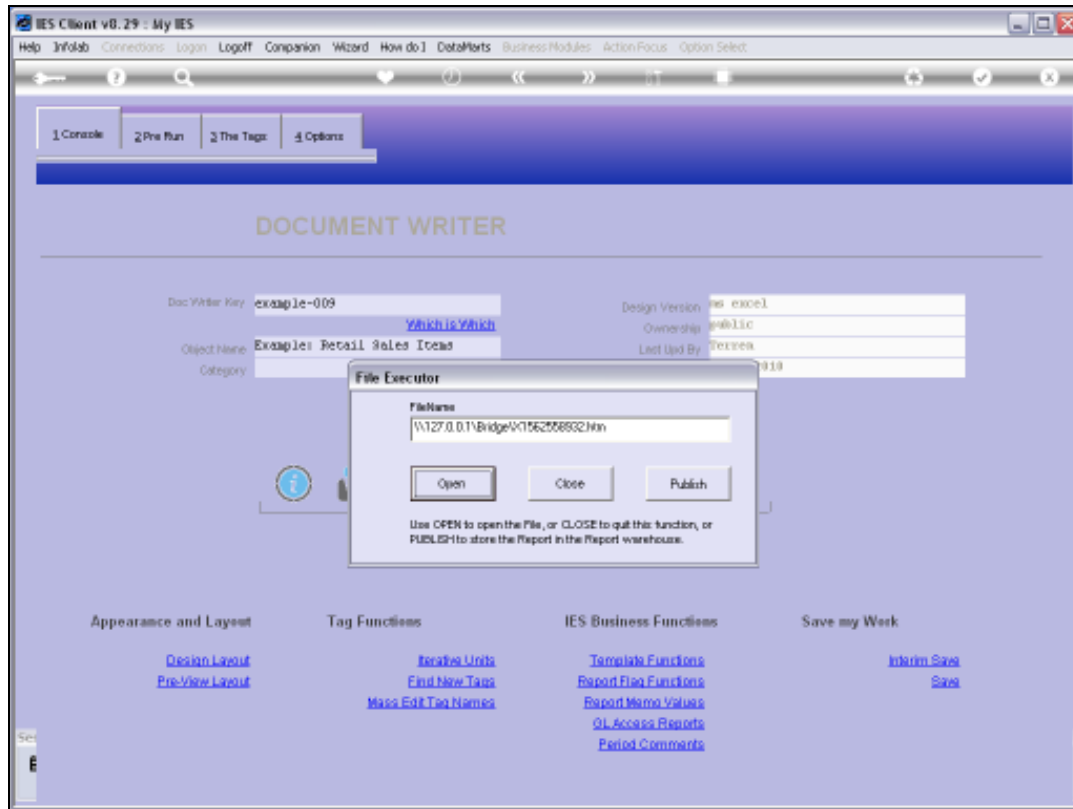




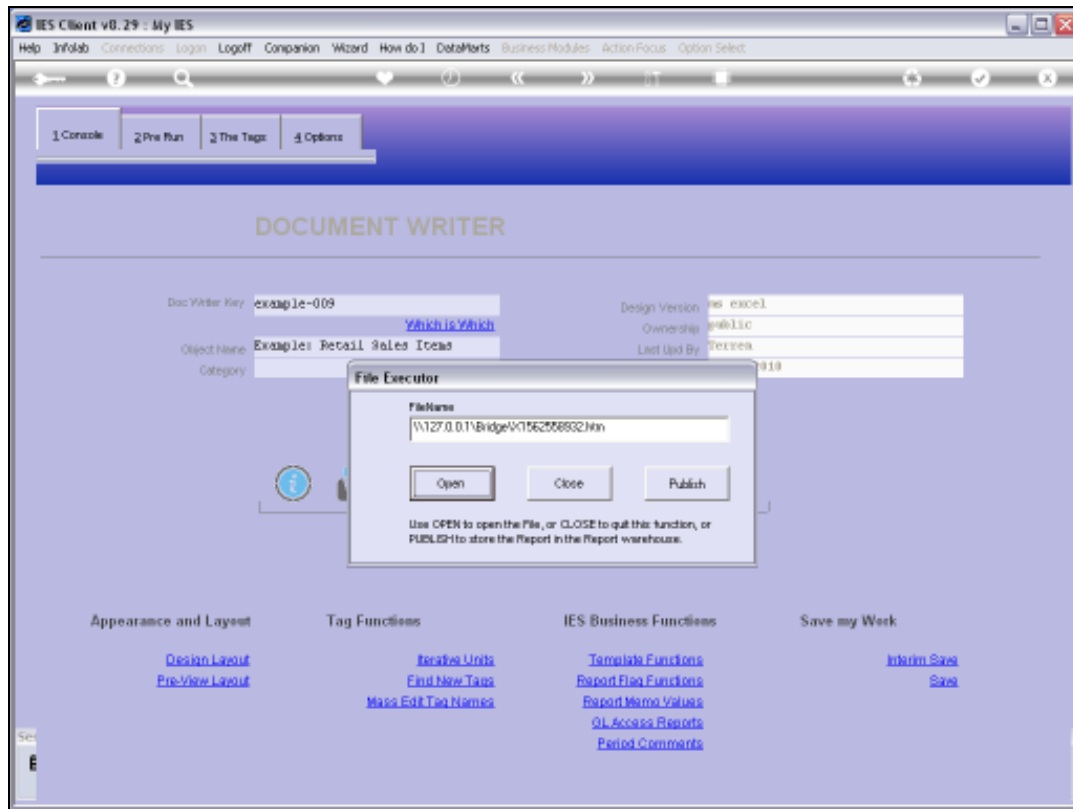
Slide 1

Slide notes: Before we can understand what an Exploding Unit is, we need to already know what a Unit is, and if we don't, then it is better to see the other tutorials on Units first.



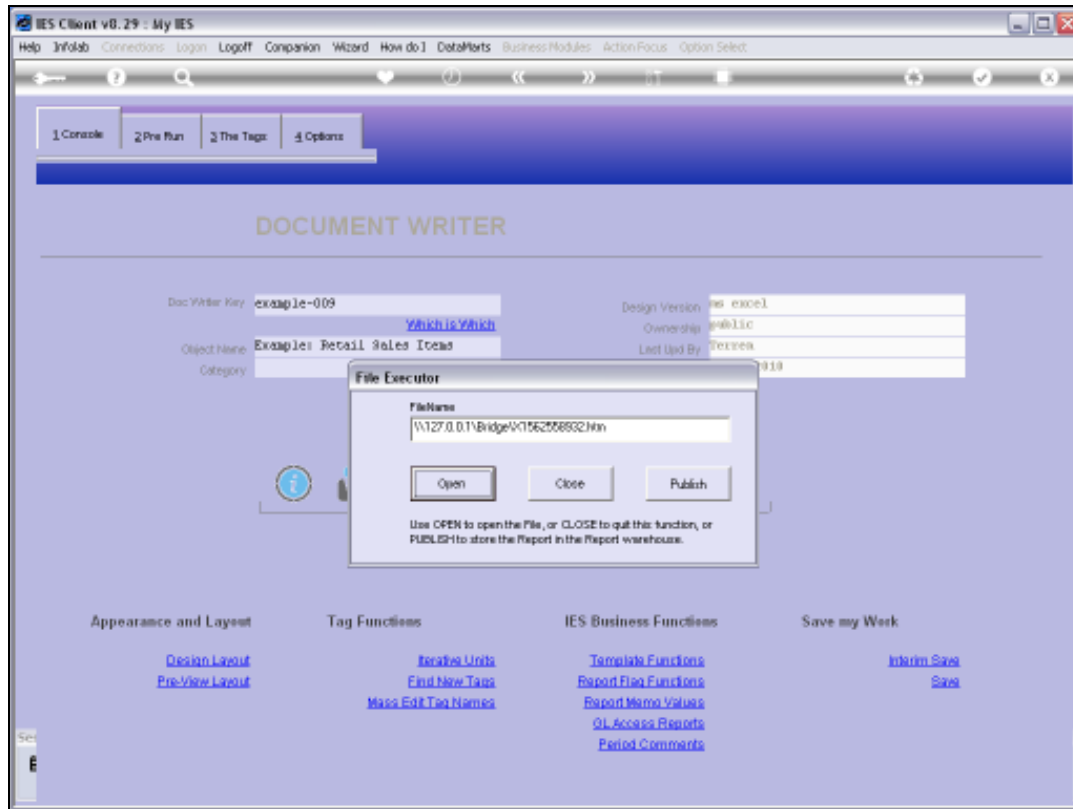
Slide 2

Slide notes:



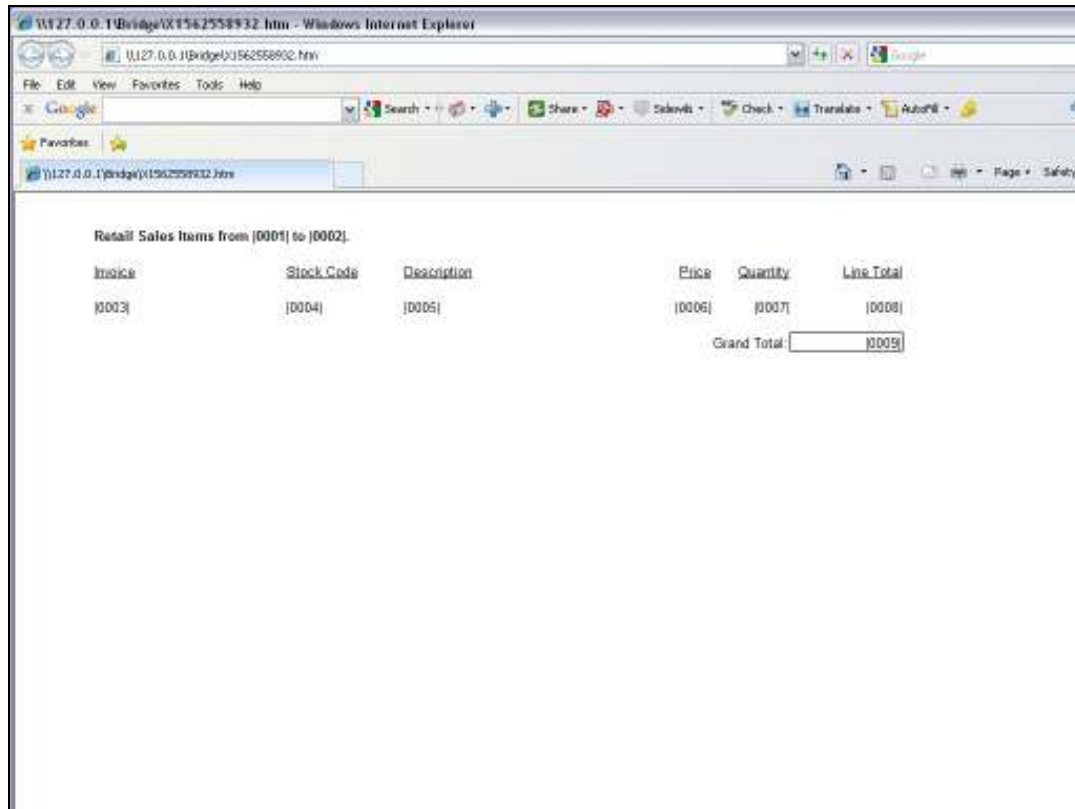
Slide 3

Slide notes:



Slide 4

Slide notes:

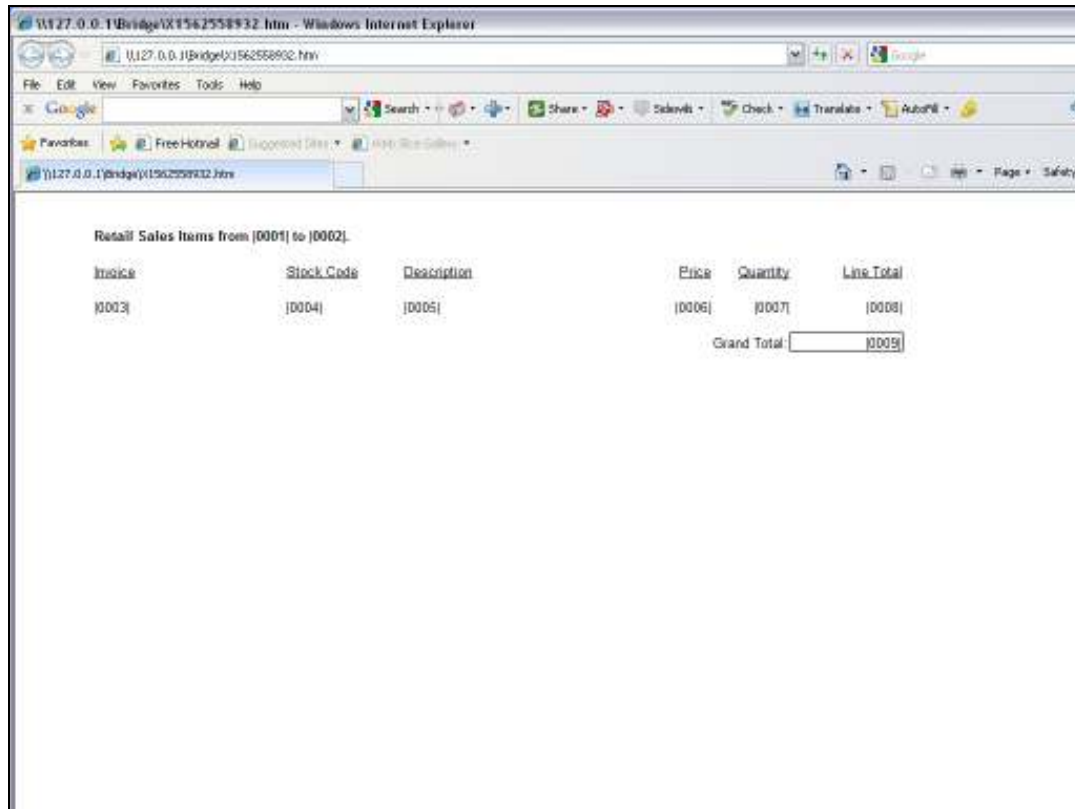


Retail Sales Items from [0001] to [0002].

