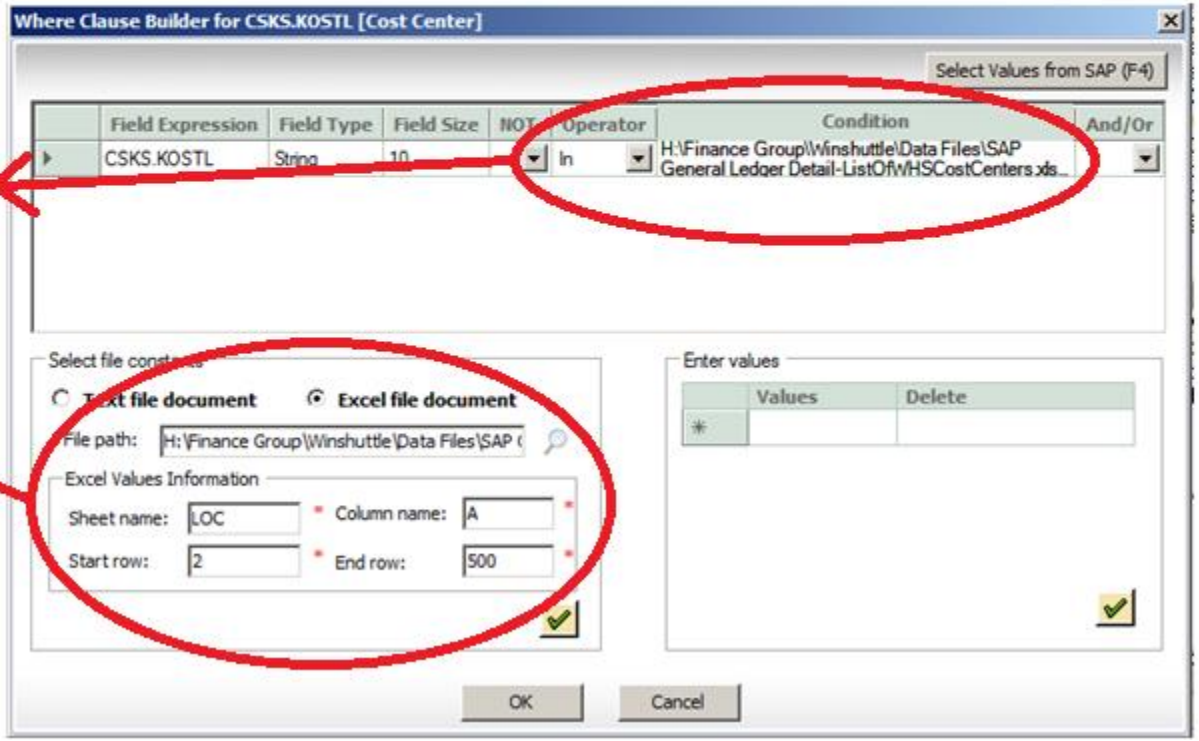


Since there is a list, and the operator in my where clause is 'IN', Winshuttle Query allows me to reference this external listing of values as part of the criteria in its SQL statement.



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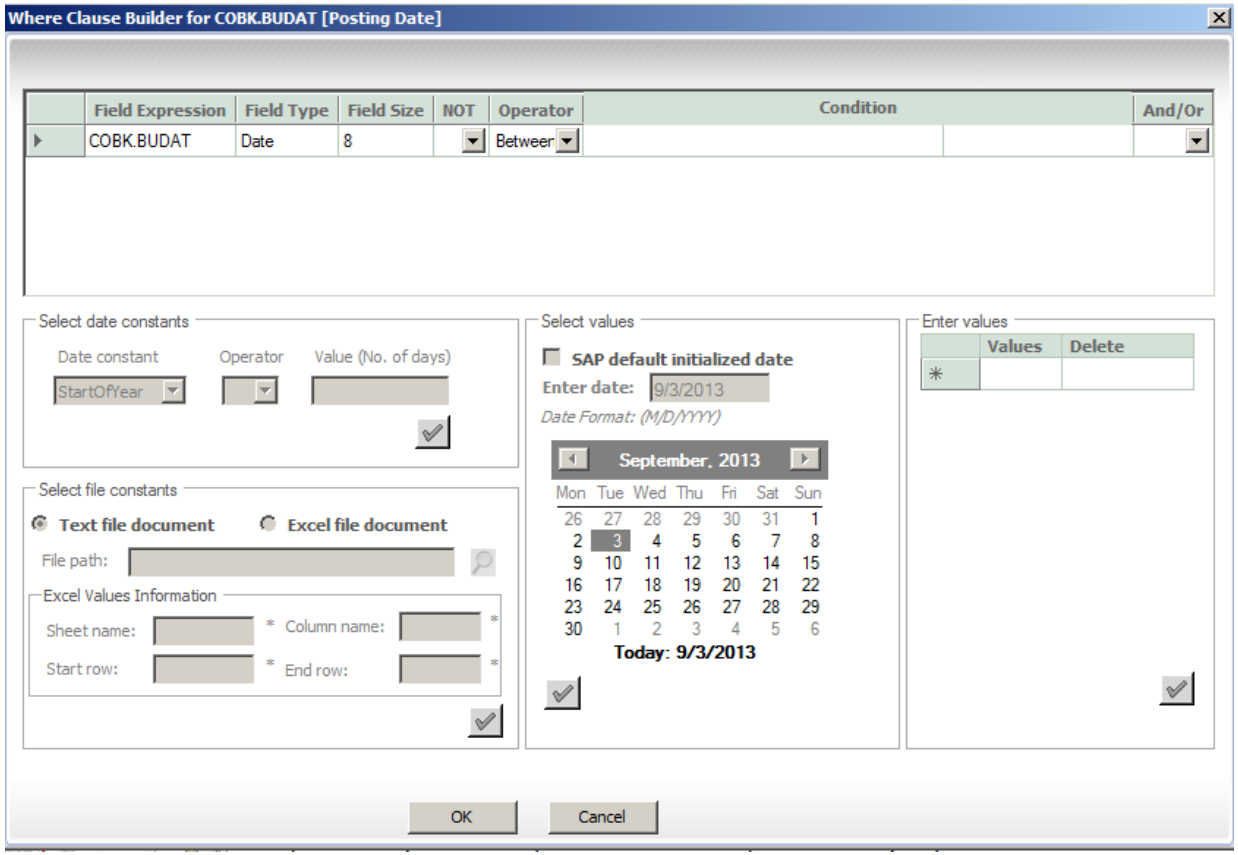
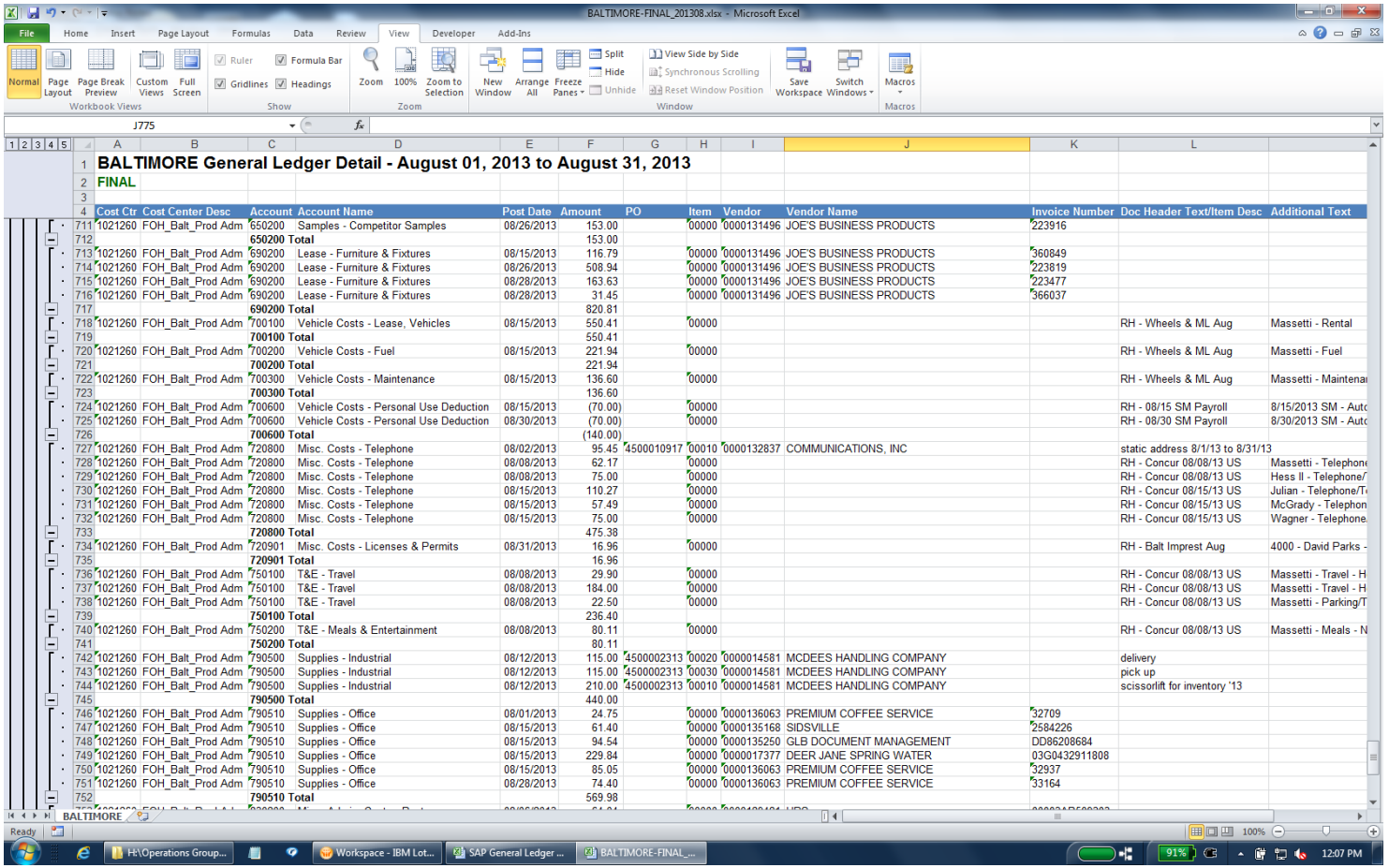
The selection type of the date field is set to RunTime and the Where Clause Builder is setup to accept a range.



