

ArmaRecon

Creative solution for accounts and bank reconciliation www.armarecon.com

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How to Install and run Armarecon

Armarecon does not require any installation to run. You just need to copy Armarecon file in <u>XLSTART</u> folder then run the excel software same as usual. A tab named "Armarecon" with Armarecon icon inside it, will appear.

File	Home	Insert	Page Layout	Formulas	Data	Review	View	Macro	Developer	VBA Tools	Kutools ™	Kutools Plus	Foxit PDF	Power Pivot	ArmaRecon	${\mathbb Q}$ Tell me what you want to do
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ArmaRecon																
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XLSTART path is as below:

C:\Users\Your Computer User Name\AppData\Roaming\Microsoft\Excel\XLSTART

Or you can copy the following address into address bar of your File Explorer:

%appdata%\microsoft\excel\xlstart

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🥽 Libraries		6.12 GB free of 218 GB		

Alternatively, you can search XLSTART in C drive.

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Searches might be slow in non-indexed locations: C:\. Click to add to index	x
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Run the program from Excel, tab "Armarecon". Now you need to get one of the following registration codes from <u>www.armarecon.com</u> website:

- 30 days free trial license
- Dated license code such as 1 year or more
- Permanent license



Go to license tab and click "Generate Computer ID" then you will be led to the website.



Select your desired license then click "Purchase License" button.

Note: If you select free trial license, price of order will be zero so you will not pay money within creating order process.

Armarecon	Home User Manual About us $ \mathcal{O} $
License	How to install
30 Days Free Trial	Download program
	Copy program in XLSTART folder Run program and get your computer ID in license tab
Purchase Licence	 Select purchase type in this page then click purchase license
	Enter your Email and Computer ID in next page then place your order
	 Make your payment (not required for trial license)
	license code will be sent to your email
	Enter license code in license tab inside of program
	Run and enjoy

Enter your computer ID and your email in website then click "Place order" button.

Note: Within promotion time, you may require extra information such as link of your activity in social network about Armarecon then you will be deserved to receive free trial license more than 30 days.



Billing details	
Email address *	
Arma2020@gmail.com	
Hardware ID *	
L2HF7BR017G	
Link of your post about Armarecon (optional)	
Enter link of your social network post here to get 6 months free trial license	
Your order	
Product	Subtotal
Armarecon - 30 Days Free Trial × 1	\$0.00
Subtotal	\$0.00
Total	\$0.00
Your personal data will be used to process your order, support your experience throughout this w	ebsite, and for other purposes described in our privacy policy. Place order

You will see detail of your order as below image.

Thank you. Your order has been received. ORDER NUMBER: DATE: EMAIL: TOTAL: 869 April 15, 2020 Arma2020@gmail.com \$0.00 Order details	
Product	Total
Armarecon - 30 Days Free Trial × 1	\$0.00
Subtotal:	\$0.00
Total:	\$0.00
Hardware ID: L2HF7BR017G	
Billing address	
N/A ⊠ Arma2020@gmail.com	

Armarecon team will process your order then you will receive your desired license code via email. Enter the license code in below box of license tab then click "Submit License Code" button.

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Concept

The main concept of Armarecon is to match figures which can be matched with each other and then present unmatched figures as open items.

Imagine we have an account with the below movement details:

Voucher No	Effective Date	Cheque No	Туре	Description	Debit Amt.	Credit Amt.	Balance
V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34		34
V 0008	2020/01/08	1009	JL	Journal Entries- James	21	-	55
V 0009	2020/01/03	1008	JL	Journal Entries- Emma		97	(42)
V 0010	2020/01/08	1009	JL	Journal Entries- James	-	21	(63)
V 0011	2020/01/14	1004	JL	Journal Entries- Natalie	81	-	18
V 0012	2020/01/10	1004	JL	Journal Entries- Natalie	-	81	(63)

For finding open items, we need to match figures which are related to each other like:

- Debit and credit amounting \$ 21 is related to James
- Debit and credit amounting \$ 81 is related to Natalie

As you can see in the below table we have added a new column called "Matching" in which the matched figures have been connected by numbers. For example number 1 is used as an indicator to show a debit amount of 21 \$ and its related credit amount.

Voucher No	Effective Date	Cheque No	Туре	Description	Debit Amt.	Credit Amt.	Balance	Matching
V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34	
V 0008	2020/01/08	1009	JL	Journal Entries- James	21	8	55	1
V 0009	2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)	
V 0010	2020/01/08	1009	JL	Journal Entries- James	-	21	(63)	1
V 0011	2020/01/14	1004	JL	Journal Entries- Natalie	81	-	18	2
V 0012	2020/01/10	1004	JL	Journal Entries- Natalie	-	81	(63)	2

In the next step, we will filter matching column for empty cells so we will have the below picture:

Voucher No 💌	Effective Date 💌	Cheque No 💌	Type	🕶 Description 📃 💌	Debit Am 💌	Credit Am 💌	Balanc	Matching 🗾
V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34	
V 0009	2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)	

We removed matched figures and only open items are remained by filtering empty cells in matching column. This process is very simple. Armarecon provides a powerful engine and some other useful tools, to enable you to match figures and exclude them from the matching process.



Using Engine in simple example

The engine performs a query among figures and suggests different combinations of items that can be matched with each other and you can choose which item(s) to be matched with the other item(s), based on each item's unique information such as explanations, signs, dates, checking numbers ...

Armarecon features make you enable to handle matching process based on your own assumptions and rules in order to have effective reconciliations.

Let's look at the first example. We want to reconcile concept example with Armarecon engine.

1	A	В	С	D	E	F	G	н	I
1	Voucher No	Effective Date	Cheque No	Туре	Description	Debit Amt.	Credit Amt.	Balance	Matching
2	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	12	34	
3	V 0008	2020/01/08	1009	JL	Journal Entries- James	21	4	55	
4	V 0009	2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)	
5	V 0010	2020/01/08	1009	JL	Journal Entries- James	-	21	(63)	
6	V 0011	2020/01/14	1004	JL	Journal Entries- Natalie	81	5	18	
7	V 0012	2020/01/10	1004	JL	Journal Entries- Natalie	-	81	(63)	

For the first step, we need to run Armarecon. For this, you must add a new column to your worksheet named "Movement". This column shows Debit amounts minus Credit amounts in a specific column.

