

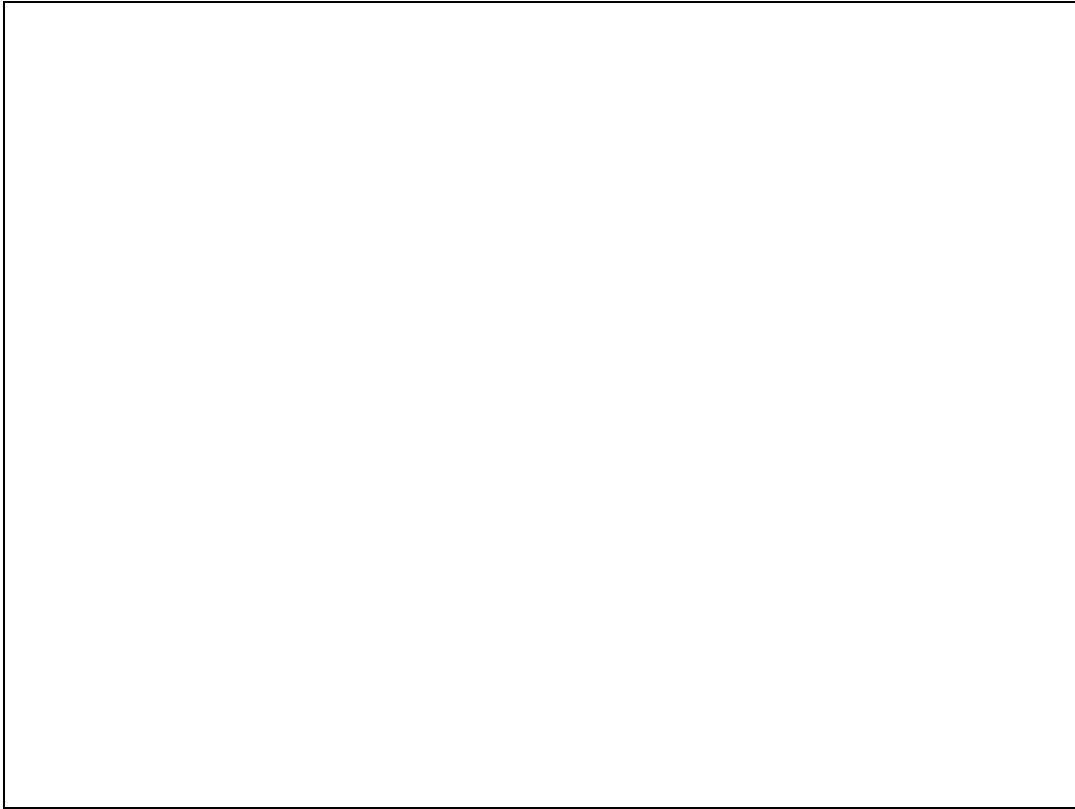
Purchase Order Invoice Processing, Range Report.

Select Invoices from May 2009 (p 100) to Jul 2010 (p 114) .
Order Number Pattern is: []

Transaction Key	Invoice #	Quantity	Amount	Item Description	P.O. Number	Supplier
1548042757	123	10.00	70.00	[inv] Photo Paper	99999a	c00002 ABC Stationery
1548043101	123	5.00	35.00	[inv] Photo Paper	99999b	c00002 ABC Stationery
1548045072	123c	5.00	25.00	[inv] Photo Paper	99999c	c00001 Aanad & Withwal
1548045140	123d	5.00	35.00	[inv] Photo Paper	99999d	c00002 ABC Stationery
1548045581	123f	5.00	35.00	[inv] Photo Paper	99999f	c00002 ABC Stationery
1528673916	168	1.00	800.00	[inv] Olympus Camera Mas	168	c00001 Aanad & Withwal
1528673916G	168	1.00	100.00	[inv] Widgets	168	c00001 Aanad & Withwal
1536049387	201	10.00	4,000.00	[inv] Nikon Coolpix 4100	201	c00001 Aanad & Withwal
1536671671	2202	2,000.00	1,600,000.00	[inv] Olympus Camera Mas	2202	c00001 Aanad & Withwal
1536671671G	2202	2,000.00	800,000.00	[inv] Nikon Coolpix 4100	2202	c00001 Aanad & Withwal
1548051671	99999g	5.00	35.50	[inv] Photo Paper	99999g	c00002 ABC Stationery
1548054297	99999h	5.00	38.50	[inv] Photo Paper	99999h	c00002 ABC Stationery
1548054480	99999i	5.00	38.50	[inv] Photo Paper	99999i	c00002 ABC Stationery
1548127502	99999k	2.00	1,700.00	[inv] Olympus Camera Mas	99999k	c00002 ABC Stationery
1548131381	99999l	1.00	770.00	[inv] Olympus Camera Mas	99999l	c00002 ABC Stationery
1548145541	99999m	1.00	790.00	[inv] Olympus Camera Mas	99999m	c00002 ABC Stationery
1548148089	99999o	1.00	800.00	[inv] Olympus Camera Mas	99999o	c00002 ABC Stationery
1548148097A	99999o	10.00	80.00	[inv] Photo Paper	99999o	c00002 ABC Stationery
1548148098A	99999o	1.00	1,600.00	[inv] Widgets	99999o	c00002 ABC Stationery
1548559779	99999p	1.00	790.00	[inv] Olympus Camera Mas	99999p	c00002 ABC Stationery
1548559817A	99999p	1.00	790.00	[inv] Widgets	99999p	c00002 ABC Stationery
1548560668	99999q	1.00	790.00	[inv] Olympus Camera Mas	99999q	c00002 ABC Stationery
1548560682A	99999q	1.00	790.00	[inv] Widget	99999q	c00002 ABC Stationery
1548561121	99999r	1.00	780.00	[inv] Olympus Camera Mas	99999r	c00002 ABC Stationery
1548561130A	99999r	1.00	780.00	[inv] Widget	99999r	c00002 ABC Stationery
1535419234	abc-02	1.00	800.00	[inv] Olympus Camera Mas	me01	c00001 Aanad & Withwal
1535446074	abc/03	1.00	800.00	[inv] Olympus Camera Mas	me02	c00001 Aanad & Withwal
1535446084	abc/03	1.00	11.00	[inv] Nikon MI-3 Remote	me02	c00001 Aanad & Withwal
1535418722	abc/2	1.00	800.00	[inv] Olympus Camera Mas	ABC.100113-1	c00001 Aanad & Withwal
1535418746	abc/2	1.00	11.00	[inv] Nikon MI-3 Remote	ABC.100113-1	c00001 Aanad & Withwal
1536330154	ABC/33302	5.00	46.55	[inv] Olympus Camera Mas	33302	c00002 ABC Stationery
1536330157A	ABC/33302	10.00	73.50	[inv] Nikon Coolpix 4100	33302	c00002 ABC Stationery

Slide 1

Slide notes: With Docwriter we produce HTML or Web Page Reports. These Reports often include HTML Units, and a Unit is really a piece of Report that is specified on 1 Line, but that can expand to any number of Iterations, depending on what is found at runtime.



Slide 2

Slide notes: When we look at this Report result, we can say that the entire section of Item Lines are just 1 Unit, with many Iterations.

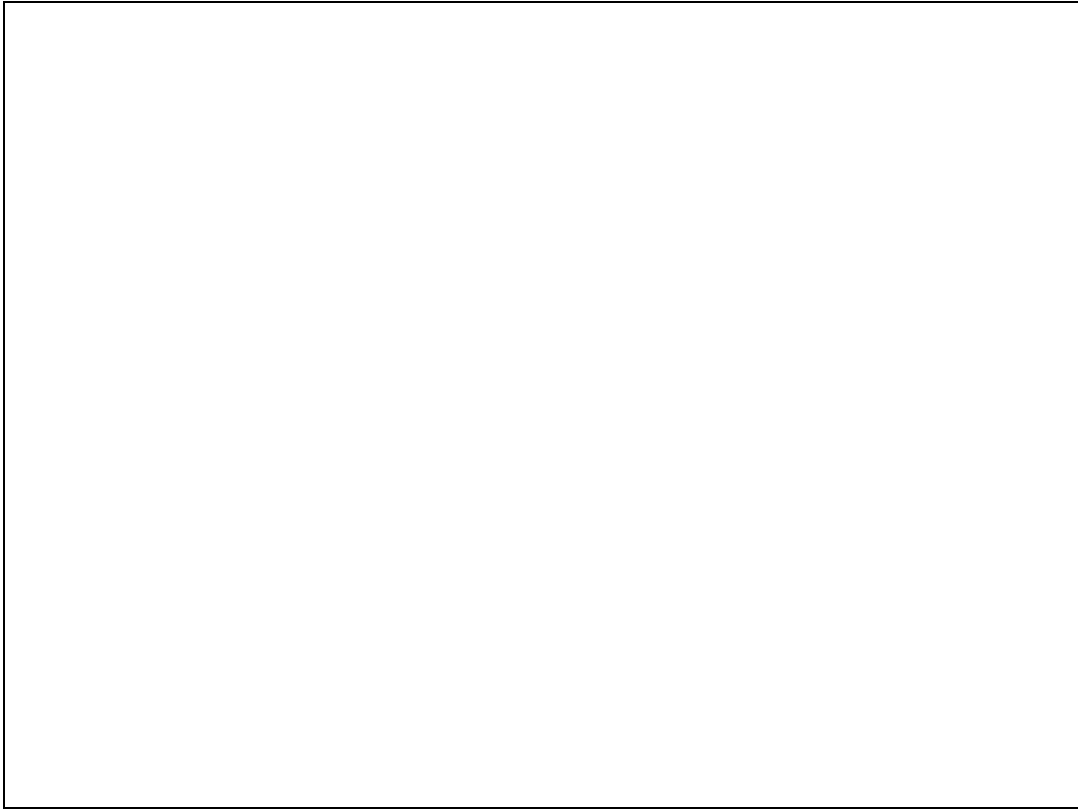
Purchase Order Invoice Processing, Range Report

Select Invoices from May 2009 (p 100) to Jul 2010 (p 114) .
Order Number Pattern is:

Transaction Key	Invoice #	Quantity	Amount	Item Description	PO Number	Supplier
1548042767	123	10.00	30.00	(m) Photo Paper	99999a	c00002 ABC Stationery
1548043101	123	5.00	35.00	(m) Photo Paper	99999b	c00002 ABC Stationery
1548045072	123c	5.00	25.00	(m) Photo Paper	99999c	c00001 Aasad & Withwal
1548045140	123d	5.00	35.00	(m) Photo Paper	99999d	c00002 ABC Stationery
1548045581	123f	5.00	35.00	(m) Photo Paper	99999f	c00002 ABC Stationery
1529673916	168	1.00	800.00	(m) Olympus Camera Mas	168	c00001 Aasad & Withwal
1529673916G	168	1.00	100.00	(m) Widgats	168	c00001 Aasad & Withwal
1536049387	201	10.00	1,000.00	(m) Nikon Coolpix 4100	201	c00001 Aasad & Withwal
1536671671	2202	2,000.00	1,600,000.00	(m) Olympus Camera Mas	2202	c00001 Aasad & Withwal
1536671671G	2202	2,000.00	900,000.00	(m) Nikon Coolpix 4100	2202	c00001 Aasad & Withwal
1548051671	99999g	5.00	35.50	(m) Photo Paper	99999g	c00002 ABC Stationery
1548054297	99999h	5.00	38.50	(m) Photo Paper	99999h	c00002 ABC Stationery
1548054480	99999i	5.00	38.50	(m) Photo Paper	99999i	c00002 ABC Stationery
1548127502	99999k	2.00	1,700.00	(m) Olympus Camera Mas	99999k	c00002 ABC Stationery
1548131381	99999l	1.00	770.00	(m) Olympus Camera Mas	99999l	c00002 ABC Stationery
1548145541	99999m	1.00	790.00	(m) Olympus Camera Mas	99999m	c00002 ABC Stationery
1548148089	99999n	1.00	800.00	(m) Olympus Camera Mas	99999n	c00002 ABC Stationery
1548148097A	99999o	10.00	30.00	(m) Photo Paper	99999o	c00002 ABC Stationery
1548148098A	99999p	1.00	1,600.00	(m) Widgats	99999p	c00002 ABC Stationery
1548559779	99999q	1.00	790.00	(m) Olympus Camera Mas	99999q	c00002 ABC Stationery
1548559817A	99999r	1.00	790.00	(m) Widgats	99999r	c00002 ABC Stationery
1548560668	99999s	1.00	790.00	(m) Olympus Camera Mas	99999s	c00002 ABC Stationery
1548560682A	99999t	1.00	790.00	(m) Widgats	99999t	c00002 ABC Stationery
1548561121	99999u	1.00	780.00	(m) Olympus Camera Mas	99999u	c00002 ABC Stationery
1548561130A	99999v	1.00	780.00	(m) Widgats	99999v	c00002 ABC Stationery
1535419234	abc02	1.00	800.00	(m) Olympus Camera Mas	me01	c00001 Aasad & Withwal
1535446074	abc03	1.00	800.00	(m) Olympus Camera Mas	me02	c00001 Aasad & Withwal
1535446084	abc03	1.00	11.00	(m) Nikon MI-3 Remote	me02	c00001 Aasad & Withwal
1535418722	abc02	1.00	800.00	(m) Olympus Camera Mas	ABC 100113-1	c00001 Aasad & Withwal
1535418746	abc02	1.00	11.00	(m) Nikon MI-3 Remote	ABC 100113-1	c00001 Aasad & Withwal
153630154	ABC/33302	5.00	46.55	(m) Olympus Camera Mas	33302	c00002 ABC Stationery
153630157A	ABC/33302	10.00	73.50	(m) Nikon Coolpix 4100	33302	c00002 ABC Stationery

Slide 3

Slide notes:



Slide 4

Slide notes:

Purchase Order Invoice Processing, Range Report.

Select Invoices from May 2009 (p 100) to Jul 2010 (p 114) .
Order Number Pattern is: []

Transaction Key	Invoice #	Quantity	Amount	Item Description	P.O. Number	Supplier
1548042757	123	10.00	70.00	(m) Photo Paper	99999a	c00002 ABC Stationery
1548043101	123	5.00	35.00	(m) Photo Paper	99999b	c00002 ABC Stationery
1548045072	123c	5.00	25.00	(m) Photo Paper	99999c	c00001 Aanad & Withwal
1548045140	123d	5.00	35.00	(m) Photo Paper	99999d	c00002 ABC Stationery
1548045581	123f	5.00	35.00	(m) Photo Paper	99999f	c00002 ABC Stationery
1528673916	168	1.00	300.00	(m) Olympus Camedia Mas	168	c00001 Aanad & Withwal
1528673916G	168	1.00	100.00	(m) Widgets	168	c00001 Aanad & Withwal
1536049367	201	10.00	4,000.00	(m) Nikon Coolpix 4100	201	c00001 Aanad & Withwal
1536671671	2202	2,000.00	1,600,000.00	(m) Olympus Camedia Mas	2202	c00001 Aanad & Withwal
1536671671G	2202	2,000.00	800,000.00	(m) Nikon Coolpix 4100	2202	c00001 Aanad & Withwal
1548051671	99999g	5.00	35.50	(m) Photo Paper	99999g	c00002 ABC Stationery
1548054297	99999h	5.00	38.50	(m) Photo Paper	99999h	c00002 ABC Stationery
1548054480	99999i	5.00	38.50	(m) Photo Paper	99999i	c00002 ABC Stationery
1548127502	99999k	2.00	1,700.00	(m) Olympus Camedia Mas	99999k	c00002 ABC Stationery
1548131381	99999l	1.00	770.00	(m) Olympus Camedia Mas	99999l	c00002 ABC Stationery
1548145541	99999m	1.00	790.00	(m) Olympus Camedia Mas	99999m	c00002 ABC Stationery
1548148089	99999n	1.00	800.00	(m) Olympus Camedia Mas	99999n	c00002 ABC Stationery
1548148097A	99999o	10.00	80.00	(m) Photo Paper	99999o	c00002 ABC Stationery
1548148098A	99999p	1.00	1,600.00	(m) Widgets	99999p	c00002 ABC Stationery
1548559779	99999q	1.00	790.00	(m) Olympus Camedia Mas	99999q	c00002 ABC Stationery
1548559817A	99999r	1.00	790.00	(m) Widgets	99999r	c00002 ABC Stationery
1548560668	99999s	1.00	790.00	(m) Olympus Camedia Mas	99999s	c00002 ABC Stationery
1548560682A	99999t	1.00	790.00	(m) Widgets	99999t	c00002 ABC Stationery
1548561121	99999u	1.00	790.00	(m) Olympus Camedia Mas	99999u	c00002 ABC Stationery
1548561130A	99999v	1.00	780.00	(m) Widget	99999v	c00002 ABC Stationery
1535419234	abc/02	1.00	800.00	(m) Olympus Camedia Mas	me01	c00001 Aanad & Withwal
1535446074	abc/03	1.00	800.00	(m) Olympus Camedia Mas	me02	c00001 Aanad & Withwal
1535446084	abc/03	1.00	11.00	(m) Nikon ML-3 Remote	me02	c00001 Aanad & Withwal
1535418722	abc/02	1.00	800.00	(m) Olympus Camedia Mas	ABC 100113-1	c00001 Aanad & Withwal

Slide 5

Slide notes: All of these Line Iterations comprise the Unit result.

Google

Search

Share

Save

Check

Translate

AutoPill

Sign In

Free Hotmail

Suggested Sites

Info: Site Safety

127.0.0.1/bridge/1557341642.htm

Page

Safety

Tools

Purchase Order Invoice Processing, Range Report.

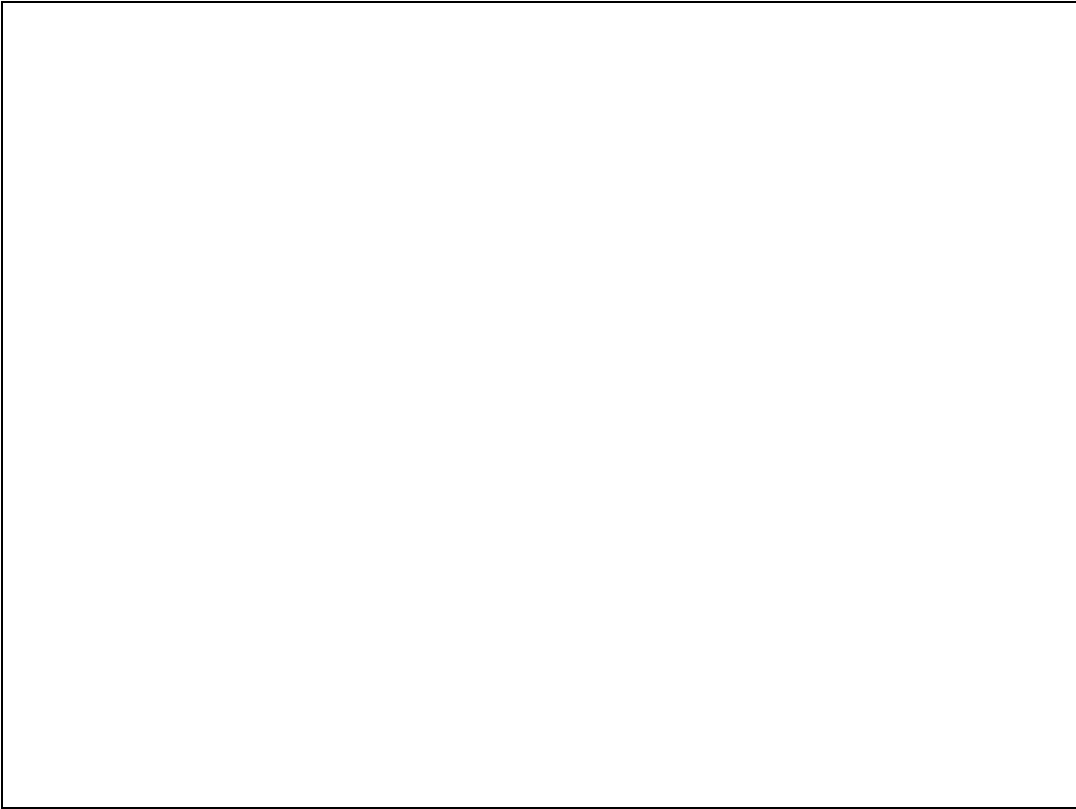
Select Invoices from {0001} to {0002}.

