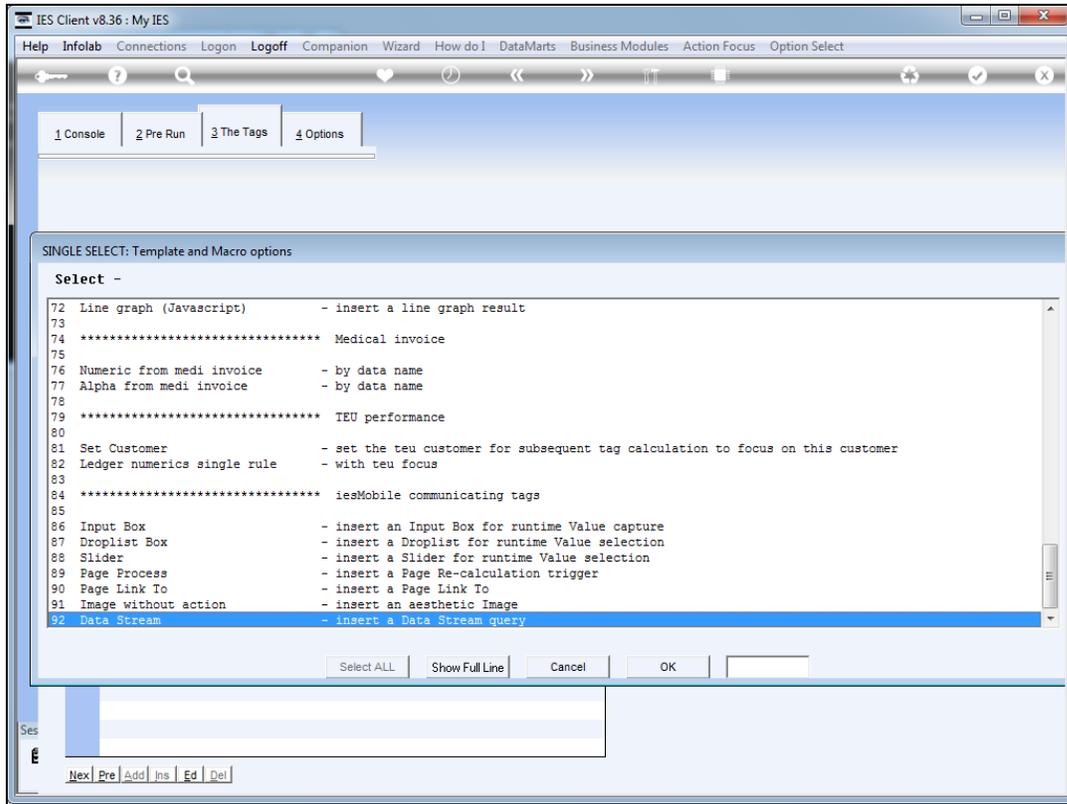


Slide 2
Slide notes:



Slide 3
Slide notes:

IES Client v8.36 : My IES

Help Submit Quit Functions Commands

TEMPLATE 710: Data Stream

TAG # 0001
Name Data Stream

Data Source Name Period Mapping 2: tag maps to current year

Select Query Fields

Query Fields
1

[Remove Template](#)
[Copy Template](#)
[Reveal Logic](#)
[Save](#)

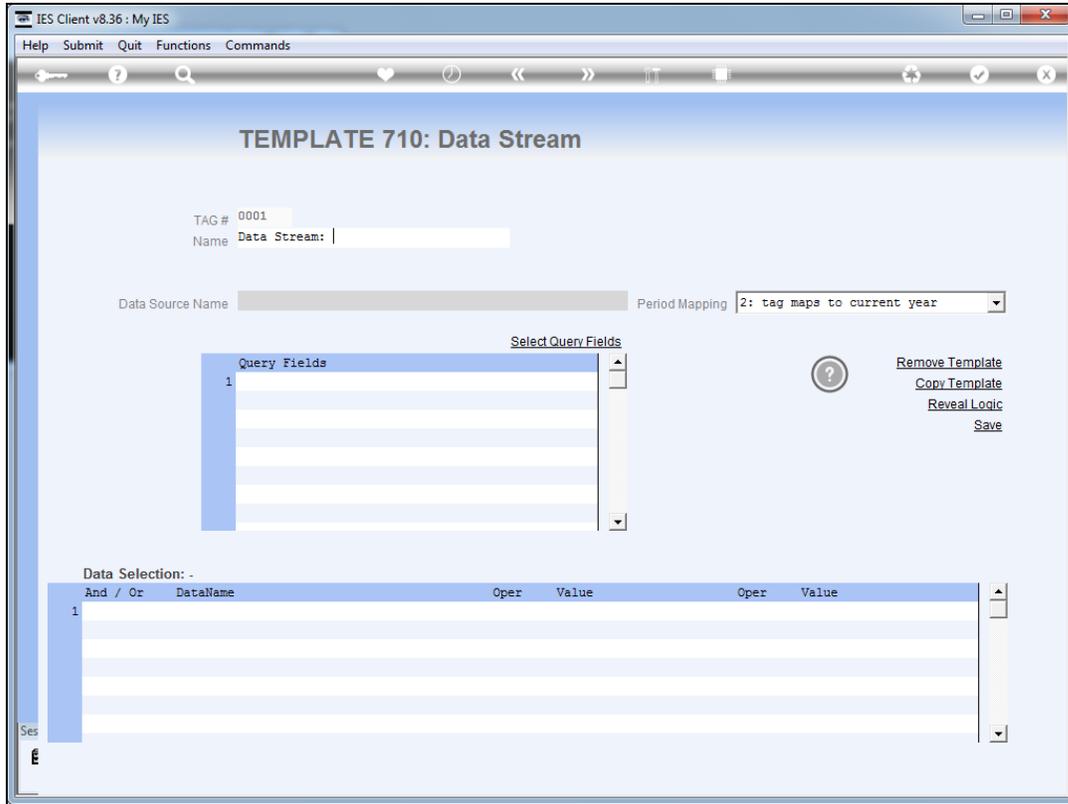
Data Selection: -

And / Or	DataName	Oper	Value	Oper	Value
1					

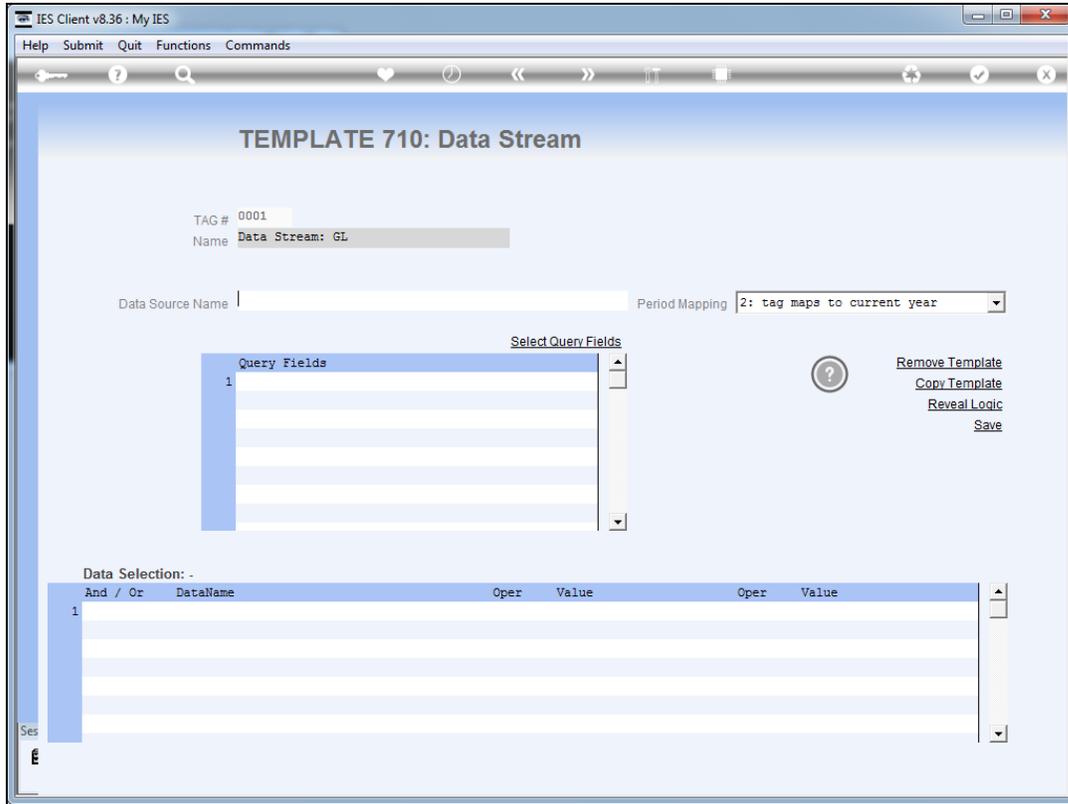
Ses
E

Slide 4

Slide notes: What is the Data Stream Tag for? A Data Stream provides a result of up to 250,000 data records and any number of fields within those records, and provides this result to the tag. The data may then be subjected to logic with Java Script and used in the document in a desired manner.

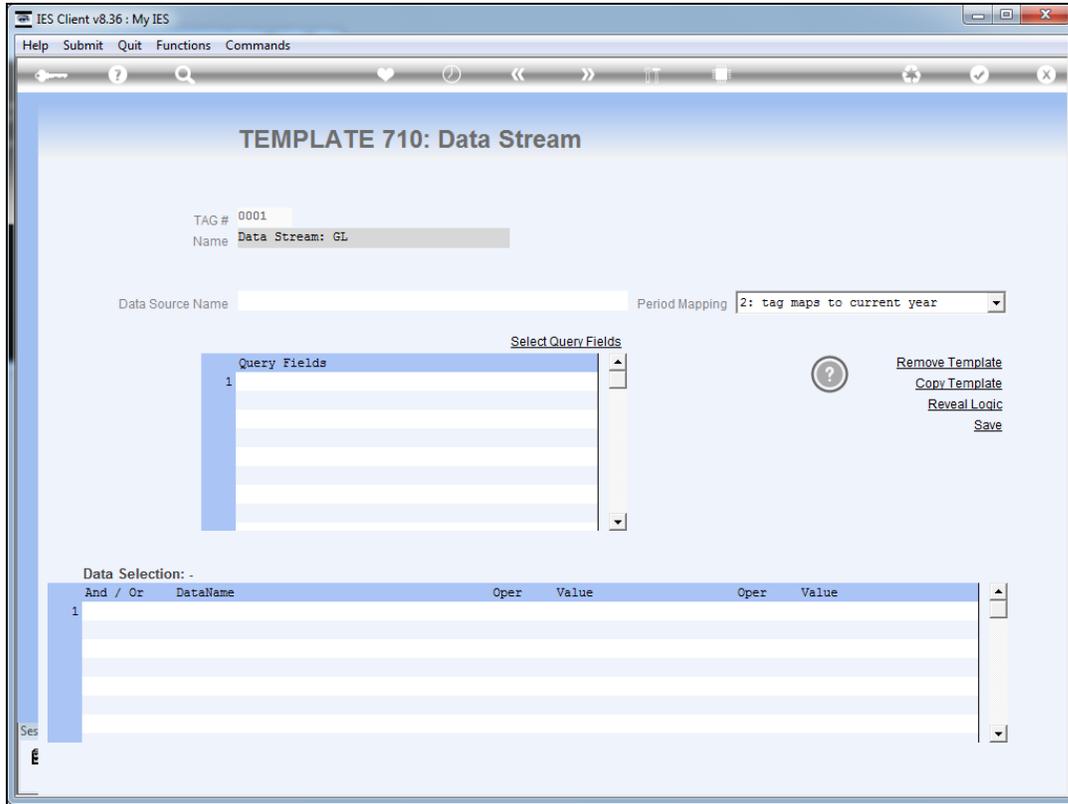


Slide 5
Slide notes:

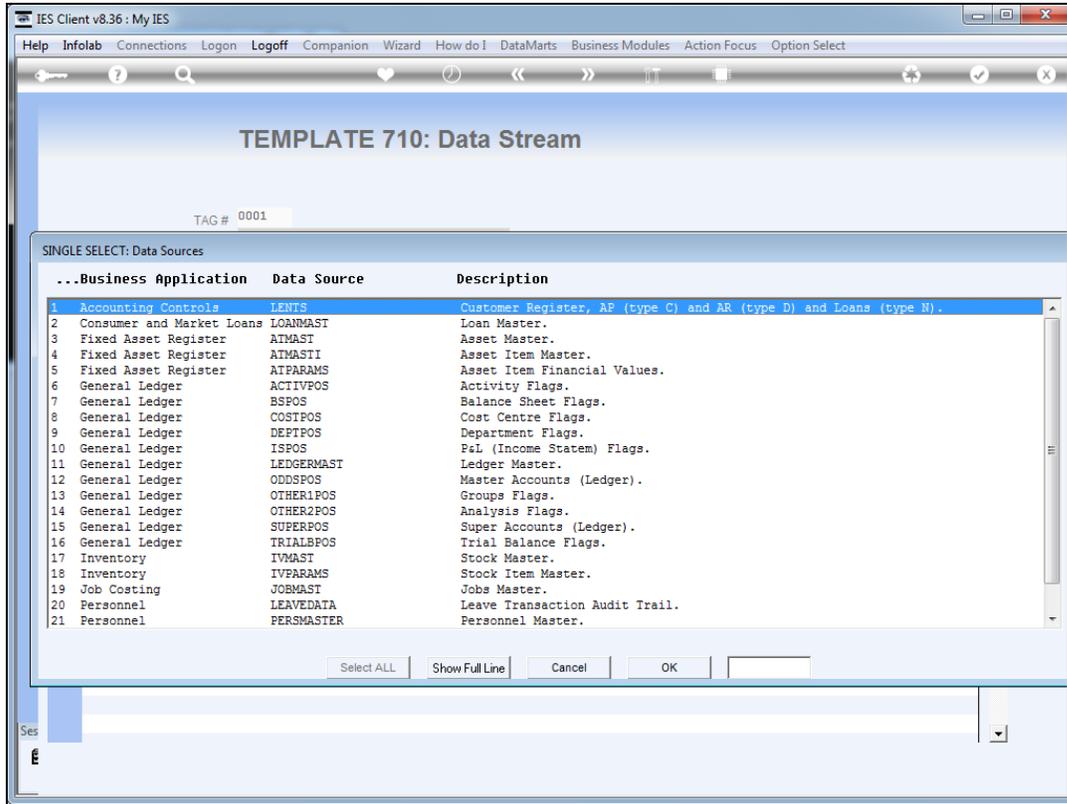


Slide 6

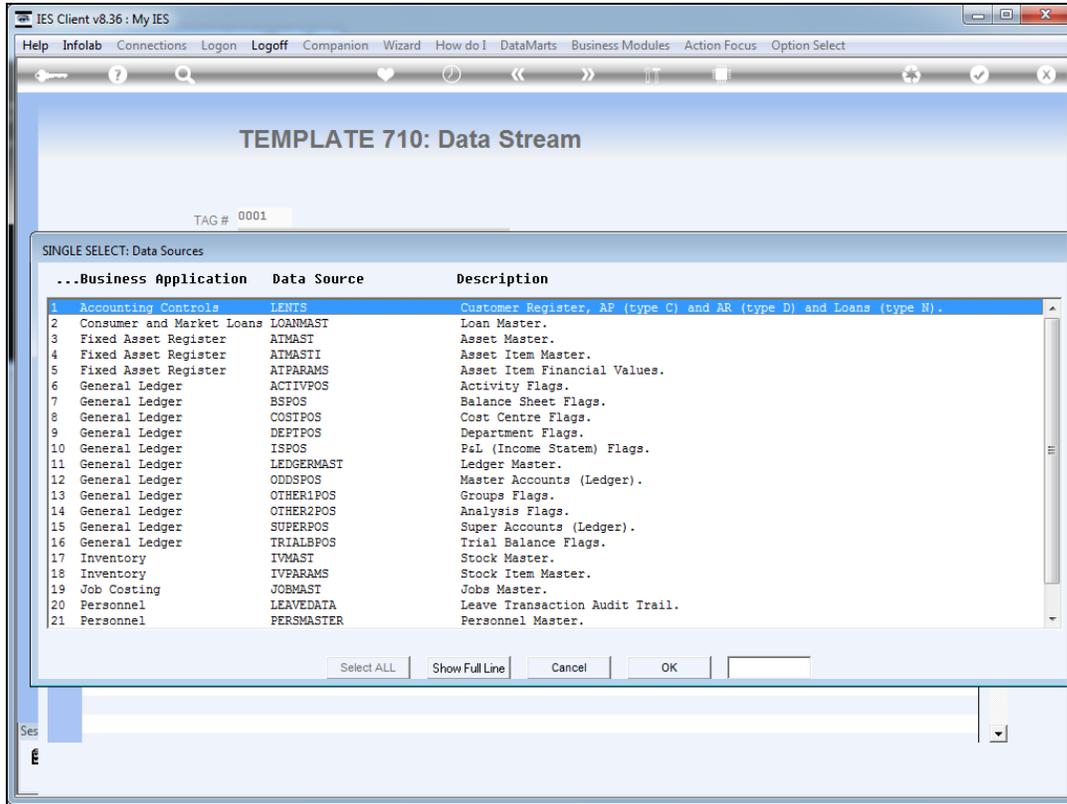
Slide notes: A Data Stream must be based on a defined data source, and this is subject to normal Query Builder rules. In other words, the User who performs the document and therefore the Data Stream, must have access to query the file. In the case of iesMobile, this requires a Username for iesMobile that is the same as a standard IES Username, and for which User there is an access profile that allows access to query the file used as the data source, OR, that there be a swap out User registered for the iesMobile User, for Data Stream access.