J2	*	1	× 🗸 j	fx =F2-G2							
	A		В	С	D	E	F	G	н	I	J
1	Voucher No	E	ffective Date	Cheque No	Туре	Description	Debit Amt.	Credit Amt.	Balance	Matching	Movement
2	V 0001		2020/01/0	1 1001	JL	Journal Entries- Anjelina	34		34		34
3	V 0008		2020/01/08	3 1009	JL	Journal Entries- James	21	-	55		21
4	V 0009		2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)		(97)
5	V 0010		2020/01/08	3 1009	JL	Journal Entries- James	-	21	(63)		(21)
6	V 0011		2020/01/14	4 1004	JL	Journal Entries- Natalie	81	-	18		81
7	V 0012		2020/01/10	1004	JL	Journal Entries- Natalie	-	81	(63)		(81)

As you can see in above table the cell J2 is equal to F2-G2. Copy formula to all rows and select figures of this column then click Armarecon icon.

F	File Hom	ie Insert	Page Layou	ut Formul	as I	Data Review	View	Macro	Developer	VBA Tools	Kutools ™	Kutools Plus	Foxit PDF	Power Pivot	ArmaRecon
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1	Voucher No	Effective	Date Che	eque No	Туре	Description		Debit	: Amt.	Credit Amt.	Balance	Matching	Mover	ment	
2	V 0001	202	20/01/01	1001	JL	Journal Entries-	Anjelina		34		34			34	
3	V 0008	202	20/01/08	1009	JL	Journal Entries-	James		21		55			21	
4	V 0009	202	20/01/03	1008	JL	Journal Entries-	Emma		-	97	(42)			(97)	
5	V 0010	202	20/01/08	1009	JL	Journal Entries-	James		-	21	(63)			(21)	
6	V 0011	202	20/01/14	1004	JL	Journal Entries-	Natalie		81	(7 1)	18			81	
7	V 0012	202	20/01/10	1004	JL	Journal Entries-	Natalie		-	81	(63)			(81)	

Armarecon will ask you Matching column then you should select one cell of Matching column then click OK.



1	A	В	С	D	E		F	G	ł	- j		J		K	L
1	Voucher No 💌	Effective Date 💌	Cheque No 💌	Type 💌	Description	-	Debit Am 💌	Credit Am 🔻		alanc 💌	Matching	Move	emer 💌		1
2	V 0001	2020/01/01	1001	JL	Journal Entries- An	jelina	34	-		34			34		
3	V 0008	2020/01/08	1009	JL	Journal Entries- Jan	nes	21	-		55			21		
4	V 0009	2020/01/03	1008	JL	Journal Entries- Em	nma	-	97		(42)			(97)		
5	V 0010	2020/01/08	1009	JL	Journal Entries- Jan	nes	- [21		(63)			(21)		
6	V 0011	2020/01/14	1004	JL	Journal Entries- Na	talie	81	-		18			81		
7	V 0012	2020/01/10	1004	JL	Journal Entries- Na	talie	- [81		(63)			(01)	57	
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After selecting Matching column, Armarecon will ask you Date column so you should select one cell of Date column then click OK. (Note: If there is no date column, select another column. in this way you will miss some parts of the program features that are related to date.)

	A	В	C D	E	F	G	н І	JK
1	Voucher No 💌	Effective Date 💌 🕻	Cheque No 💌 Type	Description	🔹 🛛 Debit Am 💌	Credit Am 🔻	Balanc Matchi	ing 🔹 Movemer 💌
2	V 0001	2020/01/01	1001 JL	Journal Entries- Anjelin	a 34	-	34	34
3	V 0008	2020/01/08	1009 JL	Journal Entries- James	21	(71)	55	21
4	V 0009	2020/01/03	1008 JL	Journal Entries- Emma	-	97	(42)	(97)
5	V 0010	2020/01/08	1009 JL	Journal Entries- James	-	21	(63)	(21)
6	V 0011	2020/01/14	1004 JL	Journal Entries- Natalie	81	-	18	81
7	V 0012	2020/01/10	1004 JL	Journal Entries- Natalie	<u>-</u>	81	(153)	(01)
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At Engine tab in Query Method section, select 1-X and at the right side select 1 then click Ok. Now engine performs query and suggests all the probable one to one combinations.



Voucher No Effective Date Cheque No Type Description Debit Amt. Credit Amt. Balance Matching Movement 2 V0001 2020/01/01 1001 JL Journal Entries- Anjelina 34 36 320001 202001 320001 320001 320001 320001 320002 320201 36 <t< th=""><th></th><th>А</th><th>В</th><th>C</th><th>D</th><th>F</th><th>F</th><th>G</th><th>Н</th><th>I</th><th>1</th><th>К</th><th>L</th></t<>		А	В	C	D	F	F	G	Н	I	1	К	L
2 V 0001 2020/01/01 1001 JL Journal Entries- Anjelina 34 - 34 34 202001 3 V 0008 2020/01/08 1009 JL Journal Entries- Iames 21 - 55 21 200001 20201 4 V 0009 2020/01/03 1008 JL Journal Entries- Iames - 97 (42) (97) 202001 5 V 010 2020/01/03 1008 JL Journal Entries- Natalie 81 - 18 81 202001 202001 6 V 0011 2020/01/14 1004 JL Journal Entries- Natalie 81 - 18 81 202002 202001 6 V 0012 2020/01/10 1004 JL Journal Entries- Natalie - 81 (63) (61) 20002 202001 7 V 0012 2020/01/10 1004 JL Journal Entries- Natalie - 81 (63) (61) 20002 202001 11 Amarecon 22 - - 5 - - - - -	1	Voucher No	Effective Date	Cheque No	Type	Description	Debit Amt.	Credit Amt.	Balance	Matching	Movement		-
3 V0008 2020/01/08 1009 JL Journal Entries- James 21 - 55 21 20001 202001 4 V0009 2020/01/08 1009 JL Journal Entries- Emma - 97 (42) (97) 202001 5 V010 2020/01/08 1009 JL Journal Entries- James - 163) (21) 20001 202001 6 V011 2020/01/14 1004 JL Journal Entries- Natalie 81 - 18 81 200002 202001 7 V012 2020/01/10 1004 JL Journal Entries- Natalie - 81 (63) (81) 20002 202001 8 - - 81 - 81 (63) (81) 20002 202001 9 - - - 10 - 81 (63) (81) 20002 202001 10 - - - 10 - 10 - 10 - - 10 - - 10 - - - - 10 - - - - -	2	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34		34		202001
4 V 0009 2020/01/03 1008 JL Journal Entries- Emma - 97 (42) (97) 202001 5 V 0010 2020/01/08 1009 JL Journal Entries- James - 21 (63) (21) 20001 202001 6 V 0011 2020/01/14 1004 JL Journal Entries- Natalie 81 - 18 81 200002 202001 8 - 10 1004 JL Journal Entries- Natalie - 18 (63) (61) 200002 202001 10 - - - 16 - - 16 - - 10 -	3	V 0008	2020/01/08	1009	JL	Journal Entries- James	21	-	55	1	21	200001	202001
5 V 0010 2020/01/08 1009 JL Journal Entries- James - 21 (63) (21) 200001 202001 6 V 0011 2020/01/14 1004 JL Journal Entries- Natalie 81 - 18 81 200002 202001 7 V 0012 2020/01/10 1004 JL Journal Entries- Natalie - 81 (63) (81) 200002 202001 8 - - 81 (63) (81) 200002 202001 9 - - 81 (63) (81) 20002 202001 10 - - 81 (63) (81) 20002 202001 12 - - 61 - 81 - 13 - - - 10 - - - 14 -	4	V 0009	2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)		(97)		202001
6 V011 2020/01/14 1004 JL Journal Entries- Natalie 81 - 18 81 200002 202001 8 2020/01/10 1004 JL Journal Entries- Natalie - 81 (63) (81) 20002 202001 8 - - 81 (63) (81) 20002 202001 9 - - 81 (63) (81) 20002 202001 10 - - 81 (63) (81) 20002 202001 11 - - 8 (63) (81) 20002 202001 12 - - - 8 (- - 13 - - - 12 - - - 14 - - - - - - - - 15 - - - - - - - - 18 - - - - - - - - - 19 - - - - - - - - - <td>5</td> <td>V 0010</td> <td>2020/01/08</td> <td>1009</td> <td>JL</td> <td>Journal Entries- James</td> <td>-</td> <td>21</td> <td>(63)</td> <td>1</td> <td>(21)</td> <td>200001</td> <td>202001</td>	5	V 0010	2020/01/08	1009	JL	Journal Entries- James	-	21	(63)	1	(21)	200001	202001
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	26						Daily Basis	Monthly basis					
	27		-						}	-			