Invoice	Stock Code	Description	Price	Quantity	Line Total
[0003]	[0004]	[0005]	[0006]	[0007]	[0008]
Grand Total					[0009]

Slide 5

Slide notes: Here we have the Report Layout for the Example Report that we are using to explain the Exploding Unit. As usual, we have 1 Line in the Layout for the Unit, and of course this Line can expand into multiple Lines in the Report Result, depending on the number of Iterations selected by Data Keys or Data Iteration.



Slide 6

Slide notes:



Slide 7

Slide notes: Let's test the Report to see the Result.



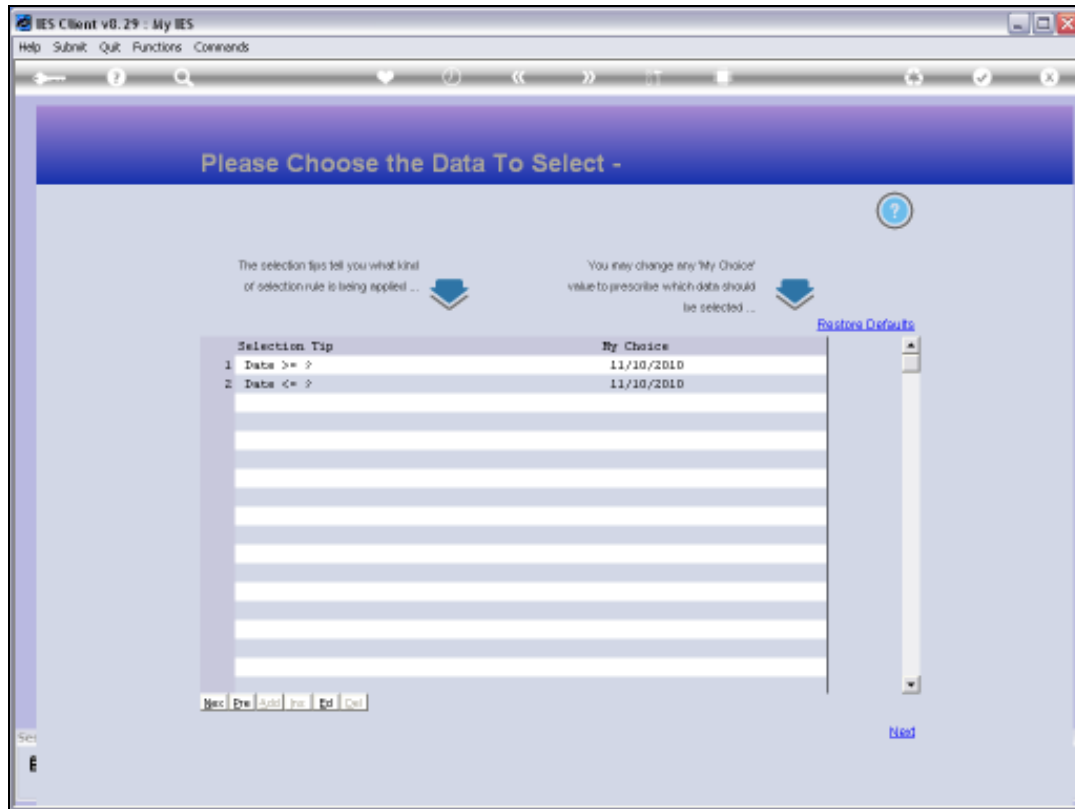
Slide 8

Slide notes:



Slide 9

Slide notes:



Slide 10

Slide notes:



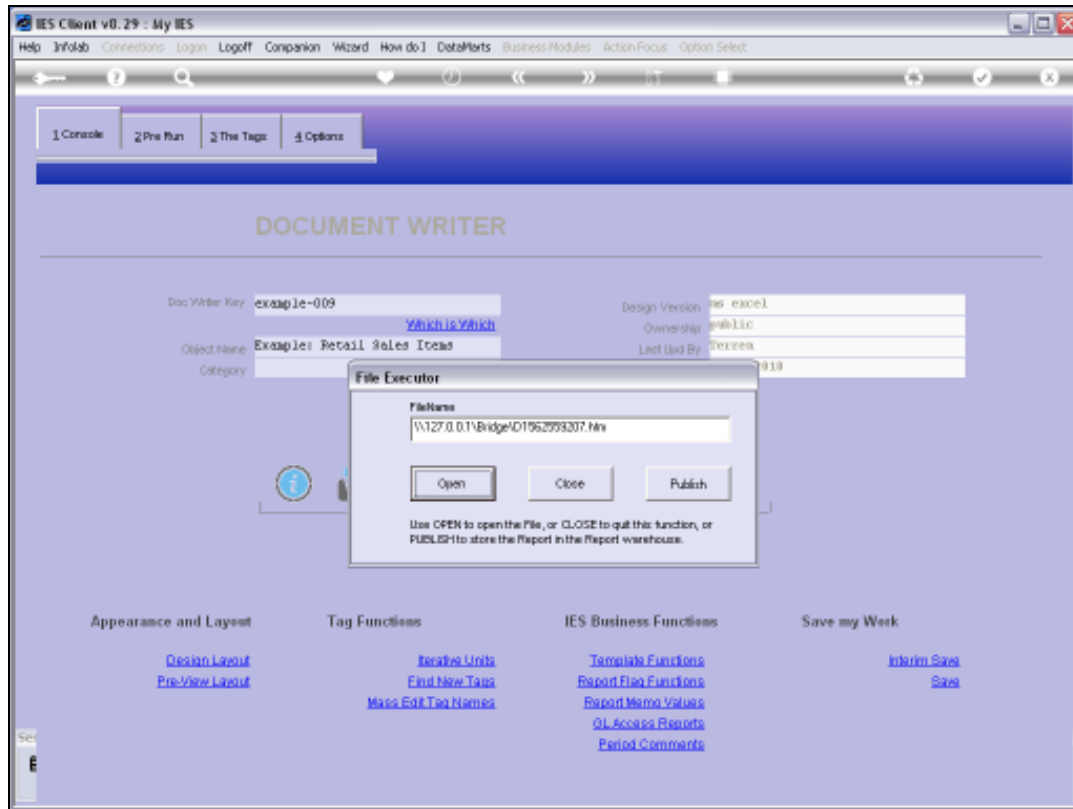
Slide 11

Slide notes:



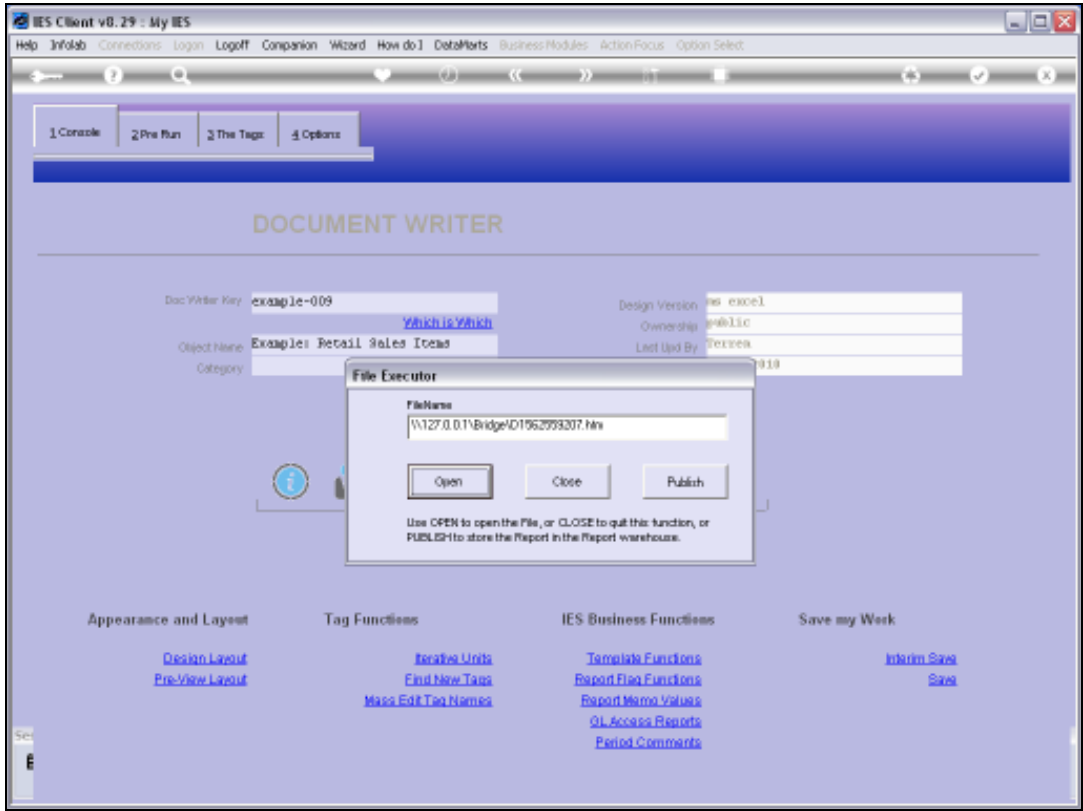
Slide 12

Slide notes:

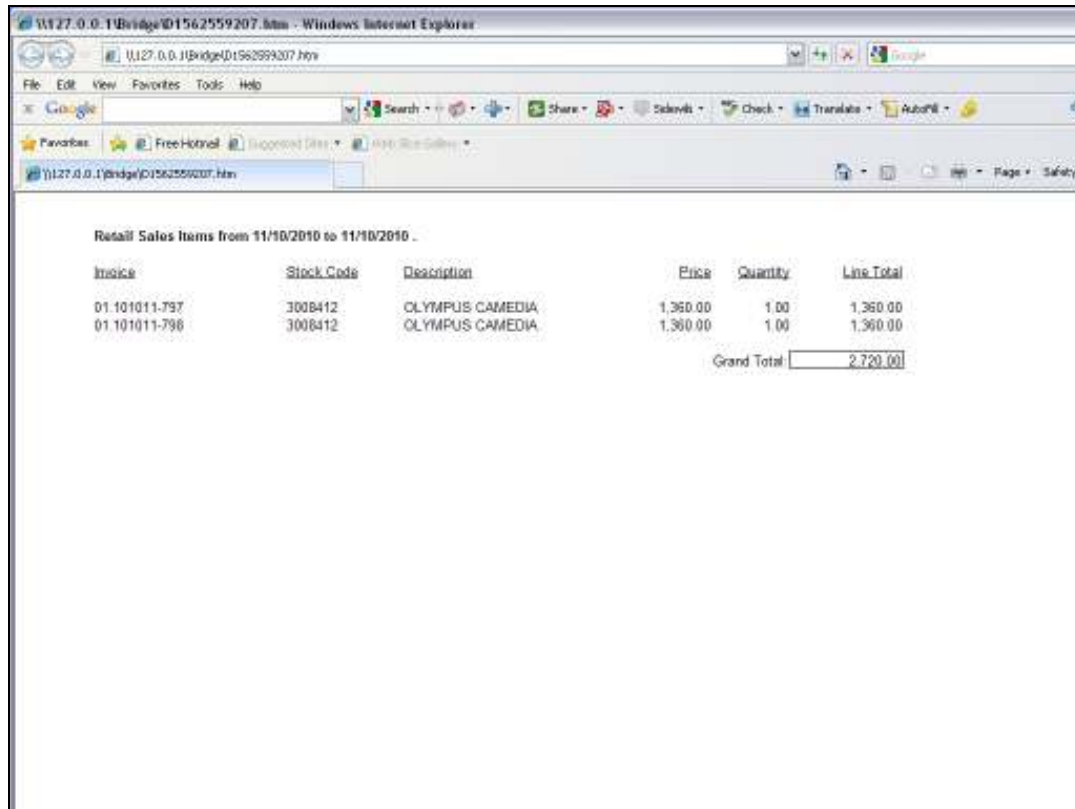


Slide 13

Slide notes:



Slide 14
Slide notes:

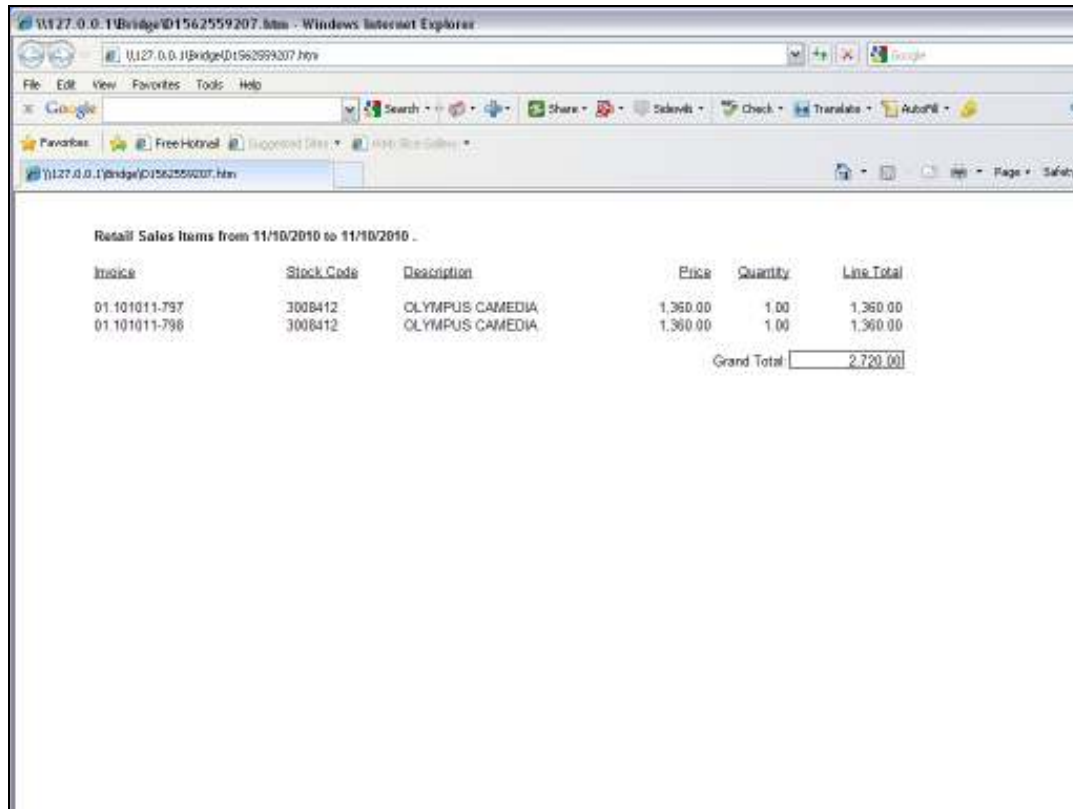


Retail Sales Items from 11/10/2010 to 11/10/2010 .