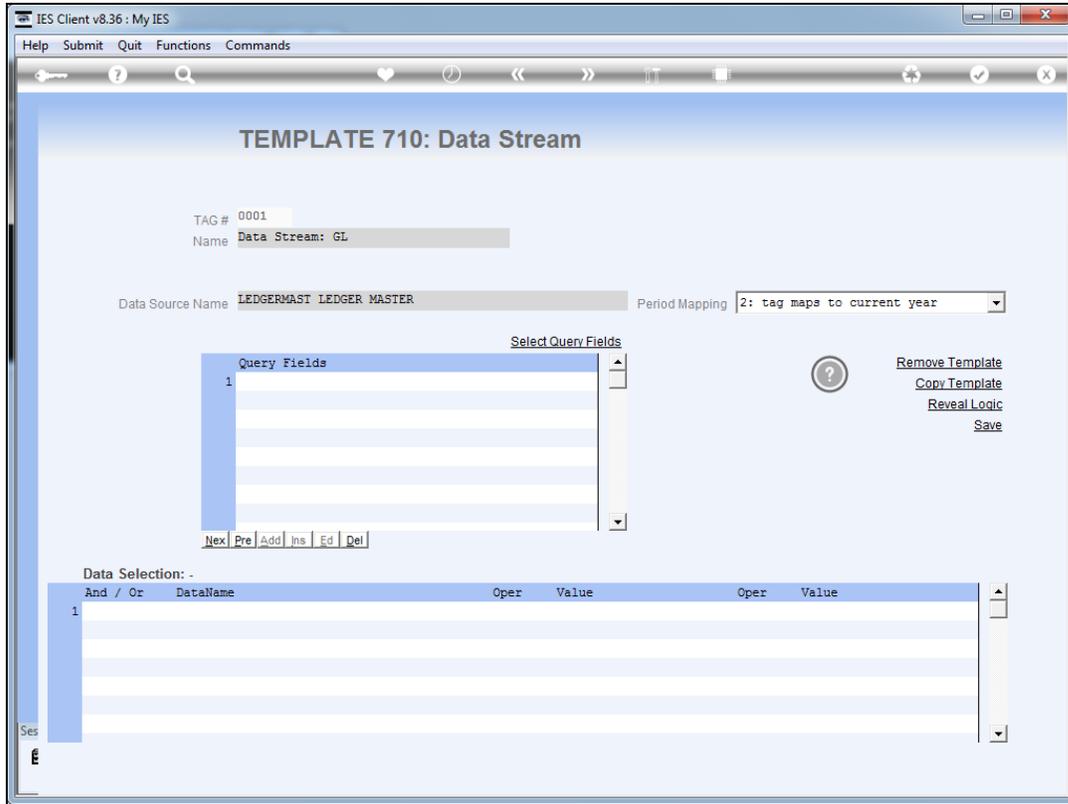
Slide 7
Slide notes:



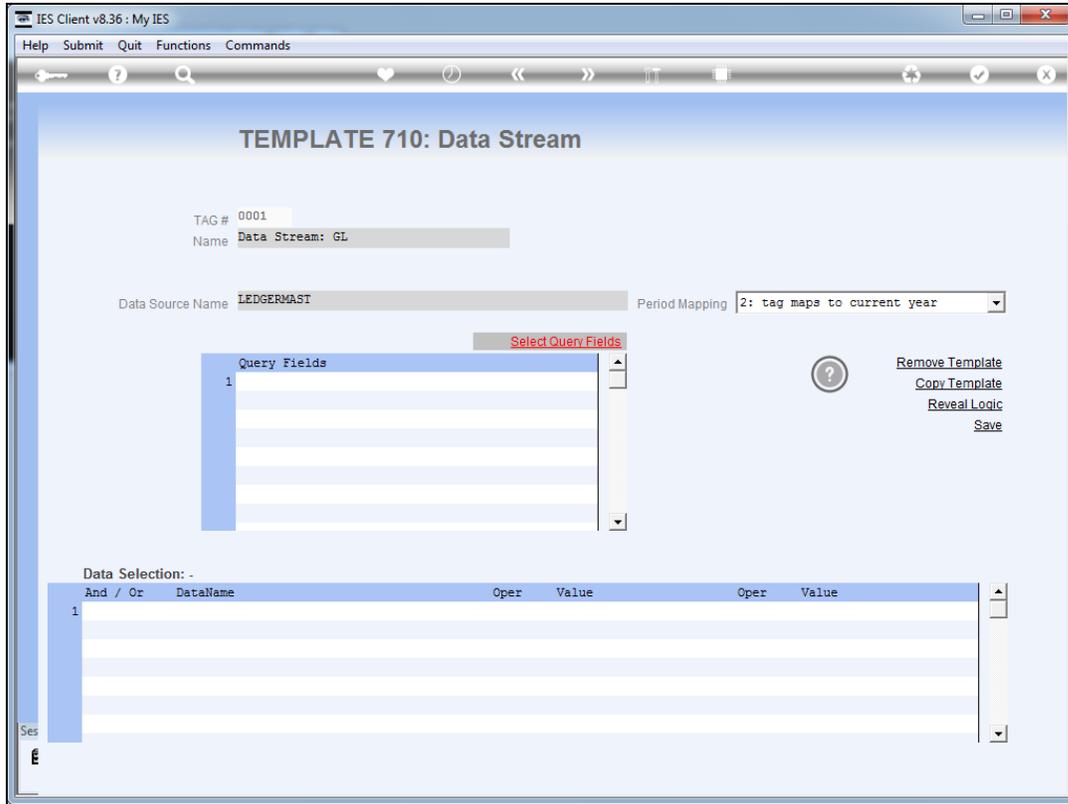
Slide 8
Slide notes:



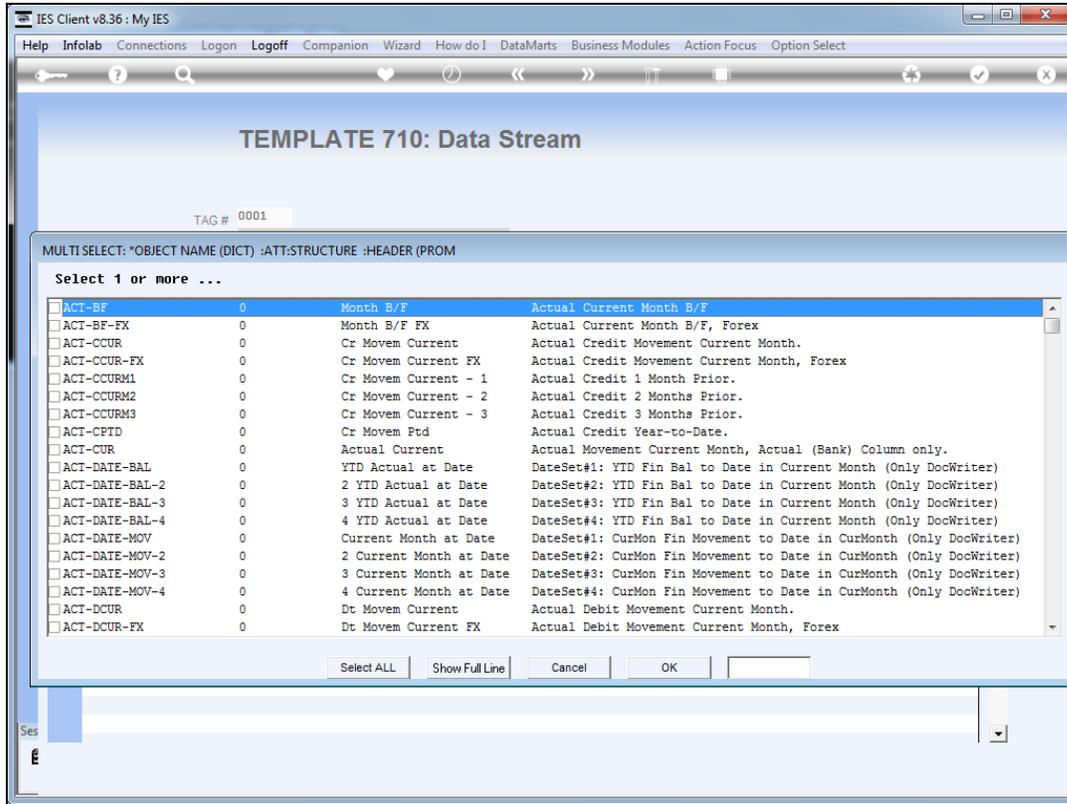
Slide 9
Slide notes:



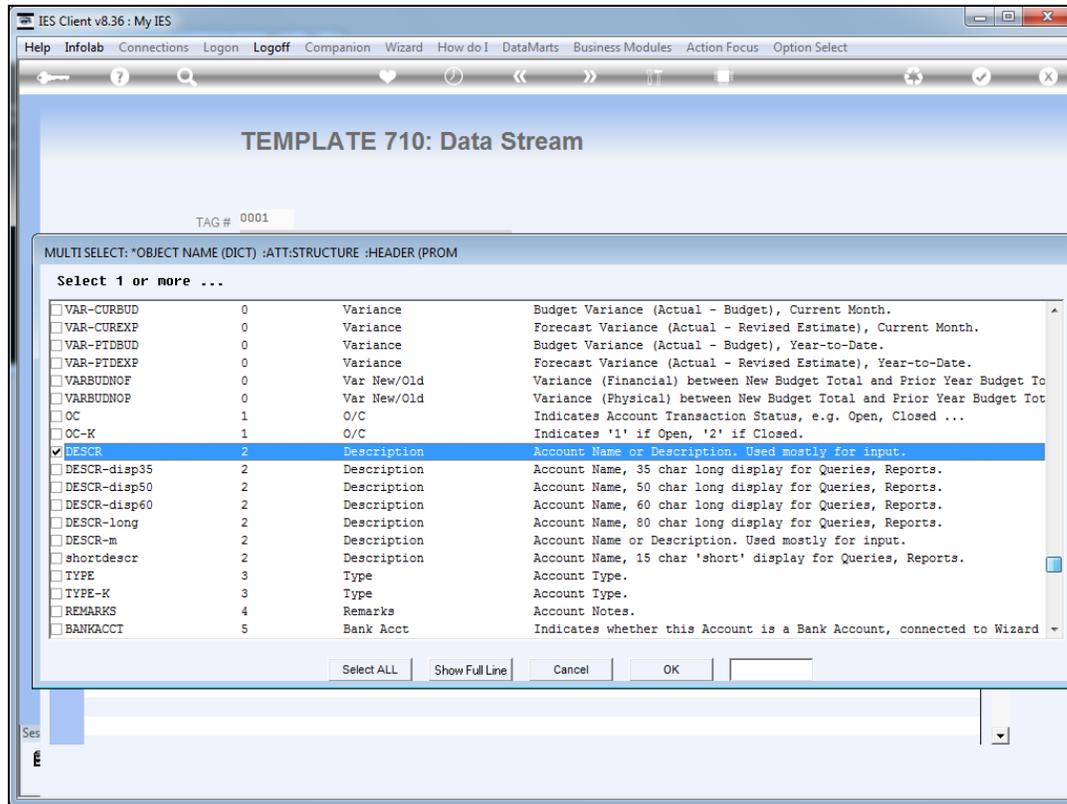
Slide 10
Slide notes:



Slide 11
Slide notes:



Slide 12
Slide notes:



Slide 13
Slide notes:

IES Client v8.36 : My IES

Help Submit Quit Functions Commands

TEMPLATE 710: Data Stream

TAG # 0001
Name Data Stream: GL

Data Source Name LEDGERMAST LEDGER MASTER Period Mapping 2: tag maps to current year

Select Query Fields

Query Fields
1 LEDGERCODE Account Key
2 DESCR Description

Remove Template
Copy Template
Reveal Logic
Save

Data Selection: -

And / Or	DataName	Oper	Value	Oper	Value
1					

Ses
E

Slide 14

Slide notes: The selected Query Fields, in like manner to the data source, are subject to Query Builder rules, i.e. the User must have access to query the fields or not be barred from seeing any of the included fields.

IES Client v8.36 : My IES

Help Submit Quit Functions Commands

TEMPLATE 710: Data Stream

TAG # 0001
Name Data Stream: GL

Data Source Name LEDGERMAST LEDGER MASTER Period Mapping 2: Tag maps to Current Year