After clicking OK, you will see the below status:

At lower left box, it shows that Armarecon has found two "one by one" combinations (20001, 200002). You are able to see each combination by selecting mentioned numbers in the box.



1	A	В	С	D	E		F	G	н	I	J	K	L	
1	Voucher No 💌	Effective Date 💌	Cheque No 💌	Туре 💌	Description	-	Debit Am 💌	Credit Am 💌	Balanc 💌	Matching 💌	Movemei 💌	.	-]
3	V 0008	2020/01/08	1009	JL	Journal Entries- James	s	21	-	55		21	200001	202001	
5	V 0010	2020/01/08	1009	JL	Journal Entries- James	s	- 1	21	(63)		(21)	200001	202001	
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28						1	1							
20							1							

Combination will be matched by clicking "Next match" button.

1	A	В	C	D	E		F	G	Н	I	J	ĸ	L
1	Voucher No 💌	Effective Date 💌	Cheque No 💌	Туре 💌	Description	-	Debit Am 💌	Credit Am 💌	Balanc 💌	Matching	Movemei 🔻	T .	
З	V 0008	2020/01/08	1009	JL	Journal Entries	- James	21		55		21	200001	202001
5	V 0010	2020/01/08	1009	JL	Journal Entries	James	-	21	(63)		(21)	200001	202001
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9					_				~)				
10					Arm	arecon		L	25				
11					En	gine Tools	Setup Licence	Contact					
12													
13					Q Q	uery Method							
14						1-X		C4 C5 C					
15					Г	2-X	Accumulated (no	t recomended)					
16					Г	3 - X	Accumulated (no	(recomended)					
17						1-	× 🗆 7 🗖 8 🗖 9	9 🗖 10					
18					V	Restart	Month	V C Daily	1				
19							J						
20					Ma	ittening numb	er:200001						
21								1	1				
22					2	00001	OK	Cancel					
23					2	50002		J					
24							New line ref	Show result					
25							Next match	Next COM	3				
26							G and an in	C					
27						1	V. Daily Basis	 Monthly ba 	SIS				
28													
	8												

For the next combination, you can either select next number in box or click "Next COMB" button.



1	A	В	С	D	E	F	G	н	I	J	K	L
1	Voucher No 🔽	Effective Date 💌	Cheque No 💌 1	īype 💌	Description 📃	Debit Am 💌	Credit Am 💌	Balanc 💌	Matching 💌	Movemei 🔻	Τ.	-
6	V 0011	2020/01/14	1004 J	L	Journal Entries- Natalie	81	-	18		81	200002	202001
7	V 0012	2020/01/10	1004 J	L	Journal Entries- Natalie	- 1	81	(63)		(81)	200002	202001
8 9					Armarecon	1	23					
10					Engine Tools Setup L	icence Contact						
11							T					
12					Query Method							
13					■ 1-X ● 1 0 2	C3 C4 C1	5 0 6					
14						ted (not recomen	ted)					
15					□ □ 3 - X	(
16					1-x □ 7 □	8 🗆 9 🗖 10						
17					Restart 🤅	Monthly C Daily	1					
18					Matching number : 20000	2						
19					Matching number . 20000	2						
20						1						
21					200002	K Ca	ncel	-				
22												
23					I™ New	line ref I Sho	w result					
24					Next	t match 🗌 🗌 Nex	ct COMB					
25						Paris C Mor	the basis					
26							TUTIY Dasis					
27					C							

Now click "Next match" button to match two figures.

	A	В	С	D	E	F	G	Н	I	J	К	L
1	Voucher No 💌	Effective Date 💌	Cheque No 💌	Туре 💌	Description 🗾	Debit Am 💌	Credit Am 💌	Balanc 💌	Matching 🔽	Movemer 💌	" T	-
6	V 0011	2020/01/14	1004	JL	Journal Entries- Natalie	81	-	18	2	81	200002	202001
7	V 0012	2020/01/10	1004	JL	Journal Entries- Natalie	-	81	(63)	2	(81)	200002	202001
8				(Armarecon		23					
9						1 1						
10					Engine Tools Setup Lice	nce Contact						
11					- Ouen Method							
12												
13					G102 0	3 C4 C5	C 6					
14					Accumulate	d (not recomende	d)					
15					3-X 1-X - 7 - 9							
16						. 91 10			10			
17					I✓ Restart (• M	onthly C Daily	1					
18					Matching number : 200002							
19												
20					200001							
21					200002							
22					New lin	e ref Show	result					
23												
24					Next m	Next	СОМВ					
25					I	asis C Month	ly basis					
26												
27						1						

Delete yellow columns, which were created by the program. Then filter Matching column for empty cells to get open amounts.

1	A	В	С	D	E	F	G	Н	I	J	K	L	
1	Voucher No 💌	Effective Date 💌	Cheque No 💌	Туре 🔽	Description 📃	Debit Am 💌	Credit Am 💌	Balanc 💌	Matching 🕂	Movemer 🔽			
2	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34		34			
4	V 0009	2020/01/03	1008	JL	Journal Entries- Emma	-	97	(42)		(97)			
8						1							

Yes, you did it.