Using Microsoft Excel with Winshuttle Query



BALTIMORE-FINAL_201308.xlsx - Microsoft Excel

BALTIMORE General Ledger Detail - August 01, 2013 to August 31, 2013

FINAL

Cost Ctr	Cost Center Desc	Account	Account Name	Post Date	Amount	PO	Item	Vendor	Vendor Name	Invoice Number	Doc Header Text/Item Desc	Additional Text
1021260	FOH_Balt_Prod Adm	650200	Samples - Competitor Samples	08/26/2013	153.00		00000	0000131496	JOE'S BUSINESS PRODUCTS	223916		
		650200 Total			153.00							
1021260	FOH_Balt_Prod Adm	690200	Lease - Furniture & Fixtures	08/15/2013	116.79		00000	0000131496	JOE'S BUSINESS PRODUCTS	360849		
1021260	FOH_Balt_Prod Adm	690200	Lease - Furniture & Fixtures	08/26/2013	508.94		00000	0000131496	JOE'S BUSINESS PRODUCTS	223819		
1021260	FOH_Balt_Prod Adm	690200	Lease - Furniture & Fixtures	08/28/2013	163.63		00000	0000131496	JOE'S BUSINESS PRODUCTS	223477		
1021260	FOH_Balt_Prod Adm	690200	Lease - Furniture & Fixtures	08/28/2013	31.45		00000	0000131496	JOE'S BUSINESS PRODUCTS	366037		
		690200 Total			820.81							
1021260	FOH_Balt_Prod Adm	700100	Vehicle Costs - Lease, Vehicles	08/15/2013	550.41		00000				RH - Wheels & ML Aug	Massetti - Rental
		700100 Total			550.41							
1021260	FOH_Balt_Prod Adm	700200	Vehicle Costs - Fuel	08/15/2013	221.94		00000				RH - Wheels & ML Aug	Massetti - Fuel
		700200 Total			221.94							
1021260	FOH_Balt_Prod Adm	700300	Vehicle Costs - Maintenance	08/15/2013	136.60		00000				RH - Wheels & ML Aug	Massetti - Maintenar
		700300 Total			136.60							
1021260	FOH_Balt_Prod Adm	700600	Vehicle Costs - Personal Use Deduction	08/15/2013	(70.00)		00000				RH - 08/15 SM Payroll	8/15/2013 SM - Autc
1021260	FOH_Balt_Prod Adm	700600	Vehicle Costs - Personal Use Deduction	08/30/2013	(70.00)		00000				RH - 08/30 SM Payroll	8/30/2013 SM - Autc
		700600 Total			(140.00)							
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/02/2013	95.45	4500010917	00010	0000132837	COMMUNICATIONS, INC		static address 8/1/13 to 8/31/13	
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/08/2013	62.17		00000				RH - Concur 08/08/13 US	Massetti - Telephone
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/08/2013	75.00		00000				RH - Concur 08/08/13 US	Hess II - Telephone/
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/15/2013	110.27		00000				RH - Concur 08/15/13 US	Julian - Telephone/T
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/15/2013	57.49		00000				RH - Concur 08/15/13 US	McGrady - Telephon
1021260	FOH_Balt_Prod Adm	720800	Misc. Costs - Telephone	08/15/2013	75.00		00000				RH - Concur 08/15/13 US	Wagner - Telephone
		720800 Total			475.38							
1021260	FOH_Balt_Prod Adm	720901	Misc. Costs - Licenses & Permits	08/31/2013	16.96		00000				RH - Balt Imprest Aug	4000 - David Parks -
		720901 Total			16.96							
1021260	FOH_Balt_Prod Adm	750100	T&E - Travel	08/08/2013	29.90		00000				RH - Concur 08/08/13 US	Massetti - Travel - H
1021260	FOH_Balt_Prod Adm	750100	T&E - Travel	08/08/2013	184.00		00000				RH - Concur 08/08/13 US	Massetti - Travel - H
1021260	FOH_Balt_Prod Adm	750100	T&E - Travel	08/08/2013	22.50		00000				RH - Concur 08/08/13 US	Massetti - Parking/T
		750100 Total			236.40							
1021260	FOH_Balt_Prod Adm	750200	T&E - Meals & Entertainment	08/08/2013	80.11		00000				RH - Concur 08/08/13 US	Massetti - Meals - N
		750200 Total			80.11							
1021260	FOH_Balt_Prod Adm	790500	Supplies - Industrial	08/12/2013	115.00	4500002313	00020	0000014581	MCDEES HANDLING COMPANY		delivery	
1021260	FOH_Balt_Prod Adm	790500	Supplies - Industrial	08/12/2013	115.00	4500002313	00030	0000014581	MCDEES HANDLING COMPANY		pick up	
1021260	FOH_Balt_Prod Adm	790500	Supplies - Industrial	08/12/2013	210.00	4500002313	00010	0000014581	MCDEES HANDLING COMPANY		scissorlift for inventory '13	
		790500 Total			440.00							
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/01/2013	24.75		00000	0000136063	PREMIUM COFFEE SERVICE	32709		
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/15/2013	61.40		00000	0000135168	SIDSVILLE	2584226		
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/15/2013	94.54		00000	0000135250	GLB DOCUMENT MANAGEMENT	DD86208684		
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/15/2013	229.84		00000	0000017377	DEER JANE SPRING WATER	03G0432911808		
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/15/2013	85.05		00000	0000136063	PREMIUM COFFEE SERVICE	32937		
1021260	FOH_Balt_Prod Adm	790510	Supplies - Office	08/28/2013	74.40		00000	0000136063	PREMIUM COFFEE SERVICE	33164		
		790510 Total			569.98							

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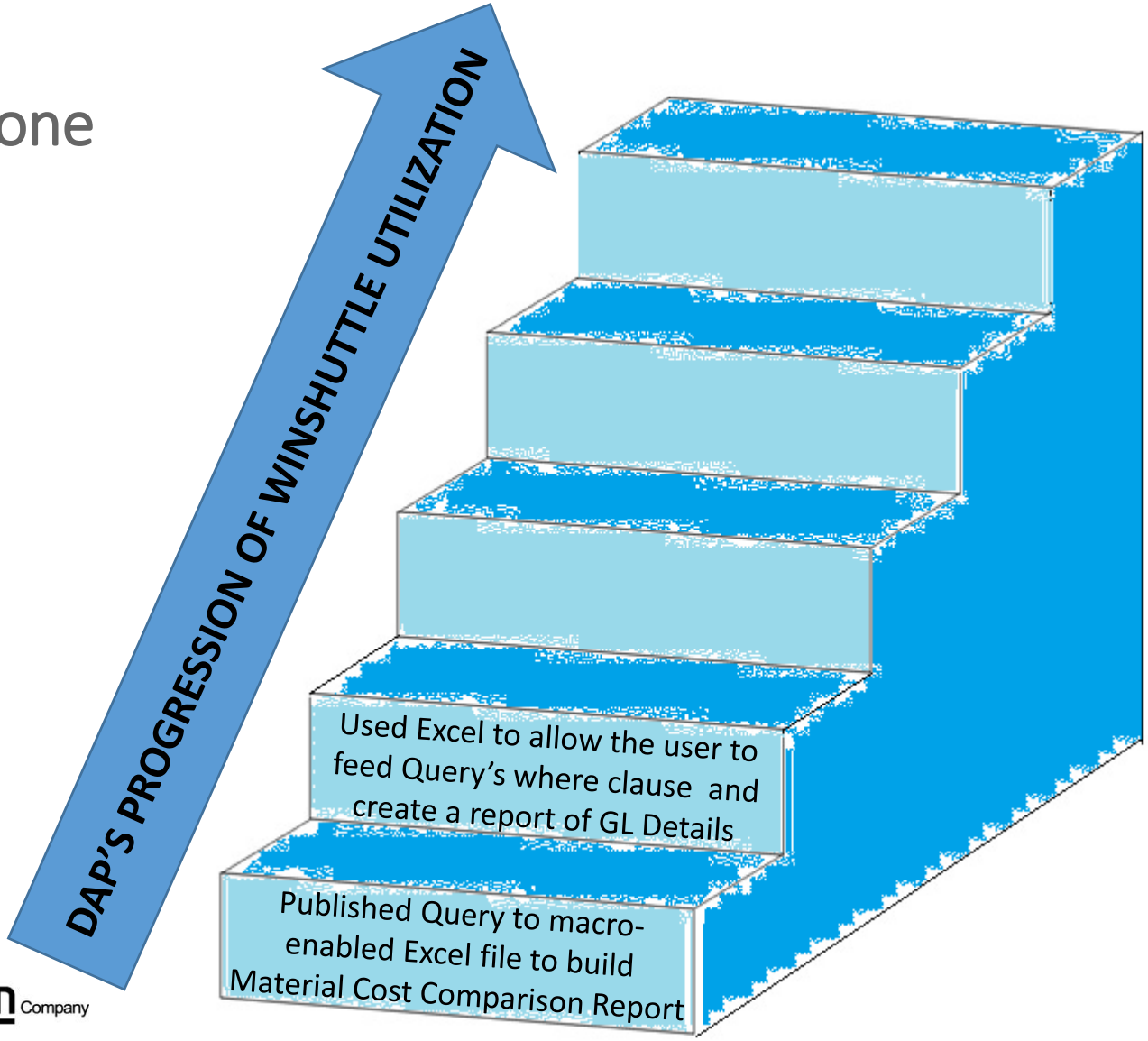
Using Microsoft Excel with Winshuttle Query