Order Number Pattern is: {0010}

Transaction Key	Invoice #	Quantity	Amount	Item Description	P.O. Number	Supplier
{0003}	{0004}	{0005}		{0006} {0007}	{0008}	{0009}
		Total		{0011}		

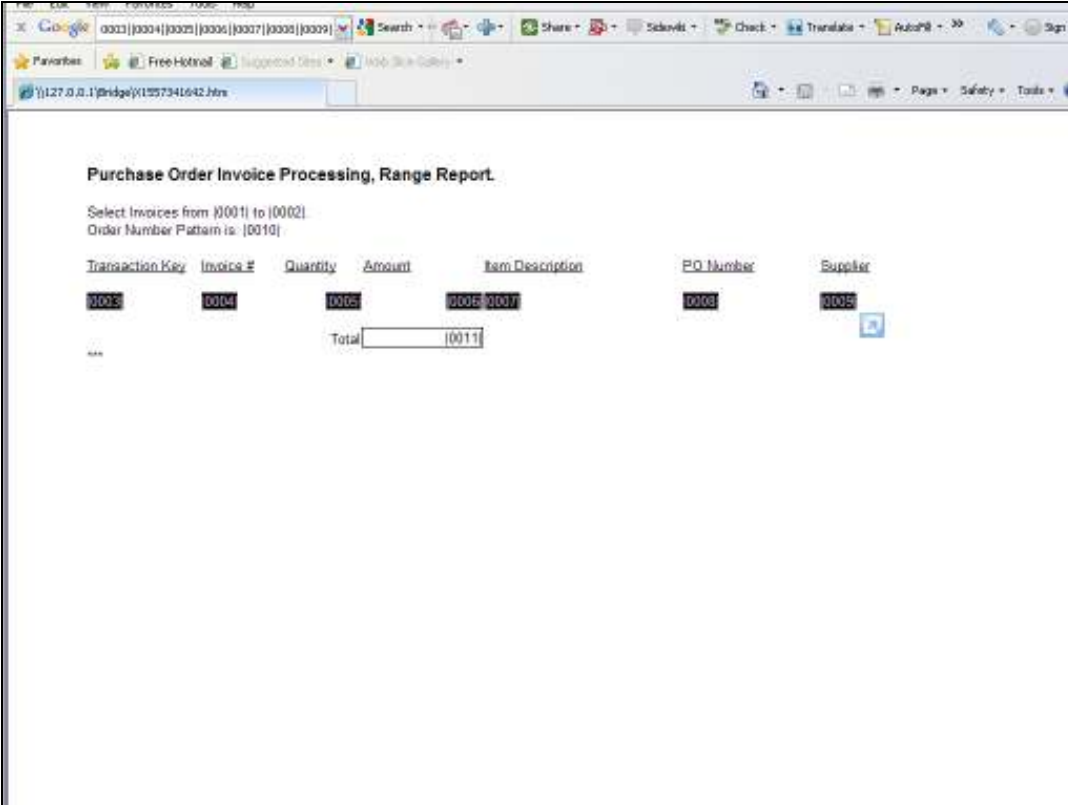
Slide 6

Slide notes:



Slide 7

Slide notes:



The screenshot shows a web browser window with the address bar displaying a URL. The main content area displays a report titled "Purchase Order Invoice Processing, Range Report". Below the title, there are instructions: "Select Invoices from {0001} to {0002}" and "Order Number Pattern is: {0010}". The report is presented as a table with the following columns: Transaction Key, Invoice #, Quantity, Amount, Item Description, P.O. Number, and Supplier. The data rows show values for these fields, with some cells containing curly braces and numbers. A "Total" row is also present at the bottom of the data section.

Transaction Key	Invoice #	Quantity	Amount	Item Description	P.O. Number	Supplier
{0003}	{0004}	{0005}		{0006}{0007}	{0008}	{0009}
Total			{0011}			

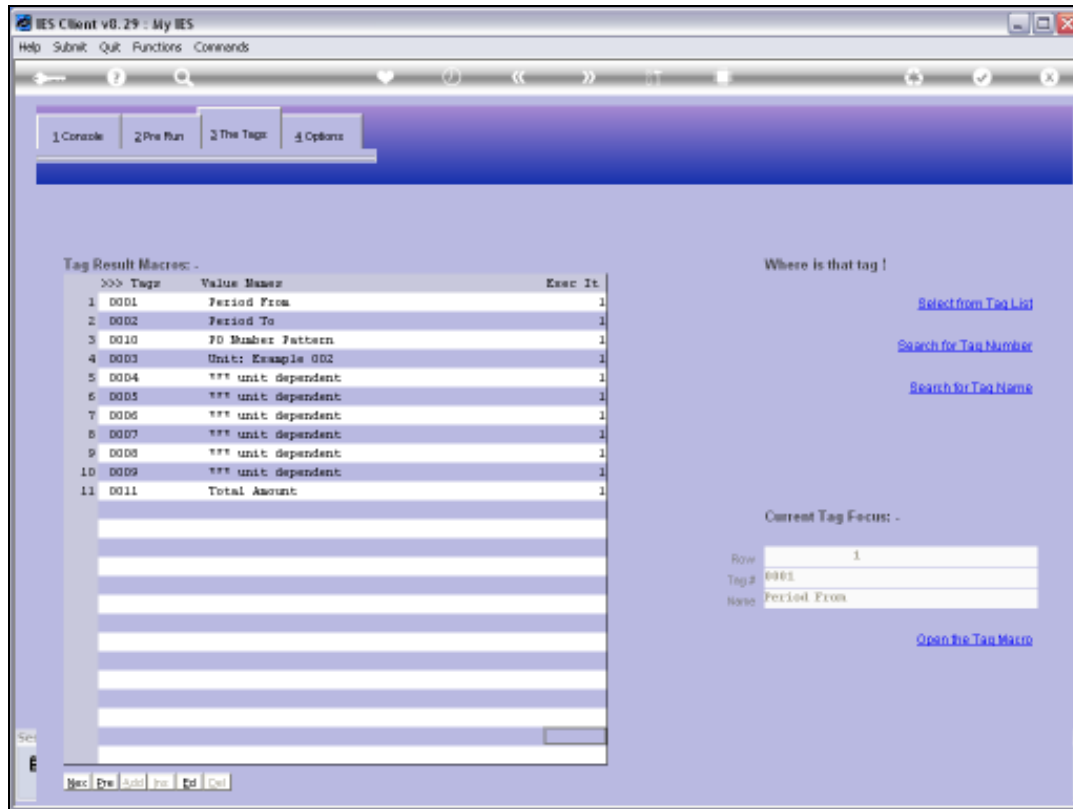
Slide 8

Slide notes: When we look at the Report Layout, the Unit formula is only 1 Line. As such, the Unit is the formula for a Line, but there can be many similar lines, depending on the number of Items in each case. Typical examples are Purchase Orders and Customer Invoices, where in each case, we know not the number of Item Lines that will be present, and the number of Item Lines can be different each time a Purchase Order or Invoice is printed.



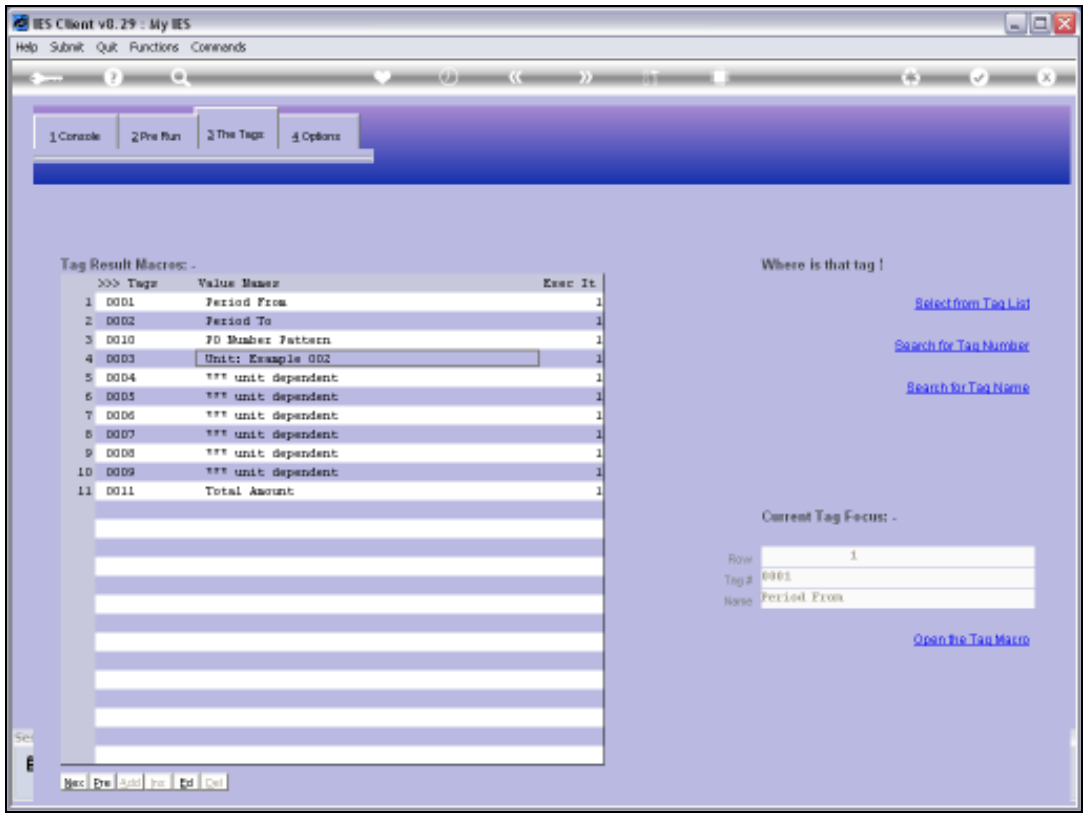
Slide 9

Slide notes:

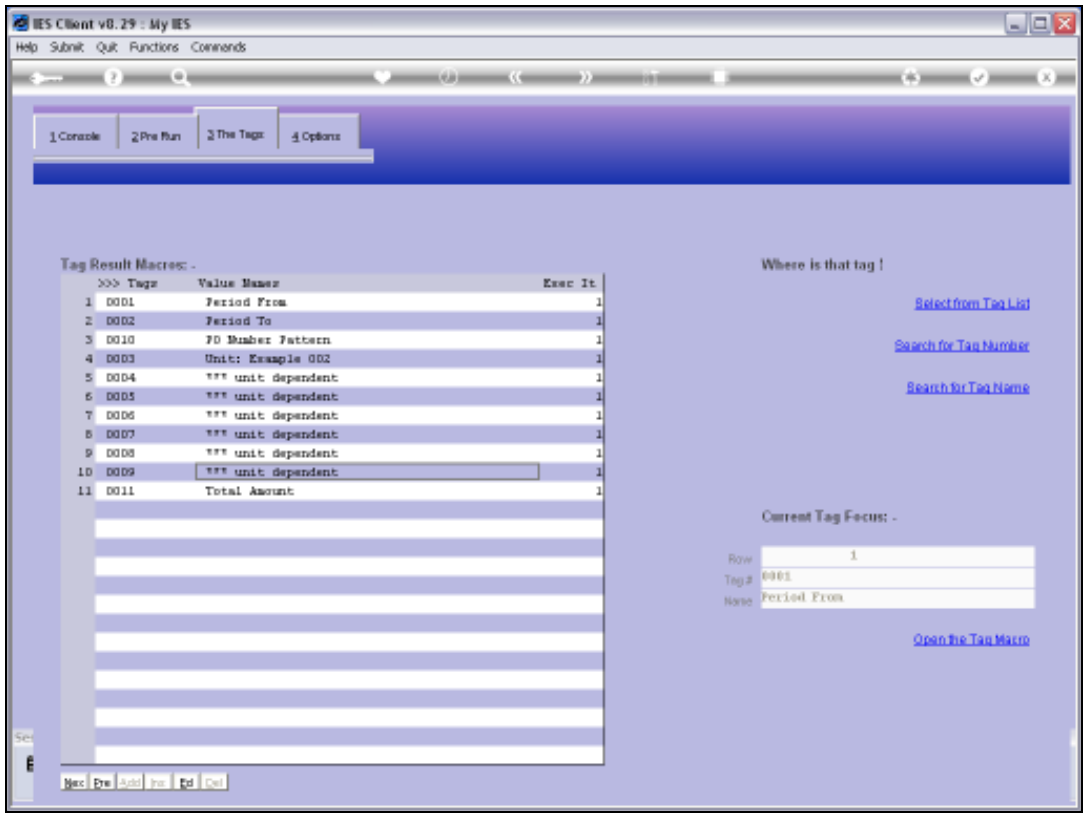


Slide 10

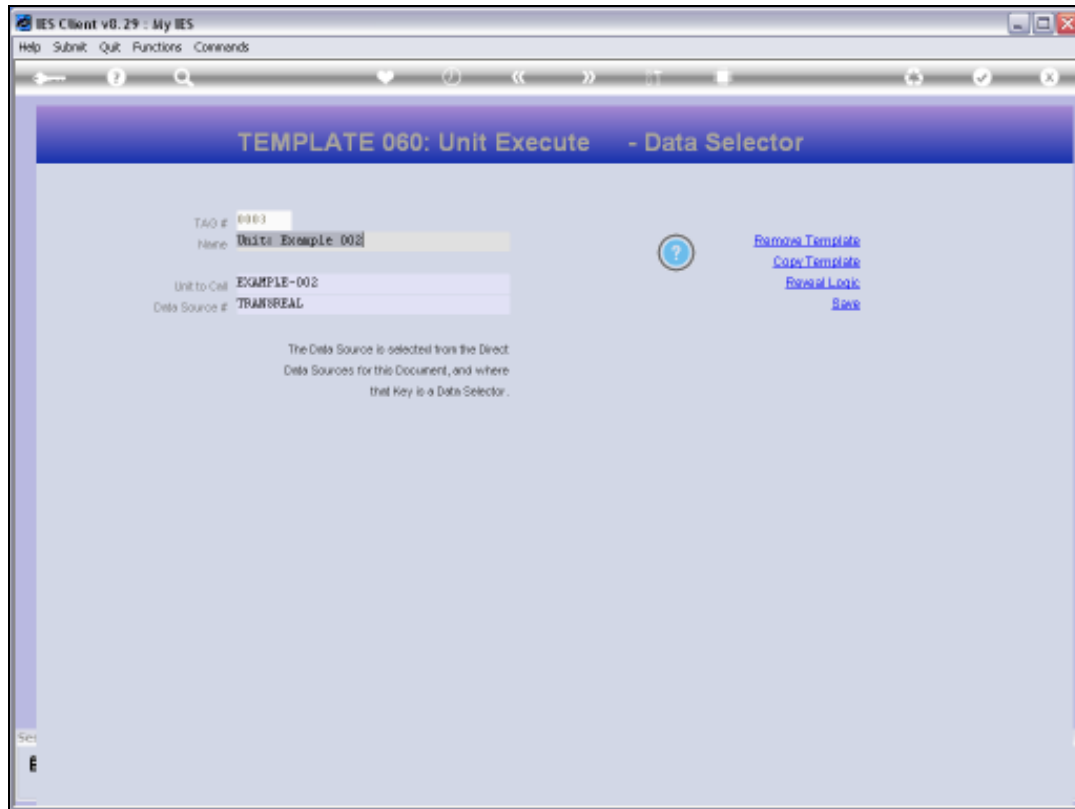
Slide notes: Whereas the Unit is listed on 1 Line in the Layout, it usually includes multiple Tags, and the number of Tags we see here must be the same number as in the Unit that is called to perform the result.



Slide 11
Slide notes:

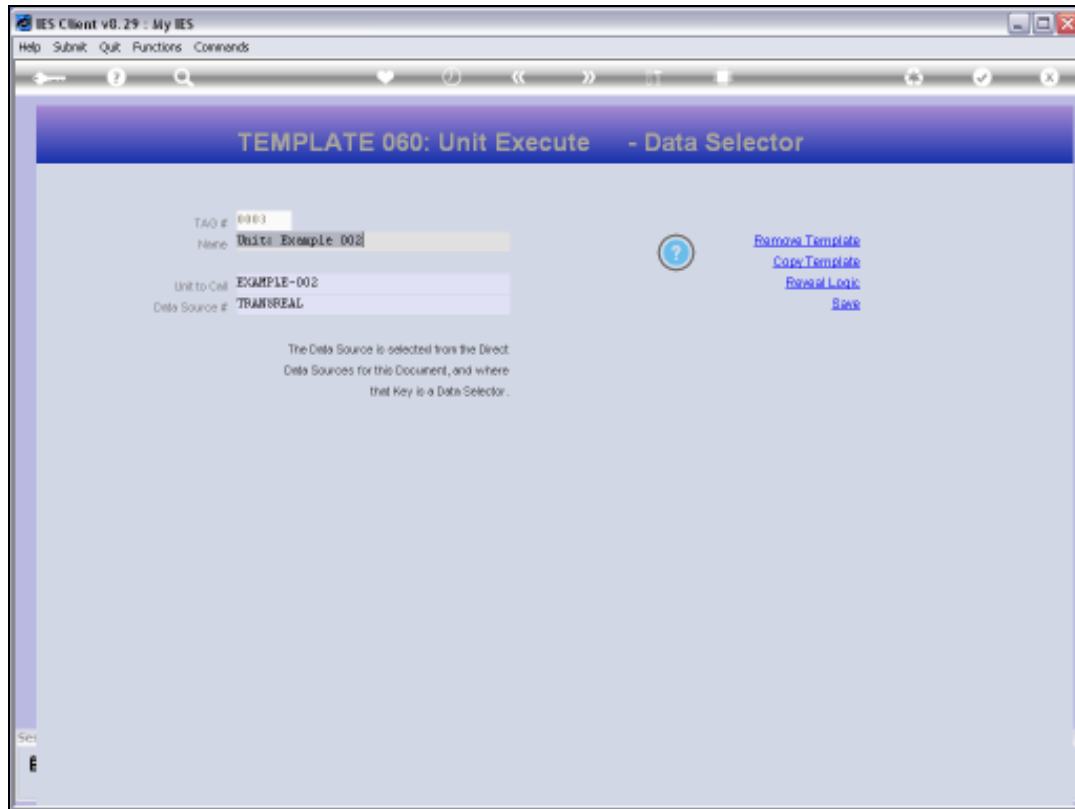


Slide 12
Slide notes:



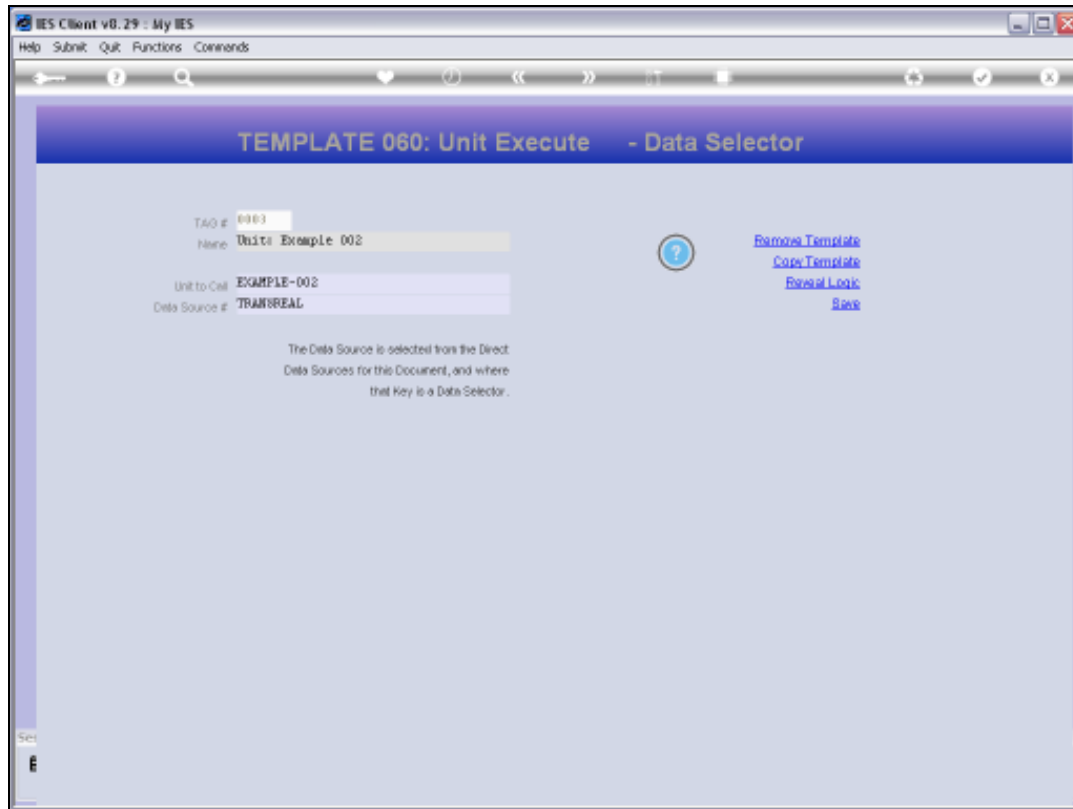
Slide 13

Slide notes: This is the Tag that initiates the Unit to perform, and it is always the 1st Tag in the Unit set.