Engine detail

Now it is the time to get more details on engine parts:



Part 1 and part 2:

You can decide how the engine perform the query on figures and present the combinations.

We use some abbreviations in query method as below:

One by one method means one positive figure against one negative figure or vice versa

One by two method means one positive figure against two negative figures or two positive figures against one negative figure

Two by three method means two positive figures against three negative figures or three positive figures against two negative figures

🔽 1 - X	~ ~ ~ ~ ~ ~
□ 2 - X	• 1 ° 2 ° 3 ° 4 ° 5 ° 6
_ 2 - A	Accumulated (not recomended)
🗆 3 - X	

Engine shows all combinations of one by one.



▼ 1 - X □ 2 - X □ 3 - X	C 1 € 2 C 3 C 4 C 5 C 6 □ Accumulated (not recomended) 1-x □ 7 □ 8 □ 9 □ 10
Restart	C Monthly
Query Meth	nod
₩ 1 - X	C1 C2 C2 C4 65 C4
🗆 2 - X	
🗆 з - Х	1-x □ 7 □ 8 □ 9 □ 10
Restart	C Monthly 🕫 Daily 🛛 1
Query Meth	nod
🔽 1 - X	C C C C C C
□ 2 - X	
□ з - х	1-x □ 7 □ 8 □ 9 □ 10

Query Method □1-X 01 02 03 04 05 06 ₹ 2 - X □ Accumulated (not recomended) □ 3 - X 1-x T 7 T 8 T 9 T 10 Restart ○ Monthly ● Daily Query Method □ 1 - X C1 C2 C3 @4 C5 C6 🔽 2 - X Accumulated (not recomended) □ 3 - X 1-x T 7 T 8 T 9 T 10 Restart 1

It same for 3-x



If you select each of 7, 8, 9 and 10 engine do not consider any

other process and only take action for these combinations.

Part 3:



▼ 1 - X □ 2 - X	C1 € 2 C3 C4 C5 C6 ✓ Accumulated (not recomended)
□ 3 - Х	1-x T 7 T 8 T 9 T 10
Restart	C Monthly C Daily 3

Engine loads figures day by day if you select daily and enter 1. It means all the figures related to first day are loaded to engine and related combinations will be processed then these figures are unloaded and second day figures will be processed. Figures are processed separately on a daily basis.

Engine loads figures 3 days by 3 days if you select daily and enter 3. It means that all figures which are related to the first 3 days are loaded to engine and related combinations will be processed then these figures are unloaded and the second 3 days figures will be processed. Figures are processed separately for each 3 days.



Engine shows all combinations of one by two.

Engine shows all combinations of one by five.

As accumulated check box is selected the engine shows all combinations one by two, one by three, one by four and one by five.

Note: One by one will not be processed when accumulated method check box is selected

Engine shows combination of two by four.

As accumulated check box is selected so engine shows all two by two, two by three and two by four combinations.

Query Metr	100
	C1 \$2 C3 C4 C5 C6
1 2 - X	Accumulated (not recomended)
□ 3 - X	
Restart	Monthly Daily

Engine loads figures month by month (on a monthly basis) if you select monthly and enter 1. It means that all the figures relating to the first month are loaded to engine and related combinations will be processed then these figures are unloaded and second month figures will be processed. Figures are processed separately for each month.

▼ 1 - X	C1 72 C3 C4 C5 C6
🗆 2 - X	Accumulated (not recommended)
□ 3 - X	· Accumulated (not recomended)
- 5 X	1-x □ 7 □ 8 □ 9 □ 10

Engine load figures 5 months by 5 months if you select monthly and enter 5. It means all figures related to the first 5 months are loaded to engine and related combinations will be processed then this figures are unloaded and second 5 months figures will be processed. Figures are processed separately for each 5 month.

Part 4:



This box shows list of the combinations. First digit shows the number of the figures in each combination and the other figures show the order of combinations. For example, 300001 means that this is the first combination and 3 figures are included in this suggested combination.

You are able to see each combination by selecting related references in this box then related figures will be filtered and presented.

Part 5:

🔽 New line ref 🗆 🗆 Show result

If you are interested to filter the outputs of the engine process and match them together, you will need to select "New line ref" check box.

Part 6:



If you are interested in having a written report for each combination, you should select "Show result" check box.



Result 1	300001	-13 + -21 <=> 34 J24 , J11 <=> J2
Result 2	300002	-13 + -29 <=> 42 J24 , J7 <=> J20
Result 3	300003	-21+-34 <=> 55 J11, J6 <=> J17
Result 4	300004	19+25 <=> -44 J16, J21 <=> J23
Result 5	300005	19+58 <=> -77 J16, J14 <=> J18
Result 6	300006	42+55 <=> -97 J20, J17 <=> J10

к

This report is presented in sheet "Matching control". The column of presentation will be determined in tab "Setup" as below picture.

Armarecon	23
Engine Tools Setup License Con	tact
Balance Amount in each reconciliation	0
Maximum figures to be reconciled	1000
Maximum figures in each scan	100
Print result at end of which column	K
Check Number matching difference	0
Engine max time process (Second)	5
Voice to declare finishing of matchin	g process
	Update Setup

Note: You can select both "New line ref" and "Show result" at the same time to have two outputs together. At least on check box must be selected.

Part 7:

Next COMB

As it has been mentioned in part 4, the engine will present all suggested combinations and you can select them to see the filtered figures. You also can click "Next COMB" button to go to the next combination in the box.

If you tick the button then click it, the engine will show you the next possible combination which none of the figures have been matched with.

Part 8:

Next match

You can match figures of one combination by clicking the "Next match".

If you select check box then click the button, engine matches the current combination and goes to the next combination automatically.



Part 9:

This part is used to how to present next desired combination from processed combinations. The Figure in the box shows highest difference between first and last date or months in each combination.

If you enter 1 and select the daily basis, the engine shows only those combinations that have happened in the same day.

If you enter 7 and select daily basis, the engine shows only those combinations which have happened in only 7 days and not more. Shows those combinations that Difference of lowest and highest date are less than 7 days.

Un-checked box means that this part is disabled.

Part 10:

Restart

You need to double click "Restart" button to restart the program. If check box is not selected, you must select figures, which you are interested to process them then double click "Restart" button.

If check box is selected, the engine considers prior (previous) selection and restarts the program then shows only un-matched figures in order to do more processes.

Part 11:

This tick means that the program will be launched from this tab.

Note: engine captures only those figures and values that are visible and not zero. Engine does not capture any errors and texts within selection.

As engine captures only visible figures, you will need to filter un-matched figures then run the engine for processing.