Milestone



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Using Microsoft Excel with Winshuttle Query

Methods needed to front-end SAP data requests with Excel:

- Find Winshuttle executable location on current machine

  Allows macro to launch Winshuttle on any machine with the application installed

- Wait for Winshuttle Query to complete before continuing

  Excel macro must wait for Winshuttle to finish before it can proceed to its next steps

- Feed Winshuttle's Where Clause Builder a date range

  Convert a range of dates into a list that can feed the 'In' operator from a file

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Using Microsoft Excel with Winshuttle Query

www.nerdalert.com/wp-content/uploads/2013/02/newlogo.png

www.urbandictionary.com/define.php?term=Nerd and www.urbandictionary.com/zoom.php?imageid=46422

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Using Microsoft Excel with Winshuttle Query

Find Winshuttle executable location on current machine

Allows macro to launch Winshuttle on any machine with the application installed

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Winshuttle creates system environment variables which contain the path of the executable. The specific executable can then be searched for in the path with *com.exe. Together, these values can be used by Excel to launch a particular Winshuttle application on virtually any installation variation.

equeryshuttle_Path on *32-Bit Winshuttle Query RUNNER*

C:\Program Files (x86)\Winshuttle\Winshuttle Runner\QUERYRunner
xSHUTTLEcom.exe

equeryshuttle_Path on *64-bit Winshuttle Query (Studio)*

C:\Program Files\Winshuttle\QUERY\
querySHUTTLEcom.exe

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Using Microsoft Excel with Winshuttle Query

Wait for Winshuttle Query to complete before continuing

Excel macro must wait for Winshuttle to finish before it can proceed to its next steps

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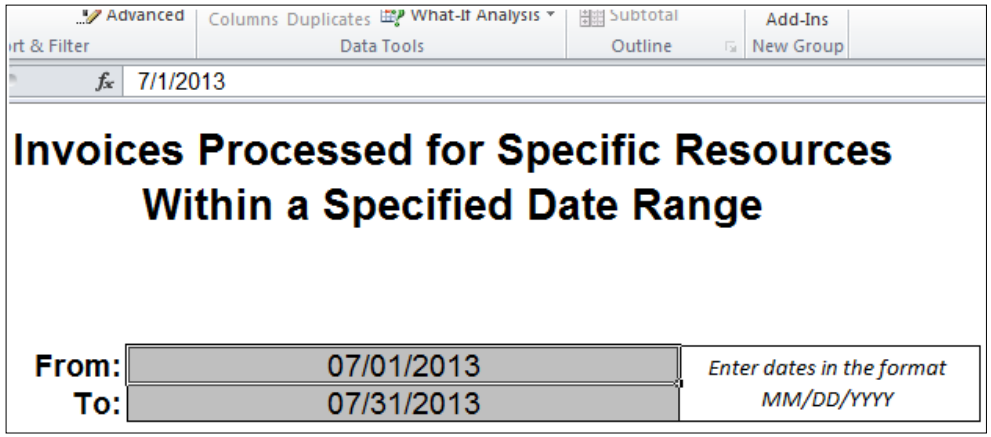
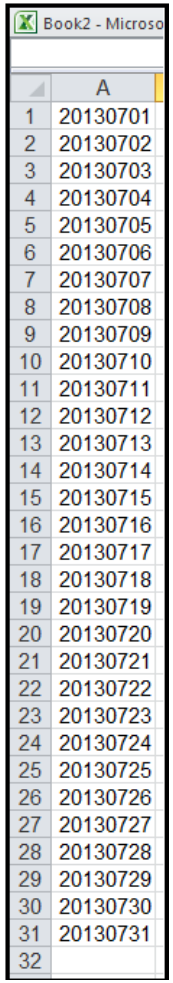
Using Microsoft Excel with Winshuttle Query

Feed Winshuttle's Where Clause Builder a date range

Convert a range of dates into a list that can feed the 'In' operator from a file





QUERY

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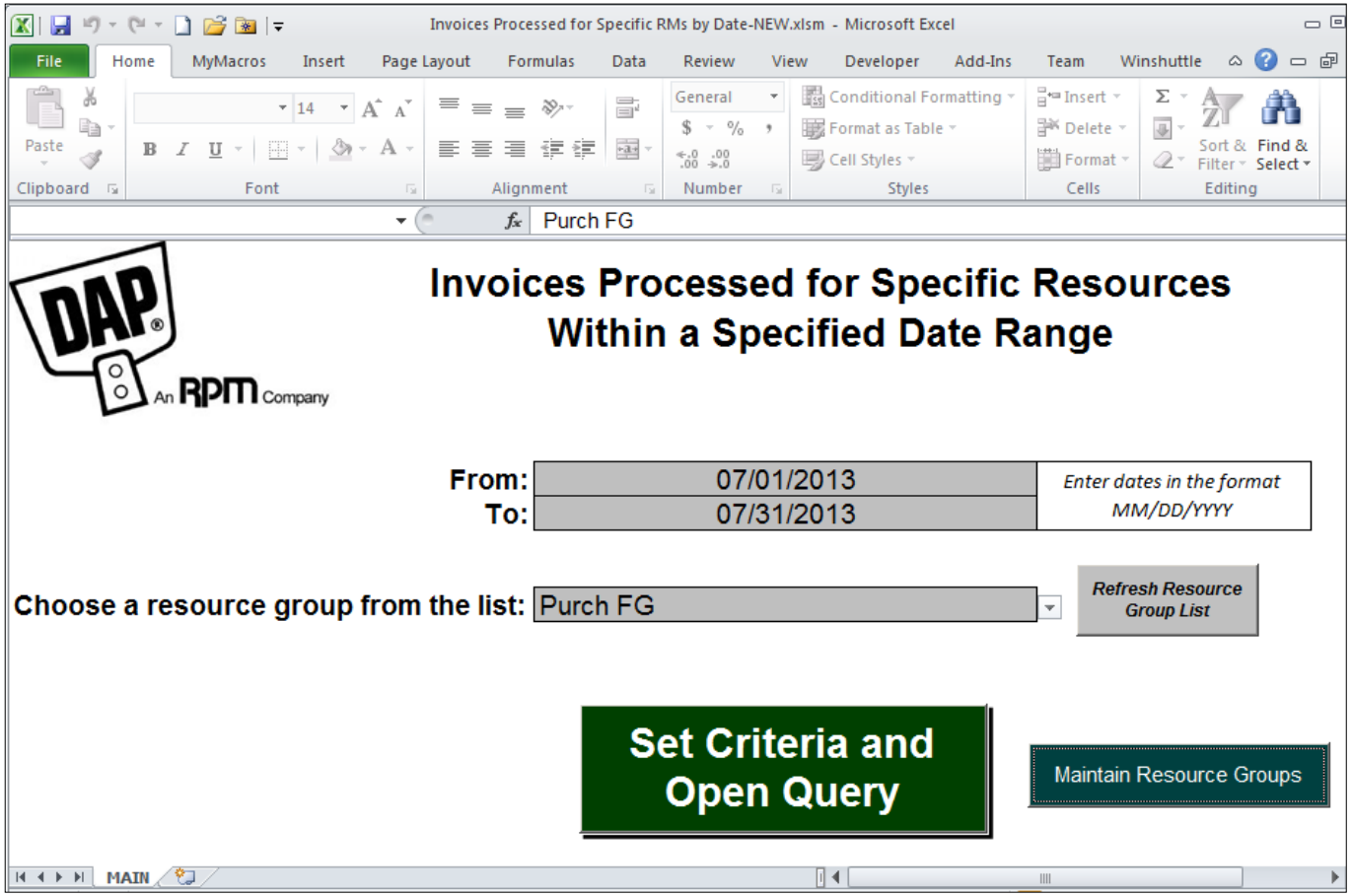
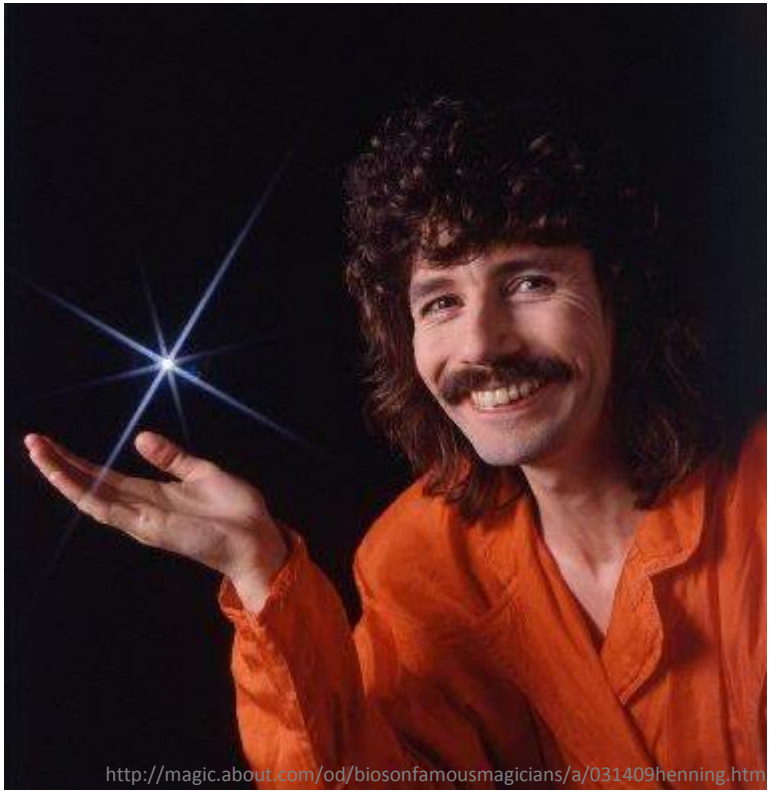
Start from Microsoft Excel…