Invoice	Stock Code	Description	Price	Quantity	Line Total
01.101011-797	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-798	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
Grand Total					2,720.00

Slide 15

Slide notes: And the result for 1 Day reveals a selection of 2 Invoices. As we can see, the Data Keys selected for iteration have resulted in 2 Invoice Lines being selected, and these 2 comprise the Unit result.



Retail Sales Items from 11/10/2010 to 11/10/2010 .

Invoice	Stock Code	Description	Price	Quantity	Line Total
01.101011-797	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-798	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
Grand Total					2,720.00

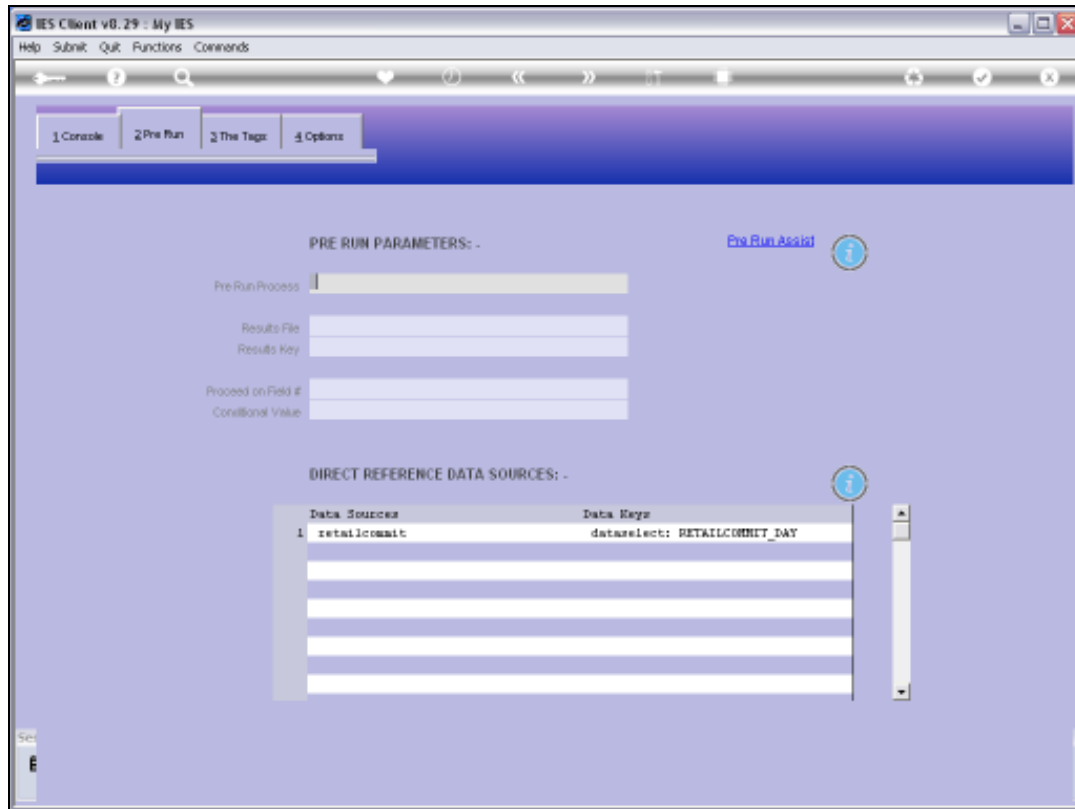
Slide 16

Slide notes:



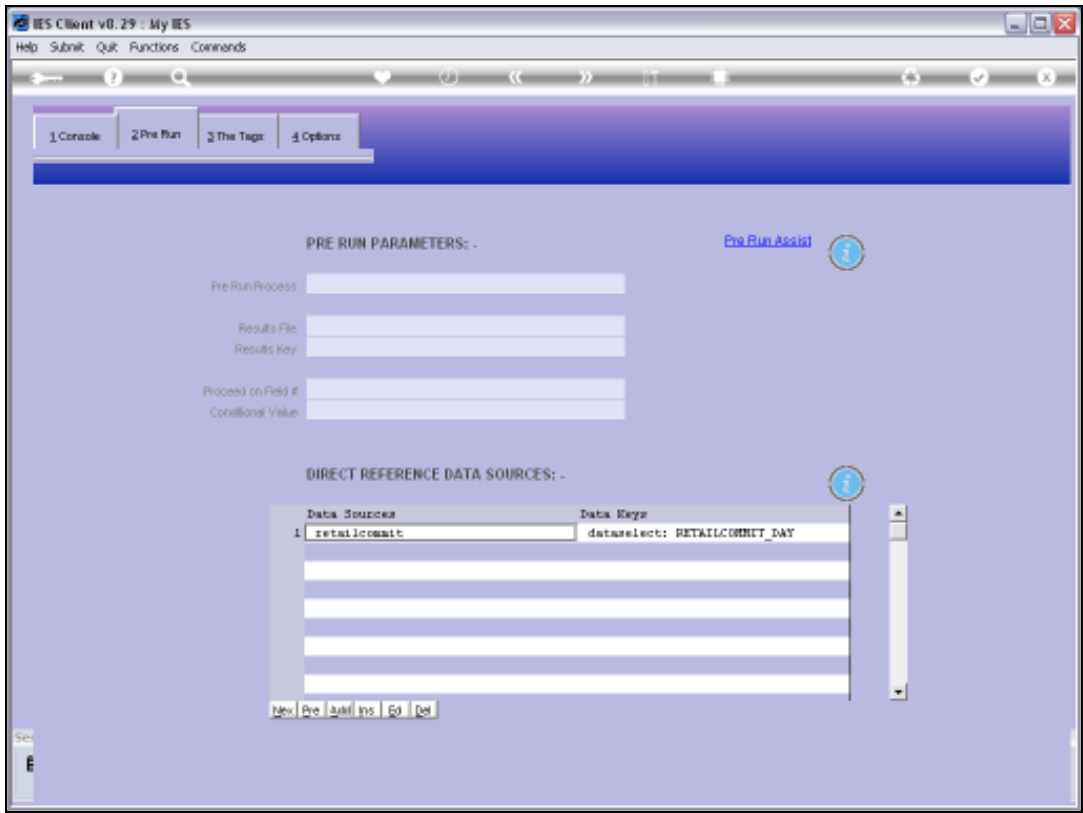
Slide 17

Slide notes:

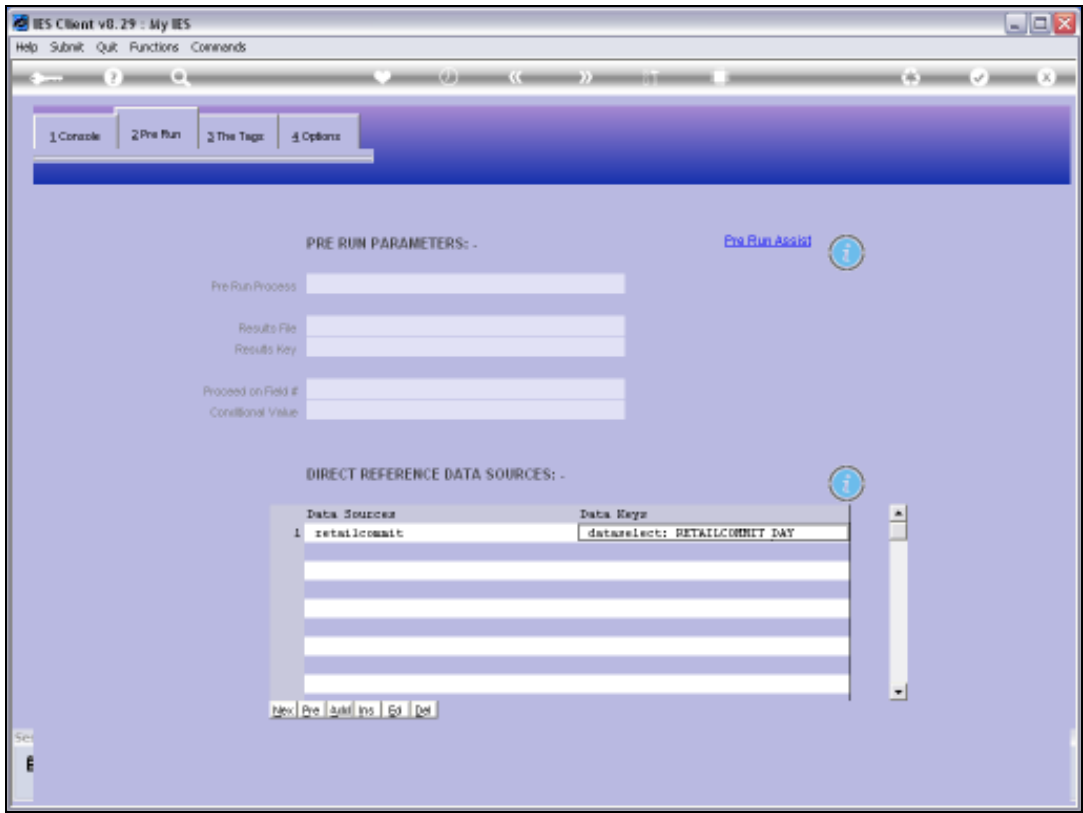


Slide 18

Slide notes: To understand what is happening here, we show that we are using RETAILCOMMIT as a Data Source. This File has the Retail Invoices, so we can make any selection of Invoices from the File, and then each Invoice returns 1 line to the Unit Result.



Slide 19
Slide notes:

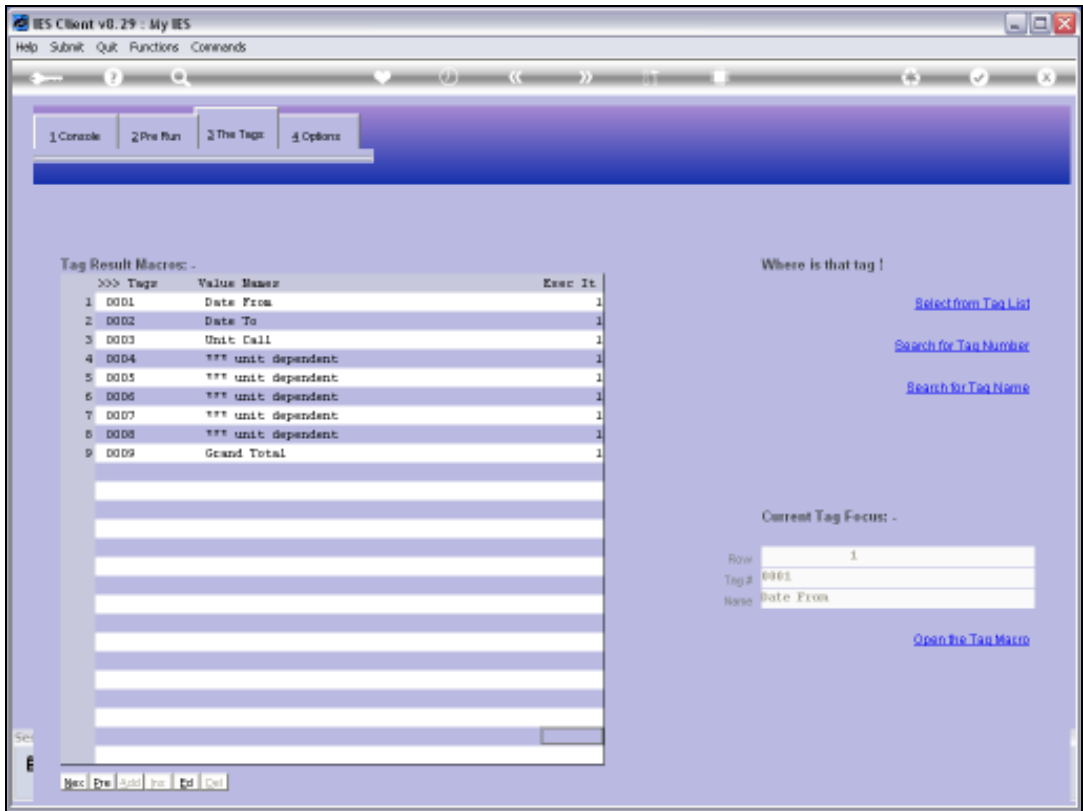


Slide 20
Slide notes:

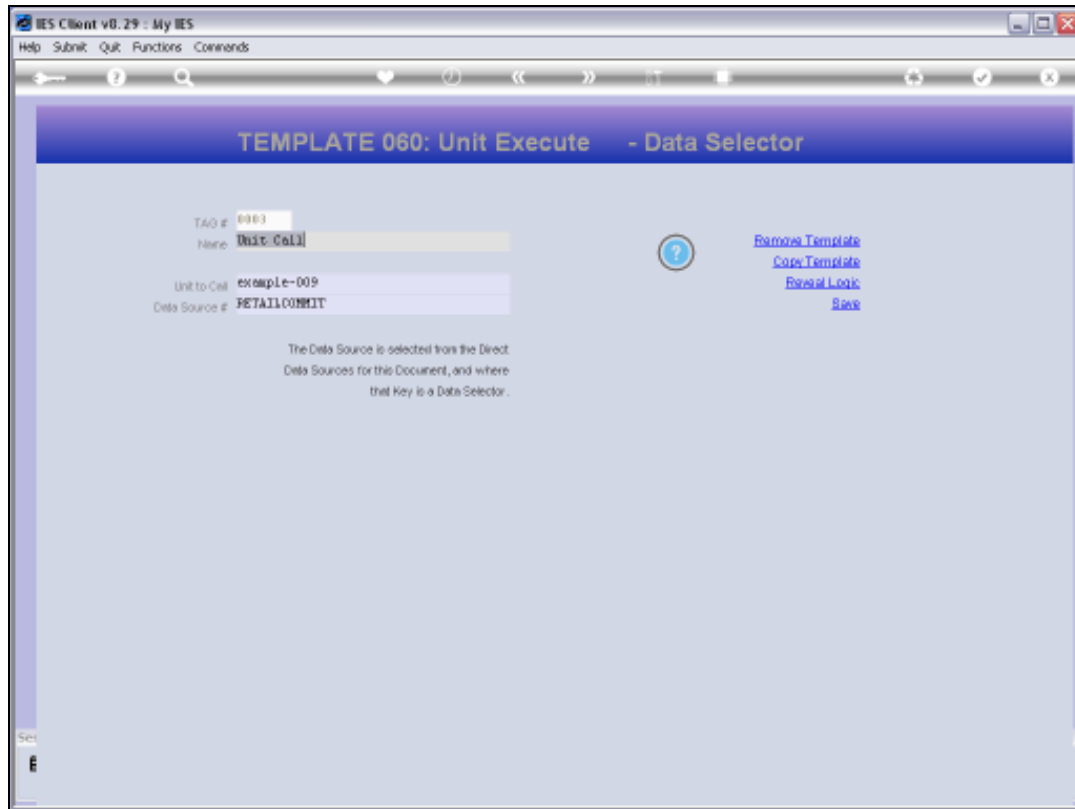


Slide 21

Slide notes:

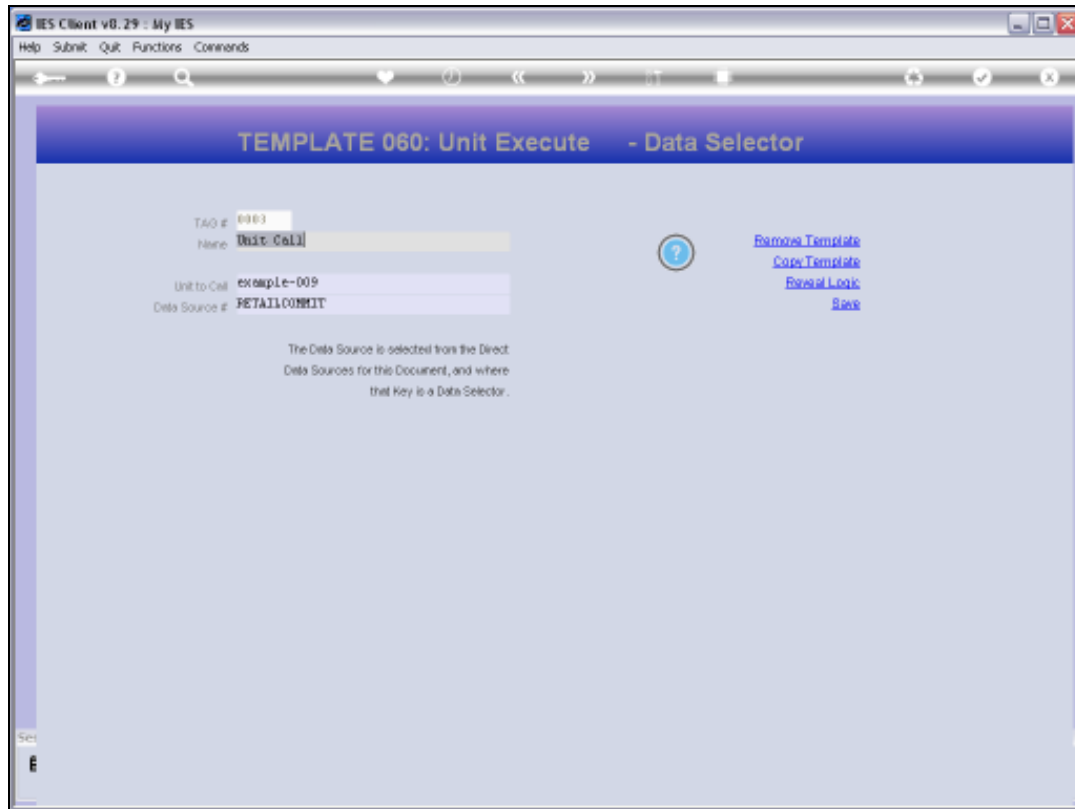


Slide 22
Slide notes:



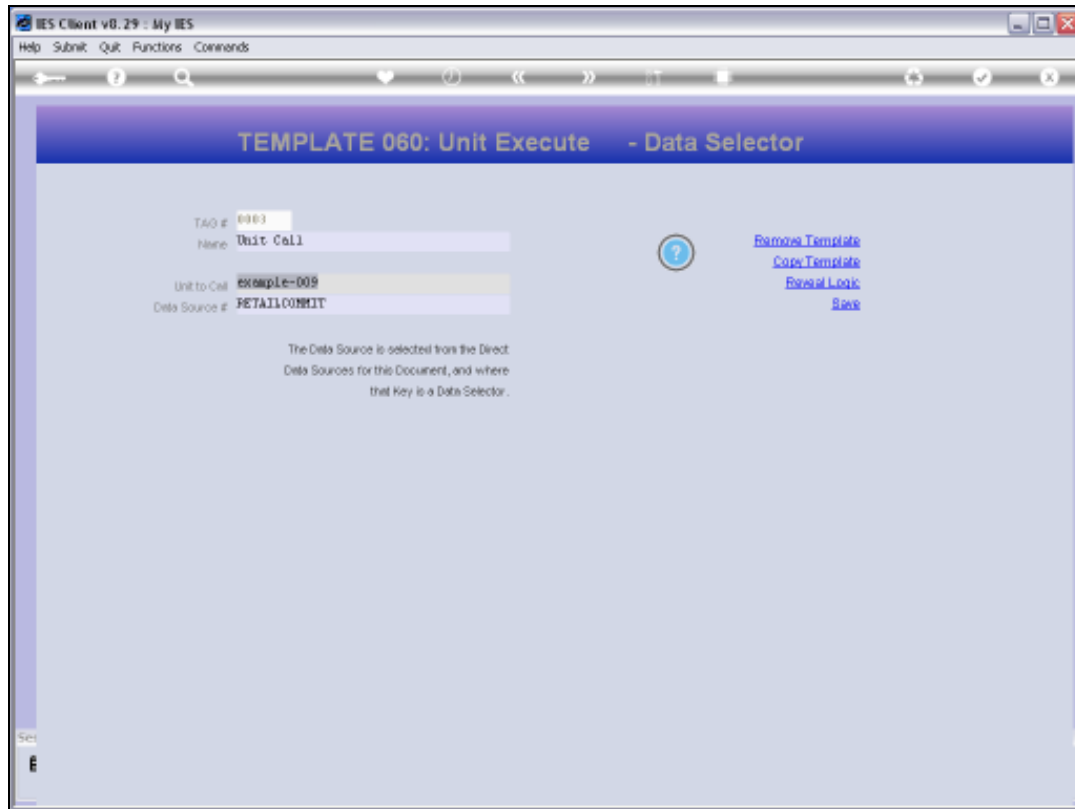
Slide 23

Slide notes: Here is the Unit we are calling.



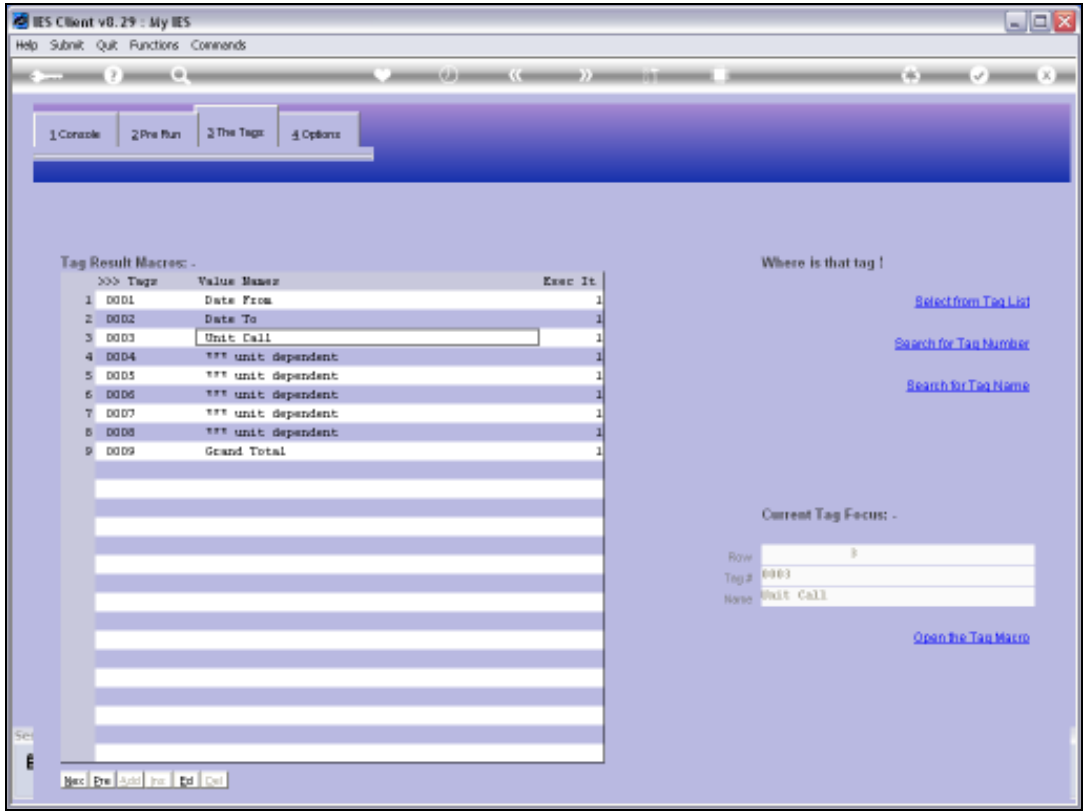
Slide 24

Slide notes:

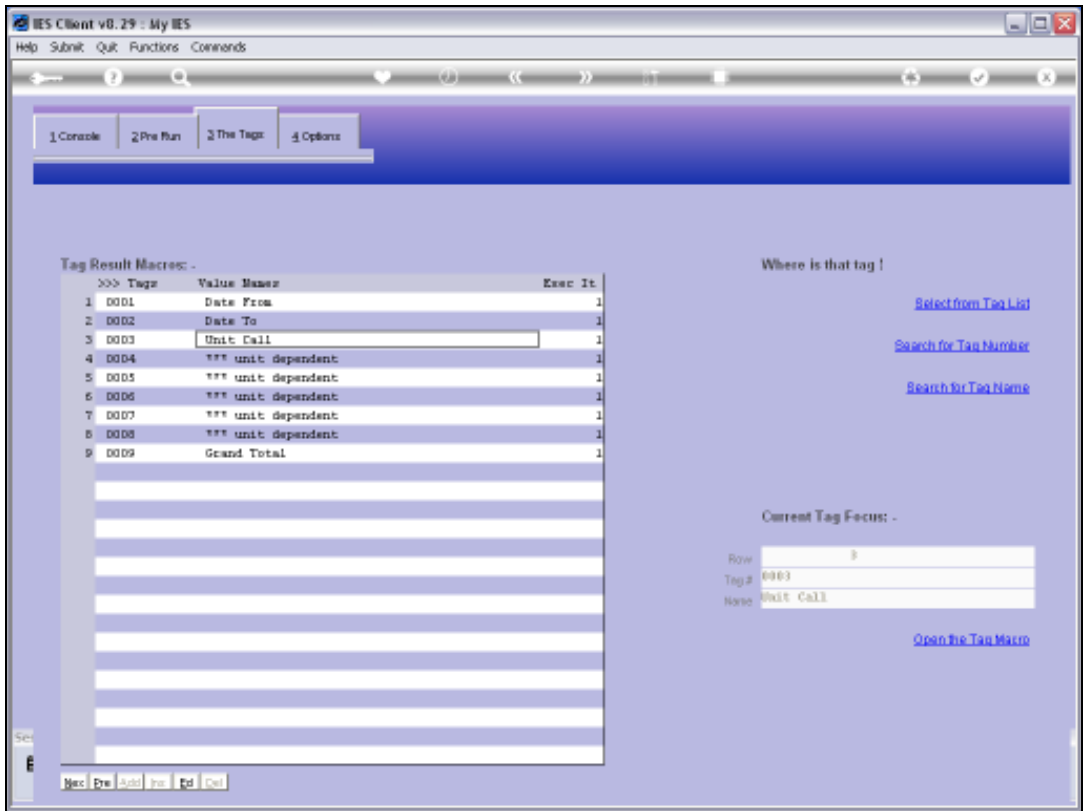


Slide 25

Slide notes:



Slide 26
Slide notes:

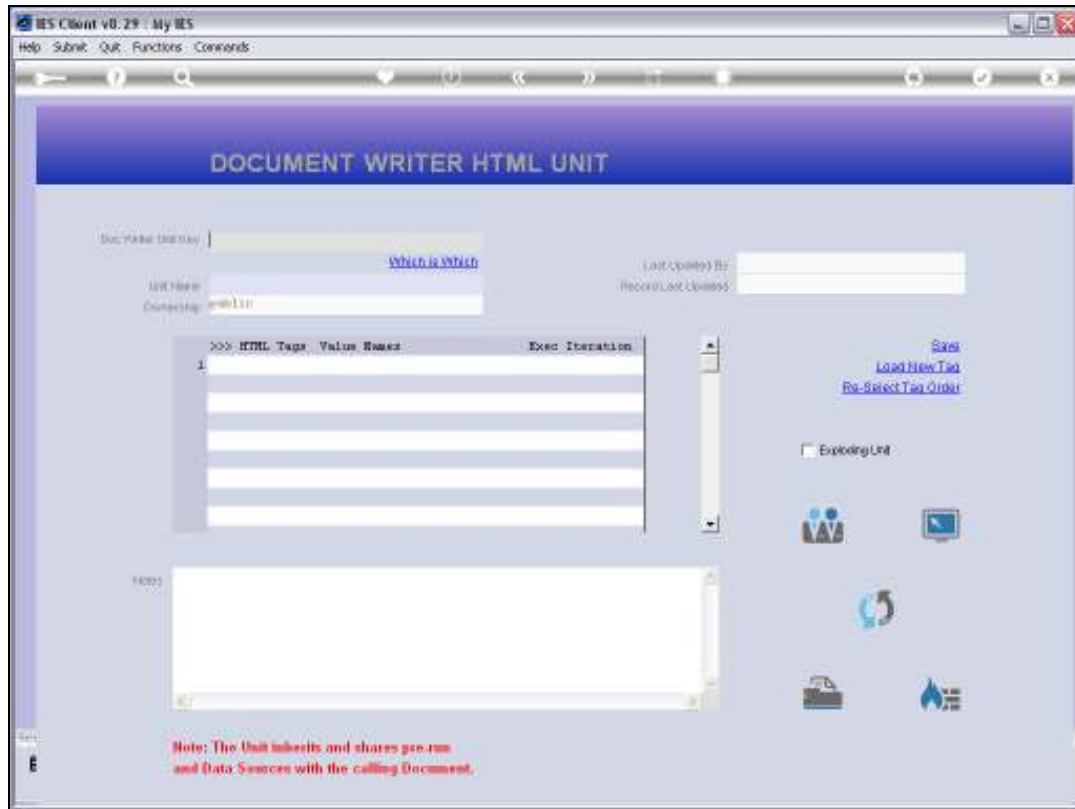


Slide 27
Slide notes:



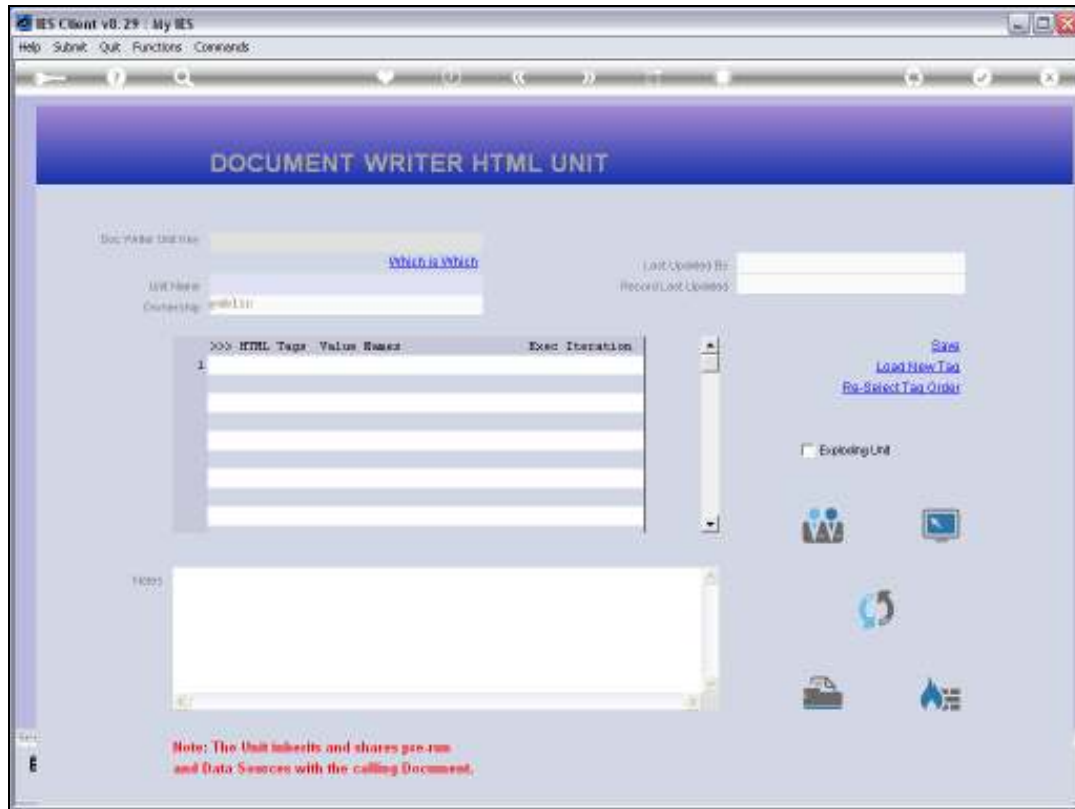
Slide 28

Slide notes:



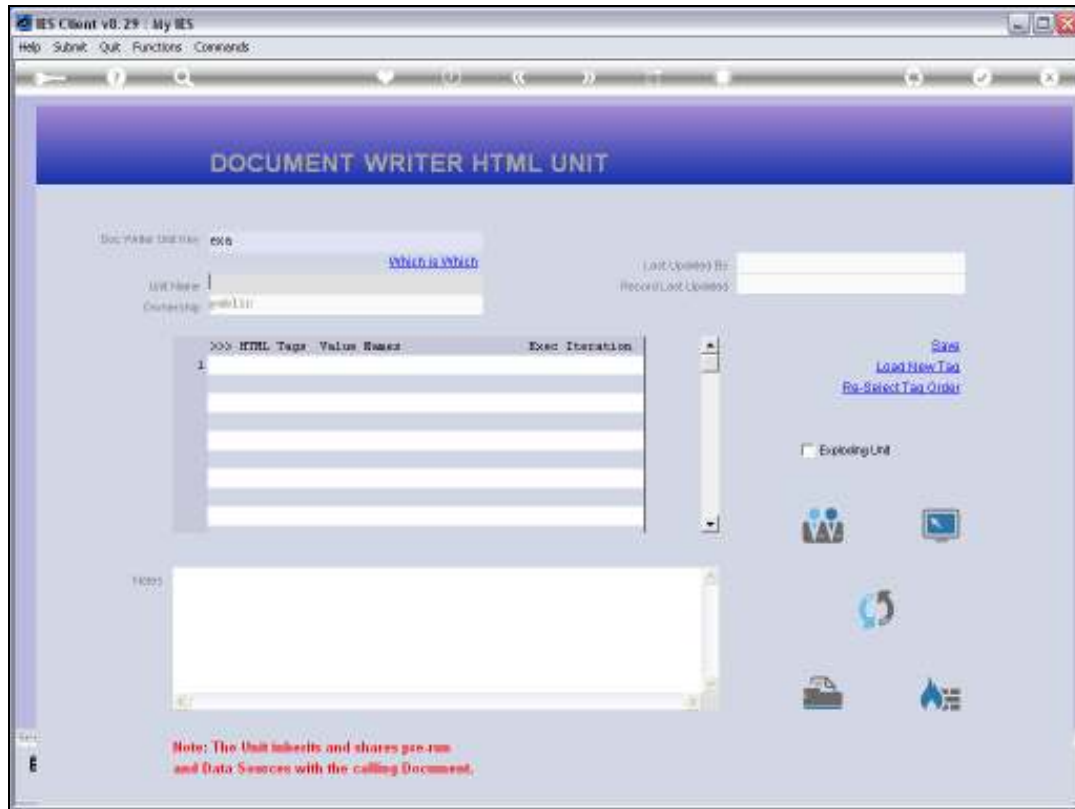
Slide 29

Slide notes:



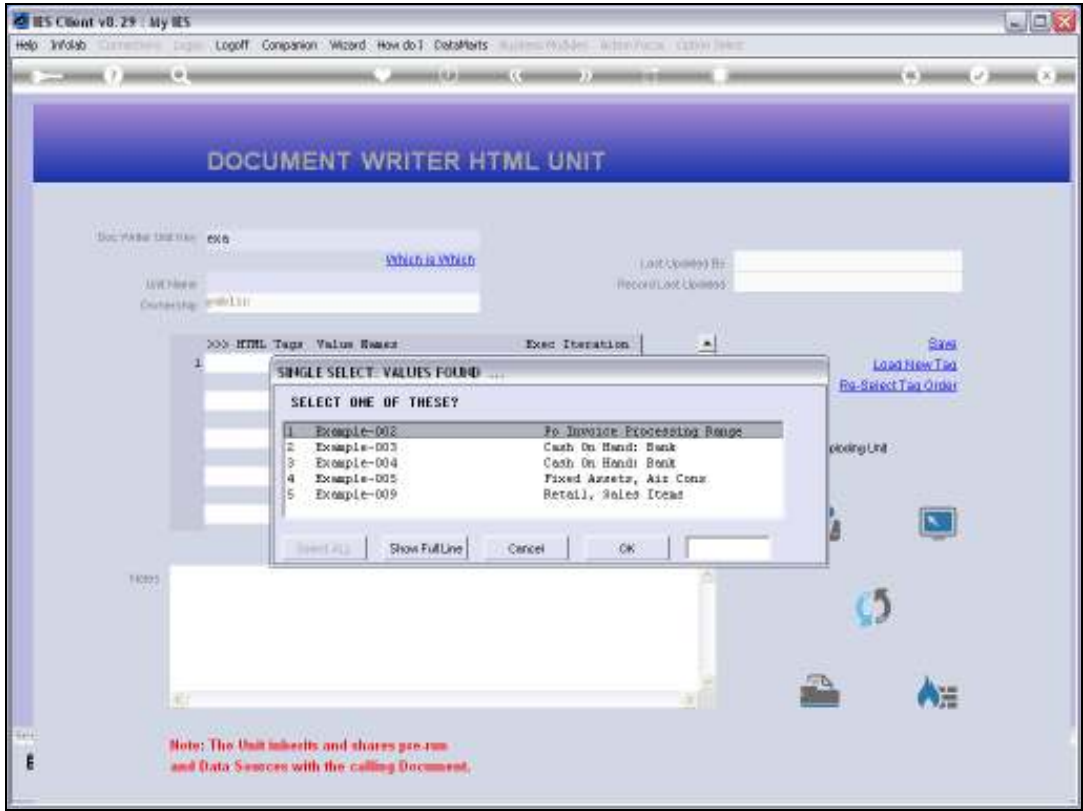
Slide 30

Slide notes:

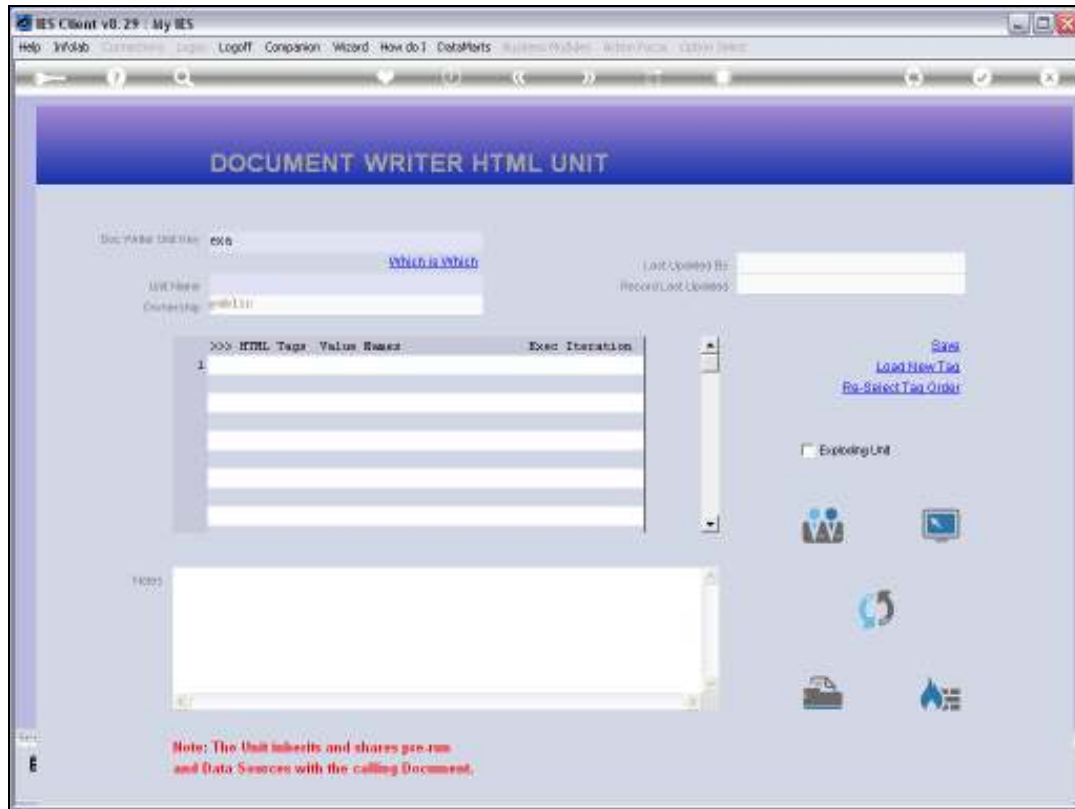


Slide 31

Slide notes:



Slide 32
Slide notes:



Slide 33

Slide notes:

The screenshot shows the IES Client v8.29 interface. The main window displays the configuration for '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:

- Template Information:** TAG # 0002, Name Stock Code, Tag Addressing relative.
- Data Source:** Data Source Name RETAILCOMMIT RETAIL SALES FINAL, Data Field Name COMMOD Stock Code.
- Formatting Options:** Alignment left justified, Result Width 21, Bold? normal, Underline? normal.
- Actions:** Remove Template, Copy Template, Reveal Logic, Save.
- Tag Result:** Tag Result always return a result, Operator =, Conditional Value.