Some fields in the setup tab that enable you to control matching process in order to get efficient output:





Part 1 (Balance Amount in each reconciliation):

In some cases, you need to find some combinations that their balance are not zero. You can determine balance of combinations can be other than zero in this field. If you enter 50, engine shows you all combinations, which their balance amount are equal or less than 50.

Part 2 (Maximum figures to be reconciled):

You can determine maximum quantity of figures that can be selected for the engine process.

Part 3 (Maximum figures in each scan):

This box is very important for effective reconciliation. Imagine this box value is set to 100 then you ask the engine to process figures each 5 days and at first 5 days there are 264 figures. Engine loads 100 figures and processes them. Unloads the first 100 figures then loads the second 100 figures and processes them. Again unloads them and loads the last 64 figures for processing. After that, the engine starts processing the second 5 days.

If you increase the quantity of this box, quantity of possible combinations and time of processes goes up astronomically. Optimized quantity depends on your computer's CPU hard drive speed, RAM and other hardware's capacity. You must find optimized quantity by your own experience.

Part 4 (Engine max time process):

This box asks the engine to stop processing after elapsing of determined minutes.

Part5 (Voice to declare finishing of matching process):

If you tick this part, the engine informs you the end of the process by system voice.



Quick sort detail

Quick sort helps you to find one by one combinations without running engine. It is highly recommended that match all one by one combinations by quick sort then run engine for other combinations.

Select figures that you want to reconcile then run the Armarecon. Go to Tools tab and then double click the "Quick Sort" button. Seven new yellow columns will be created which assist you to reconcile one by one combinations.

1	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S
1		Debit Amt.	Credit Amt.	Closing Balance	Ref	Movement	Reviewed	No of Opens	Ref Balance	Movement	Ref count	Absolut Movement	Rec Row	
2		34	2.0	34		34	to be reviewed	-	-	34	4	34	2	
3	6		10	1911	53	(95)	OK	(1)	(95)	(95)	1	95	3	
4		Armarecon		100		17	OK	1	17	17	1	17	4	
5		Engine Tools	Setup License	e Contact		29	to be reviewed	-	0-0	29	2	29	5	
6						(34)	to be reviewed	-	-	(34)	4	34	6	
7		- Sorting and ar	nalysing	agent.		(29)	to be reviewed		-	(29)	2	29	7	
8		Ouick Sort	Next Ma	tch Same Date		69	OK	1	69	69	1	69	8	
9					-	21	to be reviewed	(1)	(21)	21	3	21	9	

Rec Row: This column presents row of data which if you are interested to sort back your data to before process.

Absolute movement: This column shows absolute of selected figures. This column presents positive amount of selected figures without considering their sign.

Ref count: This column shows the frequency of each figure, no matter what is their sign.

Movement: This column is exactly as same as selected figures.

Ref Balance: this column shows the balance of positive and negative of each figures. For example, if we have 5 figure 7 and 3 figure -7 this column show 14. (7+7+7+7+7-7-7=14)

No of Open: it shows how many figures will not be matched considering positive and negative sign of these figures. For this example (7+7+7+7+7-7-7-7) this column shows 2.

Reviewed: the phrase "to be reviewed" means that there is a possibility that this row can be matched. If you see, "OK" means that there is no possibility to match this figure with opposite sign.

Now sort "Absolute Movement" column.

Filter "Reviewed" column by "to be reviewed"

Note: In some cases, sorting of date column before sorting of "Absolute Movement" column helps the matching progress.



- 14	A	В	C	D		E		F	G	н	I	J	K	L	М	N	0	P	Q
1	Voucher No	* Effective D *	Cheque No ~	Ty -	Description	n	-	*	Debit Ar -	Credit Ar -	Closing Bala ~	Ref 🚽	Moveme ~	Review 🗐	No of Ope -	ef Balar 😁	Moveme ~	Ref cou -	Absolut Moveme 📲 Re
6	V 0008	2020/01/08	1009	JL (Journal Ent	tries-James	1		21	-	12		21	to be reviewed	(1)	(21)	21	3	21
7	V 0010	2020/01/08	1009	JL	Journal Ent	tries-James	1		1	21	(106)		(21)	to be reviewed	(1)	(21)	(21)	3	21
8	V 0031	2020/01/20	1016	j L	Journal Ent	tries- Jennifer	1			21	73		(21)	to be reviewed	(1)	(21)	(21)	3	21
11	V 0004	2020/01/04	1005	i JL	Journal Ent	tries- Lionel	1		29	1.7	(15)		29	to be reviewed		5	29	2	29
12	V 0006	2020/01/05	1005	i JL	Journal Ent	tries- Lionel	1			29	(78)		(29)	to be reviewed		5	(29)	2	29
14	V 0001	2020/01/01	1001	JL	Journal Ent	tries- Anjelina	1		34		34		34	to be reviewed		5	34	4	34
15	Armarecon				23	ies- Anlelina			1	34	(49)		(34)	to be reviewed		-	(34)	4	34
16	V	10,000,000,000				les- Robert	1			34	2		(34)	to be reviewed		a	(34)	4	34
17	V Engine T	ools Setup Lic	ense Contac	ct		les- Robert	1		34		36		34	to be reviewed		-	34	4	34
23	M					ies- David			58	-	(48)		58	to be reviewed	1	58	58	3	58
24	M				1.	les- David	1		1	58	(32)		(58)	to be reviewed	1	58	(58)	3	58
25	V Sorting	and analysing				ies- Harrison	į.		58		94		58	to be reviewed	1	58	58	3	58
27	Quick	Sort Nex	t Match	Same	Date	ies- Jim	i i		77	-	29		77	to be reviewed		5	77	2	77
28	Y					les- Jim	i i		1	77	26		(77)	to be reviewed		<u>.</u>	(77)	2	77
29	7000	want and si				les- Natalie	1		81	-	(25)		81	to be reviewed	÷.	÷.	81	2	81
30	V Zero mo	vernent analysis				les- Natalie	1		1	81	(106)		(81)	to be reviewed		÷.	(81)	2	81
33	C Zero	Move Match	move S	how I	Moves		1												
34				_			1												
35		1					1												
56	Rest	art					1												
3/							1												
20	Consolid	lating and cheque	es tools				1												
39	Consoli	dating Check	Match Ev	tract	chk No		1												
40		dacing check		crace	CIRCINO		1												
41							1												
42	Facilitate	e tools					1												
40	Match		r clear F	Ref Ba	ance														
45																			
46																			
				-		<i>.</i>	1												

As you see, figures are sorted (no matter the sign).

For matching figures, you just need to select one of cells of each row together then click "Next Match" button.

Note: "Next Match" button is activated when check box is selected.