Using Microsoft Excel with Winshuttle Query

Add a little WINSHUTTLE QUERY …



…And some MAGIC…

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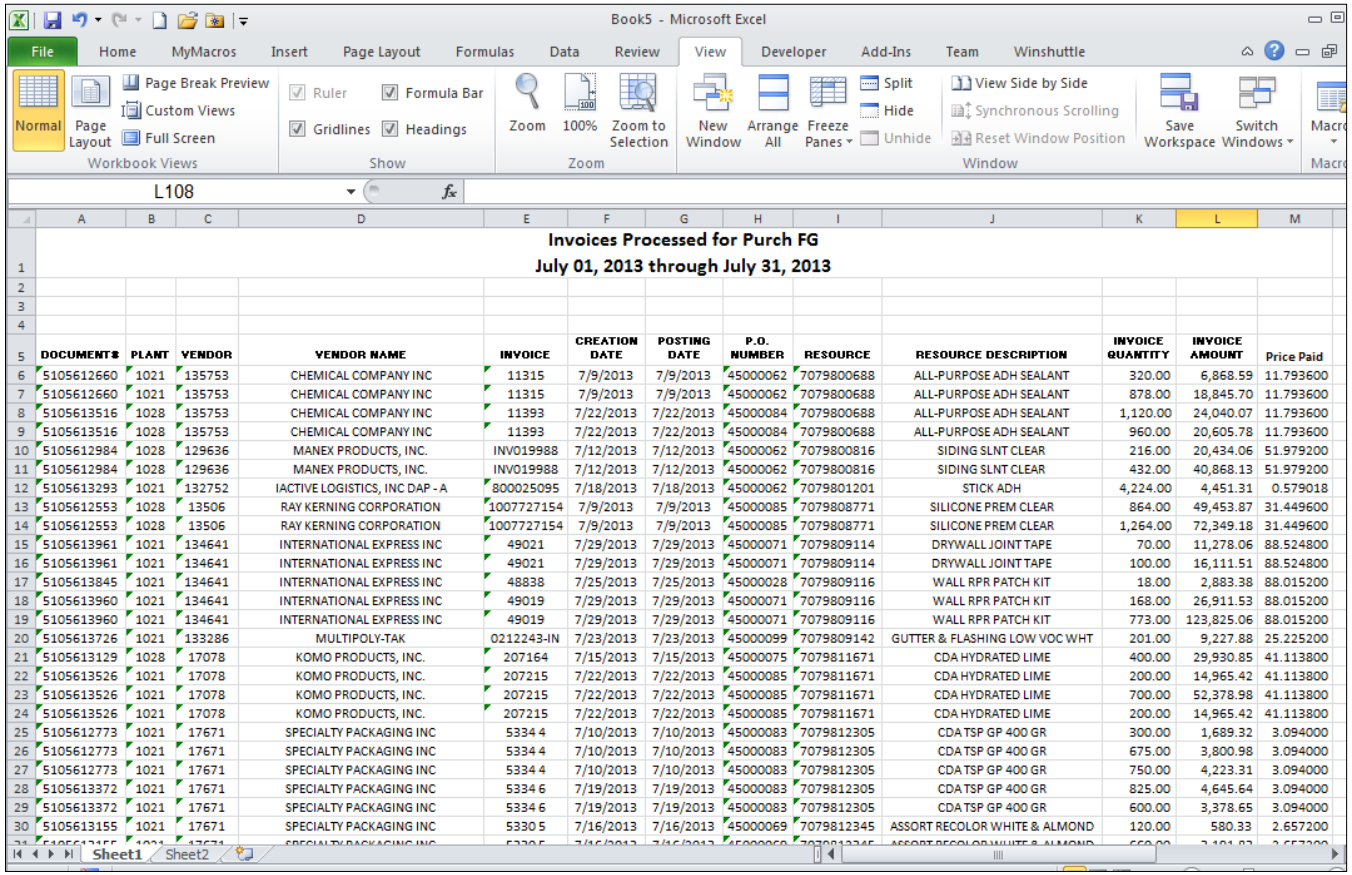
Using Microsoft Excel with Winshuttle Query

End up back in Excel with the finished report!



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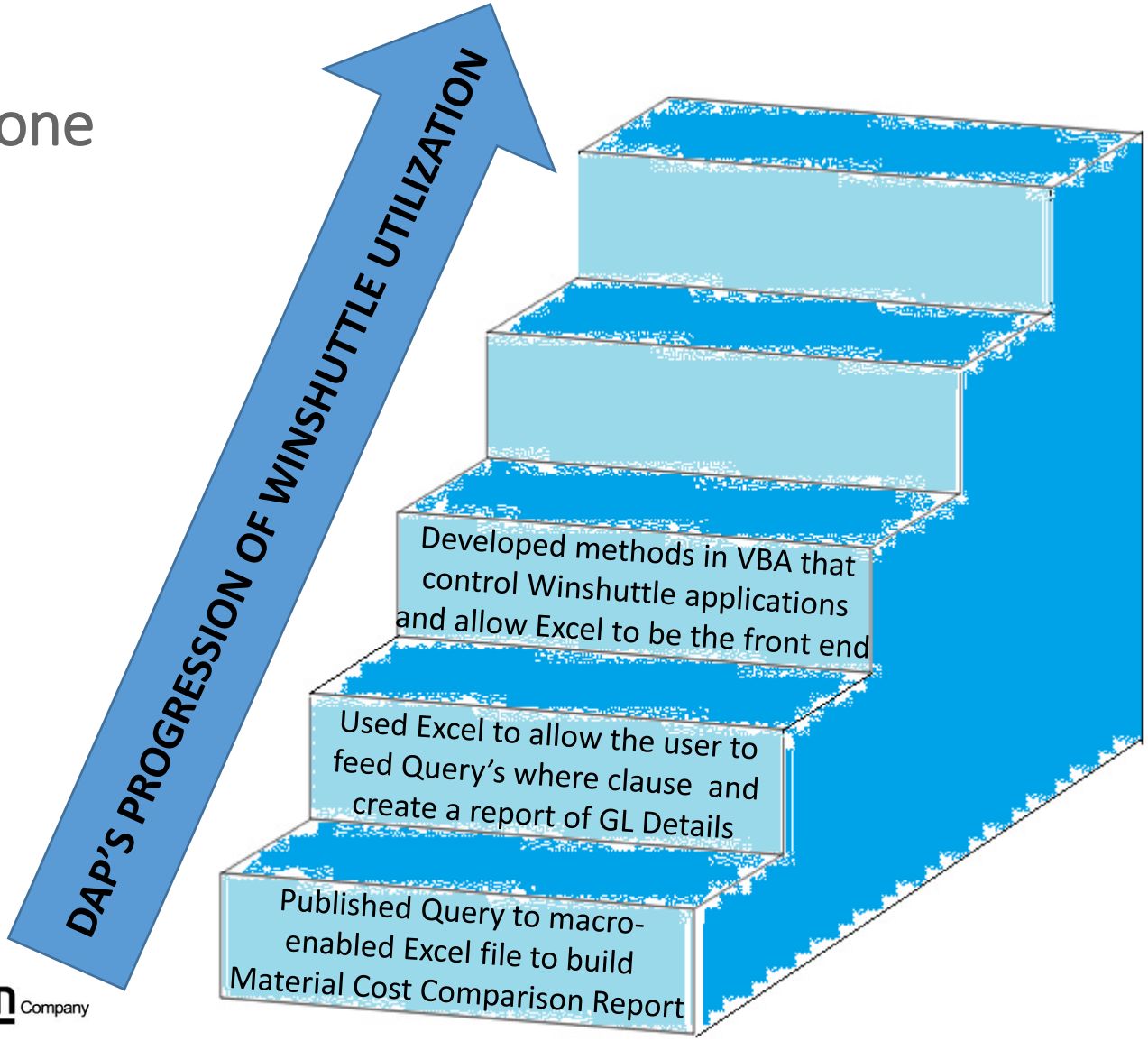
Using Microsoft Excel with Winshuttle Query