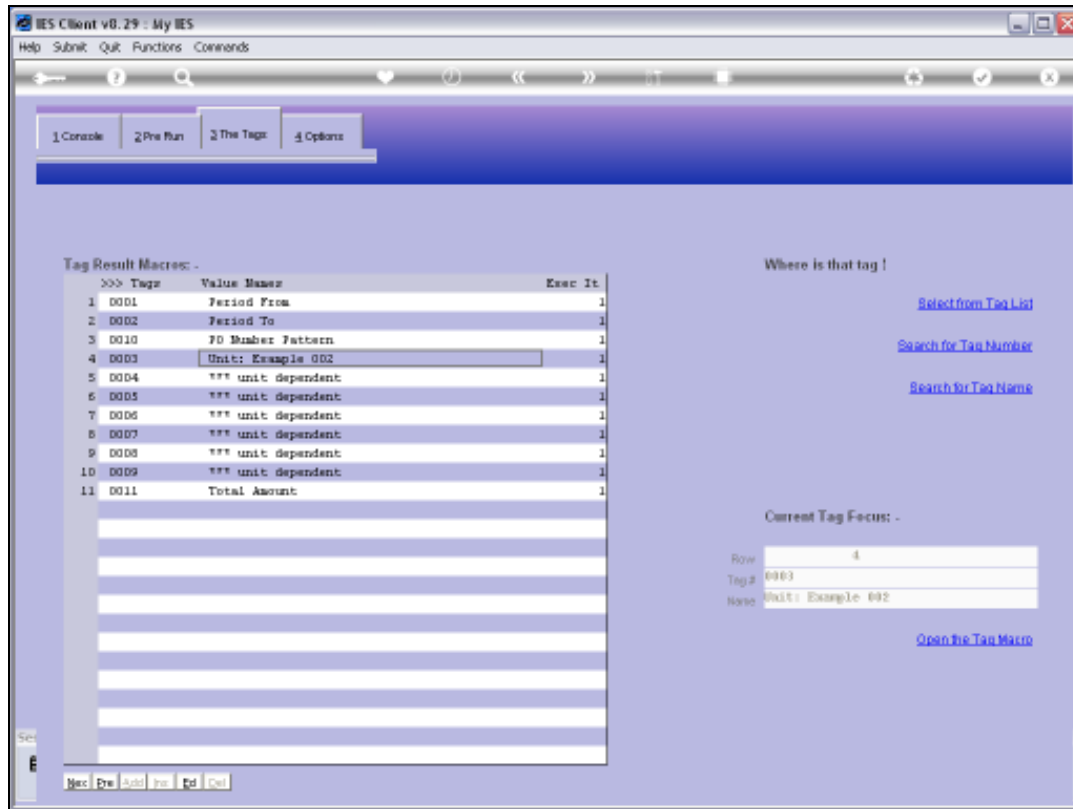
Slide 14

Slide notes:



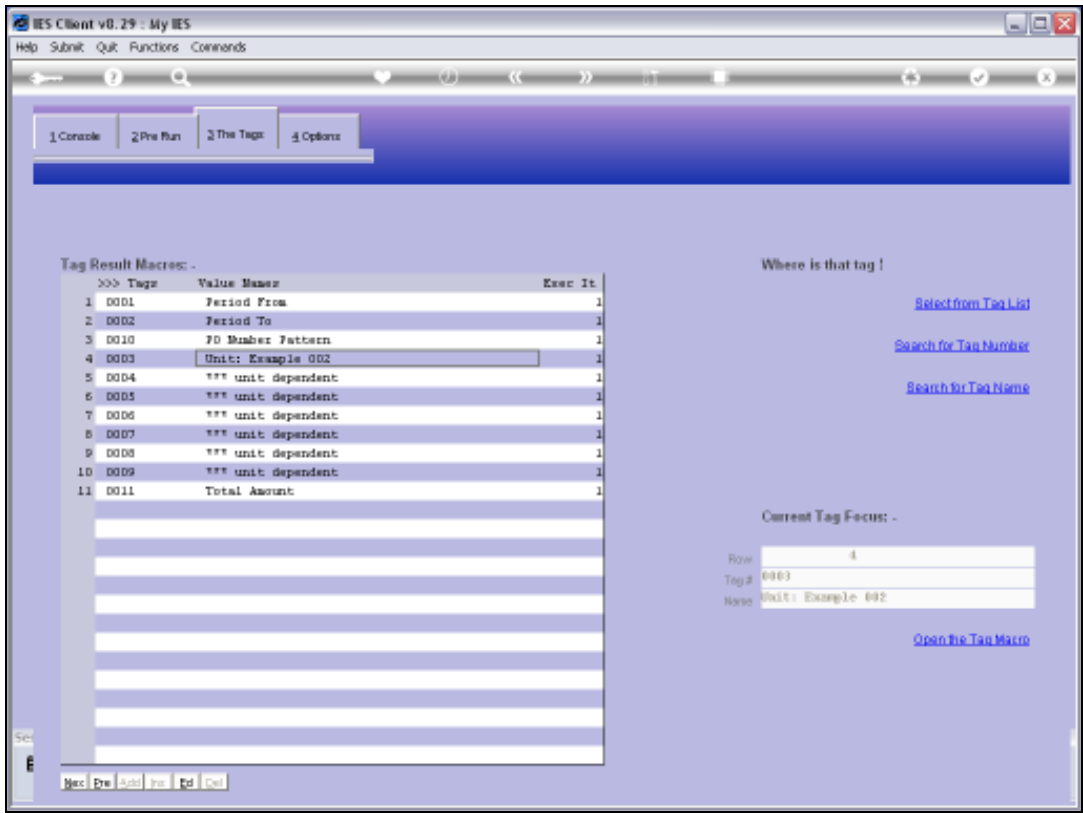
Slide 15

Slide notes:



Slide 16

Slide notes:

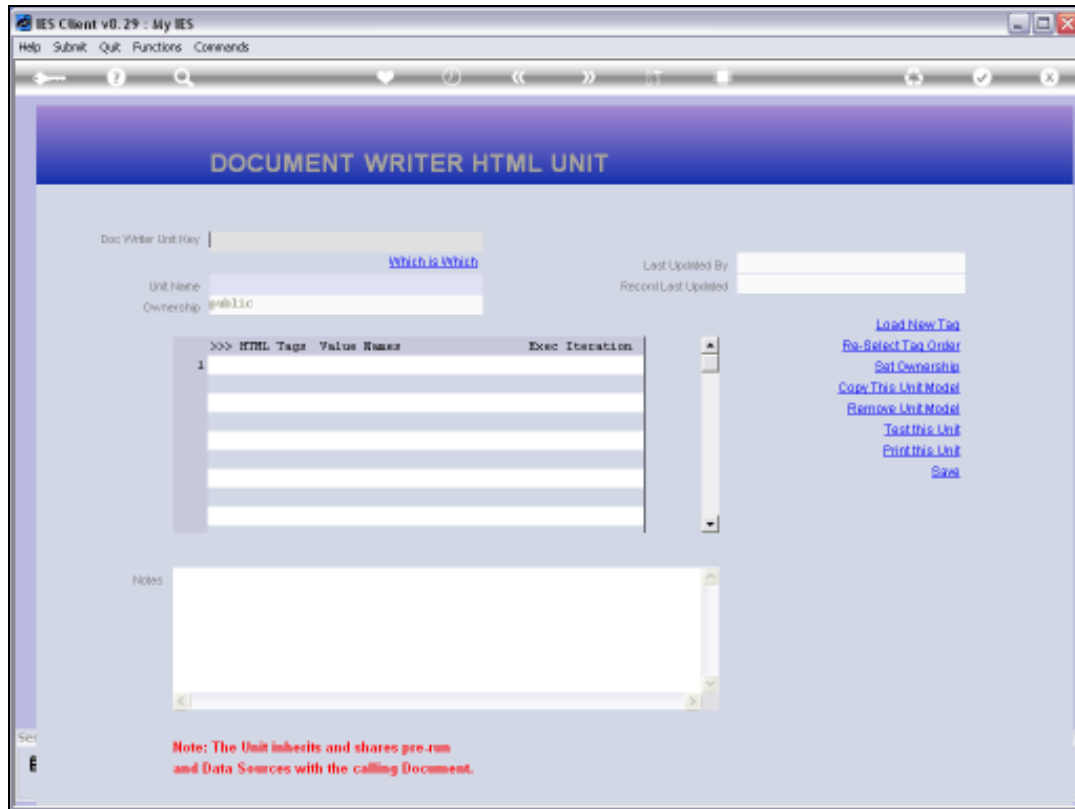


Slide 17
Slide notes:



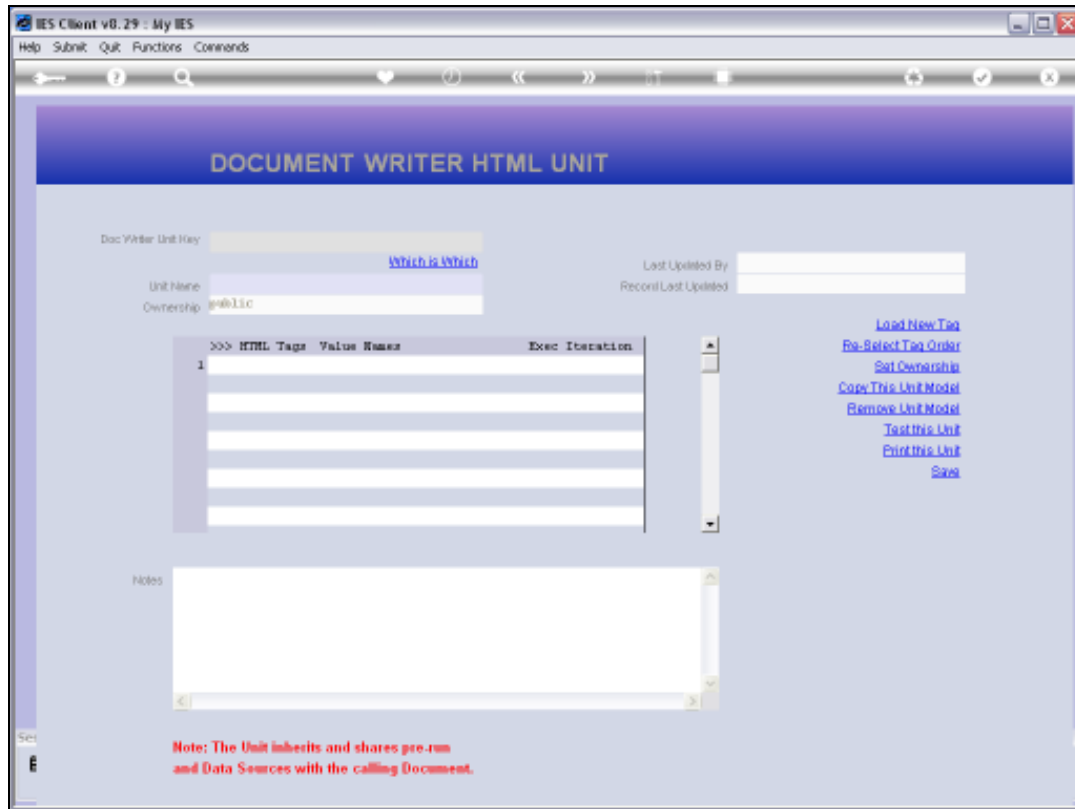
Slide 18

Slide notes: A Unit is actually a kind of mini Report that is separately defined, and called by DocWriter. In fact, a Unit is an independent and re-usable Report Object that can be called or used by more than 1 Report.