Select Query Fields

Query Fields
1 LEDGERCODE Account Key
2 DESCR Description

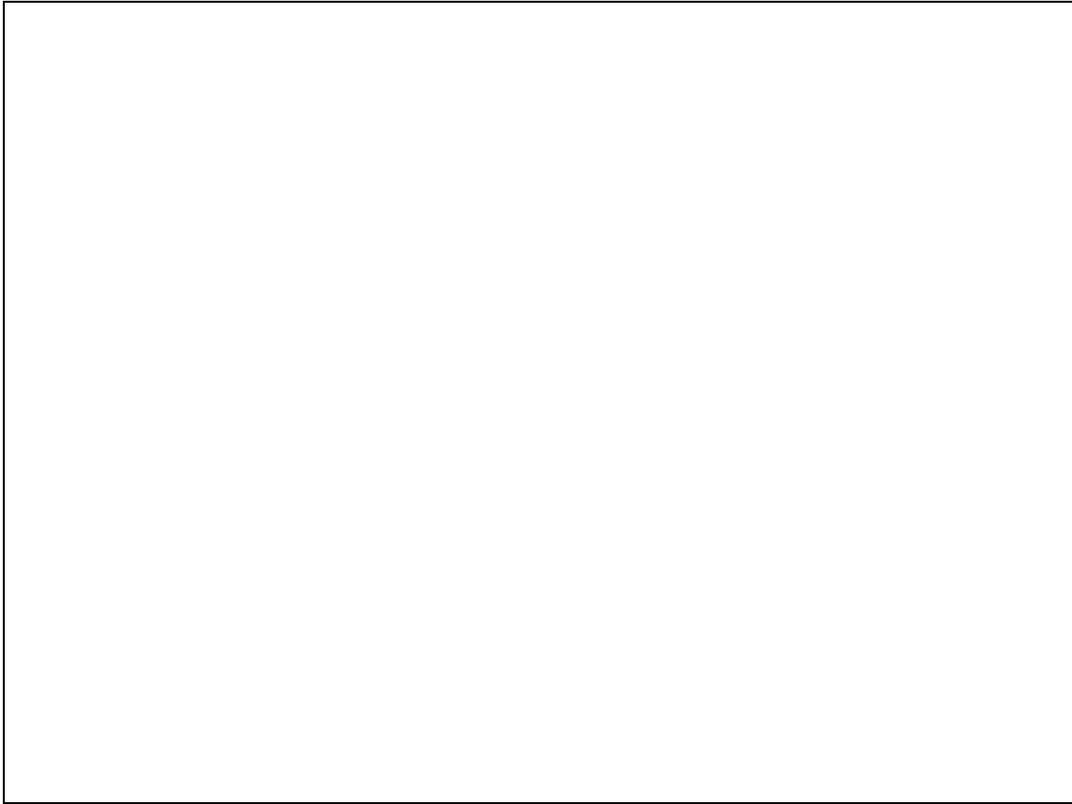
Data Selection: -

And / Or	DataName	Oper	Value	Oper	Value
1					

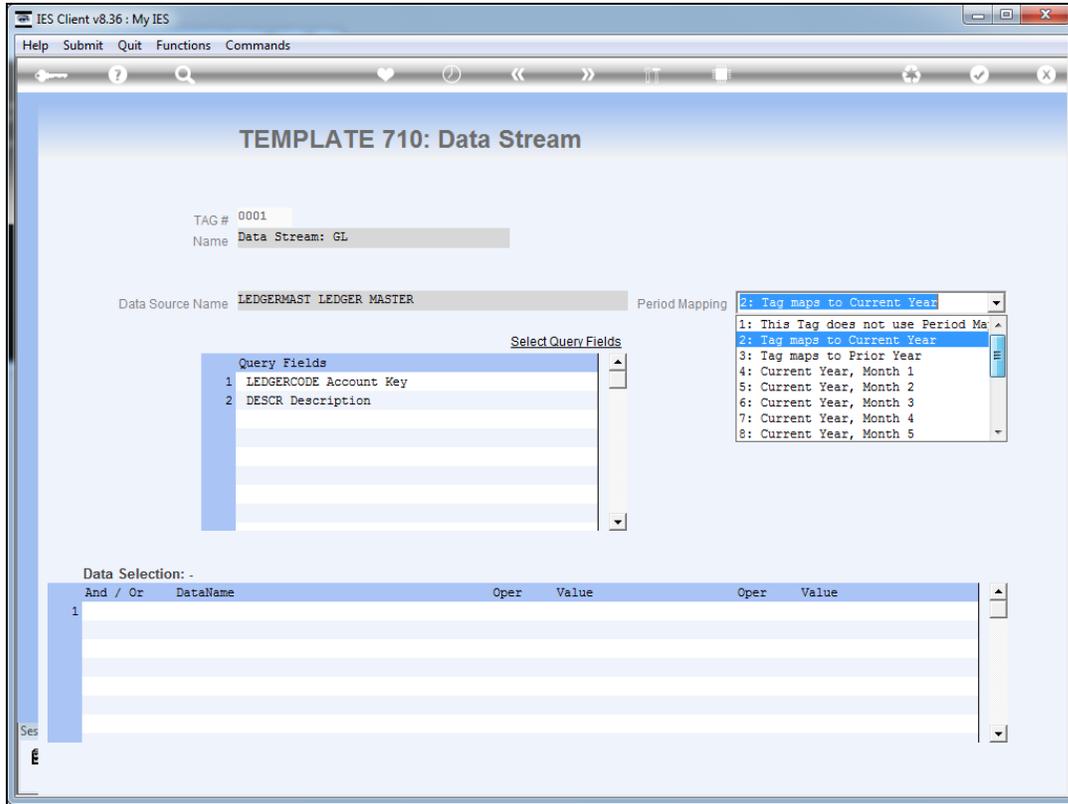
Ses

Slide 15

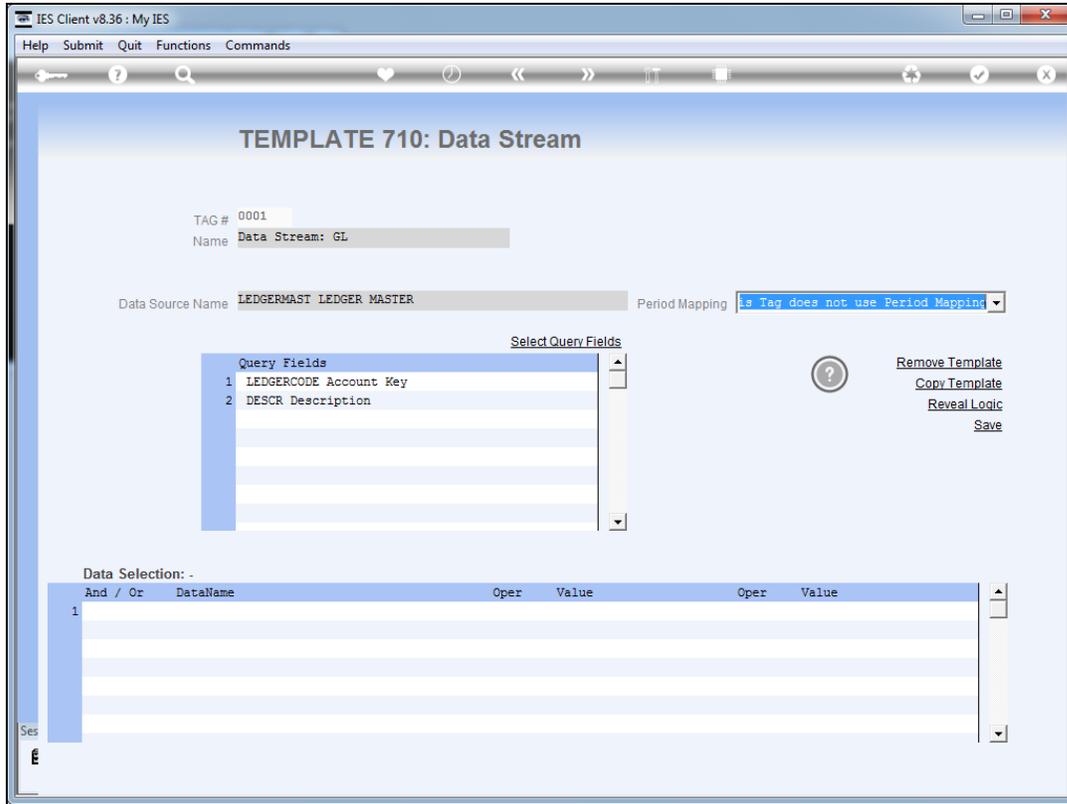
Slide notes: Period Mapping may be used if the Data Stream includes Query Fields where the result is impacted by Period selection.



Slide 16
Slide notes:



Slide 17
Slide notes:



Slide 18
Slide notes:

IES Client v8.36 : My IES

Help Lookup Back 1 Field Restart Line Edit Mini Menu Submit Field Quit

TEMPLATE 710: Data Stream

TAG # 0001
Name Data Stream: GL

Data Source Name LEDGERMAST LEDGER MASTER Period Mapping 1: This Tag does not use Period Ma

Select Query Fields

Query Fields
1 LEDGERCODE Account Key
2 DESCR Description

Remove Template
Copy Template
Reveal Logic
Save

Data Selection: -

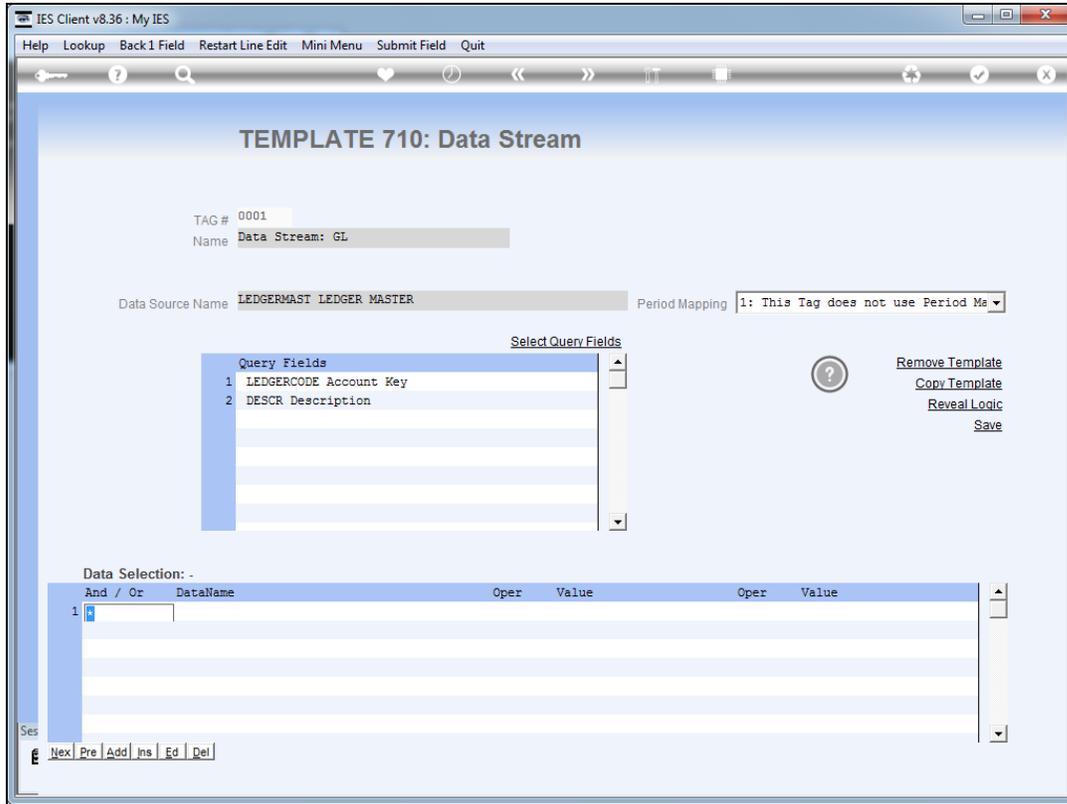
And / Or	DataName	Oper	Value	Oper	Value
1					

Ses

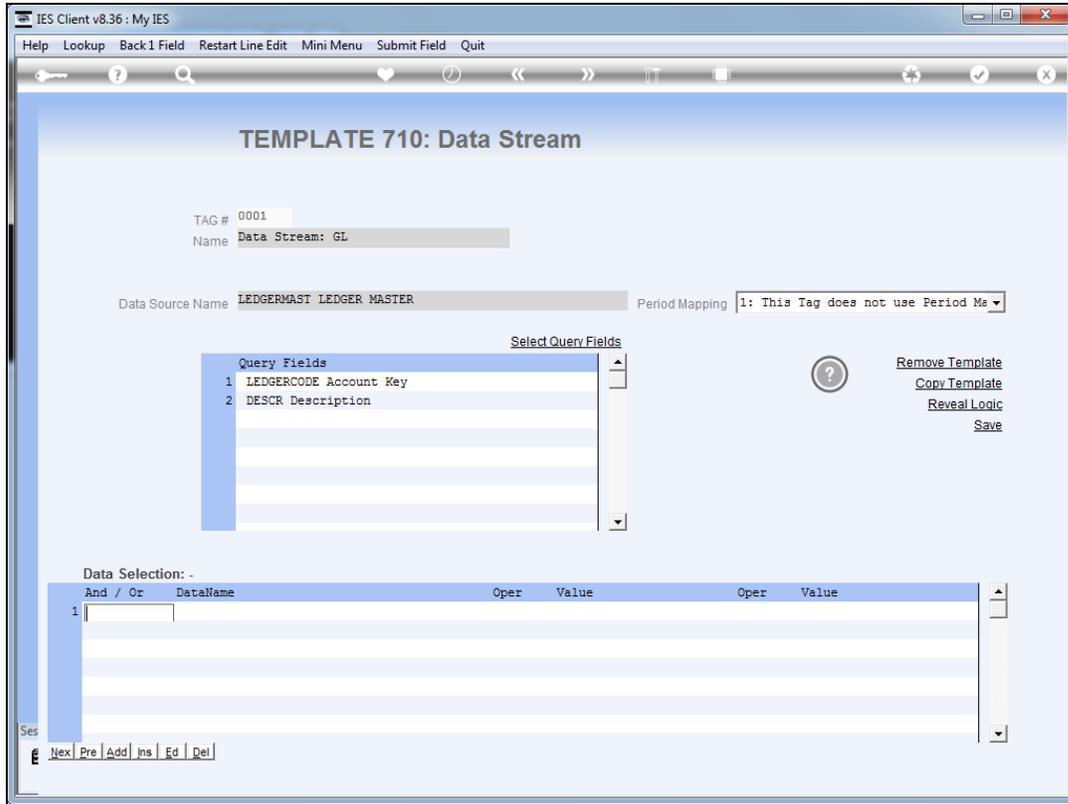
Next Pre Add Ins Ed Del

Slide 19

Slide notes: The Data Selection rules have to be listed, and in this example we will simply select all the records.



Slide 20
Slide notes:

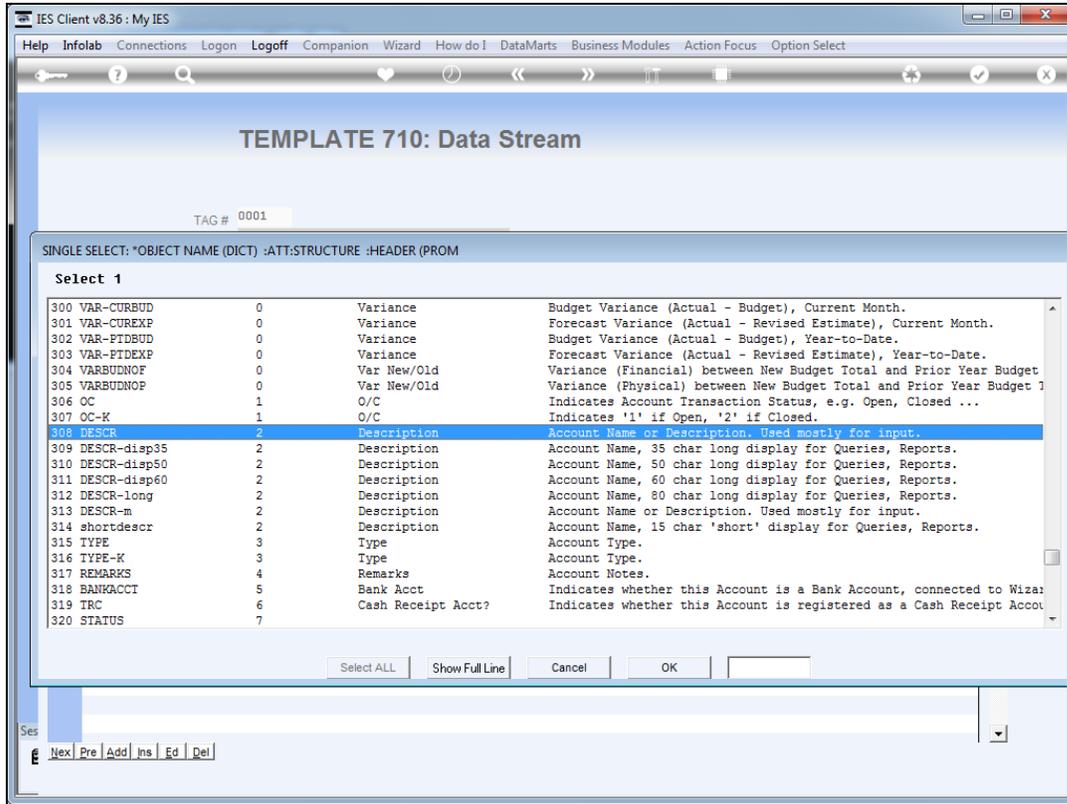


Slide 21
Slide notes:

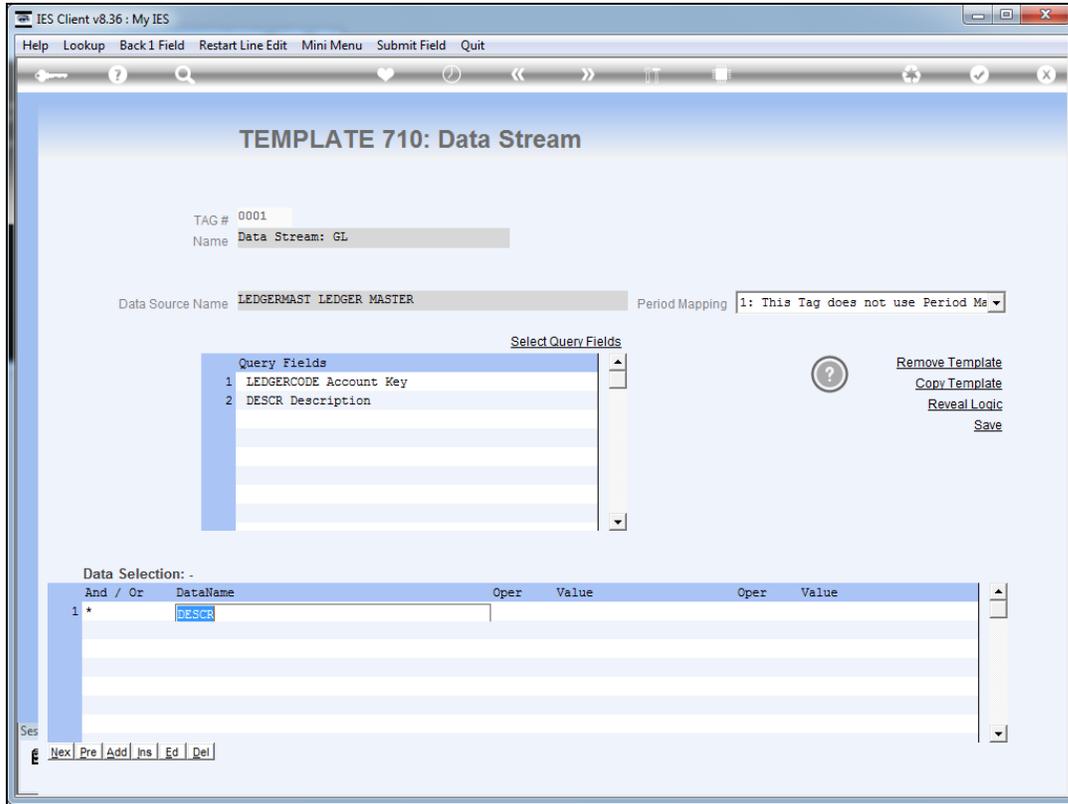
The screenshot shows the IES Client v8.36 interface. The main window is titled 'TEMPLATE 710: Data Stream' and contains a table of financial data. The table has four columns: 'Object Name (DICT)', 'ATT:STRUCTURE', 'HEADER (PROM)', and 'Description'. The data is organized into a 'Select 1' group. The table includes various financial codes and their corresponding descriptions, such as 'ACT-BF', 'ACT-CCUR', and 'ACT-DCUR'. The interface also features a menu bar at the top with options like 'Help', 'Infob', 'Connections', 'Logon', 'Logoff', 'Companion', 'Wizard', 'How do I', 'DataMarts', 'Business Modules', 'Action Focus', and 'Option Select'. At the bottom, there are navigation buttons: 'Nex', 'Pre', 'Add', 'Ins', 'Ed', and 'Del'.