- 54	A	В	C	D	E		F	G	н	I	J	K	
1	Voucher No	- Effective D -	Cheque No -	Ty -	Description	-	-	Debit Ar -	Credit Ar -	Closing Bala -	Ref	Moveme	-
6	V 0008	2020/01/08	3 1009	JL	Journal Entries-James			21	-	12		1 2	21 1
7	V 0010	2020/01/08	1009	JL	Journal Entries-James			-	21	(106)		1 (2	21) 1
8	V 0031	2020/01/20	1016	JL	Journal Entries- Jennife	er			21	73		(2	21) 1
11	V 0004	2020/01/04	1005	JL	Journal Entries- Lionel	Armarecon				23		2	29 1
12	V 0006	2020/01/05	1005	JL	Journal Entries- Lionel	Annarccon						(2	29) 1
14	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelin	Engine Too	Is Se	etup Licens	e Contact				34 1
15	V 0005	2020/01/01	1001	JL	Journal Entries- Anlelin		- C-					(3	34) 1
16	V 0028	2020/01/20	1014	JL	Journal Entries- Robert							(3	34) 1
17	V 0029	2020/01/20	1014	JL	Journal Entries- Robert	Sorting and	anar	ysing					34 1
23	V 0013	2020/01/03	3 1006	JL	Journal Entries- David	Ouick So	rt	Next Ma	atch I Sar	me Date		5	58 1
24	V 0018	2020/01/14	1006	JL	Journal Entries- David							(5	58) 1
25	V 0030	2020/01/20	1015	JL	Journal Entries- Harrise	-						5	58 1
27	V 0014	2020/01/12	2 1002	JL	Journal Entries- Jim	Zero move	ment	analysis				7	77 1
28	V 0017	2020/01/12	2 1002	JL	Journal Entries- Jim	Zero M	ove	Match mo	ve Sho	w Moves		(7	77) 1
29	V 0011	2020/01/14	1004	JL	Journal Entries- Natali							8	31 1

In this example, I noticed figure 21 is debited one time and credited two times. Based on description I decided to match rows no 6 and 7 together and leave row 8 so I selected E6 and E7 then clicked "Next Match" button. Armarecon entered 1 in "ref" column means that these two figures have been matched with each other.

Repeat this action to match other figures.

Note 1: I selected E6 and E7 then clicked "Next Match" button. I also could select any of columns other than the E column, and the result was the same.

Note 2: when I run the program, I selected "ref" column as matching column so this Armarecon consider this column for matching.



Note 3: If we do not consider the sign of figures you can notice frequency of figures are different as below:

- 21 three times
- 29 two times
- 34 four times
- 58 three times

You can filter "Ref count" column by two then you will have only figures with frequency of two no matter of their sign. It helps you to do your reconciliations faster. You can filter for other frequencies in the next step of matching process.

Moveme - Ref Court AL
20 2
29 2
(29) 2
77 2
(77) 2
81 2
(81) 2

As you see only figures with frequency of 2, are presented.

Note 4: you can select all desired figures then match them with one matching number. It does not need to match each figure separately. For example in this picture I matched all figures 29, 77, 81 together with one match figure.

	A	A B C D E		E		F	G	Н	I	J		K		
1	Voucher No	- Effect	ive D 🗂	Cheque No -	Ty ~	Description	-	-	Debit Ar ~	Credit Ar -	Closing Bala ~	Ref	Ä	Moveme -
11	V 0004	202	0/01/04	1005		Iournal Entries- Lignel			29	0.70	(15)		2	29
12	V 0006 Arr	narecon				Σ3 hel			53	29	(78)		2	(29)
27	V 0014		1-1-	. 1	2	.1			77	0.70	29	- 1	2	77
28	V 0017 E	ngine 100	is Set	tup License	Cont	act			53	77	26	- 1	2	(77)
29	V 0011					🔽 talie	e i		81	0.70	(25)		2	81
30 33	V 0012	Sorting an	d analy	sing		talie	e		53	81	(106)		2	(81)

Note 5: button "Same Date" highlights rows with the same date.

Note 6: "Quick Sort" captures only those figures which are visible, neither zero nor error. It means that un-matched figures (Empty cells in matching column here is "ref") can be filtered then "Quick Sort" to be applied for un-matched figures.

Note 7: Data can be sorted back to first order by soring "Rec Row" column.



Zero Movement Analysis

Select figures then click "Zero Move" button.



Figures other than zero in column "Number of zero movement" tell us how many movements with zero balance are ended until this row. In this picture cell M30 is equal to 2 means that there are two movements (K29:K30 and K24:K30) with zero movement.

If you select a cell other than zero located in column "Number of zero movement" then click "Show Moves", Armarecon shows you the beginning and the end of each zero movement by arrows same as above picture. Now you can select one of cells of rows 24 or 29 then click "Match move" to match the zero movement.

23 24	2020/01/15 2020/01/19	1007 JL 1013 JL	bl Dl	Quick Sort Next Match Same Date	44 13	36 23		(44) (13)	- 3	1.1
25	2020/01/19	1013 JL	bL		57	(34)	1	(57)	\-	120
26	2020/01/19	1013 JL	Jd	Zero movement analysis		(3)	1	31		
27	2020/01/19	1013 JL	Jd	Zero Move Match move Show Moves		24	1	27	- \	123
28	2020/01/19	1013 JL	Jd			36	1	12	- \	1
29	2020/01/20	1014 JL	Jd		34	2	1	(34)	2	
30	2020/01/20	1014 JL	Jd	Restart		36	1	34		2
31	2020/01/20	1015 JL	Pr			94	~	58	-	-



Automatic matching by "zero Move" button:

Tick check box then click "zero Move" button. Armarecon will find all zero movements then automatically match them together.