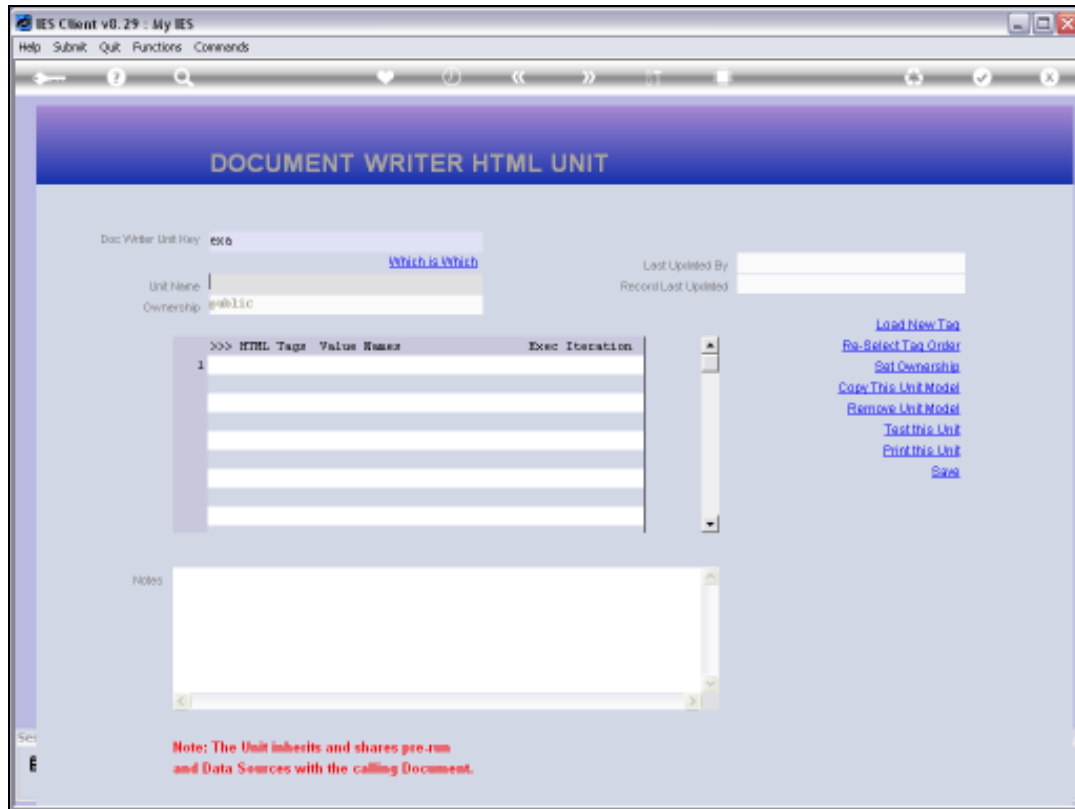
Slide 19

Slide notes:



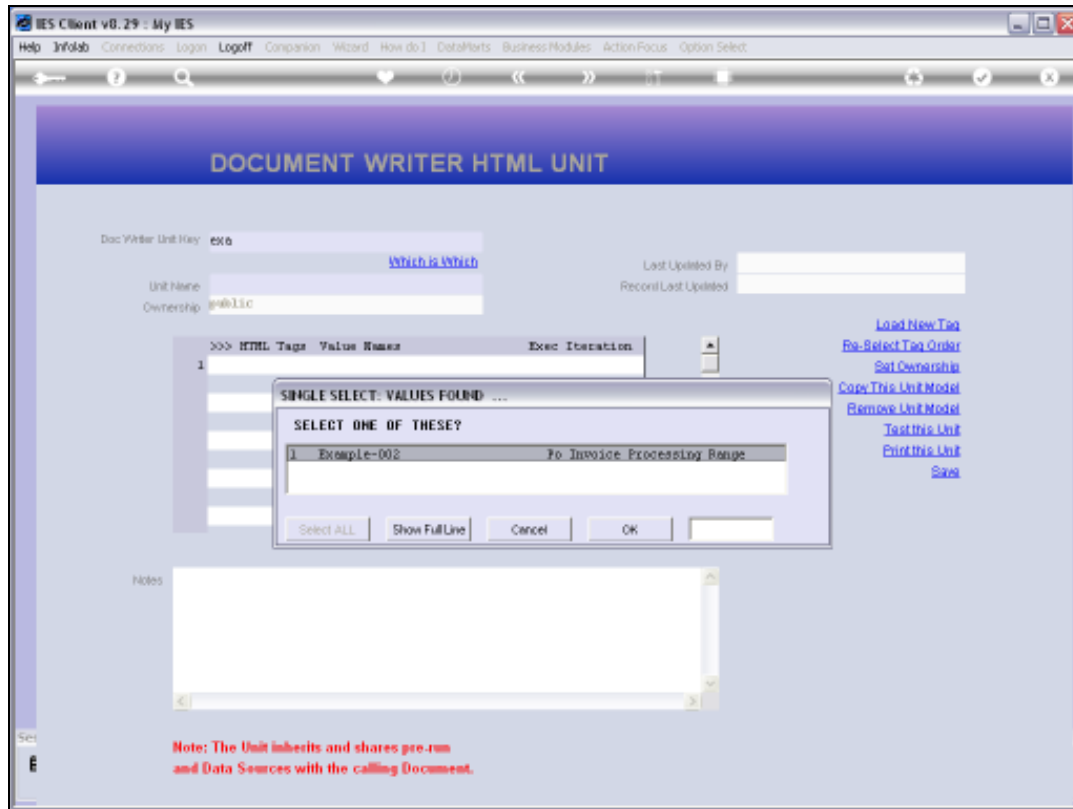
Slide 20

Slide notes:



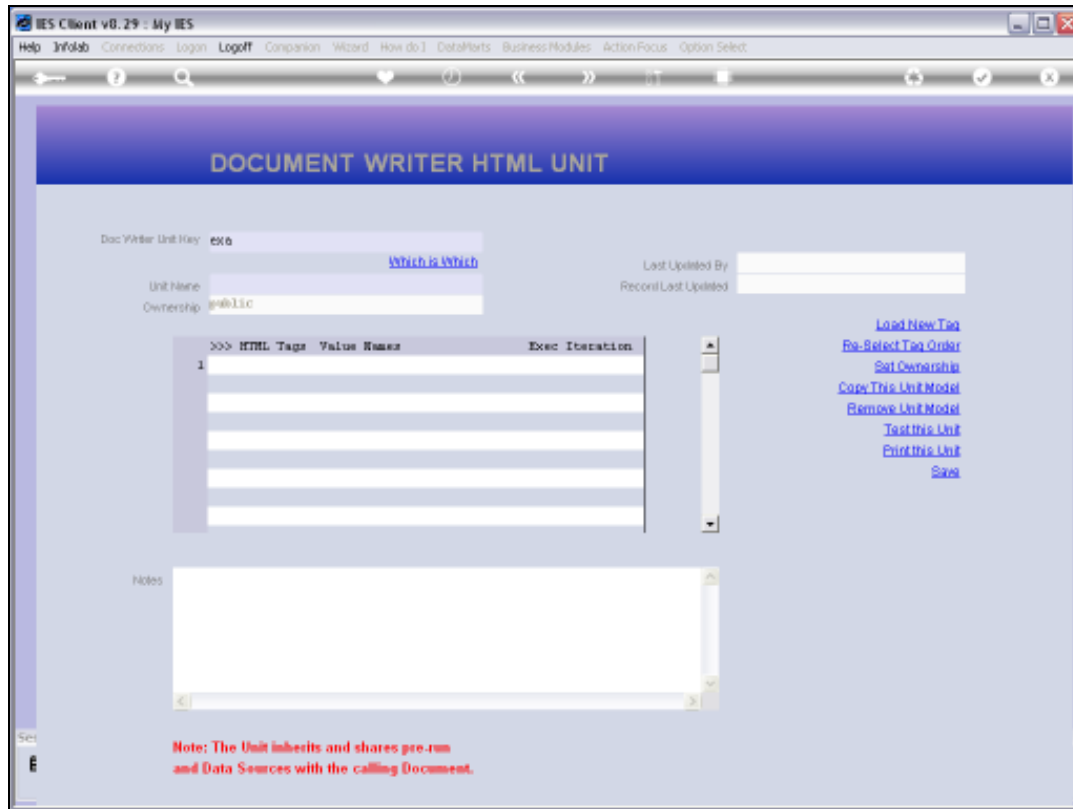
Slide 21

Slide notes:



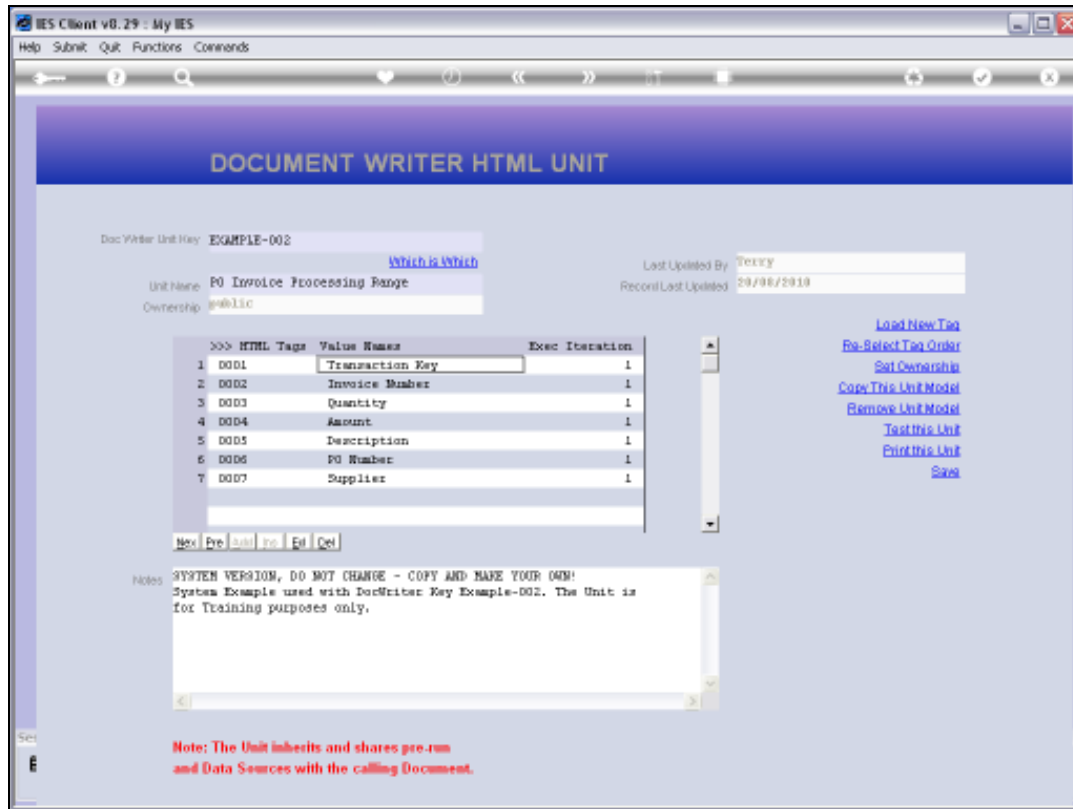
Slide 22

Slide notes:



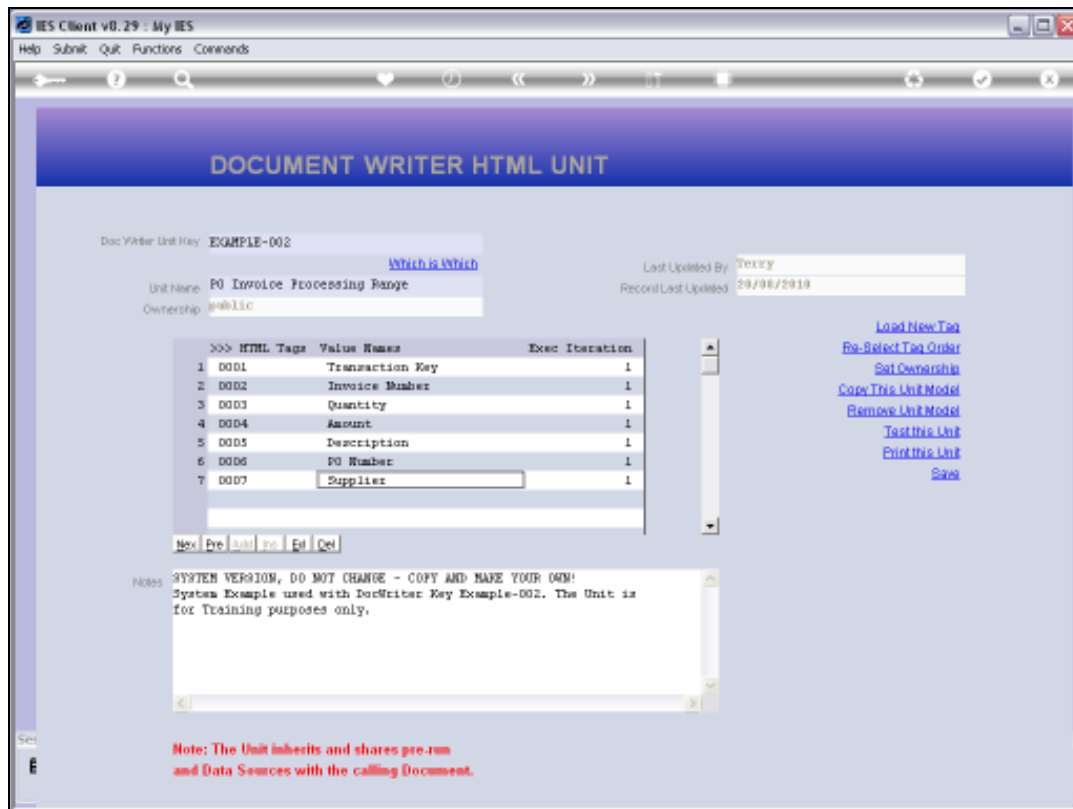
Slide 23

Slide notes:



Slide 24

Slide notes: This is the Unit that we saw in the Tag in the main Report, and we see that it works with 7 Tags, just like we saw in the main Report.



Slide 25

Slide notes:

The screenshot shows the IES Client v8.29 interface. The main window is titled "TEMPLATE 062: Iterative Alpha with IKEY". It contains a form with the following fields and options:

- TAG # 0001
- Name Transaction Key
- Tag Addressing relative
- Data Source Name TRANSREAL TRANSREAL
- Data Field Name tkey Key
- Alignment l: left justified
- Result Width 12
- Bold? normal
- Underline? normal
- Tag Result always return a result
- Operator *
- Conditional Value

Buttons: Remove Template, Copy Template, Reveal Logic, Save.

Session Info: Terry is using IES

Taskbar: Desktop, Application Wizard, Tag Business Template, BOFRIND-TAG-TEMPLATE62, 2010/09/20 11:39:02

Slide 26

Slide notes: Each Tag in the Unit has a Macro or a Template, similar to how we work with Tags in the main Report Layout.

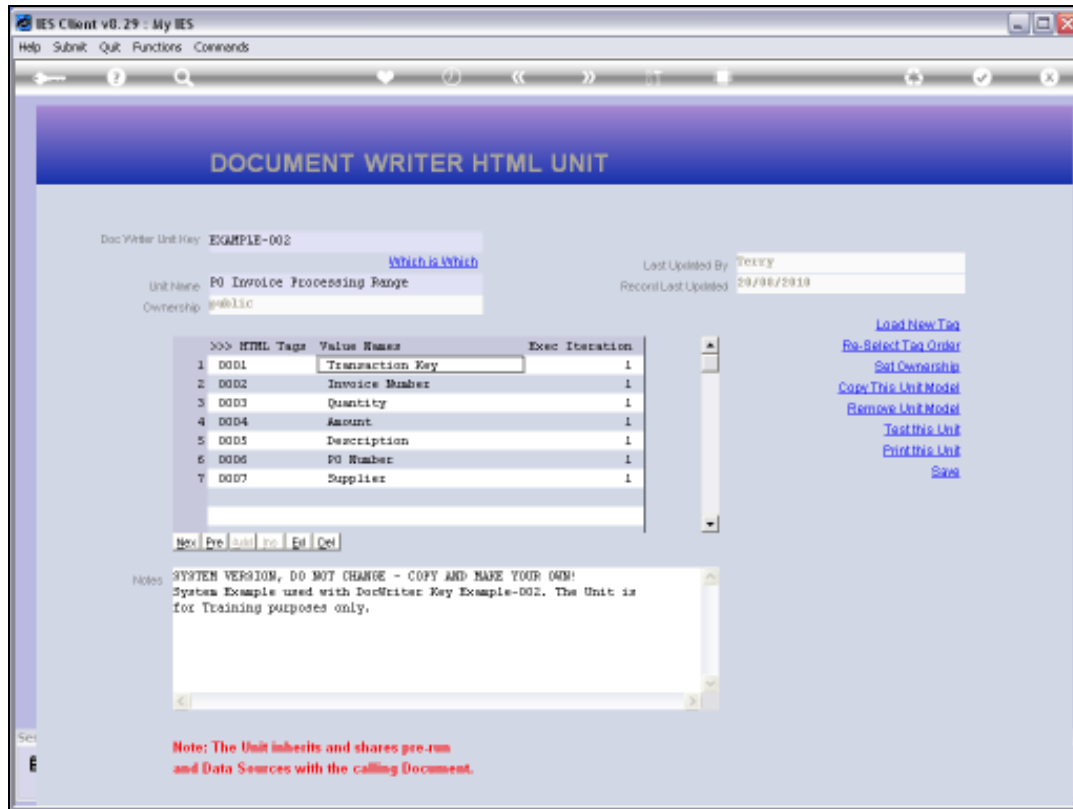
The screenshot shows the IES Client v8.29 interface. The main window is titled "TEMPLATE 062: Iterative Alpha with IKEY". The interface includes a menu bar (Help, Submit, Quit, Functions, Commands) and a toolbar with various icons. The main content area is divided into several sections:

- Tag #**: 0001
- Name**: Transaction Key
- Tag Addressing**: relative
- Data Source Name**: TRANSREAL TRANSREAL
- Data Field Name**: tkey Key
- Alignment**: l: left justified
- Result Width**: 12
- Bold ?**: normal
- Underline ?**: normal
- Tag Result**: always return a result
- Operator**: *
- Conditional Value**: (empty)

Buttons for [Remove Template](#), [Copy Template](#), [Reveal Logic](#), and [Save](#) are visible. The status bar at the bottom shows "Session Info: Terry is using IES" and a list of open applications: Centool, Application Wizard, Tag Business Template, and BOFRIND-TAG-TEMPLATE62. The date and time are 2010/09/20 11:39:03.

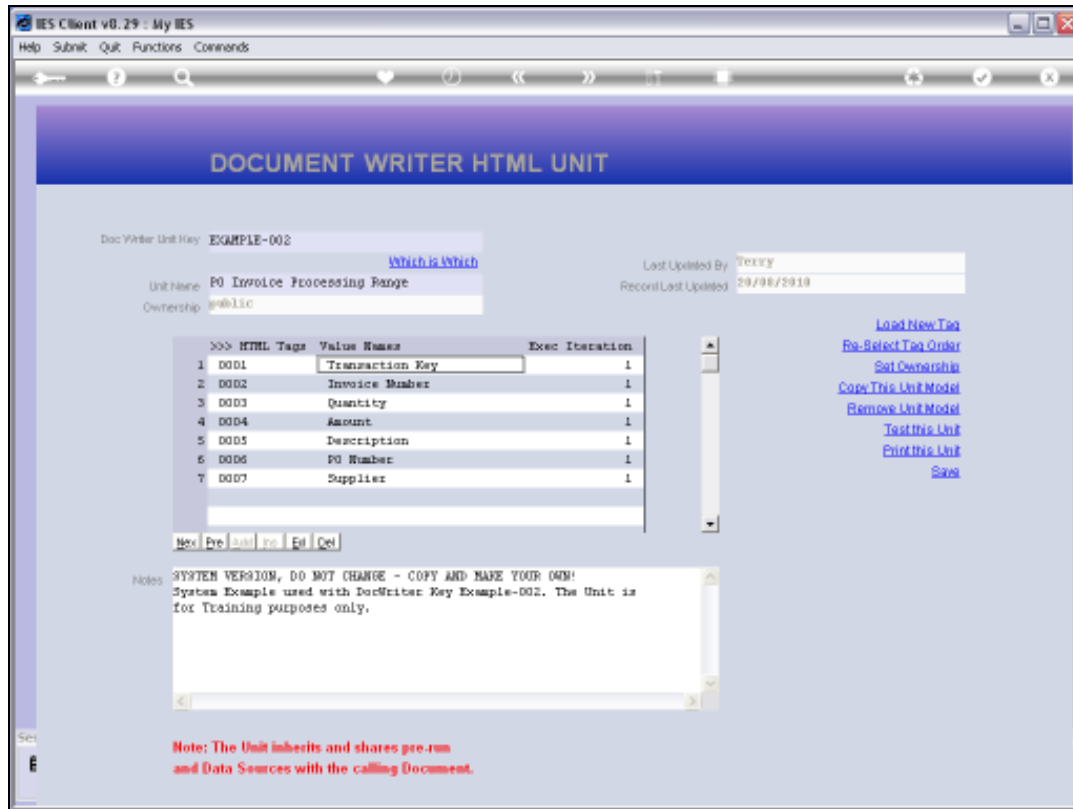
Slide 27

Slide notes:



Slide 28

Slide notes:



Slide 29

Slide notes:



Slide 30

Slide notes:



Slide 31

Slide notes:

File Edit View Favorites Tools Help

Google OMKON EN-EL3 BATTERY 3007232 (17,890.97) Search + Share + Send + Check + Translate + AutoFill + Sign In

Free Internet Suggested Data Help Site Gallery

New Report

Gummy Hoops Inc.