Object Name (DICT)	ATT:STRUCTURE	HEADER (PROM)	Description
1 ACT-BF	0	Month B/F	Actual Current Month B/F
2 ACT-BF-FX	0	Month B/F FX	Actual Current Month B/F, Forex
3 ACT-CCUR	0	Cr Movem Current	Actual Credit Movement Current Month.
4 ACT-CCUR-FX	0	Cr Movem Current FX	Actual Credit Movement Current Month, Forex
5 ACT-CCURM1	0	Cr Movem Current - 1	Actual Credit 1 Month Prior.
6 ACT-CCURM2	0	Cr Movem Current - 2	Actual Credit 2 Months Prior.
7 ACT-CCURM3	0	Cr Movem Current - 3	Actual Credit 3 Months Prior.
8 ACT-CPTD	0	Cr Movem Ptd	Actual Credit Year-to-Date.
9 ACT-CUR	0	Actual Current	Actual Movement Current Month, Actual (Bank) Column only.
10 ACT-DATE-BAL	0	YTD Actual at Date	DateSet#1: YTD Fin Bal to Date in Current Month (Only DocWriter)
11 ACT-DATE-BAL-2	0	2 YTD Actual at Date	DateSet#2: YTD Fin Bal to Date in Current Month (Only DocWriter)
12 ACT-DATE-BAL-3	0	3 YTD Actual at Date	DateSet#3: YTD Fin Bal to Date in Current Month (Only DocWriter)
13 ACT-DATE-BAL-4	0	4 YTD Actual at Date	DateSet#4: YTD Fin Bal to Date in Current Month (Only DocWriter)
14 ACT-DATE-MOV	0	Current Month at Date	DateSet#1: CurMon Fin Movement to Date in CurMonth (Only DocWriter)
15 ACT-DATE-MOV-2	0	2 Current Month at Date	DateSet#2: CurMon Fin Movement to Date in CurMonth (Only DocWriter)
16 ACT-DATE-MOV-3	0	3 Current Month at Date	DateSet#3: CurMon Fin Movement to Date in CurMonth (Only DocWriter)
17 ACT-DATE-MOV-4	0	4 Current Month at Date	DateSet#4: CurMon Fin Movement to Date in CurMonth (Only DocWriter)
18 ACT-DCUR	0	Dt Movem Current	Actual Debit Movement Current Month.
19 ACT-DCUR-FX	0	Dt Movem Current FX	Actual Debit Movement Current Month, Forex
20 ACT-DCURM1	0	Dt Movem Current - 1	Actual Debit 1 Month Prior.
21 ACT-DCURM2	0	Dt Movem Current - 2	Actual Debit 2 Months Prior.

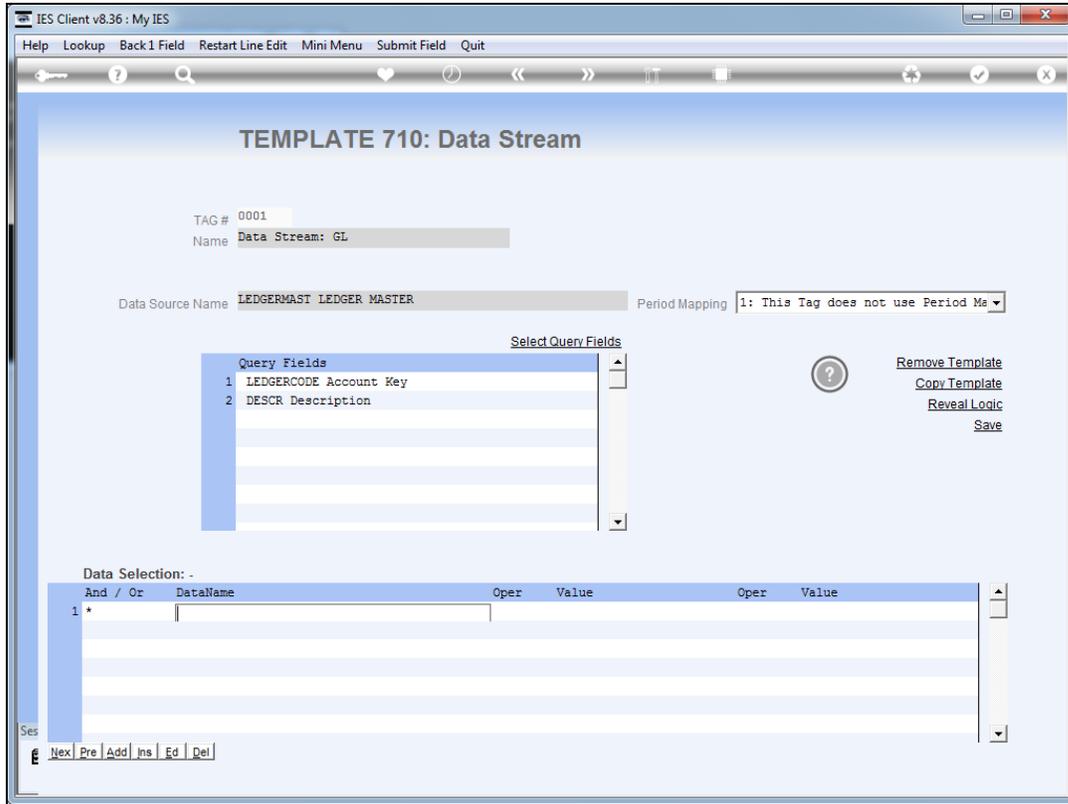
Slide 22
Slide notes:



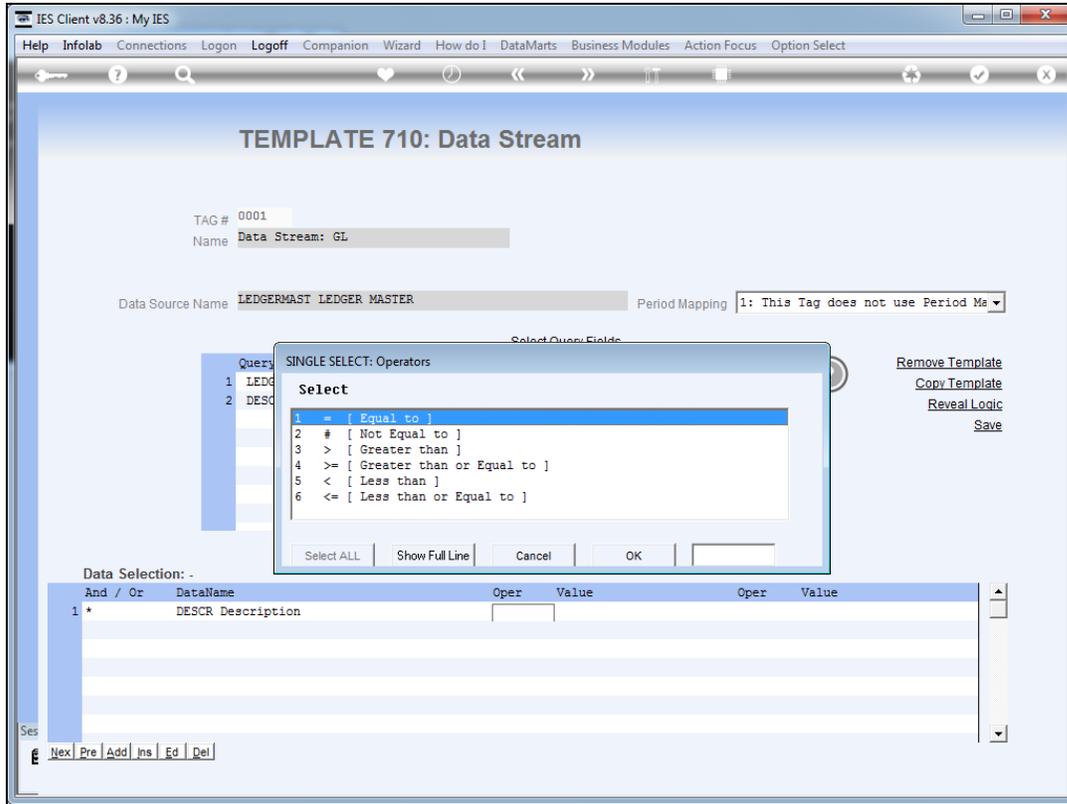
Slide 23
Slide notes:



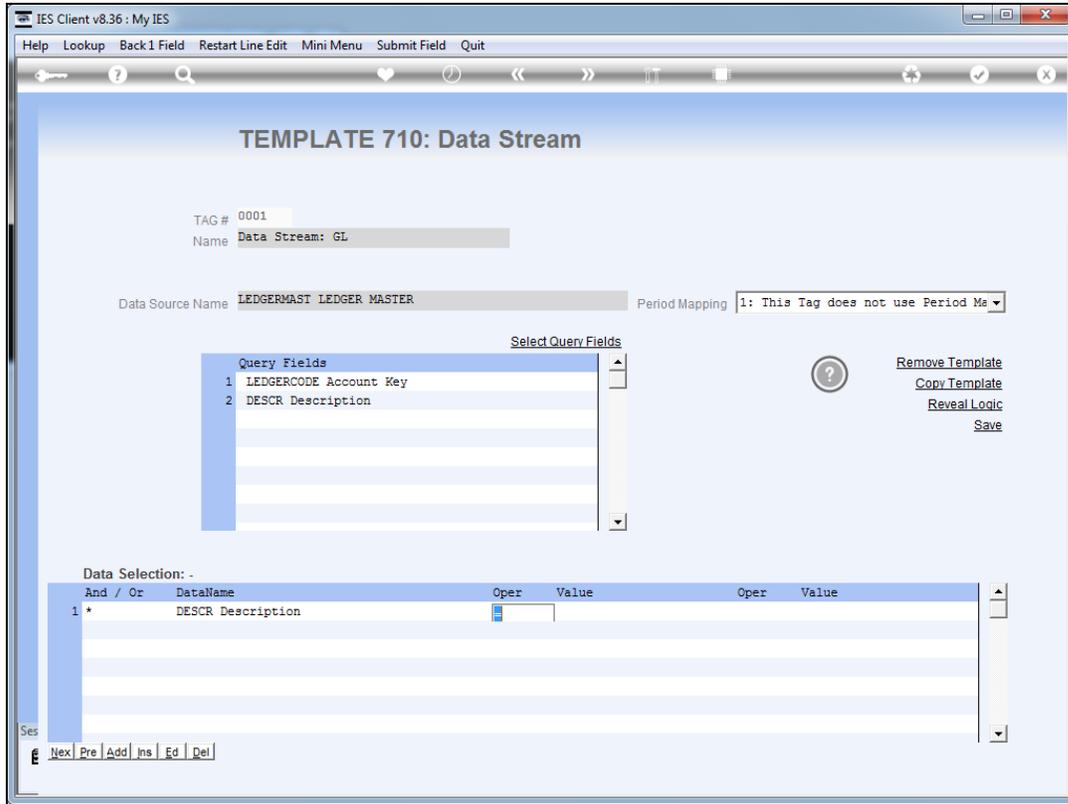
Slide 24
Slide notes:



Slide 25
Slide notes:



Slide 26
Slide notes:



Slide 27
Slide notes:

IES Client v8.36 : My IES

Help Lookup Back 1 Field Restart Line Edit Mini Menu Submit Field Quit

TEMPLATE 710: Data Stream

TAG # 0001
Name Data Stream: GL

Data Source Name LEDGERMAST LEDGER MASTER Period Mapping 1: This Tag does not use Period Ma