- 54	В	С	D	E	F	G	н	I	J	K	L	M
1	Effective D ~	Cheque No -	Ту –	Description	-	Debit Ar -	Credit Ar -	Closing Bala * :	-	Moveme *	DNA	movement
2	2020/01/01	1001	JL	Journal Entries- Anjelina		34	-	34		34	-	-
3	2020/01/03	1003	JL	Journal Entries- Leonardo		-	95	(61)		(95)	-	-
4	2020/01/04	1010	JL	Journal Entries- Amy		17	-	(44)		17	- 1	-
5	2020/01/04	1005	JL	Journal Er			57	(15)		29	- 1	-
6	2020/01/01	1001	JL	Journal El Armarecon				(49)		(34)	- 1	14
7	2020/01/05	1005	JL	Journal El Engine Tools Setup	License	Contact		(78)		(29)	- 1	-
8	2020/01/01	1011	JL	Journal E	License	concace	-	(9)		69	- 1	14
9	2020/01/08	1009	JL	Journal Ei			12	12		21		-
10	2020/01/03	1008	JL	Journal E			1	(85)		(97)		-
11	2020/01/08	1009	JL	Journal El Quick Sort	oxt Mot	ch Sam	o Doto	(106)	0	(21)		-
12	2020/01/14	1004	JL	Journal E	EAL Mai		e Date	(25)	3	81	1	12
13	2020/01/10	1004	JL	Journal E	1110			(106)	3	(81)	- 1	1
14	2020/01/03	1006	JL	Journal E	is		1	(48)	-	58		-
15	2020/01/12	1002	JL	Journal El	ch mou	Chou	Movos	29		77		12
16	2020/01/01	1007	JL	Journal E			Moves	48		19		-
17	2020/01/01	1008	JL	Journal E				103		55		-
18	2020/01/12	1002	JL	Journal E				26		(77)		-
19	2020/01/14	1006	JL	Journal E				(32)		(58)		-
20	2020/01/15	1008	JL	Journal E				10		42		-
21	2020/01/17	1007	JL	Journal E	000 000	1	1	35		25		-
22	2020/01/18	1012	JL	Journal El Consolidating Che	eck Mat	ch Extrac	t chk No	80		45		-
23	2020/01/15	1007	JL	Journal E				36	0	(44)		-
24	2020/01/19	1013	JL	Journal E				23	2	(13)	3	-
25	2020/01/19	1013	JL	Journal E		1	1	(34)	2	(57)		-
26	2020/01/19	1013	JL	Journal El Match CNT	Err clea	ar Ref E	Balance	(3)	2	31		-
27	2020/01/19	1013	JL	Journal E				24	2	27	- (14
28	2020/01/19	1013	JL	Journal E				36	2	12	- 1	1
29	2020/01/20	1014	JL	Journal Entries- Robert			34	2	1	(34)	2	-
30	2020/01/20	1014	JL	Journal Entries- Robert		34		36	1	34	-	2
31	2020/01/20	1015	JL	Journal Entries- Harrison		58		94		58		-
77	2020/01/20	1010	11	Income I Francisco Incomition	5		24	CT		(24)		

This functionality is useful for certain accounts such as net salary payable, SSO and ... which are settled periodically.



Check Match

If check number column is available, click "Check Match" button and select one cell of "Check number" column then Armarecon matches all figures with the same check number with balance less than field "Check number matching difference" box in setup tab. The value of this box is set zero as default so Armarecon matches those figures with the same check number and balance zero.



Armarecon	23
Engine Tools Setup License Contac	t]
Balance Amount in each reconciliation	0
Maximum figures to be reconciled	1000
Maximum figures in each scan	100
Print result at end of which column	К
Check Number matching difference	0
Engine max time process (Second)	5
\square Voice to declare finishing of matching p	rocess
Setup was updated at 17:01:46	
	Update Setup

Note: "Check Match" button main function is matching figures with same check number but it can be used for any common data other than check number such as supplier code, customer code, etc.



Extract Check Number

If check number is embedded within text, you can extract check numbers from text by clicking "Extract chk No" button and select the check column then Armarecon will create a new column, which includes only check numbers.

2020/01/18	1012	1012 JL	Jou	. Researc		
2020/01/15 C100	07	1007 L	Jou	Consolidating and	d cheques tools –	
2020/01/19 1013	BB	1013 L	Jou			
2020/01/19 C101	l3bank	1013 L	Jou	Consolidating	Check Match	Extract chk No
2020/01/19	1013	1013 JL	Jou			
2020/01/19	1013	1013 JL	Jou	Facilitate tools -		

Consolidation

For bank reconciliation, you need to consolidate GL account and Bank statement in on sheet then perform the matching process.

Let's show the process by an example.

Imagine we have GL account details as below:

1	A	В	С	D	E	F	G	н
1	Voucher No	Effective Date	Cheque No	Туре	Description	Debit Amt.	Credit Amt.	Closing Balance
2	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34
З	V 0002	2020/01/03	1003	JL	Journal Entries- Leonardo	-	25	9
4	V 0003	2020/01/04	1010	JL	Journal Entries- Amy	17	-	26
5	V 0004	2020/01/04	1005	JL	Journal Entries- Lionel	29		55

And bank statement as below:

1	A	В	С	D	E	F	G	н
1	Cheque No	Customer	Code	Effective Date	Description	Debit Amt.	Credit Amt.	Closing Balance
2	1001	Company 1	A1	2020/01/01	Receipiant - Sam		43	(43)
3	1003	Company 1	A2	2020/01/03	Receipiant - Leonardo	25		(18)
4	1010	Company 1	A3	2020/01/04	Receipiant - Amy		17	(35)
5	1005	Company 1	A4	2020/01/04	Receipiant - Emily	8		(27)

In first step, we have to determine the order of the consolidated sheet. We assume the order should be as below:

1	A	В	С	D	E
1	Effective Date	Cheque No	Description	Debit Amt.	Credit Amt.

Now we must use # sign in each statement and give the order of the column to the program. In this step add a blank row above of first line and write order of column by #1, #2, #3,..



1	A	В	С	D	E	F	G	Н
1		#1	#2		#3	#4	#5	
2	Voucher No	Effective Date	Cheque No	Type	Description	Debit Amt.	Credit Amt.	Closing Balance
3	V 0001	2020/01/01	1001	JL	Journal Entries- Anjelina	34	-	34
4	V 0002	2020/01/03	1003	JL	Journal Entries- Leonardo	1	25	9
5	V 0003	2020/01/04	1010	JL	Journal Entries- Amy	17	-	26
6	V 0004	2020/01/04	1005	JL	Journal Entries- Lionel	29	-	55

1	A	В	С	D	E	F	G	Н
1	#2			(#1)	#3	#4	#5	
2	Cheque No	Customer	Code	Effective Date	Description	Debit Amt.	Credit Amt.	Closing Balance
3	1001	Company 1	A1	2020/01/01	l Receipiant - Sam		43	(43)
4	1003	Company 1	A2	2020/01/03	Receipiant - Leonardo	25		(18)
5	1010	Company 1	A3	2020/01/04	Receipiant - Amy		17	(35)
6	1005	Company 1	A4	2020/01/04	Receipiant - Emily	8		(27)

We determined that date column should be the first column by using #1, Check number as second column by using #2.

Now click "Consolidating" button then select the row included # sing in first statement and click OK afterward again select the rows included # sign in second statement and click OK after that, program will create consolidate sheet.