PO Box 10555 0046 Centurion South Africa ZAR
Tel +27 12 320 4555 hello@gummyhoops.hoop.com www.gummyhoops.hoop.com

Tax Invoice 01.100820-777 Account: 01020 Tax No 442276354
Tax Registration No 44444444445 Currency: \$
Date: 20/08/2010

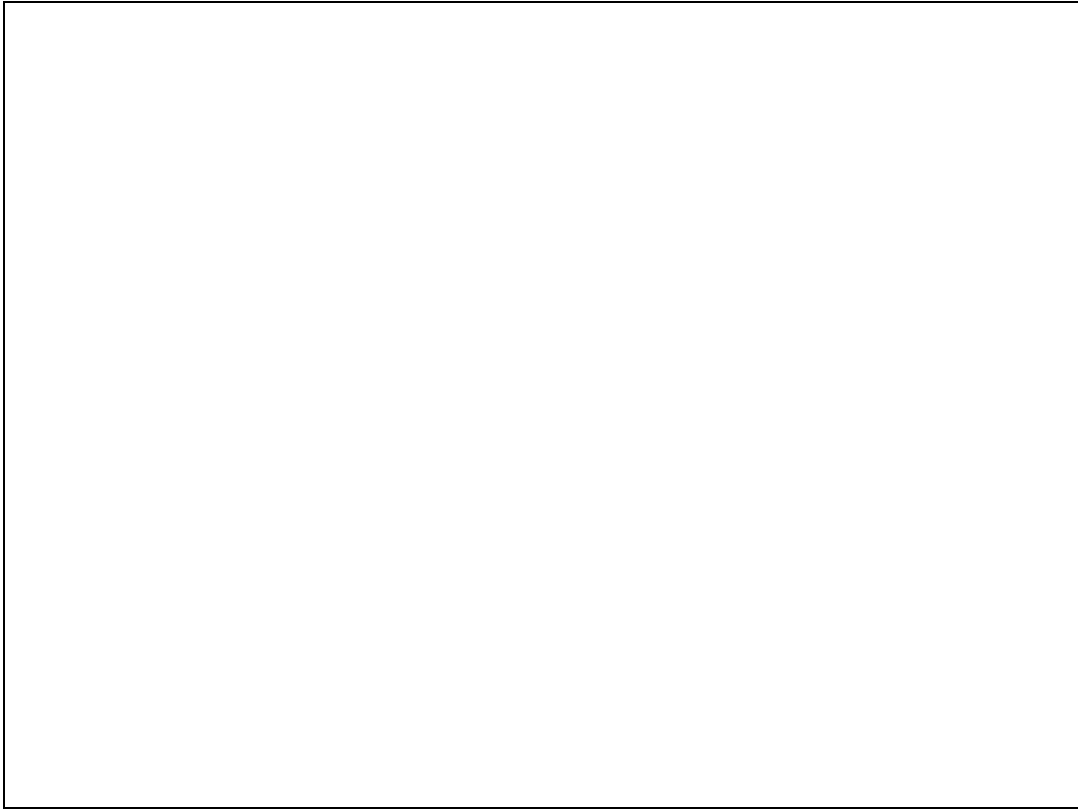
DOORNKLOOF TEACHERS' ASSOCIATION
11010 - 142 STREET
Centurion

Date	Description	Document	Quantity	\$ Amount Incl	Tax
20/08/2010	NIKON COOLPIX 8800	3007174	1	175.38	21.54
20/08/2010	NIKON EN-EL3 BATTERY	3007232	1	7.89	0.97
20/08/2010	NIKON SB-600 FLASH	0243138	1	48.67	5.98
				Before Tax	203.45
				Tax	28.49
				Inclusive Total	231.94

Terms:

Slide 32

Slide notes: In this example, we see an Invoice with 3 Sales Item Lines. The 3 Lines result from a Unit, and another Invoice may have 10 Lines or just 1, who knows ...



Slide 33

Slide notes:

FileEditViewFavoritesToolsHelp

GoogleONIKON EN-EL3 BATTERY 3007232 17.890.97SearchShareScreenshotCheckTranslatautoFillSign In

FavoritesFree HotmailSuggested SitesReady Site Gallery

New Report

Gummy Hoops Inc.

PO Box 10555 0046 Centurion South Africa ZAR
Tel +27 12 320 4555 hello@gummyhoops.hoop.com www.gummyhoops.hoop.com

Tax Invoice 01.100820-777

Account: 01020 Tax No 442276354

Tax Registration No 44444444445

Currency: \$

Date: 20/08/2010

DOORNKLOOF TEACHERS' ASSOCIATION
11010 - 142 STREET
Centurion

Date	Description	Document	Quantity	\$ Amount Incl	Tax
20/08/2010	NIKON COOLPIX 8800	3007174	1	175.38	31.54
20/08/2010	NIKON EN-EL3 BATTERY	3007232	1	7.88	0.97
20/08/2010	NIKON SB-600 FLASH	3243138	1	48.67	5.98
Before Tax				203.45	
Tax				28.49	
Inclusive Total				231.94	

Terms:

Slide 34
Slide notes:

File Edit View Favorites Tools Help

Google ONIKON EN-EL3 BATTERY 3007232 (17,890.97) Search + Share + Send + Check + Translate + AutoFill + Sign In

Free Hotmail Suggested Data + My Site Gallery +

New Report

Gummy Hoops Inc.

PO Box 10555 0046 Centurion South Africa ZAR
Tel +27 12 320 4555 hello@gummyhoops.hoop.com www.gummyhoops.hoop.com

Tax Invoice 01.100820-777 Account: 01020 Tax No 442276354
Tax Registration No 4444444444 Currency: \$
Date: 20/08/2010

DOORNKLOOF TEACHERS' ASSOCIATION
11010 - 142 STREET
Centurion

Date	Description	Document	Quantity	\$ Amount Incl	Tax
20/08/2010	NIKON COOLPIX 8800	3007174	1	175.38	31.54
20/08/2010	NIKON EN-EL3 BATTERY	3007232	1	7.88	0.97
20/08/2010	NIKON SB-600 FLASH	3243138	1	48.67	5.98
				Before Tax	203.45
				Tax	28.49
				Inclusive Total	231.94

Terms:

Slide 35

Slide notes:

FileEditViewFavoritesToolsHelp

Google

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New Report

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[0001]

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Tax Invoice [0004]

Account: [0015]Tax No [0016]

Tax Registration No [0005]

Currency: [0028]

Date: [0006]

[0029]

[0007]

[0008]

[0009]

[0010]

[0011]

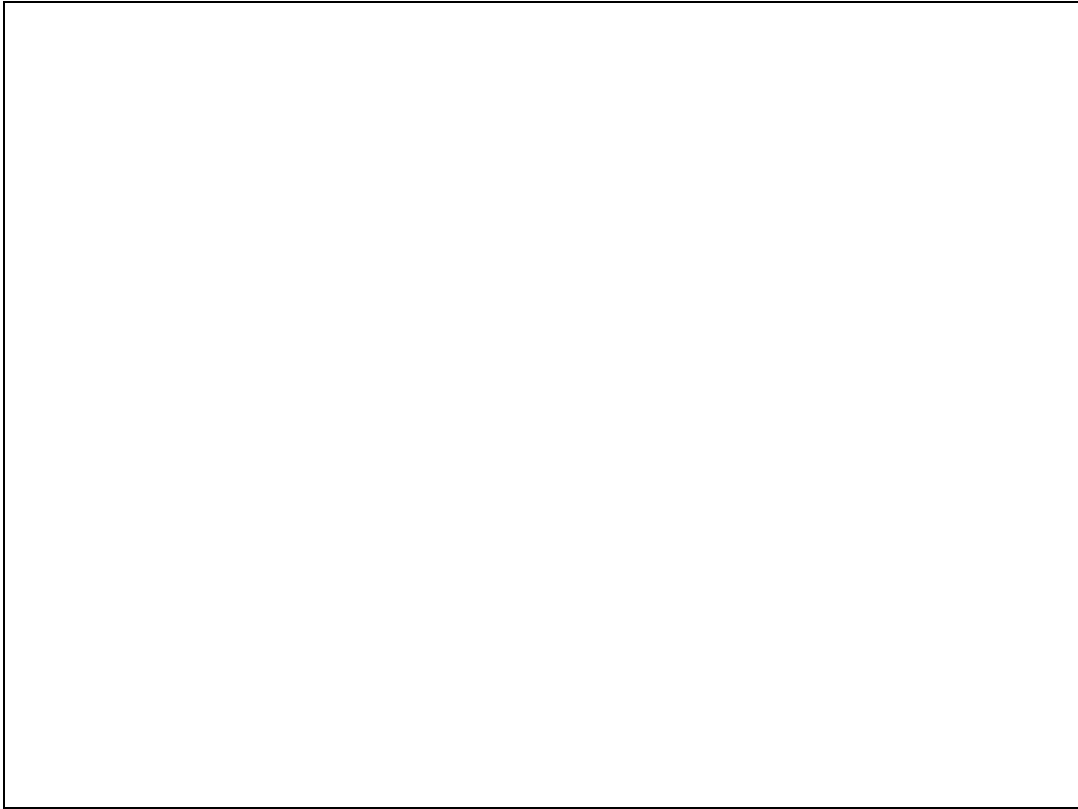
[0012]

[0013]

Date	Description	Document	Quantity	[0017] Amount Incl	Tax
[0018]	[0019]	[0020]	[0021]	[0022]	[0023]
Before Tax				[0024]	
Tax				[0025]	
Inclusive Total				[0026]	

Terms: [0027]

Slide 36
Slide notes:



Slide 37

Slide notes: Here, we see the Unit Line in the Report Layout.

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New Report

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Tax Invoice |0004| Account: |0015| Tax No |0016|

Tax Registration No |0005| Currency: |0028|

Date: |0006|

|0029|

|0007|

|0008|

|0009|

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|0011|

|0012|

|0013|

Date	Description	Document	Quantity	0017 Amount Incl	Tax
0018	0019	0020	0021	0022	0023
Before Tax				0024	
Tax				0025	
Inclusive Total				0026	

Terms: |0027|

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Slide notes: We might say that we typically use Units where we have an unpredictable number of Item Lines in the Report. That's what a Unit does, i.e. it performs iterations of the same Line Formula.