Select Query Fields

Query Fields
1 LEDGERCODE Account Key
2 DESCR Description

Remove Template
Copy Template
Reveal Logic
Save

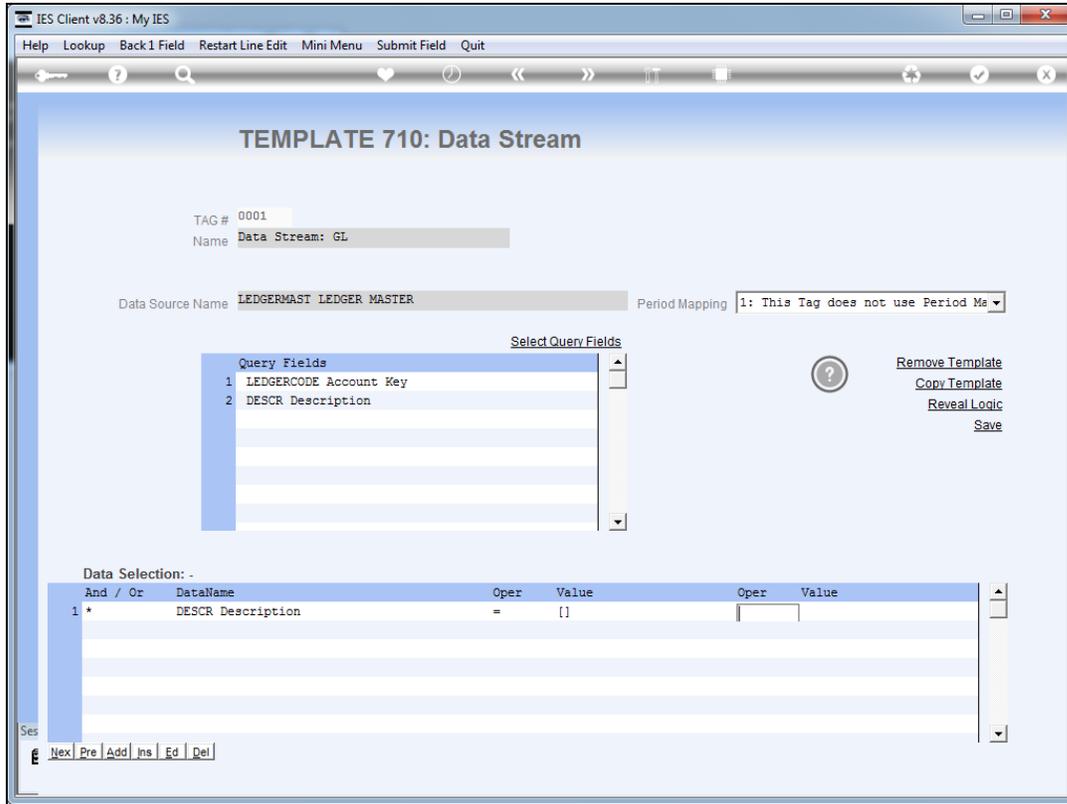
Data Selection: -

And / Or	DataName	Oper	Value	Oper	Value
1					

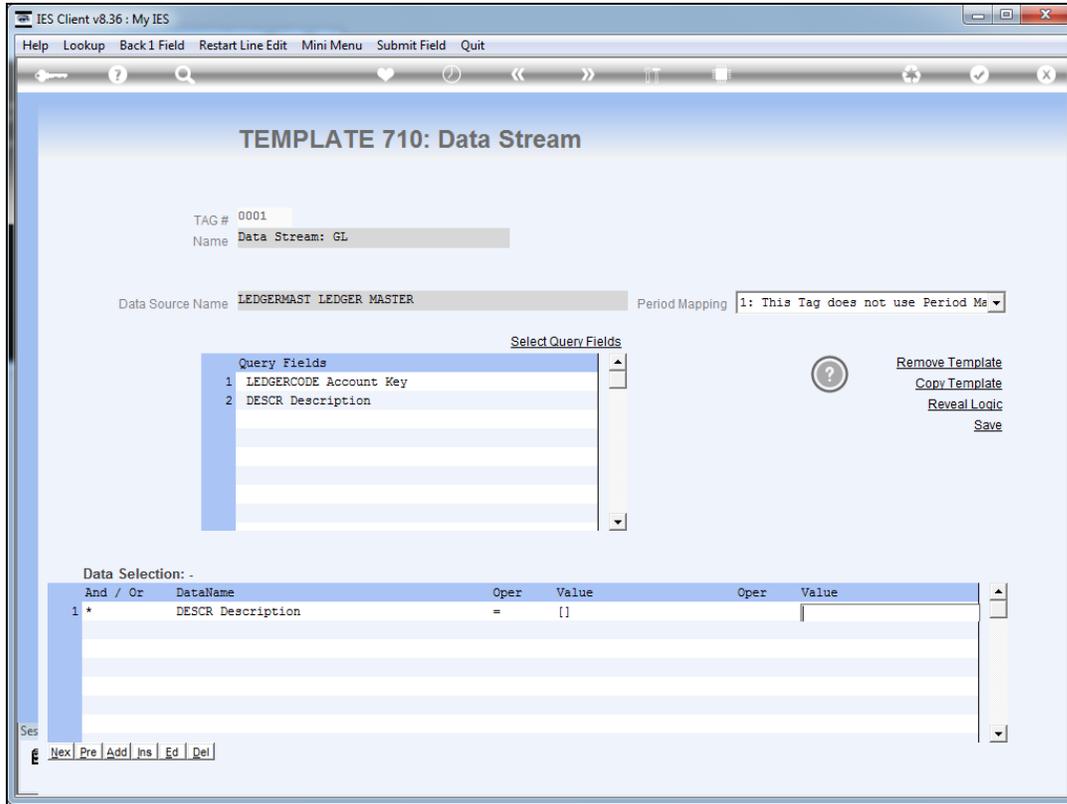
Ses
Next Pre Add Ins Ed Del

Slide 28

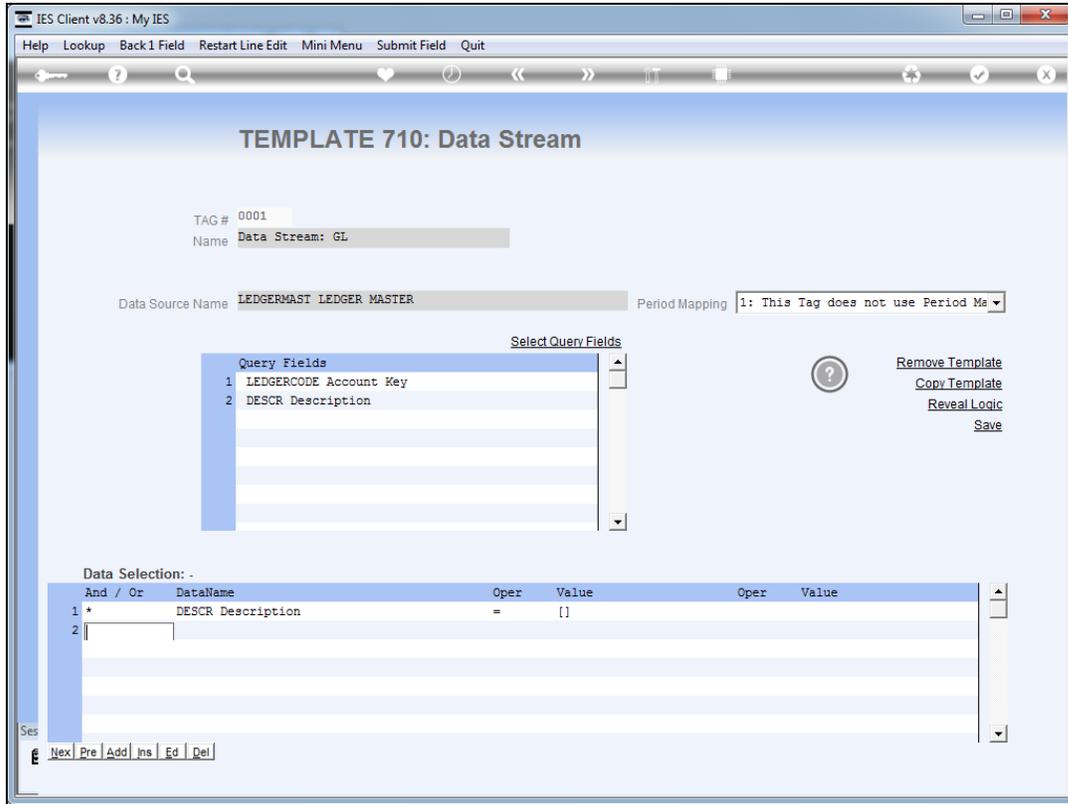
Slide notes: Since we specify wildcards that allow any result, this means all records will qualify for selection.



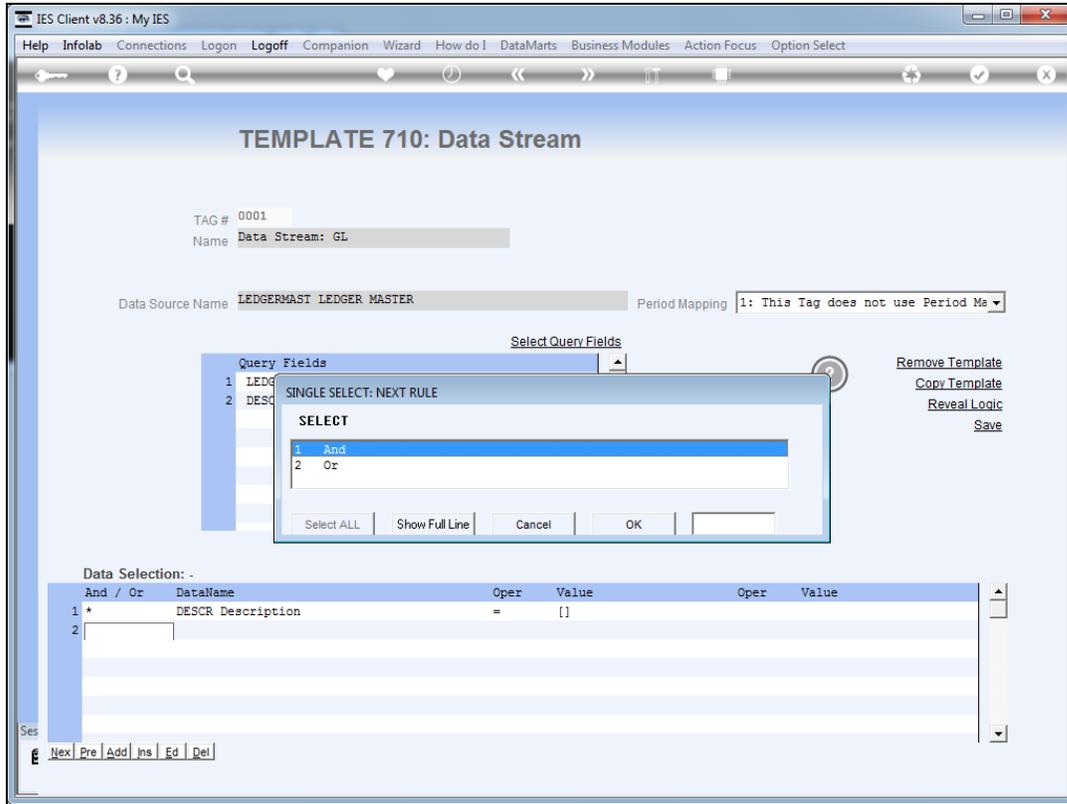
Slide 29
Slide notes:



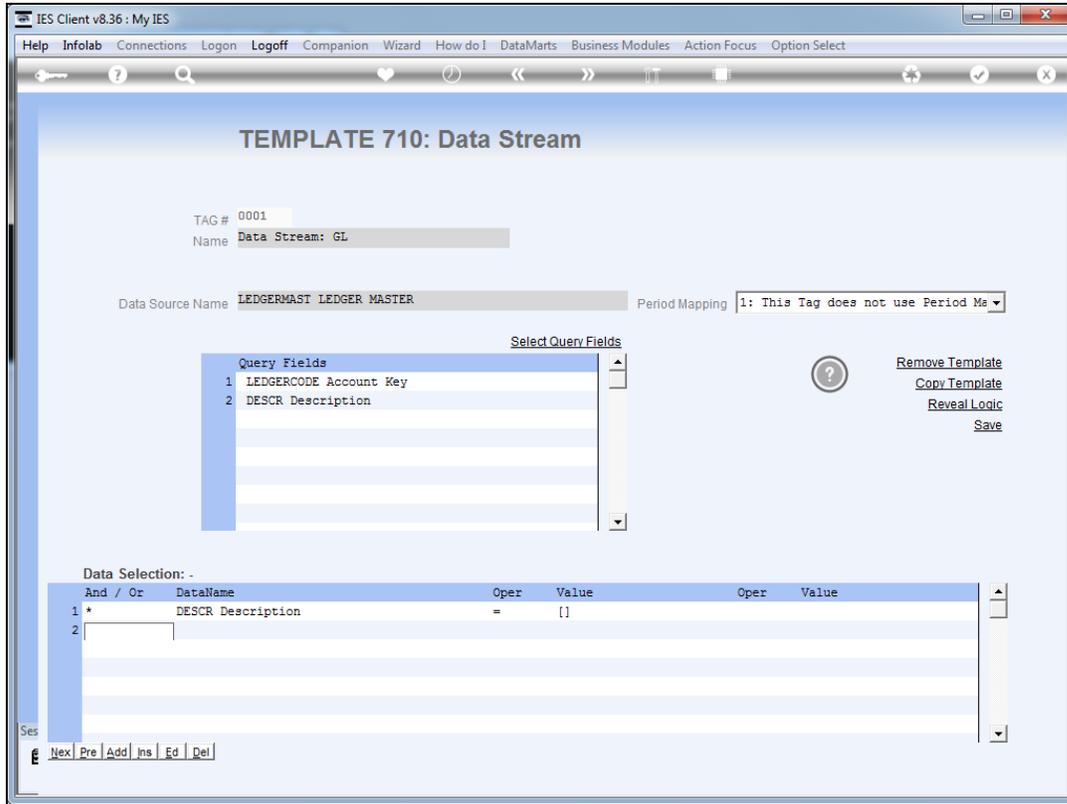
Slide 30
Slide notes:



Slide 31
Slide notes:



Slide 32
Slide notes:



Slide 33
Slide notes:

The screenshot shows the IES Client v8.36 interface. The main window title is "IES Client v8.36 : My IES". The menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The browser address bar shows a search icon, a question mark, and navigation arrows. The main content area is titled "TEMPLATE 710: Data Stream".

Fields and controls include:

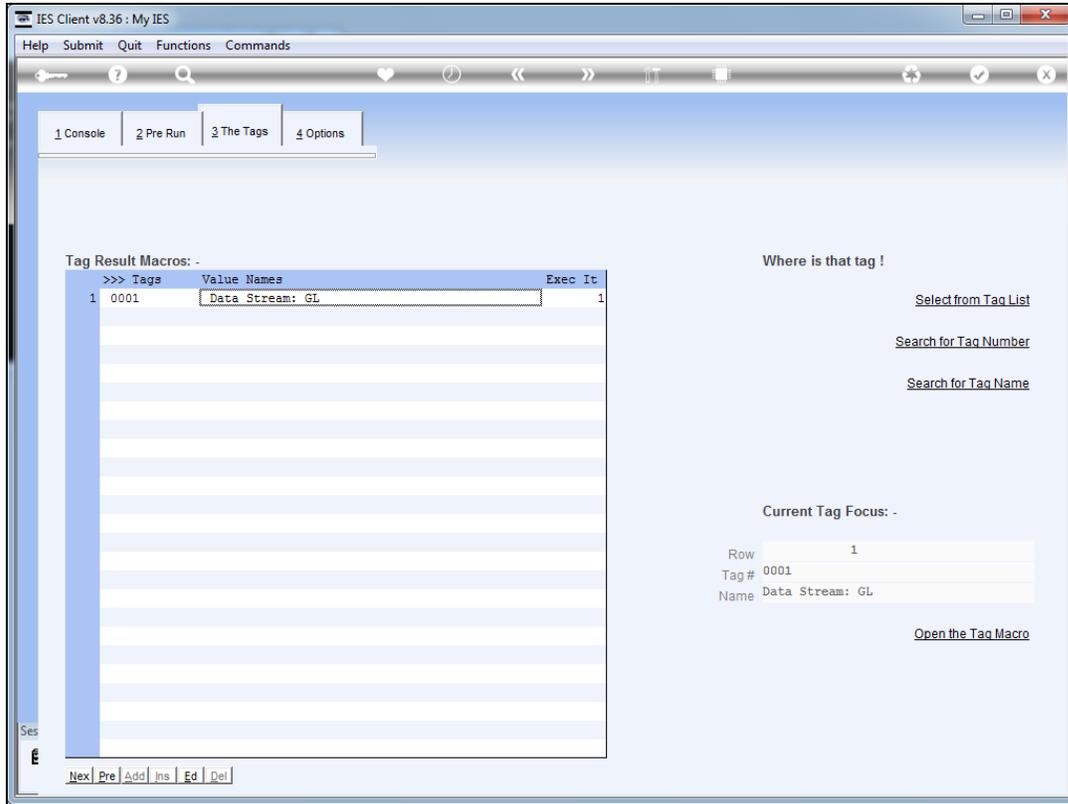
- TAG # 0001
- Name Data Stream: GL
- Data Source Name LEDGERMAST LEDGER MASTER
- Period Mapping 1: This Tag does not use Period Ma
- Select Query Fields button
- Query Fields list:
 - 1 LEDGERCODE Account Key
 - 2 DESCR Description
- Buttons: Remove Template, Copy Template, Reveal Logic, Save
- Data Selection table:

And / Or	DataName	Oper	Value	Oper	Value
1 *	DESCR Description	=	[]		

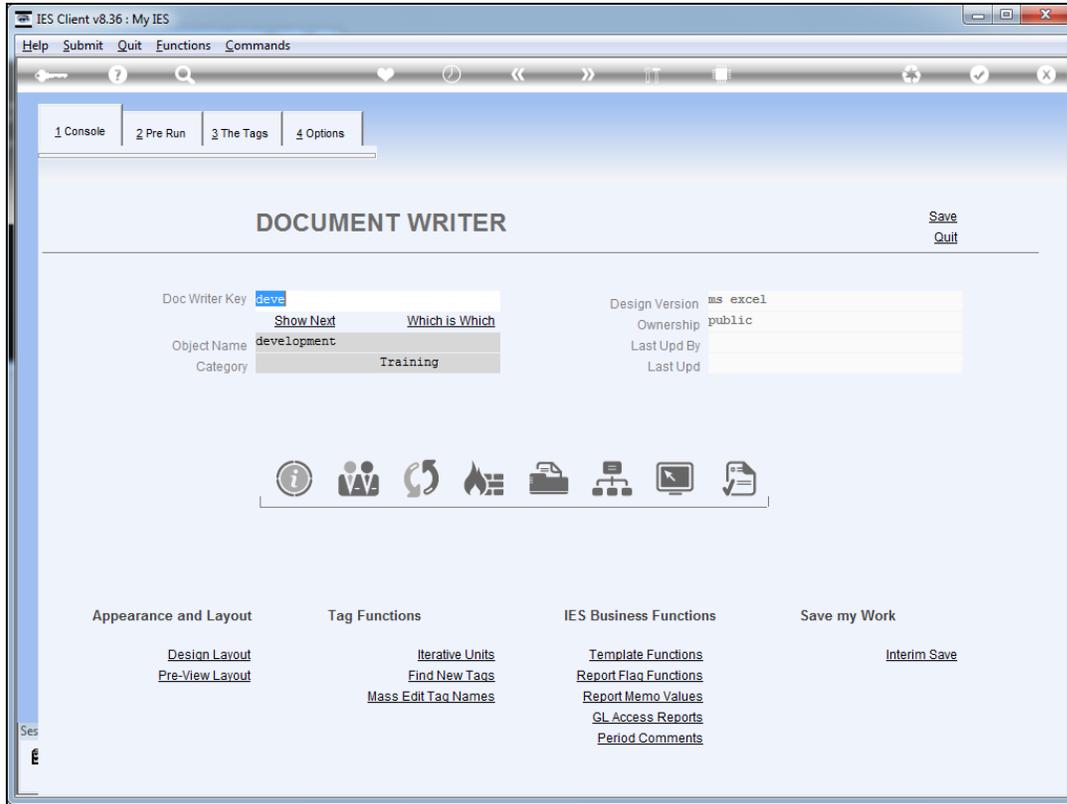
At the bottom left, there is a "Ses" label and a small icon.

Slide 34

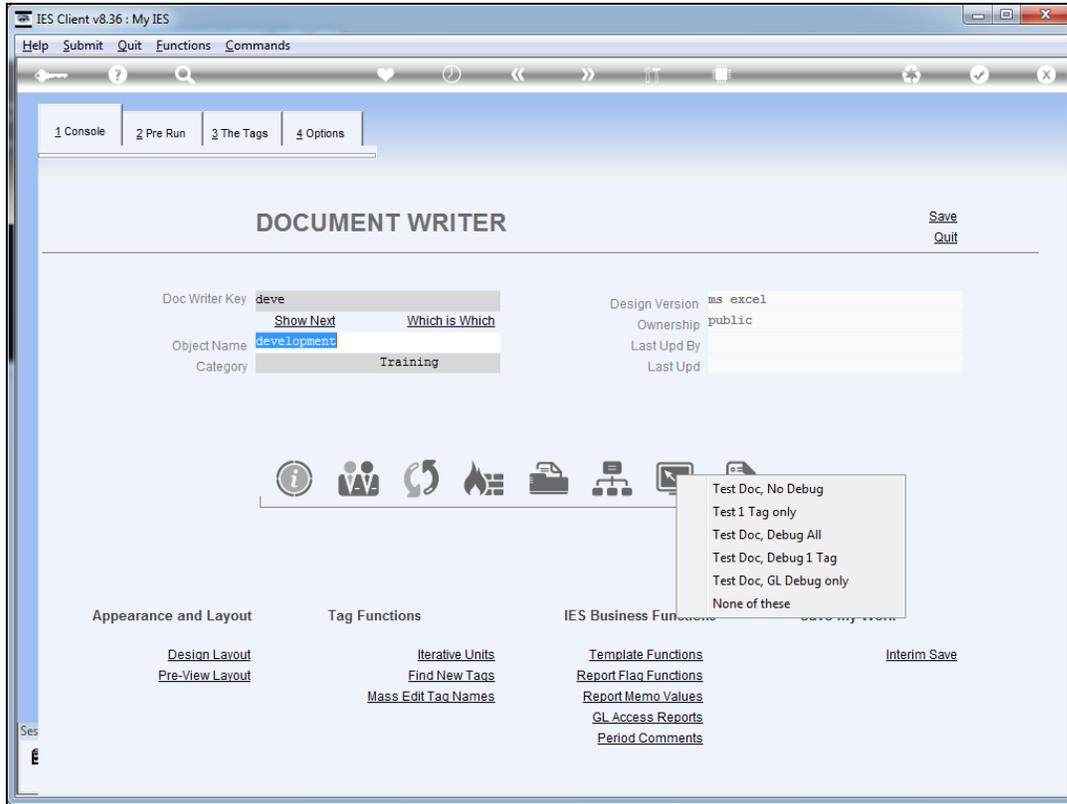
Slide notes: We now have a suitable template defined, and can proceed to test this Data Stream.