The status bar at the bottom shows 'Session Info: Termination using IES' and a list of open applications: Centool, Application Wizard, Tag Business Template, BOFRIND-TAG-TEMPLATE02, and the current date and time: 2010/10/11 16:28:20.

Slide 34

Slide notes: When the target Record contains multi-valued data for any of the Tags accessed by NAME, as for this Template example, then we have a possibility for an Exploding Unit.

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 #**: 0002
- Name**: Stock Code
- Tag Addressing**: relative
- Data Source Name**: RETAILCOMMIT RETAIL SALES FINAL
- Data Field Name**: COMMOD Stock Code
- Alignment**: left justified
- Result Width**: 21
- 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: Termination is using IES" and a list of open applications: Centool, Application Wizard, Tag Business Template, and BOFRIND-TAG-TEMPLATE02. The date and time are 2010/10/11 16:28:21.

Slide 35

Slide notes:

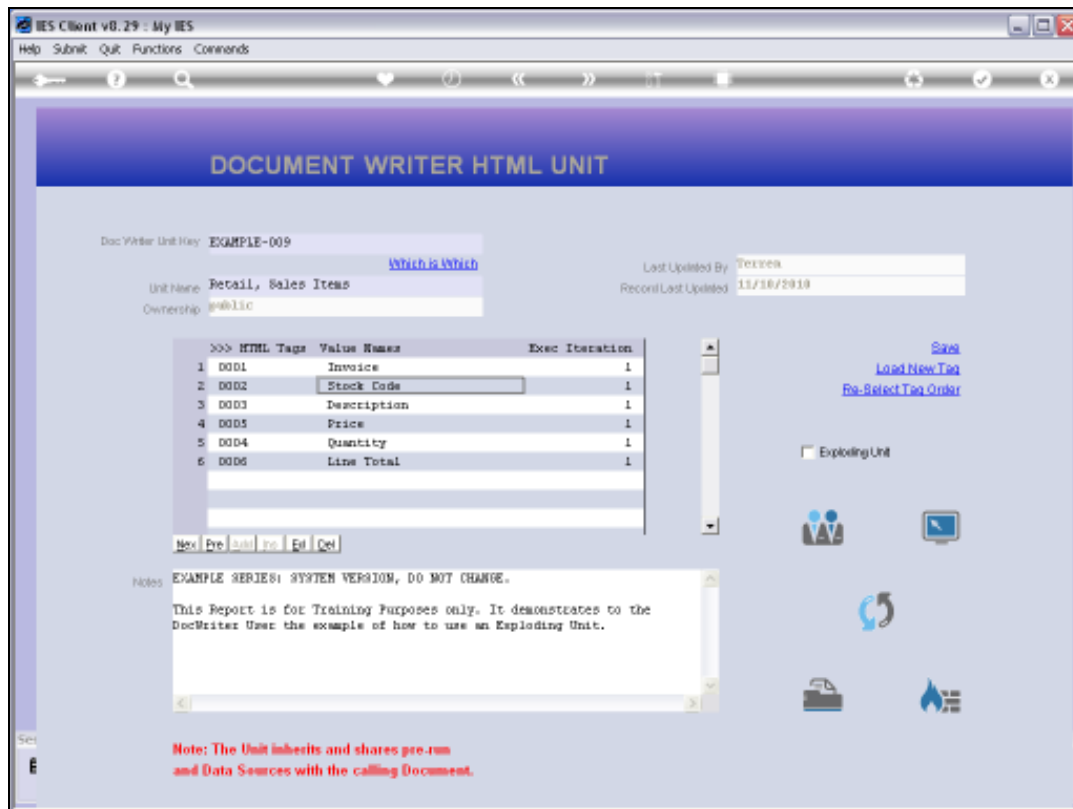
The screenshot shows the IES Client v8.29 interface. The main window is titled "TEMPLATE 062: Iterative Alpha with IKEY". The interface includes a menu bar (Help, Submit, Quit, Functions, Commands) and a toolbar with various icons. The main content area is divided into several sections:

- Tag #**: 0002
- Name**: Stock Code
- Tag Addressing**: relative
- Data Source Name**: RETAILCOMMIT RETAIL SALES FINAL
- Data Field Name**: COMMOD Stock Code
- Alignment**: l: left justified
- Result Width**: 21
- 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: Termination using IES" and a list of open applications: Centool, Application Wizard, Tag Business Template, and BOFRIND-TAG-TEMPLATE02. The date and time are 2010/10/11 16:28:24.

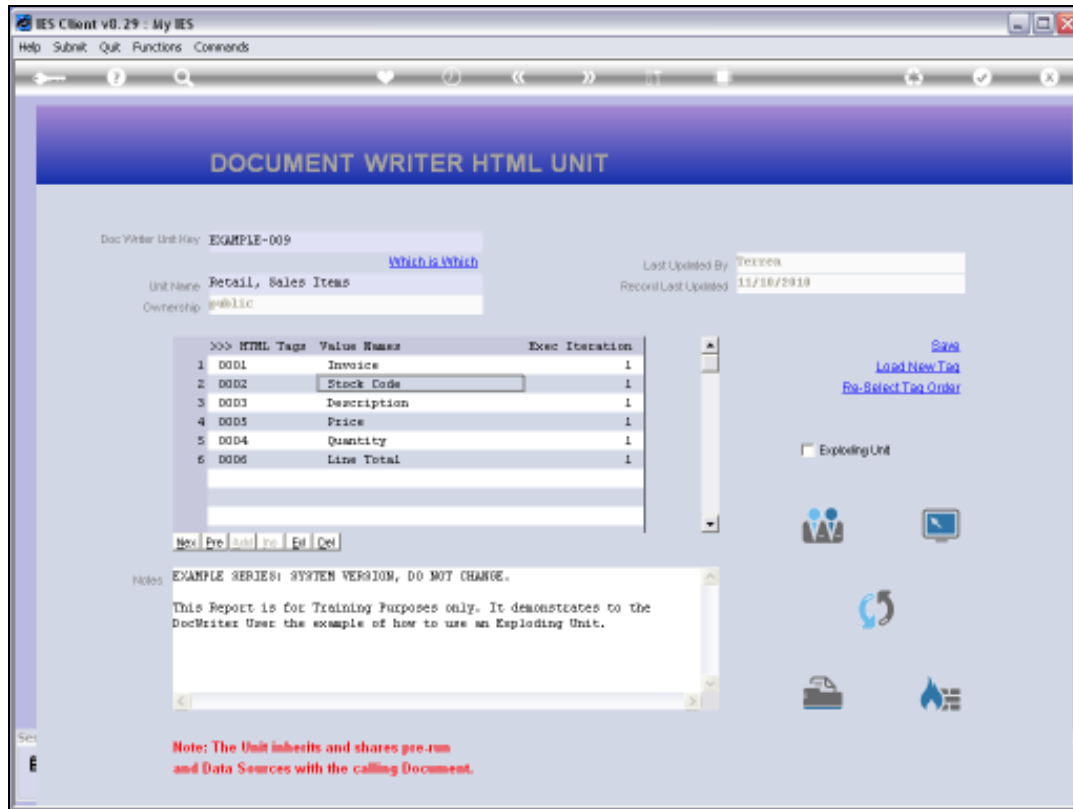
Slide 36

Slide notes:



Slide 37

Slide notes:



Slide 38

Slide notes:

IES Client v0.29 : My IES

Help Submit Quit Functions Commands

← ? ↻ ⏪ ⏩ ⏴ ⏵ ⏶ ⏷

TEMPLATE 061: Iterative Numeric with IKEY select

?

TAG # 0005

Name PRICE

Data Source Name RETAILCOMMIT RETAIL SALES FINAL

Data Field Name DISC Cust Price

Data Field Name (2)

Names Operation 1: no operation

Accumulate to (N) working var 22

[Remove Template](#) [Copy Template](#)

[Reset Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment right justified

Result Width 21

Bold ?

Underline ?

☐ Sign Convert ? (+/-)

Tag Result always return a result

Operator *

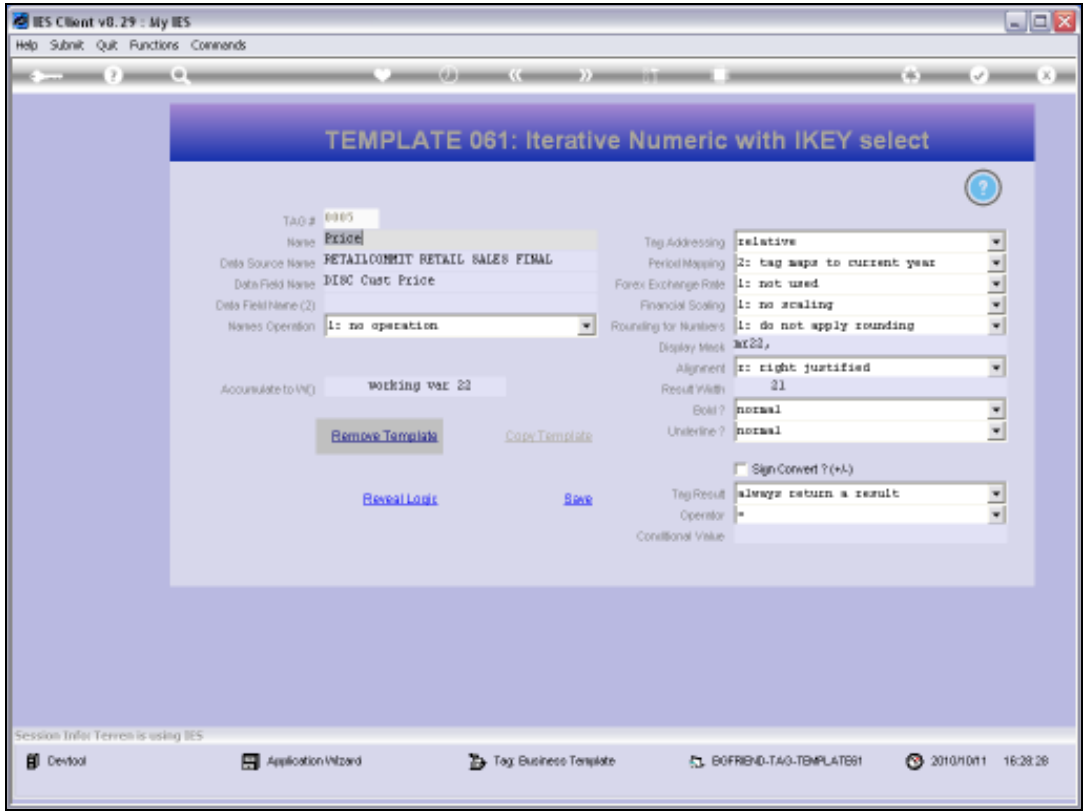
Conditional Value

Session Info: Terren is using IES

Devtool Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/10/11 16:29:28

Slide 39

Slide notes: This example also is by NAME, and of course we can easily understand that any Invoice can possibly include multiple Item Lines. Therefore, instead of each selected Record returning 1 Line to the Unit Result, there is a potential for each selected Record or Invoice to return multiple Lines to the Unit Result if we make the Unit an Exploding Unit.



Slide 40
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

TEMPLATE 061: Iterative Numeric with IKEY select

Tag # 6963

Name Price

Data Source Name RETAILCOMMIT RETAIL SALES FINAL

Data Field Name DISC Cust Price

Data Field Name (2)

Names Operation 1: no operation

Accumulate to VNC working var 22

[Remove Template](#) [Copy Template](#)

[Reveal Logic](#) [Save](#)

Tag Addressing relative

Period Mapping 2: tag maps to current year

Forex Exchange Rate 1: not used

Financial Scaling 1: no scaling

Rounding for Numbers 1: do not apply rounding

Display Mask M22,

Alignment 1: right justified

Result Width 21

Bold? normal

Underline? normal

☐ Sign Convert ? (+/-)