Milestone



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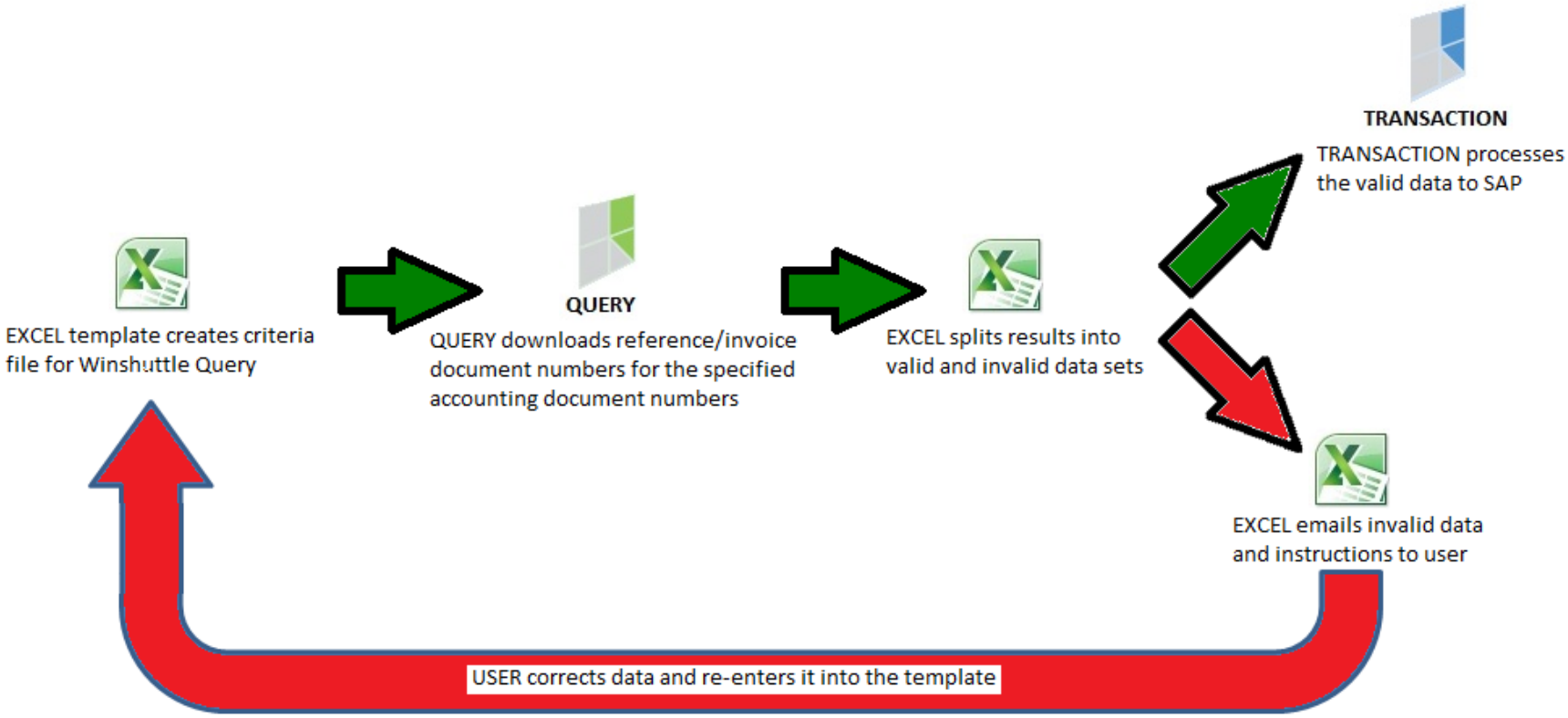
Using Microsoft Excel with Winshuttle Transaction & Query



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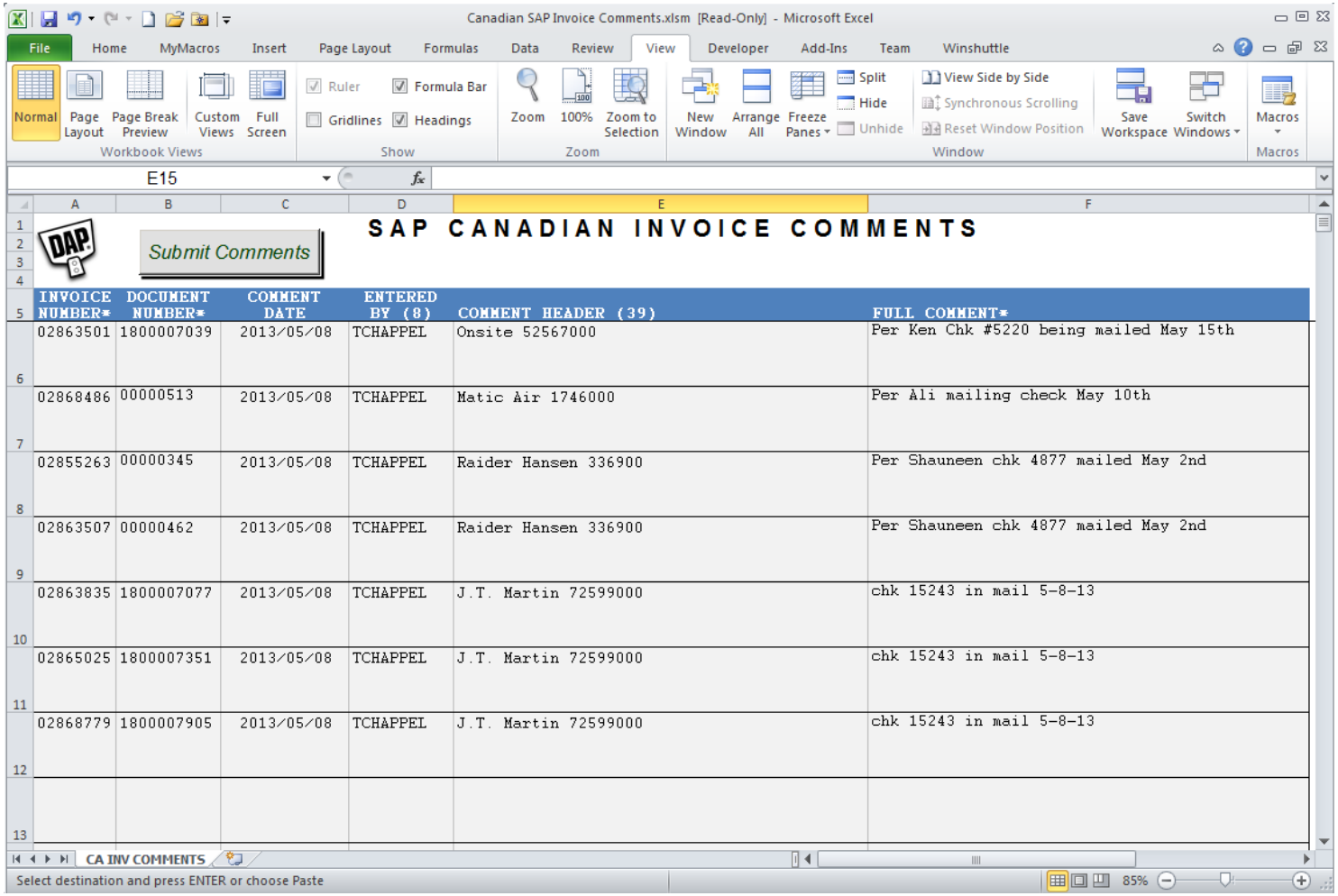
Using Microsoft Excel with Winshuttle Transaction & Query