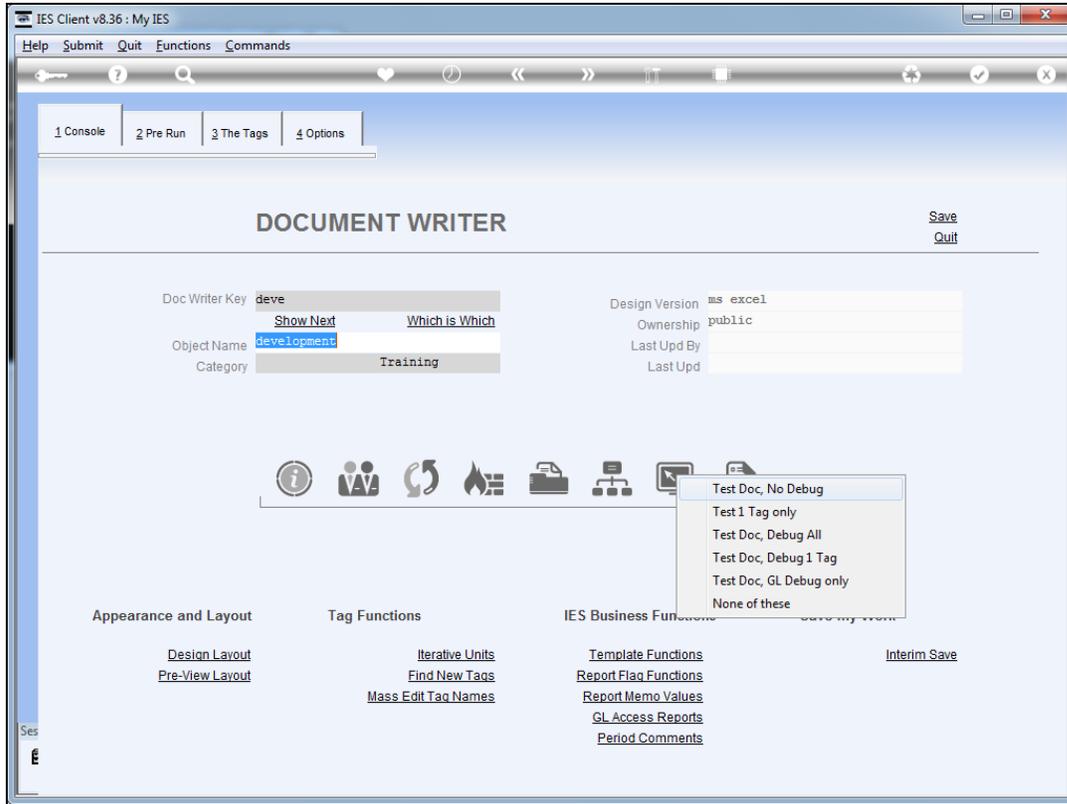
Slide 35
Slide notes:



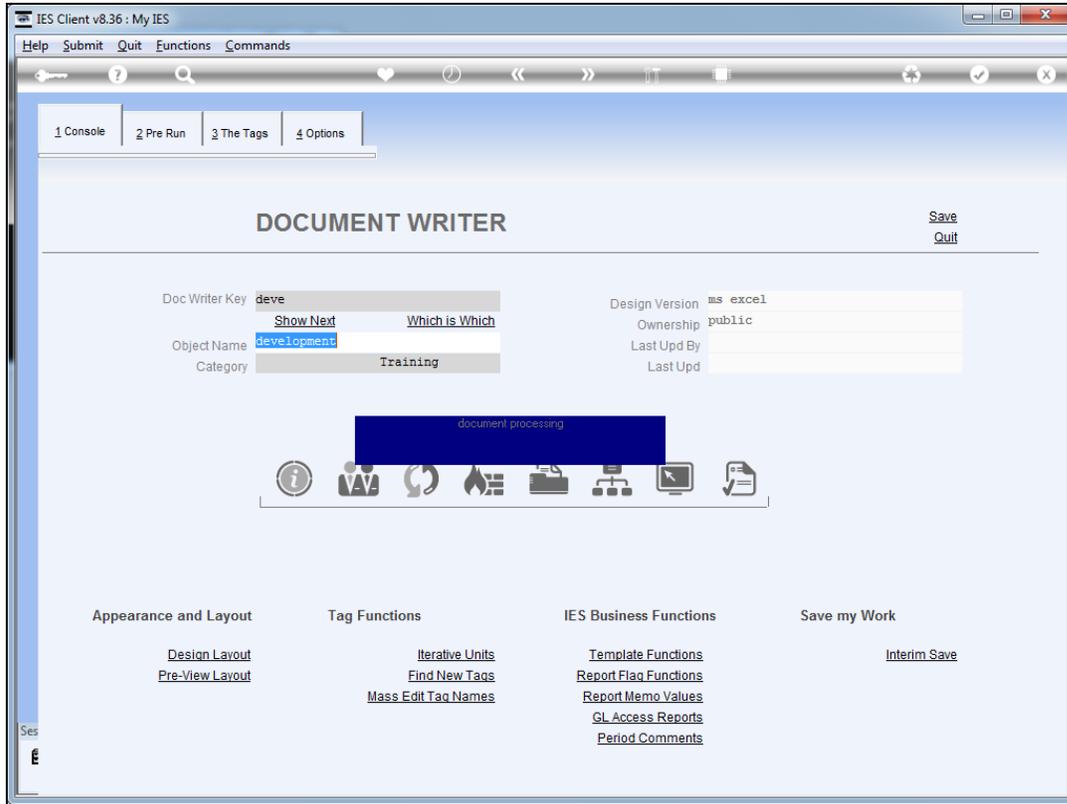
Slide 37
Slide notes:



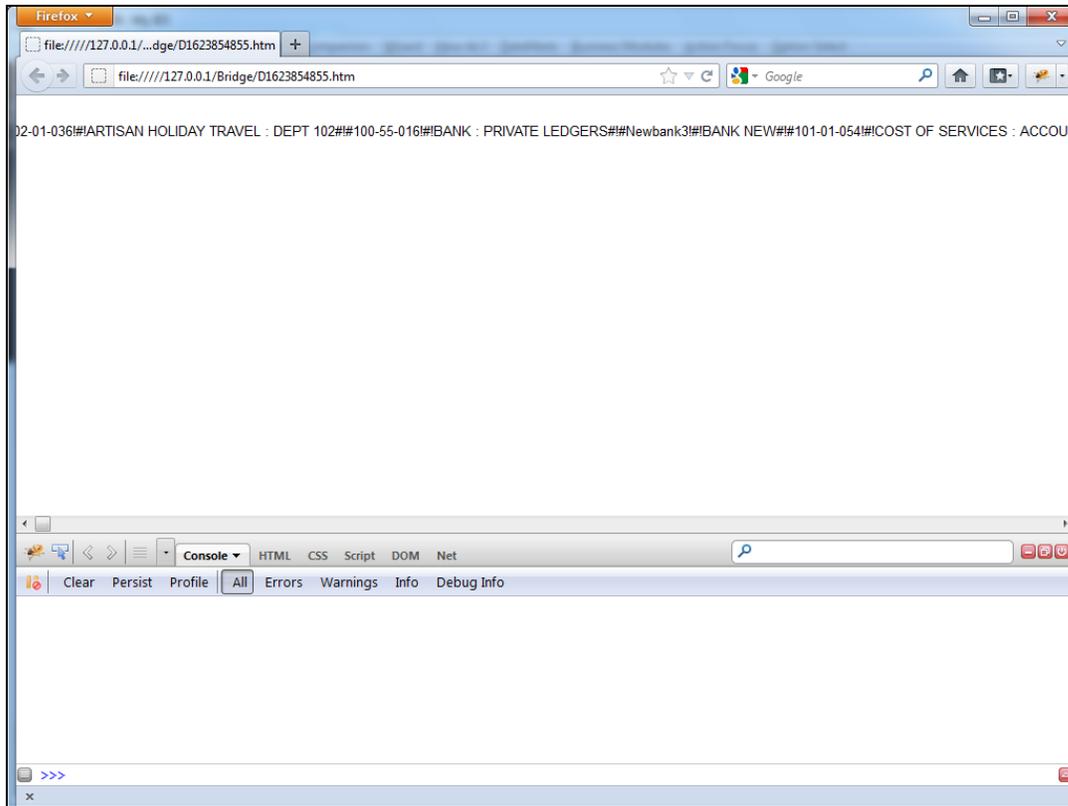
Slide 38
Slide notes:



Slide 39
Slide notes:

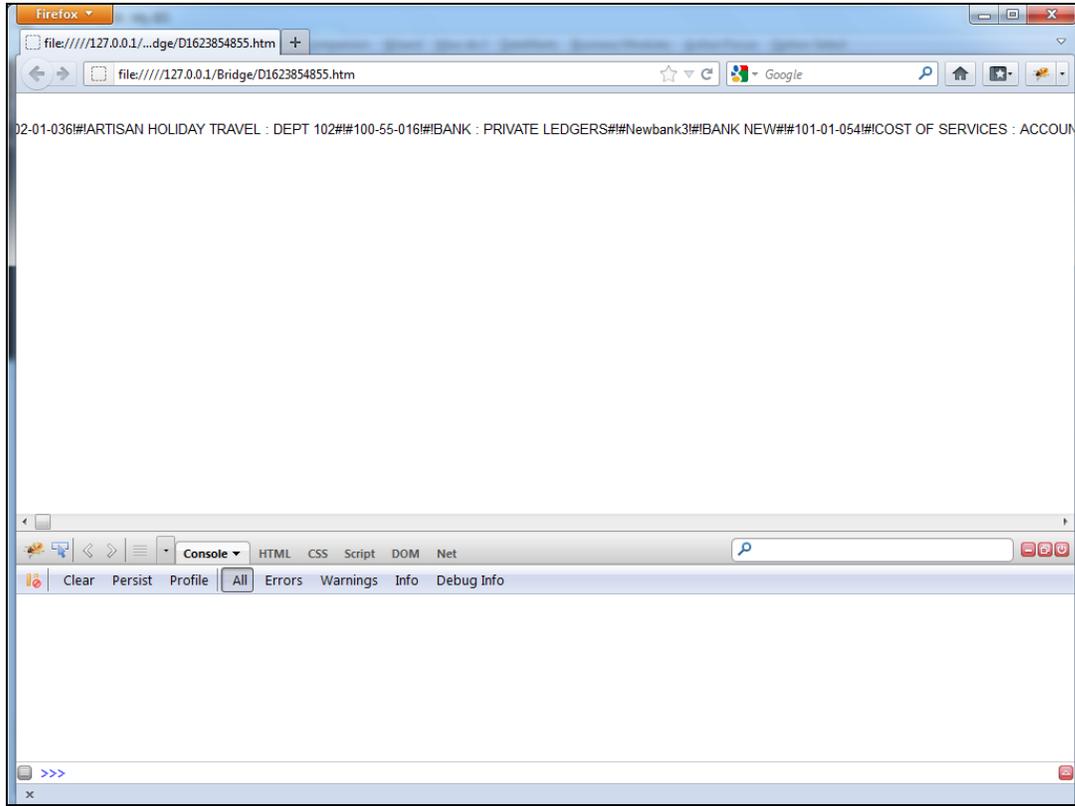


Slide 40
Slide notes:

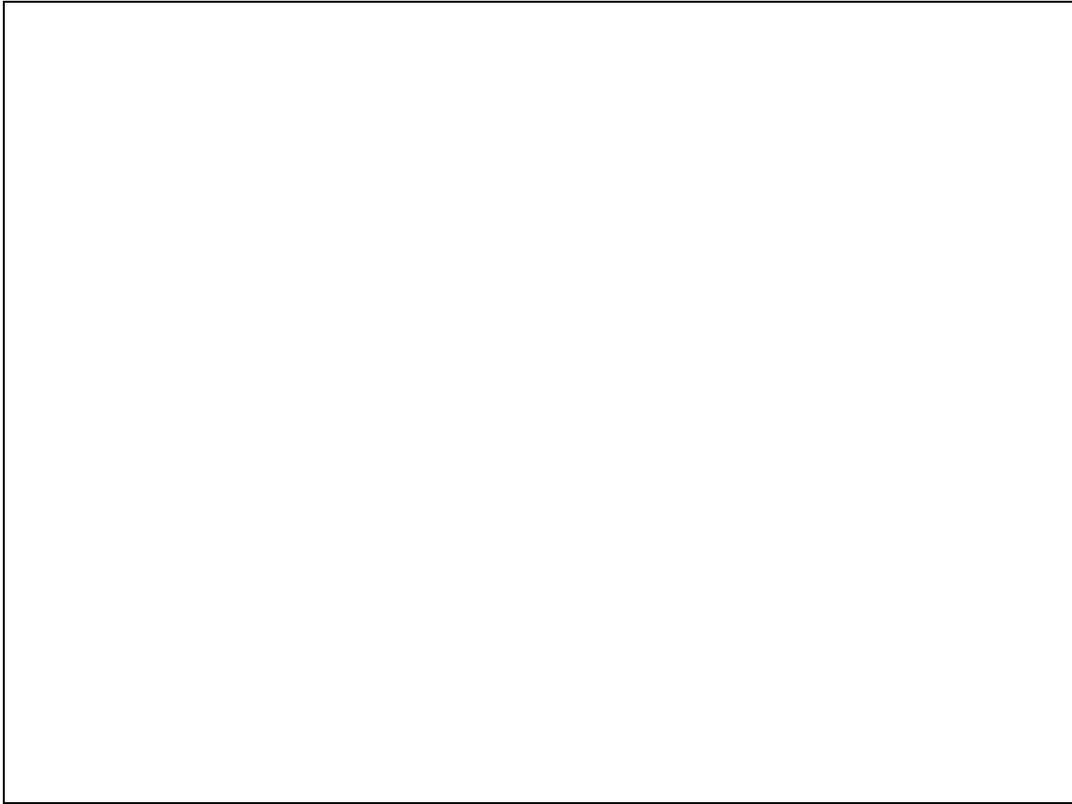


Slide 41

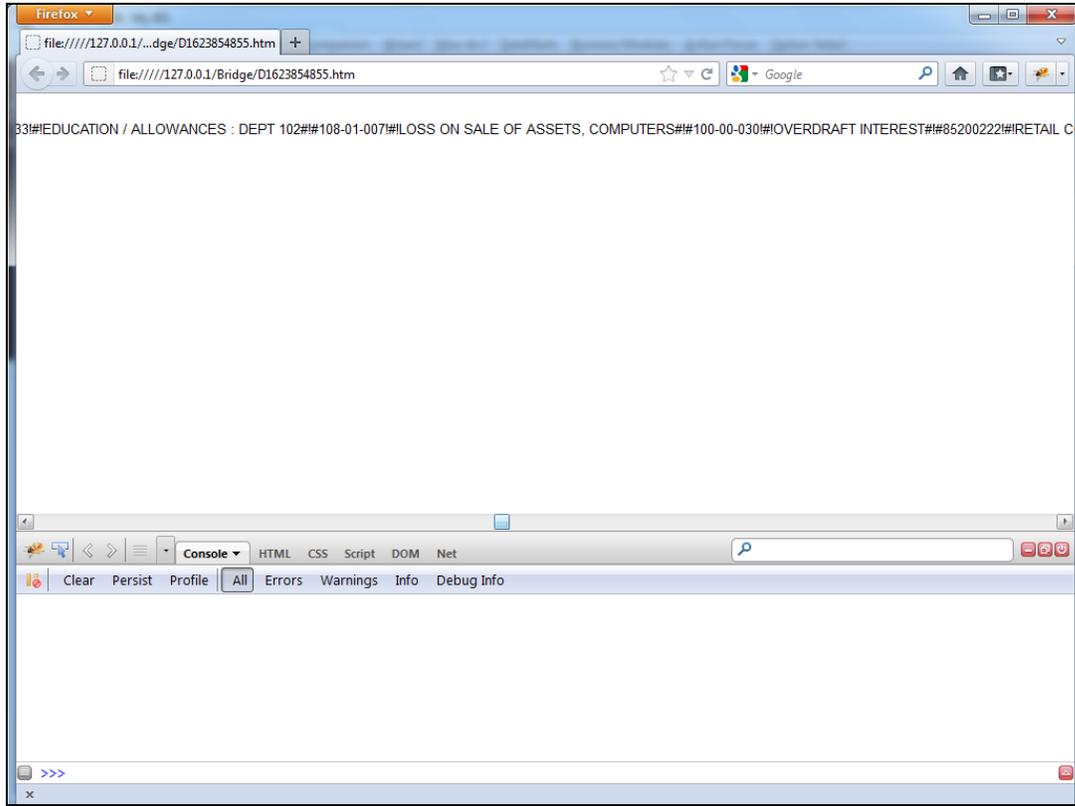
Slide notes: In the absence of any Java Script to deal with this data result, we can see that the data is simply streamed across the page.