Tag Result always return a result

Operator *

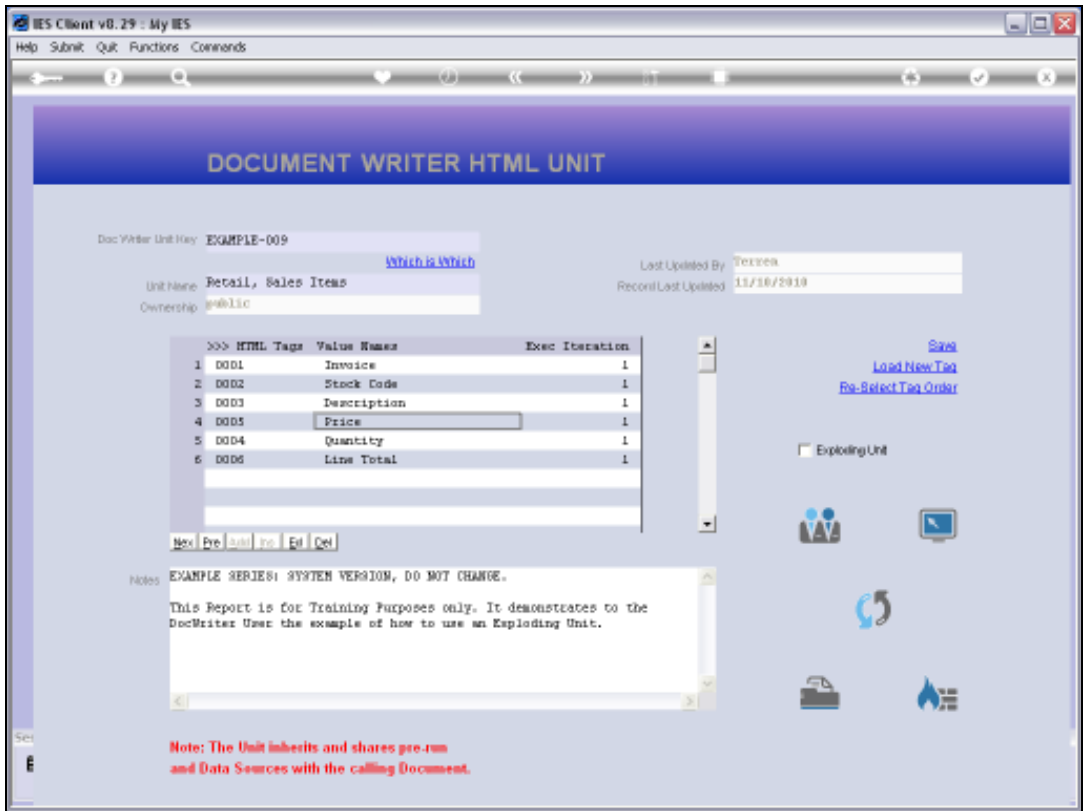
Conditional Value

Session Info: Terren is using IES

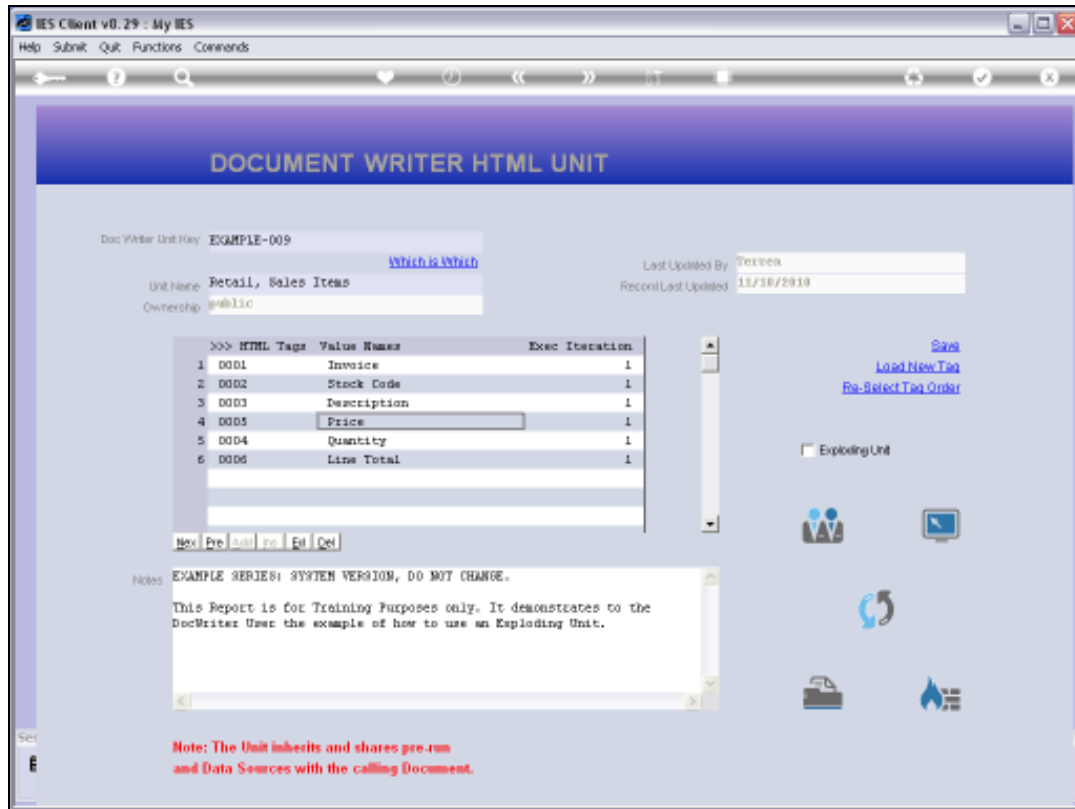
Desktop Application Wizard Tag Business Template BOFRIND-TAG-TEMPLATE01 2010/10/11 16:28:31

Slide 41

Slide notes:

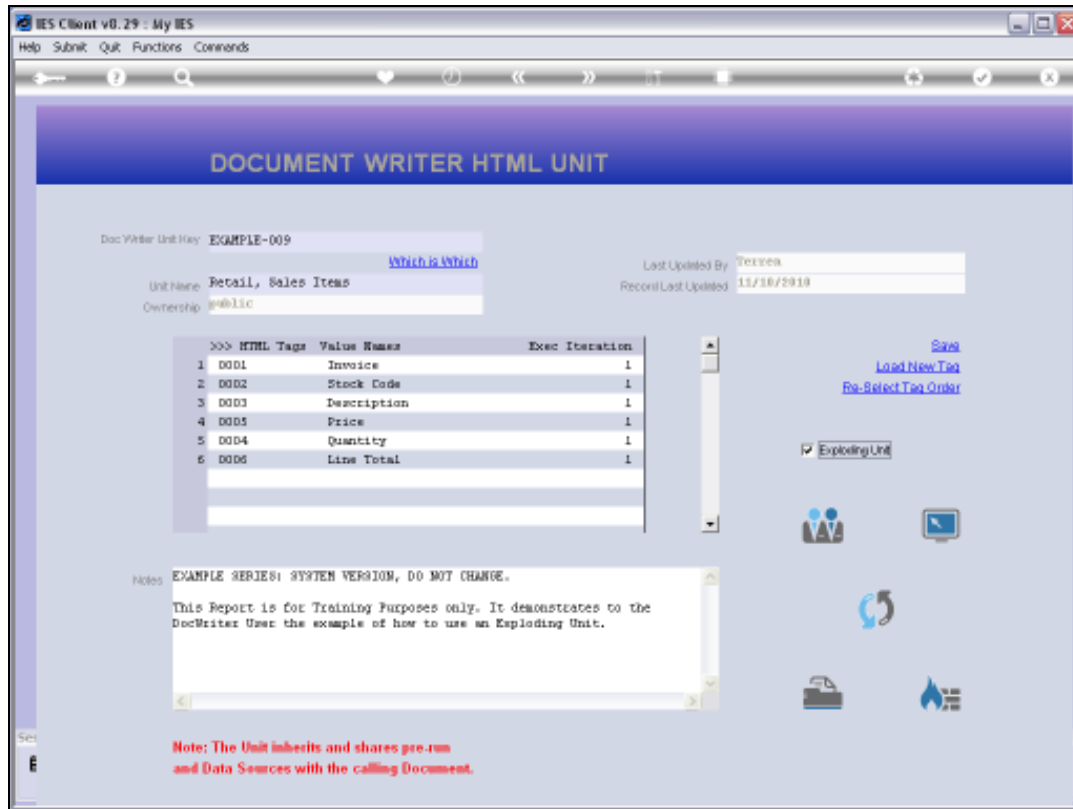


Slide 42
Slide notes:



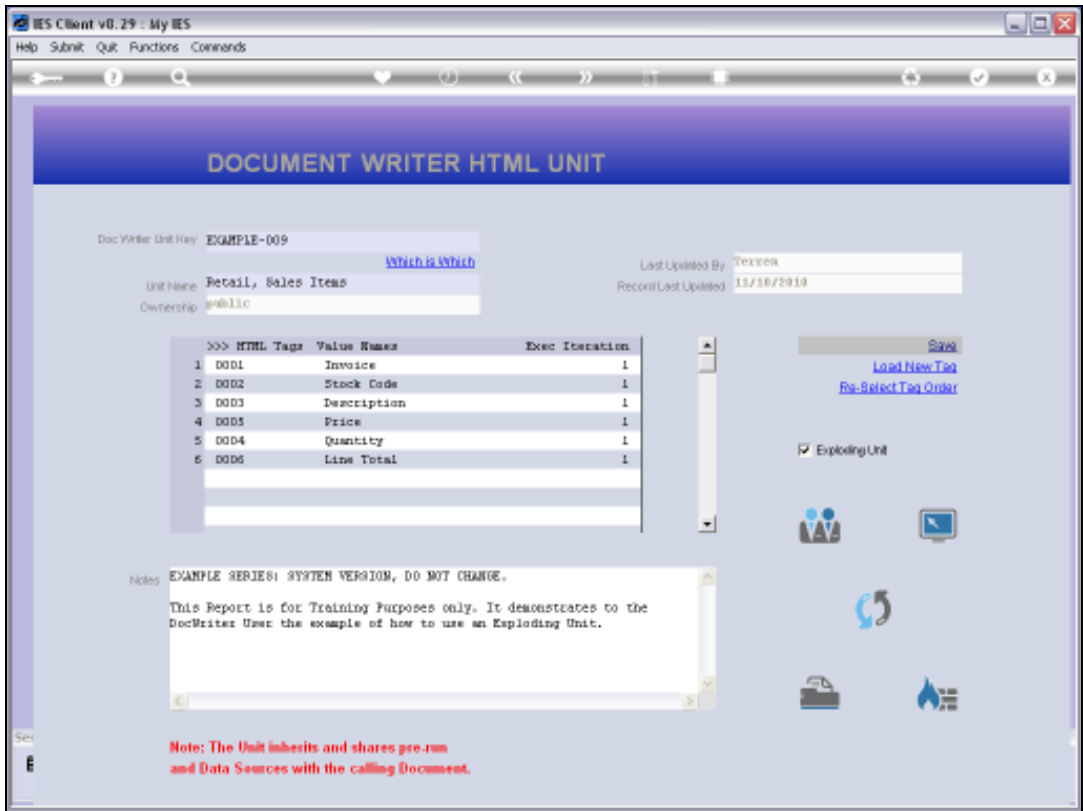
Slide 43

Slide notes: When we tick 'Exploding Unit', then the Unit is empowered to automatically explode any Line Result into Multiple Lines if multi-valued data are found.



Slide 44

Slide notes:



Slide 45
Slide notes:



Slide 46

Slide notes:



Slide 47

Slide notes:



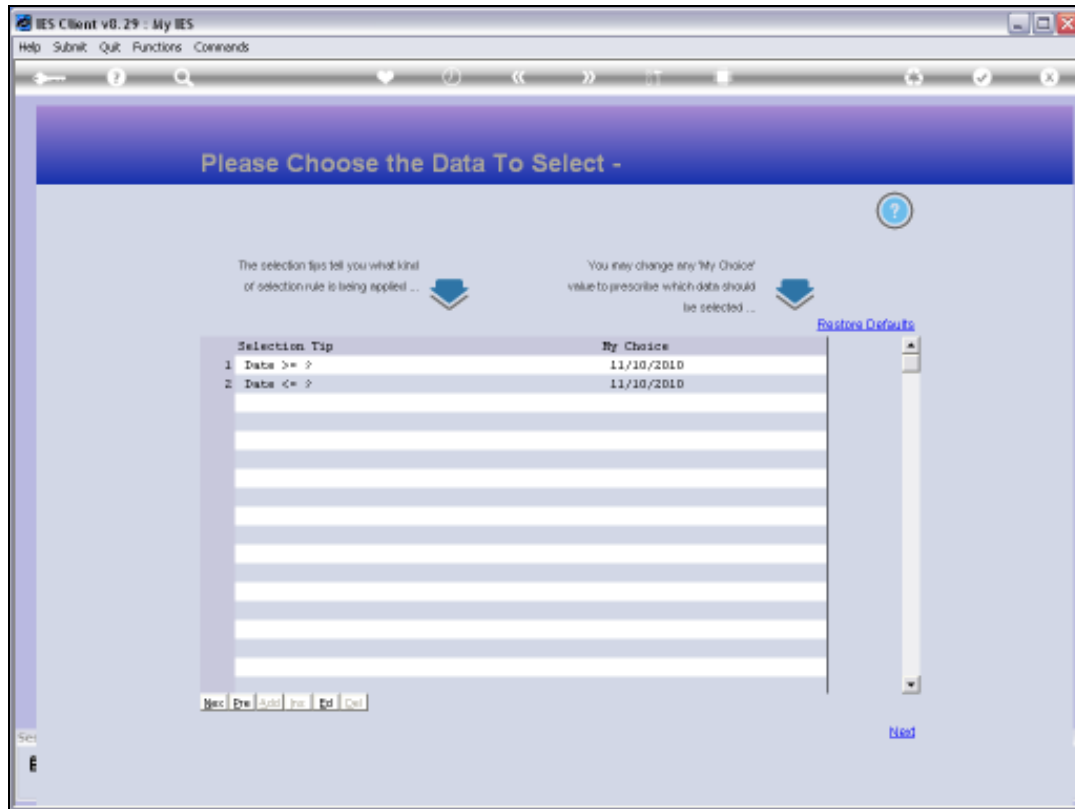
Slide 48

Slide notes:



Slide 49

Slide notes:



Slide 50

Slide notes:



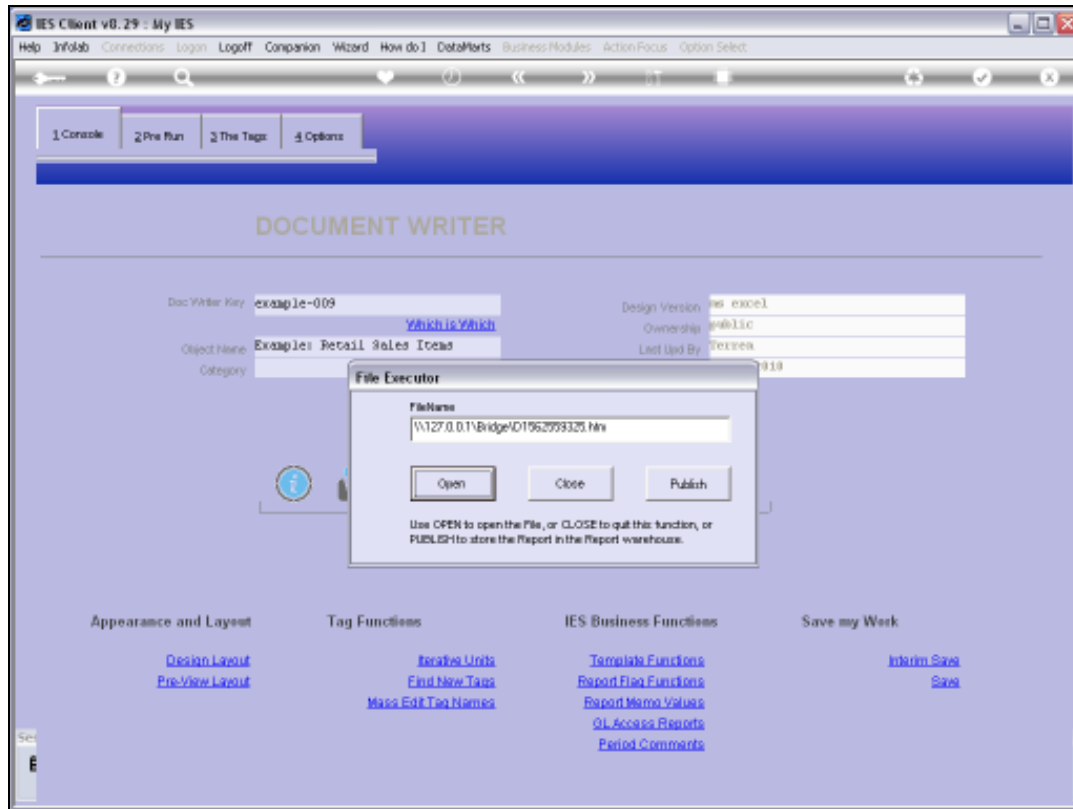
Slide 51

Slide notes:



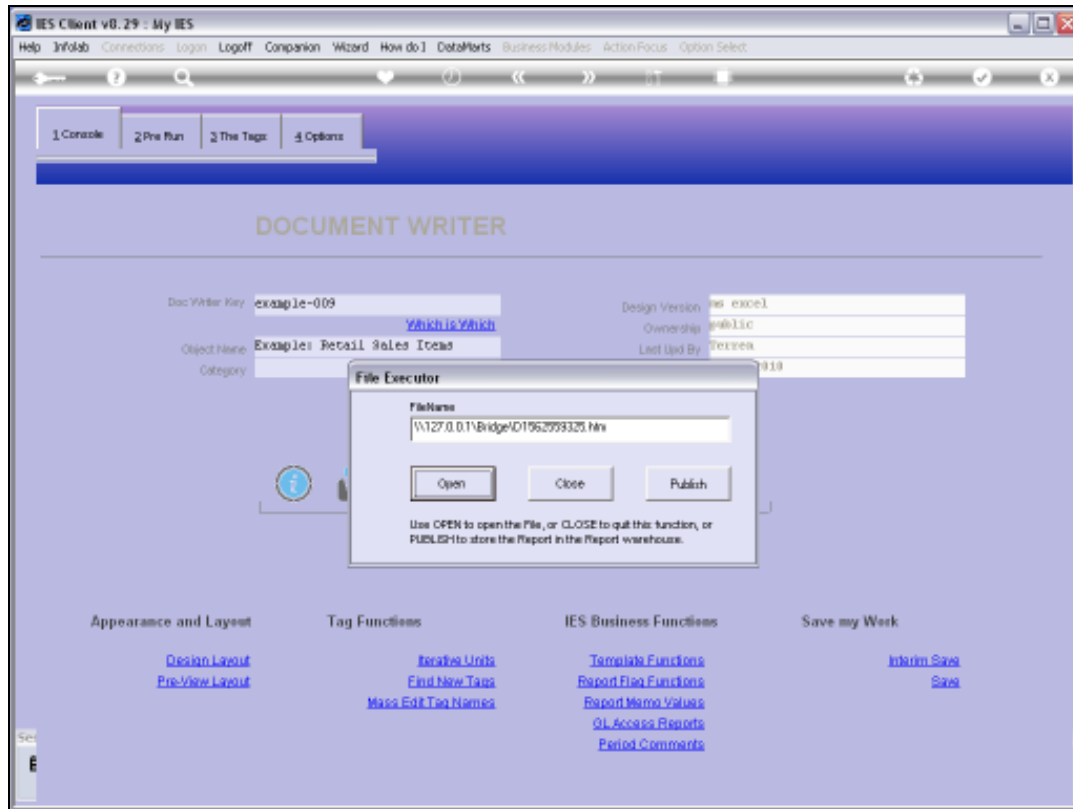
Slide 52

Slide notes:



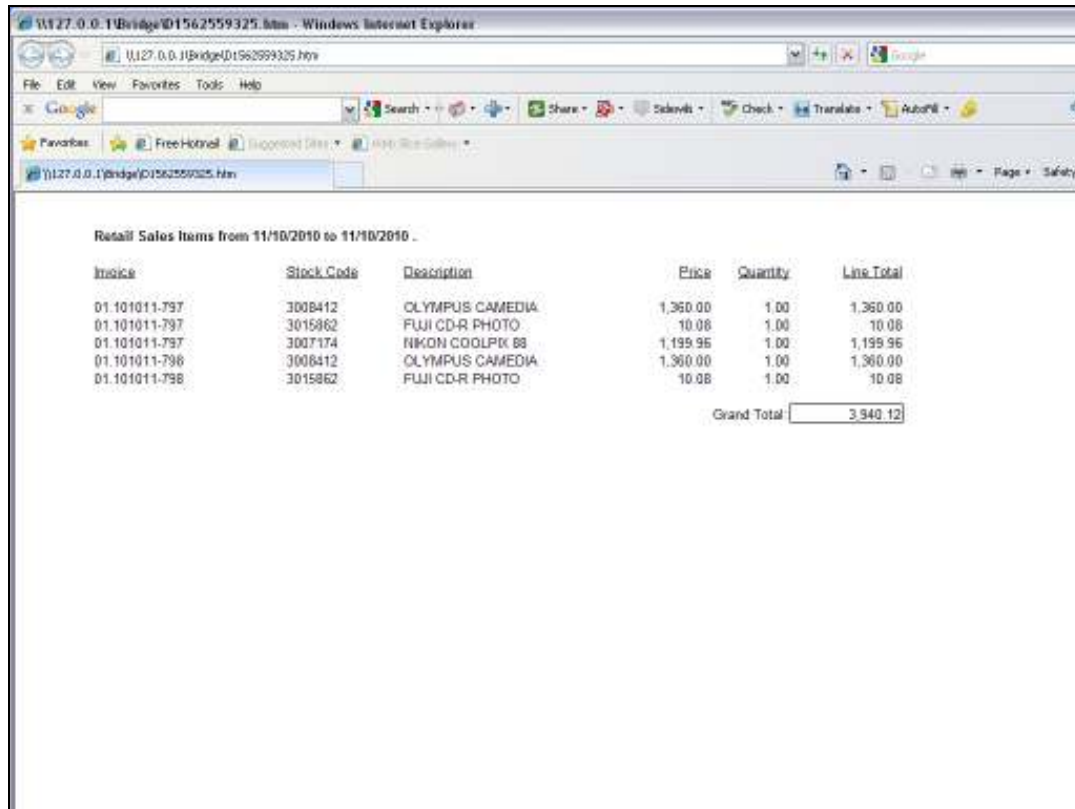
Slide 53

Slide notes:



Slide 54

Slide notes:

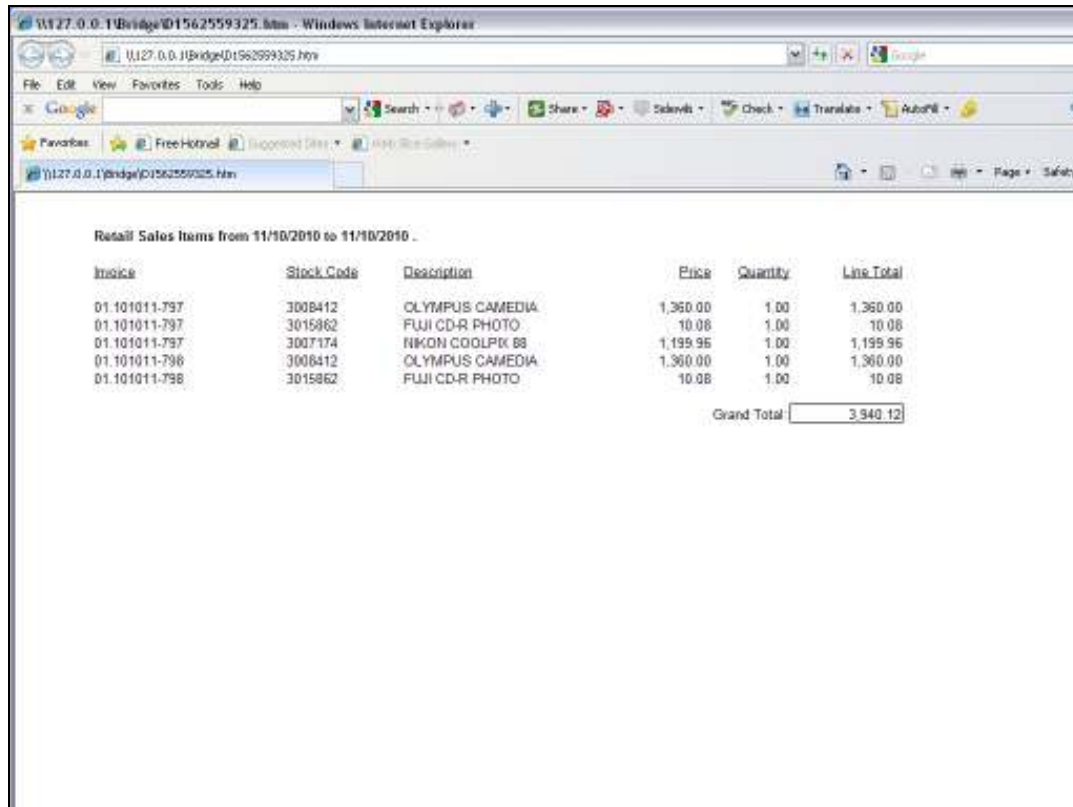


Retail Sales Items from 11/10/2010 to 11/10/2010 .

Invoice	Stock Code	Description	Price	Quantity	Line Total
01.101011-797	3008412	OLYMPUS CAMERA	1,360.00	1.00	1,360.00
01.101011-797	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
01.101011-797	3007174	NIKON COOLPIX 88	1,199.96	1.00	1,199.96
01.101011-798	3008412	OLYMPUS CAMERA	1,360.00	1.00	1,360.00
01.101011-798	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
Grand Total					3,340.12

Slide 55

Slide notes: Now that the unit is an Exploding Unit, we can see multiple lines for any Invoice. Before, we had a result of only 2 Lines. Now, we have a result of 3 lines for the 1st Invoice and 2 lines for the next one.

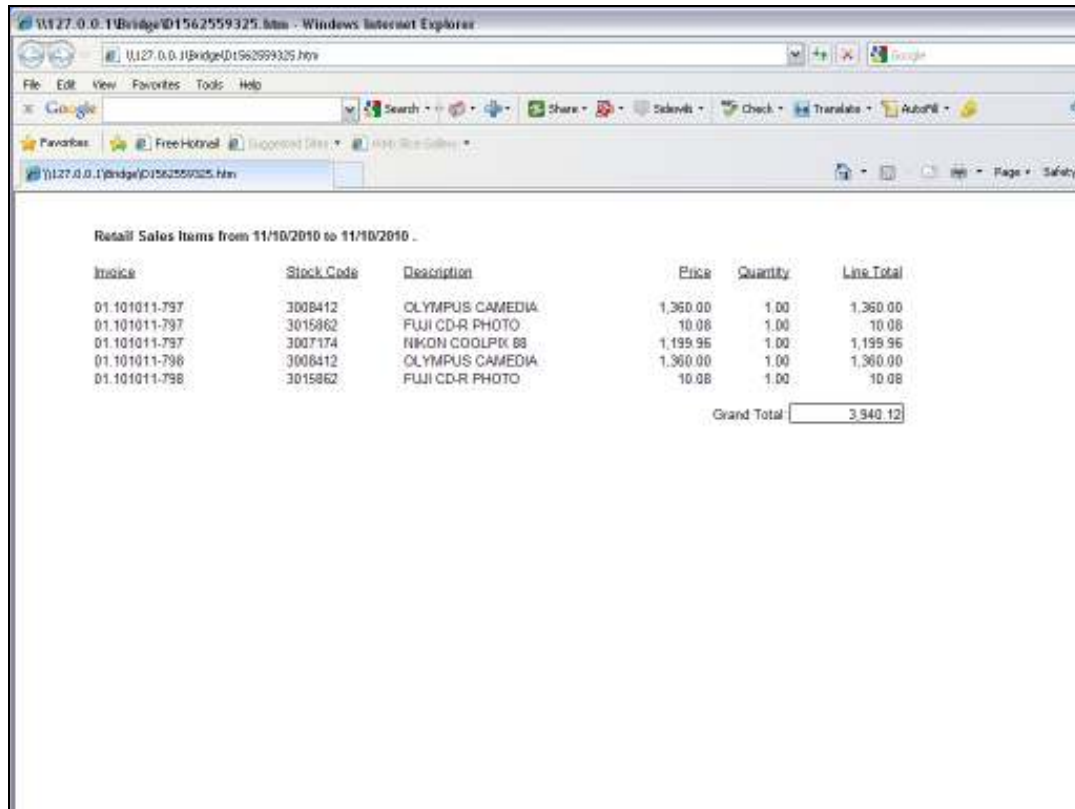


Retail Sales Items from 11/10/2010 to 11/10/2010 .

Invoice	Stock Code	Description	Price	Quantity	Line Total
01.101011-797	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-797	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
01.101011-797	3007174	NIKON COOLPIX 88	1,199.96	1.00	1,199.96
01.101011-798	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-798	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
Grand Total					3,340.12

Slide 56

Slide notes:



Retail Sales Items from 11/10/2010 to 11/10/2010 .

Invoice	Stock Code	Description	Price	Quantity	Line Total
01.101011-797	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-797	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
01.101011-797	3007174	NIKON COOLPIX 88	1,199.96	1.00	1,199.96
01.101011-798	3008412	OLYMPUS CAMEDIA	1,360.00	1.00	1,360.00
01.101011-798	3015862	FUJI CD-R PHOTO	10.08	1.00	10.08
Grand Total					3,340.12

Slide 57

Slide notes: And that is how we can easily use Exploding Units.