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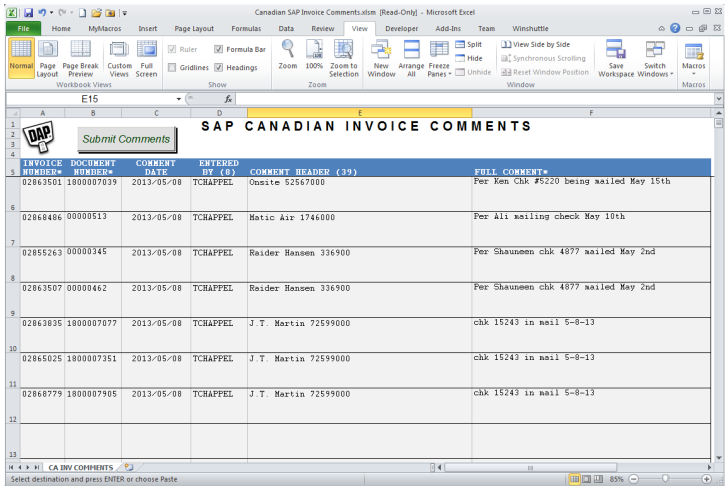
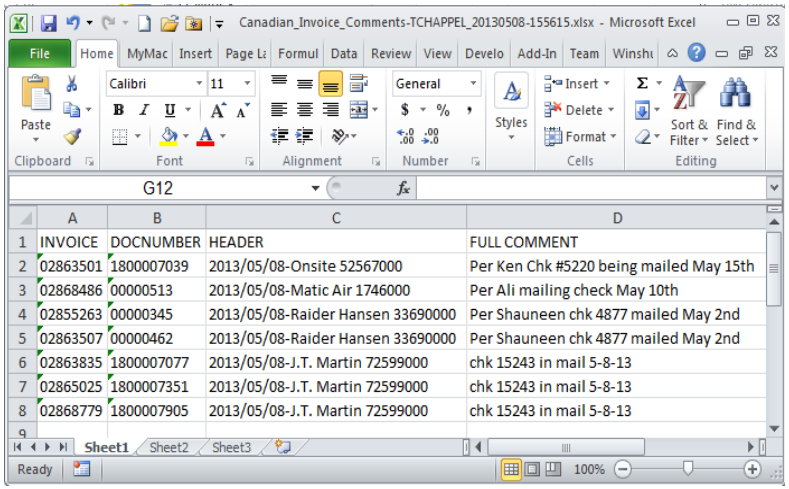
The ***Submit Comments*** button produces an output file and sends it to a folder on the network where it and others like it wait for processing.





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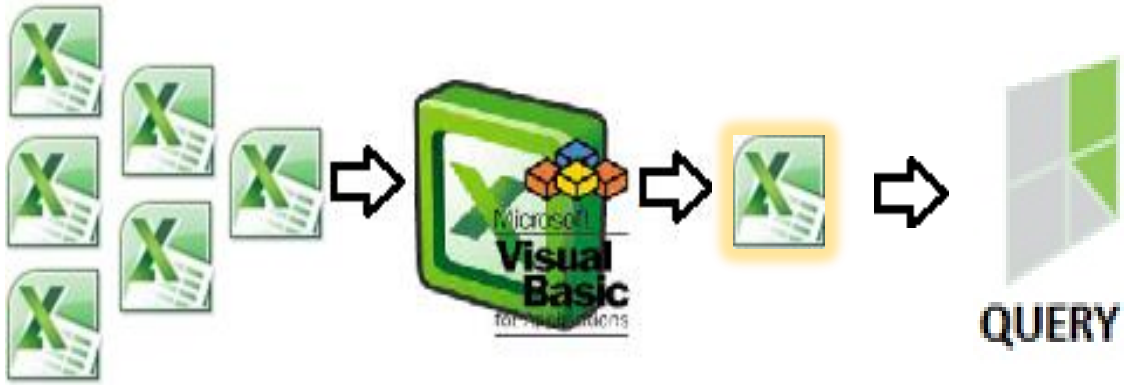
Licensed user clicks this button to process the submissions.

Process Canadian Invoice Comments to SAP

Individual submissions are combined and become a criteria file for Winshuttle Query.



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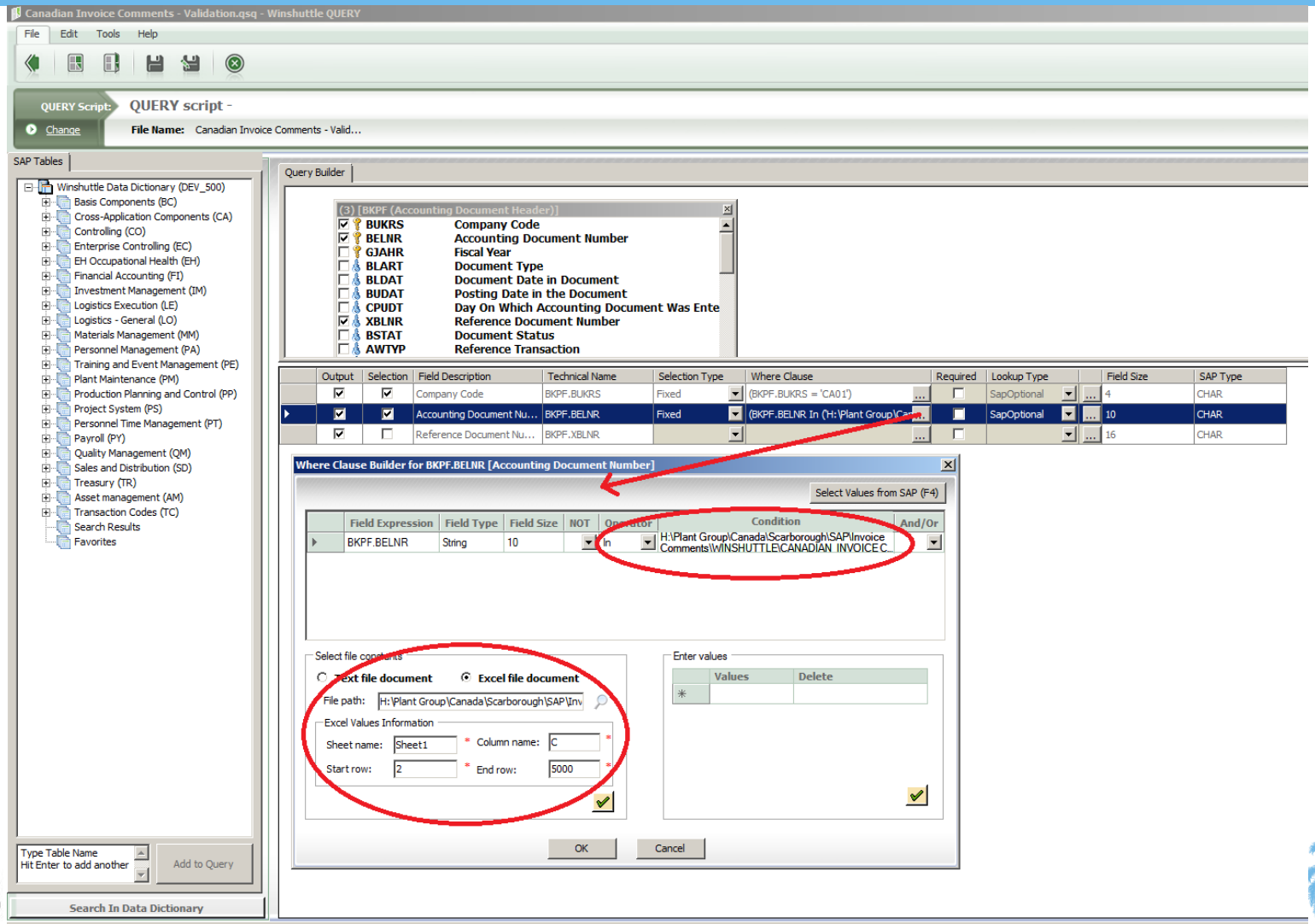