1	A	В	С	D	E	
1	Effective Date	Cheque No	Description	Debit Amt.	Credit Amt.	
2	2020/01/01	1001 Journal Entries- Anjelina		34	0	
3	2020/01/03 1003		Journal Entries- Leonardo	0	25	
4	2020/01/04 1010		Journal Entries- Amy	17	0	
5	2020/01/04	1005	Journal Entries- Lionel	29	0	
6	Effective Date	Cheque No	Description	Debit Amt.	Credit Amt.	
7	2020/01/01	1001	Receipiant - Sam	0	43	
8	2020/01/03	1003	Receipiant - Leonardo	25	0	
9	2020/01/04	1010	Receipiant - Amy	0	17	
10	2020/01/04	1005	Receipiant - Emily	8		

Now add matching and movement column then start matching progress.

1	A	В	С	D	E	F	G
1	Effective Date	Cheque No	Description	Debit Amt.	Credit Amt.	Mathcing	Movement
2	2020/01/01	1001	Journal Entries- Anjelina	34	0		34
3	2020/01/03	1003	Journal Entries- Leonardo	0	25		-25
4	2020/01/04	1010	Journal Entries- Amy	17	0		17
5	2020/01/04	1005	Journal Entries- Lionel	29	0		29
6	Effective Date	Cheque No	Description	Debit Amt.	Credit Amt.		1
7	2020/01/01	1001	Receipiant - Sam	0	43		-43
8	2020/01/03	1003	Receipiant - Leonardo	25	0		25
9	2020/01/04	1010	Receipiant - Amy	0	17		-17
10	2020/01/04	1005	Receipiant - Emily	8			8



Matching control sheet

This sheet is created at first run of Armarecon or you can create it by clicking "Match CNT" button.

1	A	В	С	D	E	F
1	1				Sum Matched Difference	56
2	2	-			Max Match Number	6
3	3	671				
4	4	-				
5	5	69				
6	6 -	13				
7	7	671			Number of figures	31
8	8	-			Number of matched figures	10
9	9	071			Number of unmatched figures	21

This sheet includes some information to assist you to control matching process.

Row A shows list of matching references.

Row B shows balance of matching references. This balances normally should be zero otherwise must be investigated the reason. In this picture balance of match references 5 and 6 are not zero so user must go to detail and find the reason.

"Sum Matched Difference" shows total balance of all references. This should be zero otherwise; user must go to detail and find the reason. It is 56 in above picture comprises 69 and -13.

"Max Match Number" shows the highest matching reference number, which is used by user.

"Number of figures" shows the number of figures which user selected in order to do matching process.

"Number of matched figures" shows the number of matched figures which user has matched within the process.

"Number of unmatched figures" shows the number of unmatched figures which are not matched yet.



Removing Errors

You can change cells with error value to zero or blank cells by clicking regretation button. Check box switches the functionality of button between Zero and blank. Select cells then click the button to remove the errors.

		Facilitate tools
	Err Zero Ref Balance	Match CNT
Movement	Movement	Movement
34	34	34
-25	-25	-25
17	17	17
29	29	29
0	\bigcirc	#VALUE!
-43	-43	-43
25	25	25
-17	-17	-17
8	8	8

[Ref Balance] button

A column contains balance of matching references will be added by double clicking Ref Balance button. User can create a pivot table to do more analysis for matching balances.

- sal	В	C	D	E	F	G	н	I	J	K	L
1	Effective D -	Cheque No -	Ty -	Description	-	Debit Ar ~	Credit Ar -	Closing Bala * :	-	Moveme ~	
2	2020/01/01	1001	JL	Journal Entries- Anjelina		34	-	34	3	34	-
3	2020/01/03	1003	JL	Journal Entries- Leonardo		-	95	(61)	11	(95)	(116)
4	2020/01/04	1010	JL	Journal Entries- Amy		17	10.00	(44)	-	17	
5	2020/01/04	1005	JL	Journal Entries- Lionel		29	8. . .	(15)	2	29	-
6	2020/01/01	1001	JL	Journal Entries- Anlelina		-	34	(49)	3	(34)	-
7	2020/01/05	1005	JL	Journal Entries- Lionel		-	29	(78)	2	(29)	-
8	2020/01/01	1011	JL	Journal Entries- Brad		69	81 7 .1	(9)		69	
9	2020/01/08	1009	JL	Journal Entries- James		21	1.7	12	1	21	-
10	2020/01/03	1008	JL	Journal Entries- Emma		-	97	(85)	9	(97)	-
11	2020/01/08	1009	JL	Journal Entries- James			21	(106)	1	(21)	-
12	2020/01/14	1004	JL	Journal Entries- Natalie		81	-	(25)	7	81	-
13	2020/01/10	1004	JL	Journal Entries- Natalie		-	81	(106)	7	(81)	-
14	2020/01/03	1006	JL	Journal Entries- David		58	1000	(48)	5	58	-
15	2020/01/12	1002	JL	Journal Entries- Jim		77		29	6	77	-
16	2020/01/01	1007	JL	Journal Entries- Cristiano		19	85.55	48	8	19	-
17	2020/01/01	1008	JL	Journal Entries- Emma		55	81 - 1	103	9	55	-
18	2020/01/12	1002	JL	Journal Entries- Jim		-	77	26	6	(77)	-
19	2020/01/14	1006	JL	Journal Entries- David		-	58	(32)	5	(58)	-
20	2020/01/15	1008	JL	Journal Entries- Emma		42	80.00	10	9	42	-
21	2020/01/17	1007	JL	Journal Entries- Cristiano		25	80.00	35	-	25	-
22	2020/01/18	1012	JL	Journal Entries- Charlize		45	8. - 1	80	12	45	45
23	2020/01/15	1007	JL	Journal Entries- Cristiano		-	44	36	8	(44)	-
24	2020/01/19	1013	JL	Journal Entries- Zinedine			13	23	10	(13)	-

Balance of matching references 11 and 12 are not zero in above picture.



Effective reconciliation:

There are some tips, which help you to perform effective matching. This part will be updated based on feedback of users in future.

- Save your file with new version within matching process in order to not miss data in case of hanging
- As first step, use "Check match" button in case of existing check column in bank reconciliation or common identical data such as supplier code, customer code, etc.
- Use quick sort in next step to match one by one combinations to reduce unmatched figures as much as possible. Less unmatched figures means faster engine output in next steps.
- If you feel some of figures will not be matched with other figures at all, you can use predetermined match reference such as "Temp" in order to remove that figures from matching process temporarily. You will remove "Temp" reference at the end of matching process to report them as unmatched figures.
- In next step, run engine to find (1-X) one by two, one bye three and others separately (do not use accumulated in huge data). Do the same for 2-X and 3-X.
- Run engine daily with 1 day and match figures then increase number of days based on system power and your experience. The aim is to divide figures to groups with less number of figures in order to reduce number of possible combination.
- Find optimized maximum figures in each scan and update related box in setup page
- Find optimized engine max time process then update related box in setup page in order to avoid missing data and time in case of hanging