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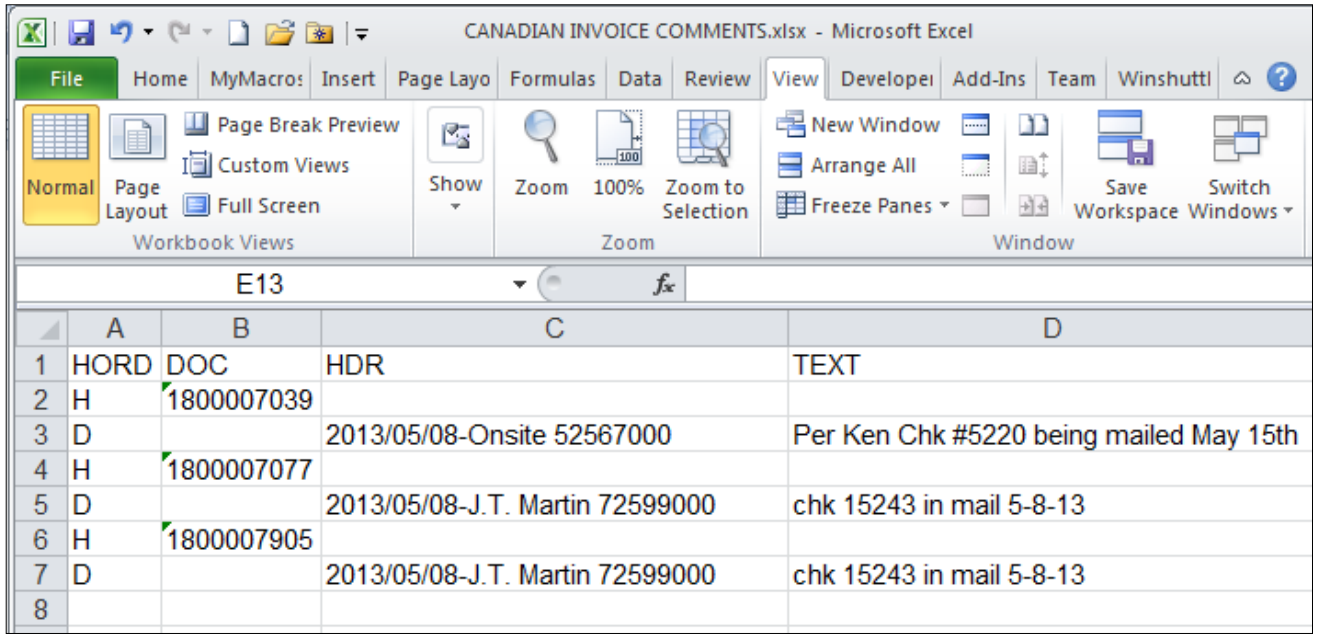
QUERY



	A	B	C	D
1	HORD	DOC	HDR	TEXT
2	H	1800007039		
3	D		2013/05/08-Onsite 52567000	Per Ken Chk #5220 being mailed May 15th
4	H	1800007077		
5	D		2013/05/08-J.T. Martin 72599000	chk 15243 in mail 5-8-13
6	H	1800007905		
7	D		2013/05/08-J.T. Martin 72599000	chk 15243 in mail 5-8-13
8				

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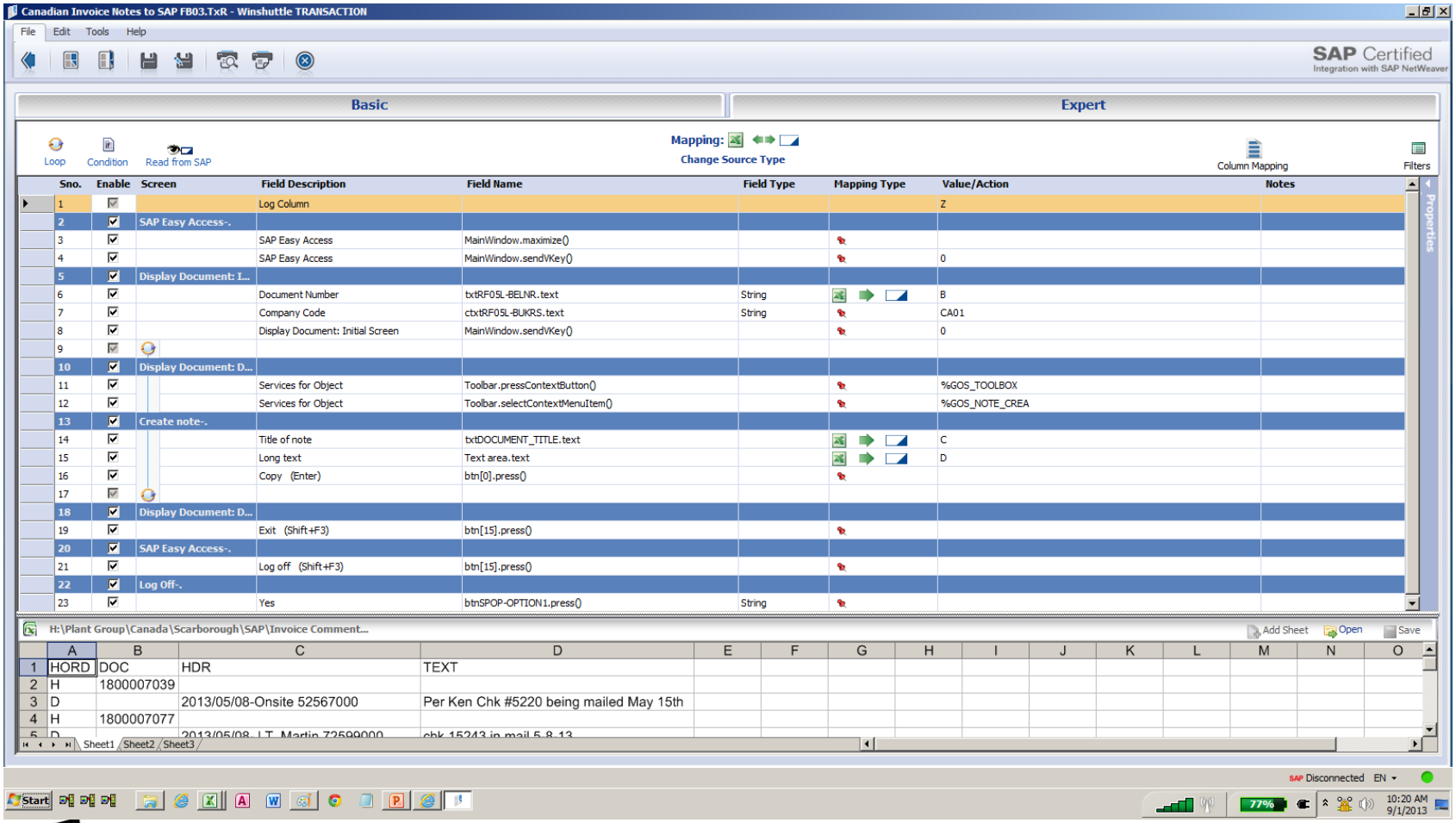

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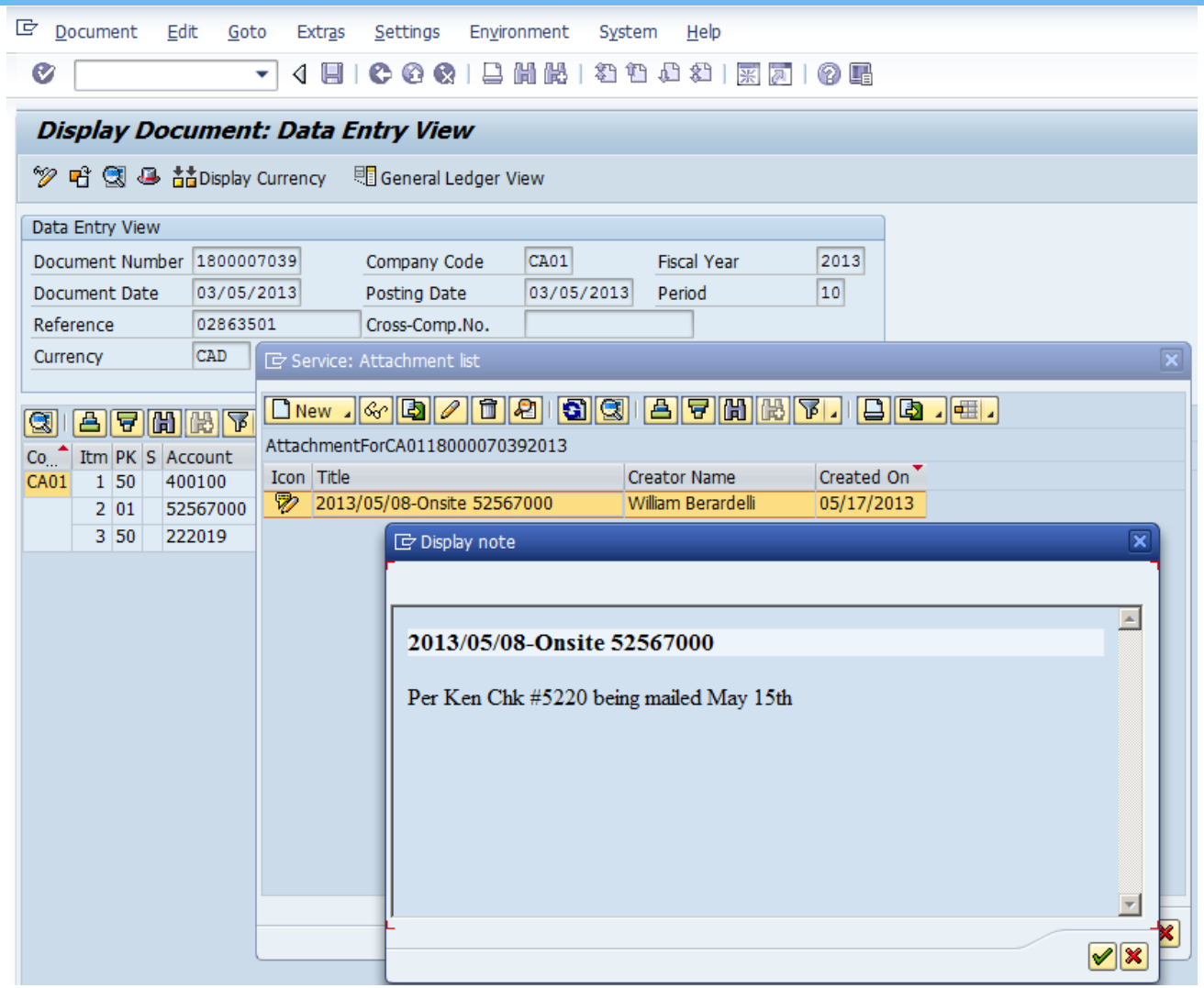

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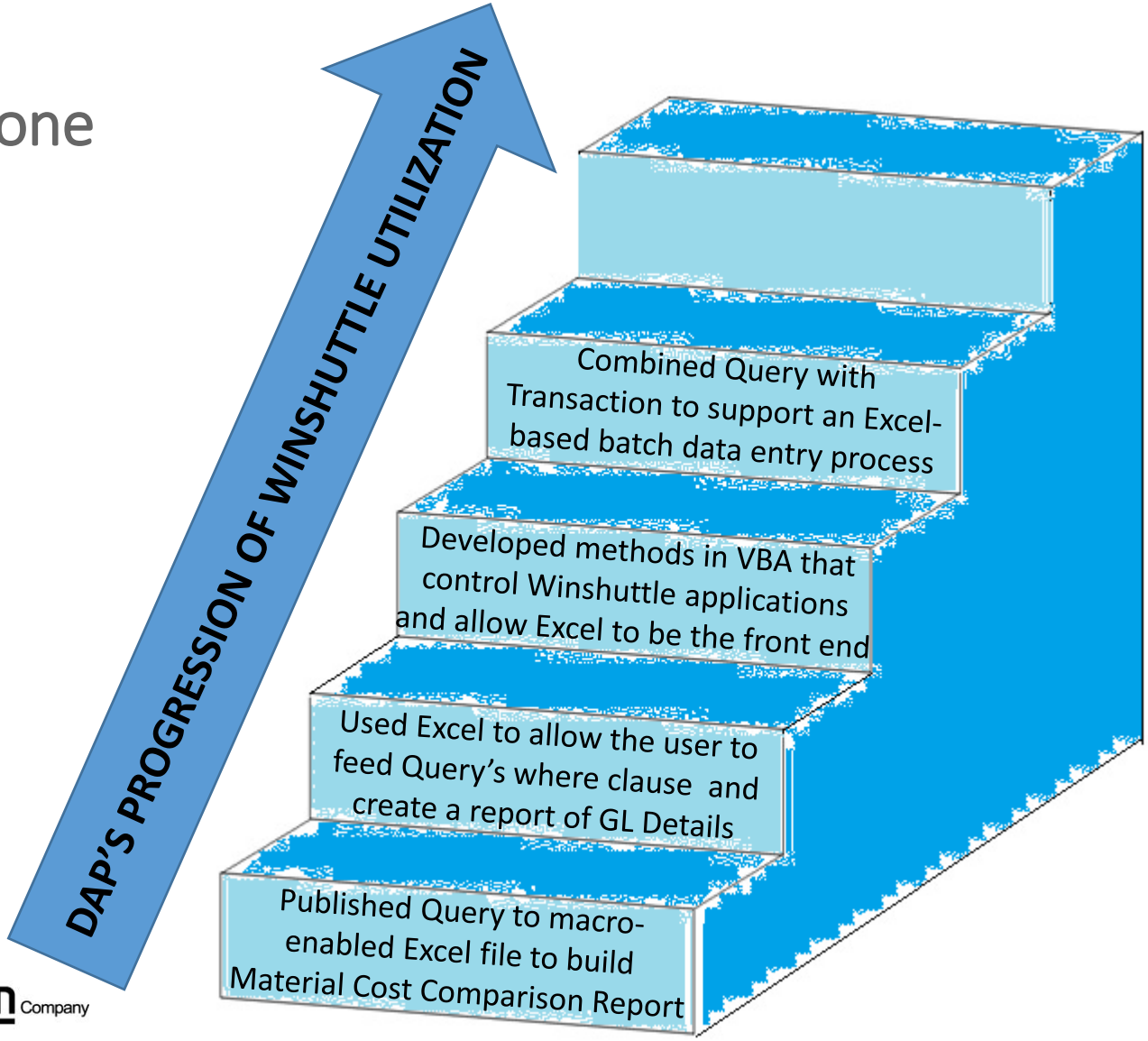
Using Microsoft Excel with Winshuttle Query

Milestone



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Development Continues…

- Vendor Master and Primary Vendor
  Launched nightly by Windows Task Scheduler
  Batch file calls Winshuttle Query
  Excel CLOSE event kicks off VBA macro to update legacy system tables

- P&L Report
  Winshuttle Query fed Year and Version criteria from Excel
  Excel PivotTable facilitates period, quarter and year summaries

- Estimate & Plan Reporting
  Winshuttle Query replaces cumbersome and time consuming custom process

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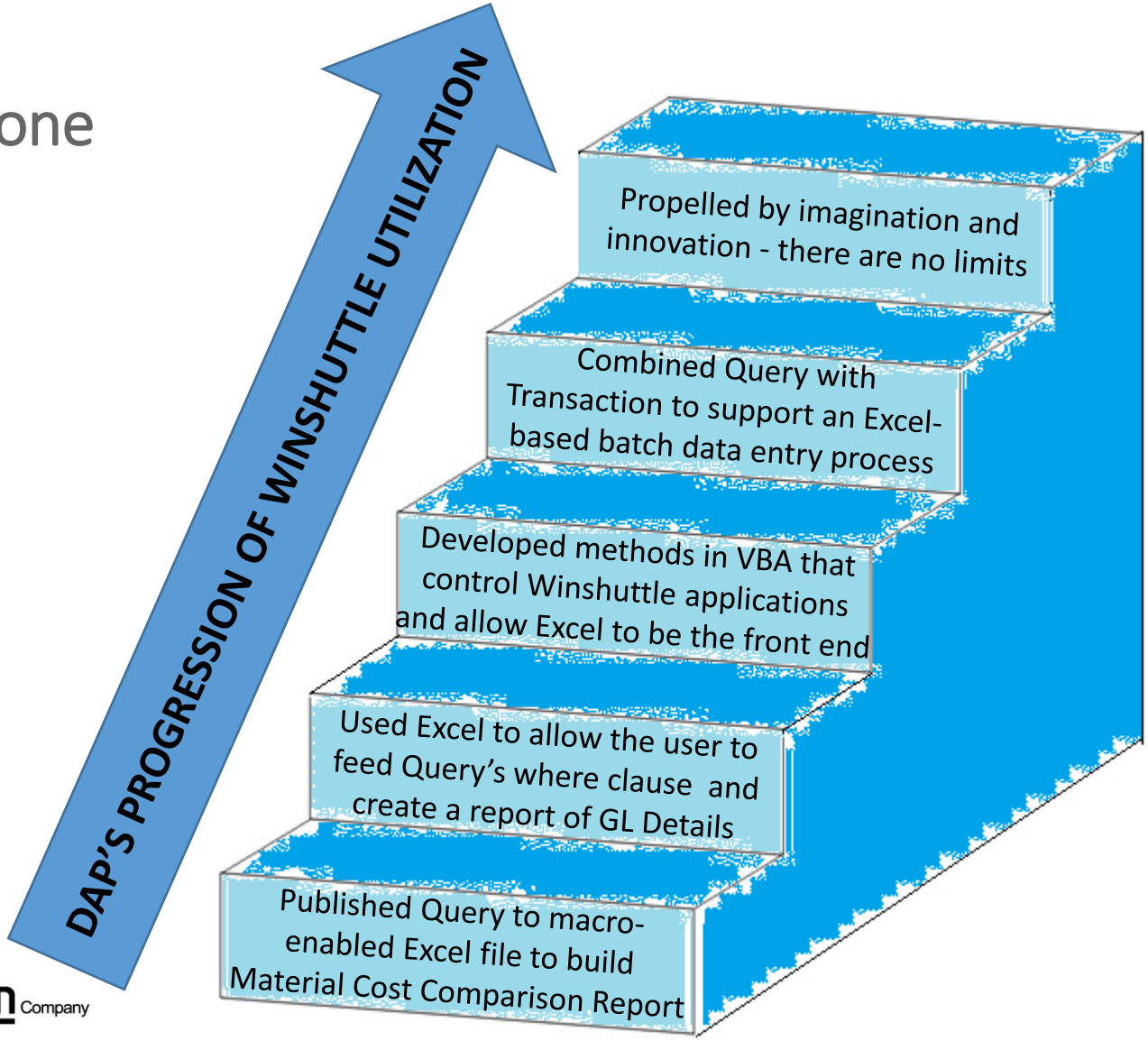
Milestone



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THANK YOU!

Don't worry. There shouldn't be any long term affects from the nerd exposure you endured during this session.

William Berardelli – DAP Products Inc.

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