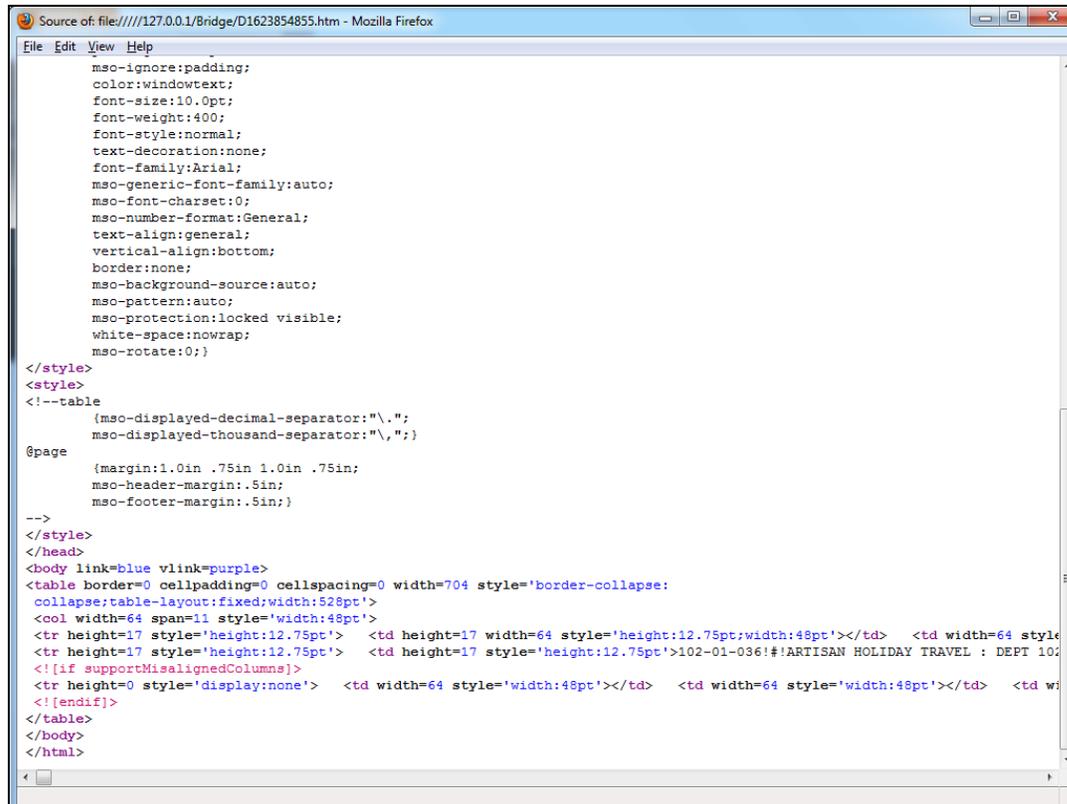
Slide 42
Slide notes:



Slide 43
Slide notes:



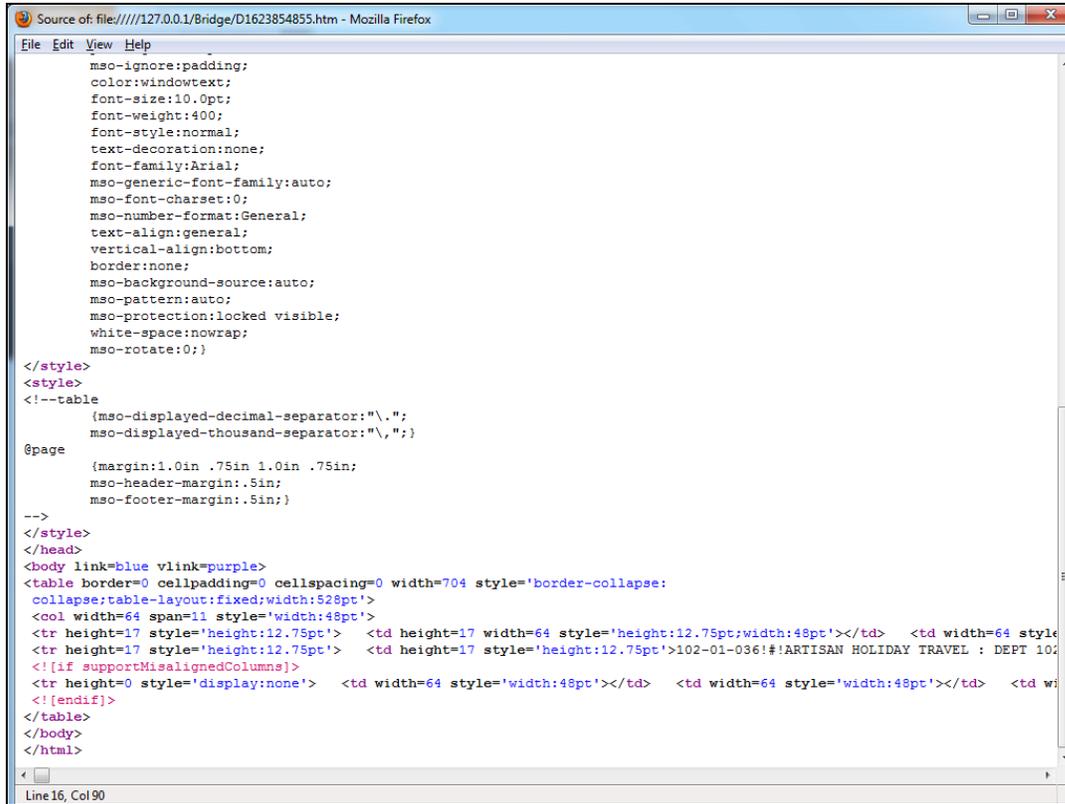
Slide 44
Slide notes:



```
Source of file:///127.0.0.1/Bridge/D1623854855.htm - Mozilla Firefox
File Edit View Help
mso-ignore:padding;
color:windowtext;
font-size:10.0pt;
font-weight:400;
font-style:normal;
text-decoration:none;
font-family:Arial;
mso-generic-font-family:auto;
mso-font-charset:0;
mso-number-format:General;
text-align:general;
vertical-align:bottom;
border:none;
mso-background-source:auto;
mso-pattern:auto;
mso-protection:locked visible;
white-space:nowrap;
mso-rotate:0;}
</style>
<style>
<!--table
(mso-displayed-decimal-separator:"\.";
mso-displayed-thousand-separator:"\,");
@page
{margin:1.0in .75in 1.0in .75in;
mso-header-margin:.5in;
mso-footer-margin:.5in;}
-->
</style>
</head>
<body link=blue vlink=purple>
<table border=0 cellpadding=0 cellspacing=0 width=704 style='border-collapse:
collapse;table-layout:fixed;width:528pt'>
<col width=64 span=11 style='width:48pt'>
<tr height=17 style='height:12.75pt'> <td height=17 width=64 style='height:12.75pt;width:48pt'></td> <td width=64 style
<tr height=17 style='height:12.75pt'> <td height=17 style='height:12.75pt'>102-01-036!#!ARTISAN HOLIDAY TRAVEL : DEPT 102
<![if supportMisalignedColumns]>
<tr height=0 style='display:none'> <td width=64 style='width:48pt'></td> <td width=64 style='width:48pt'></td> <td wi
<![endif]>
</table>
</body>
</html>
```

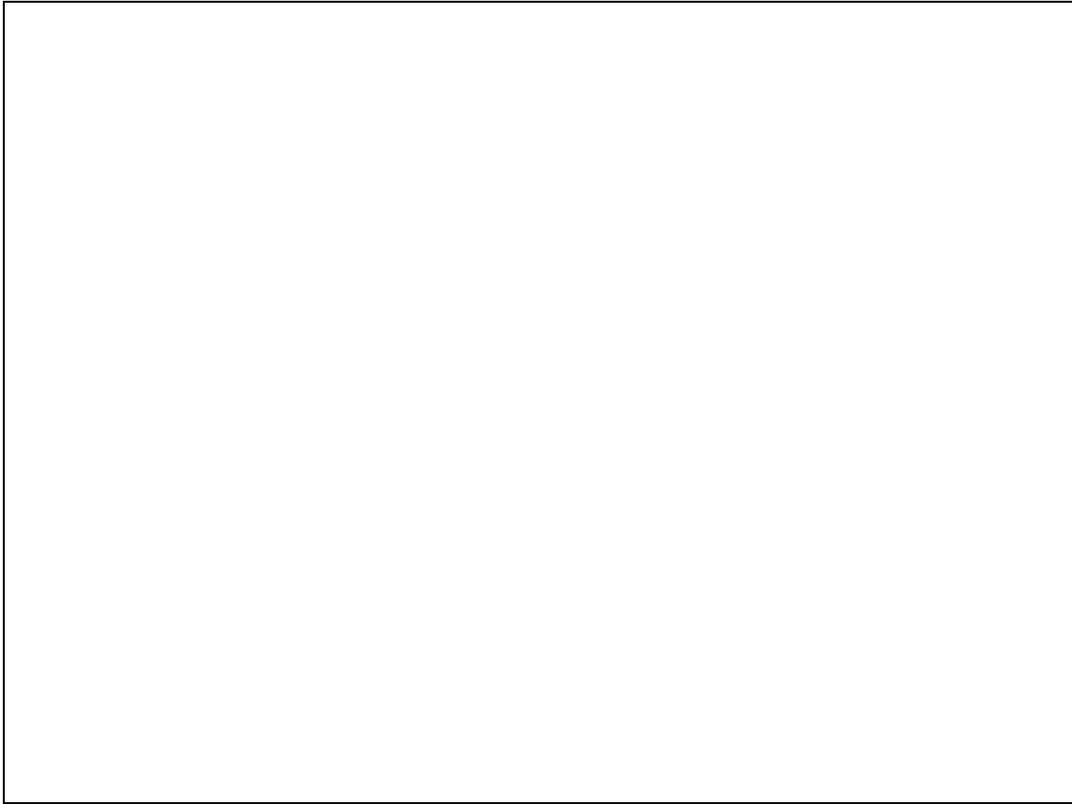
Slide 45

Slide notes: When we look at the page source, we can see clearly that the data is provided as a continuous stream to the tag cell in the document.

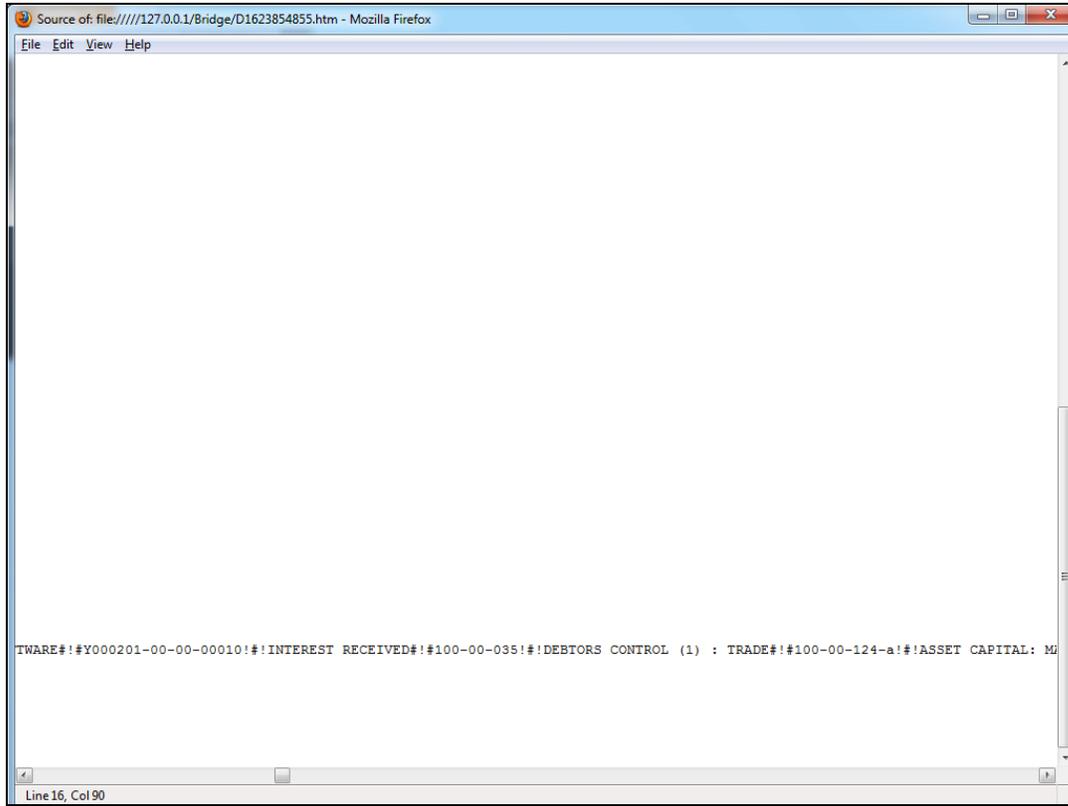


```
Source of file:///127.0.0.1/Bridge/D1623854855.htm - Mozilla Firefox
File Edit View Help
mso-ignore:padding;
color:windowtext;
font-size:10.0pt;
font-weight:400;
font-style:normal;
text-decoration:none;
font-family:Arial;
mso-generic-font-family:auto;
mso-font-charset:0;
mso-number-format:General;
text-align:general;
vertical-align:bottom;
border:none;
mso-background-source:auto;
mso-pattern:auto;
mso-protection:locked visible;
white-space:nowrap;
mso-rotate:0;}
</style>
<style>
<!--table
(mso-displayed-decimal-separator:"\.";
mso-displayed-thousand-separator:"\,");
@page
{margin:1.0in .75in 1.0in .75in;
mso-header-margin:.5in;
mso-footer-margin:.5in;}
-->
</style>
</head>
<body link=blue vlink=purple>
<table border=0 cellpadding=0 cellspacing=0 width=704 style='border-collapse:
collapse;table-layout:fixed;width:528pt'>
<col width=64 span=11 style='width:48pt'>
<tr height=17 style='height:12.75pt'> <td height=17 width=64 style='height:12.75pt;width:48pt'></td> <td width=64 style
<tr height=17 style='height:12.75pt'> <td height=17 style='height:12.75pt'>102-01-036!#!ARTISAN HOLIDAY TRAVEL : DEPT 102
<![if supportMisalignedColumns]>
<tr height=0 style='display:none'> <td width=64 style='width:48pt'></td> <td width=64 style='width:48pt'></td> <td wi
<![endif]>
</table>
</body>
</html>
Line 16, Col 90
```

Slide 46
Slide notes:

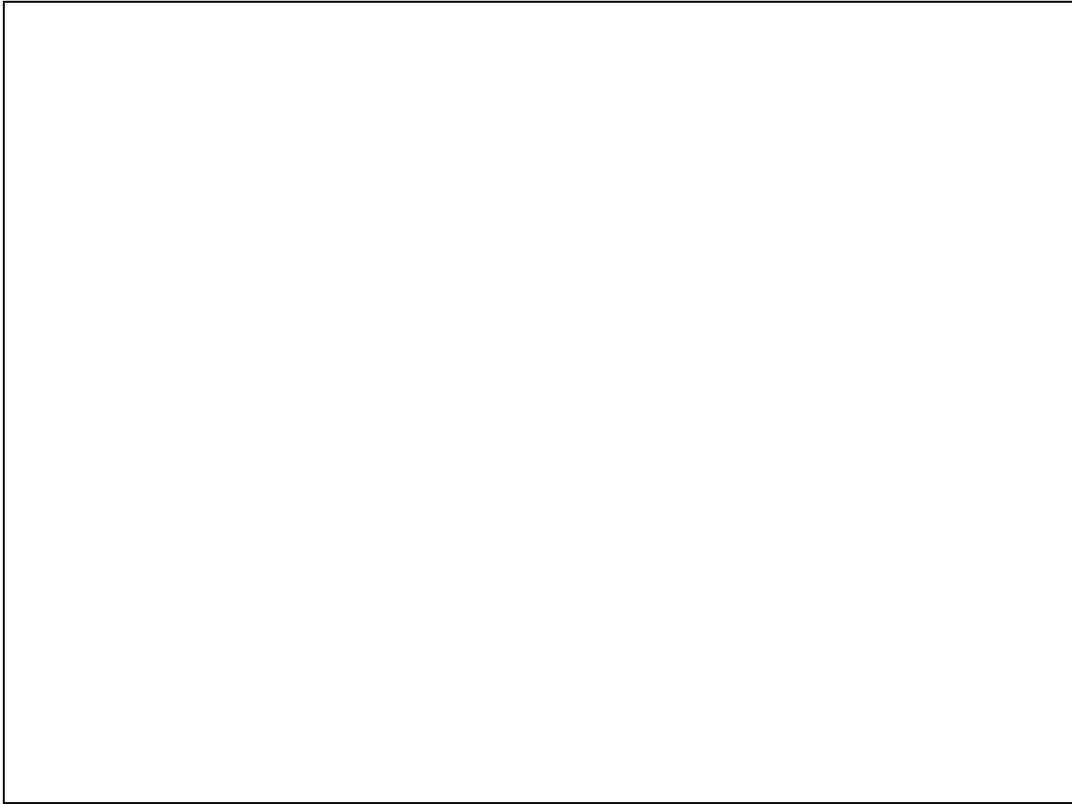


Slide 47
Slide notes:

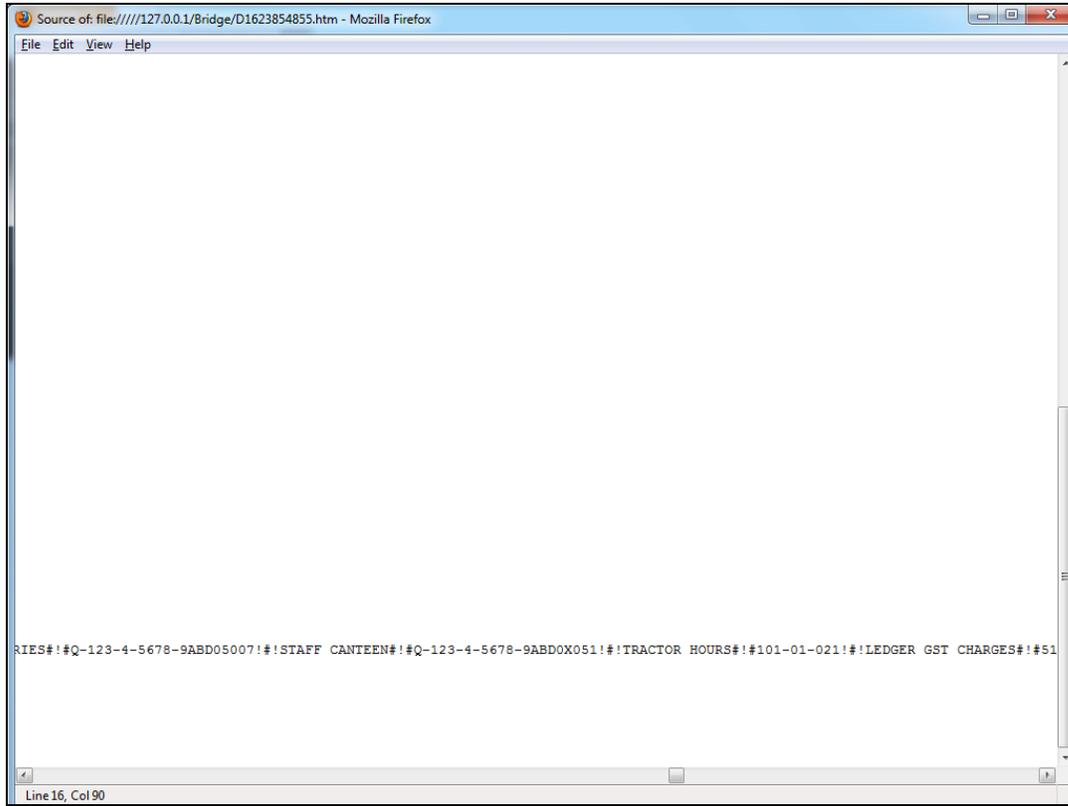


Slide 48

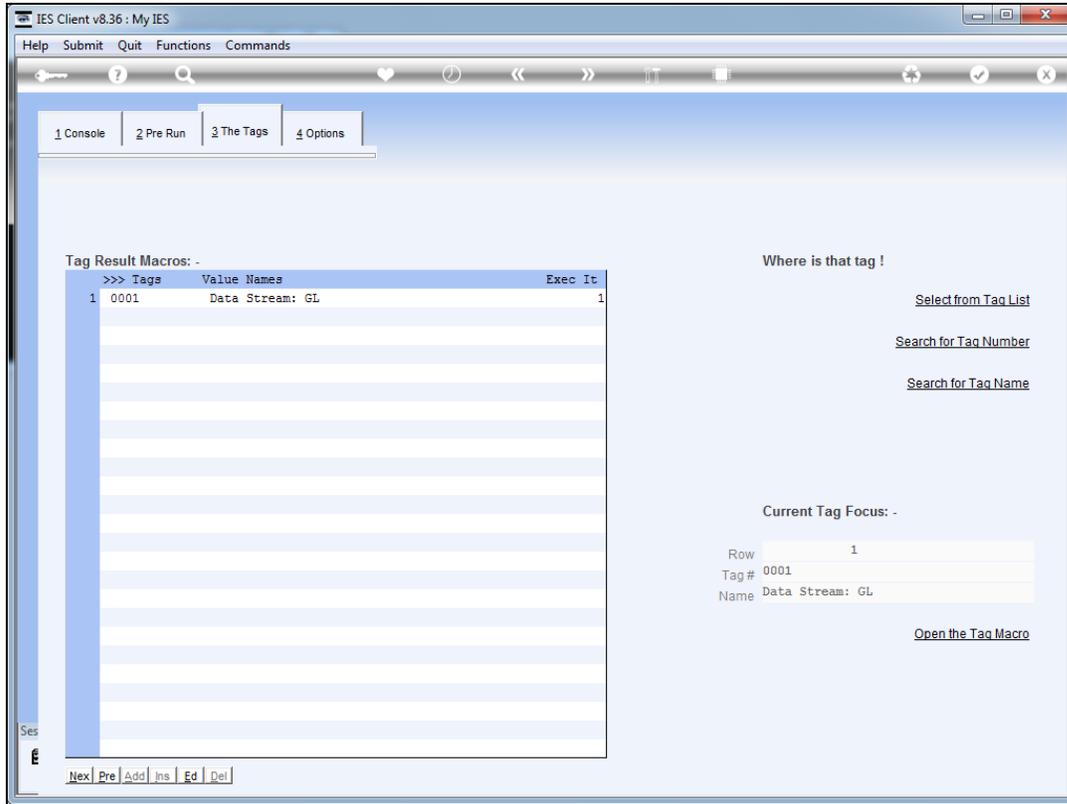
Slide notes: We can also see that the data is delimited with a defined string pattern to delimit records, as well as fields in records. We will see this in the Help document in a moment.



Slide 49
Slide notes:

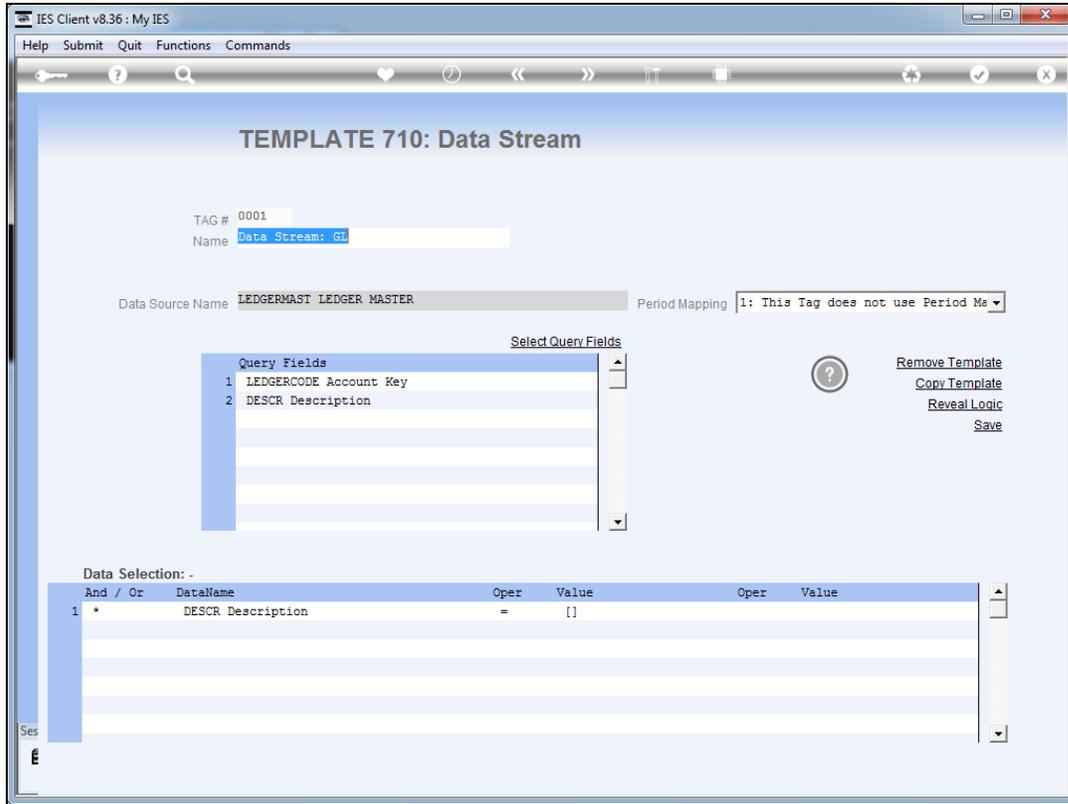


Slide 50
Slide notes:

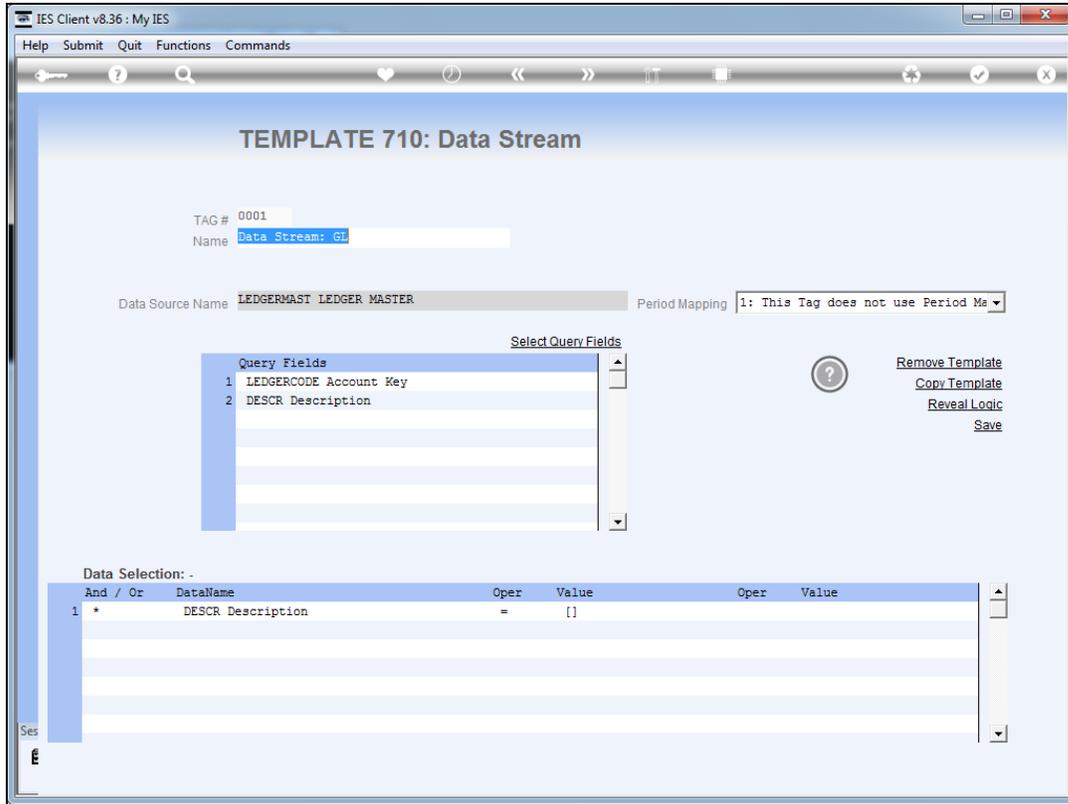


Slide 51

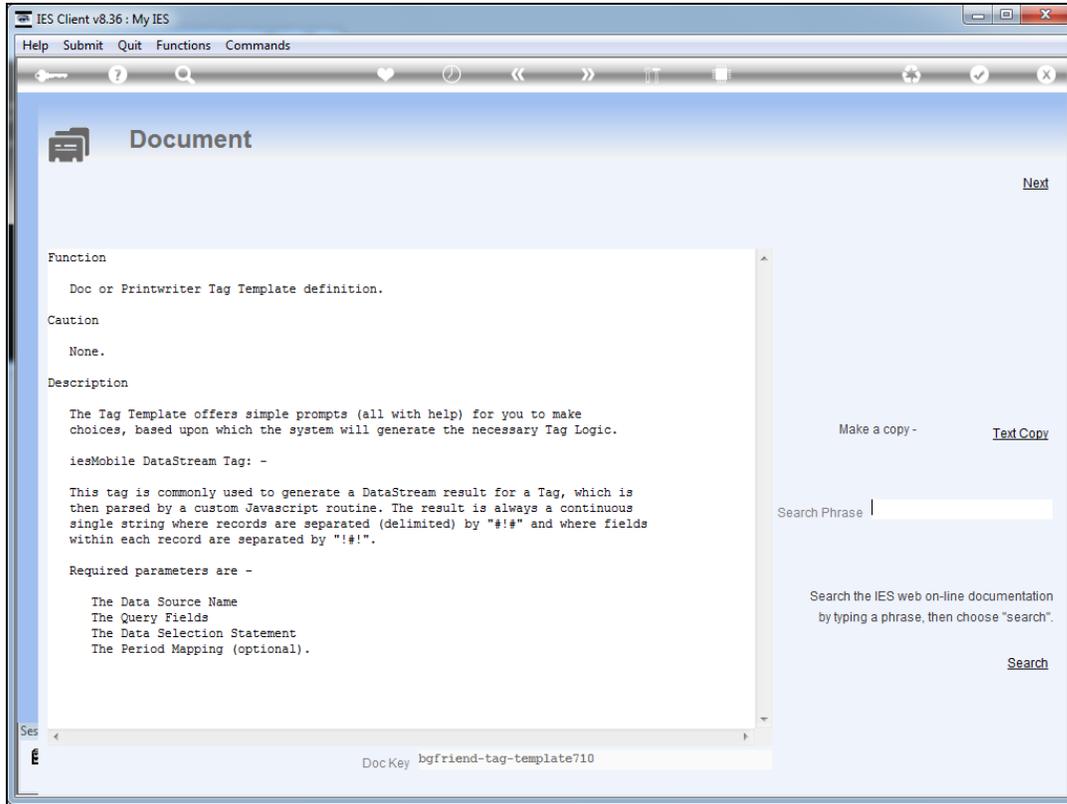
Slide notes: Now let us revisit the Tag template and see the help document.



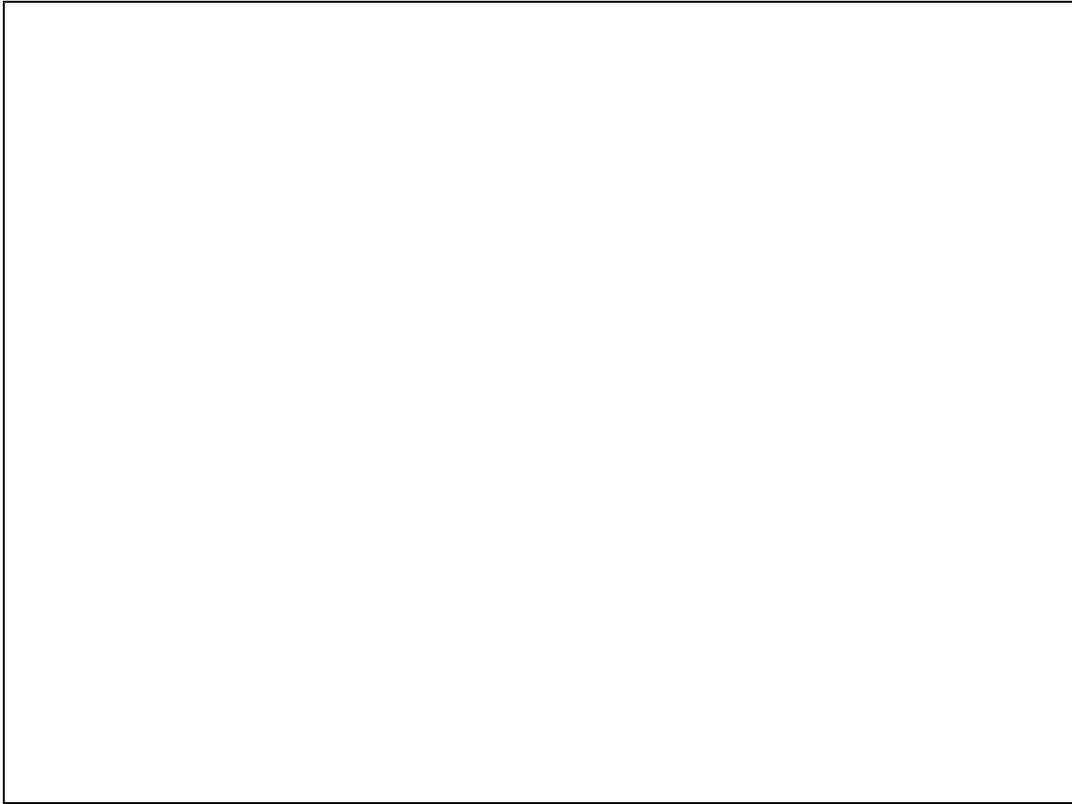
Slide 52
Slide notes:



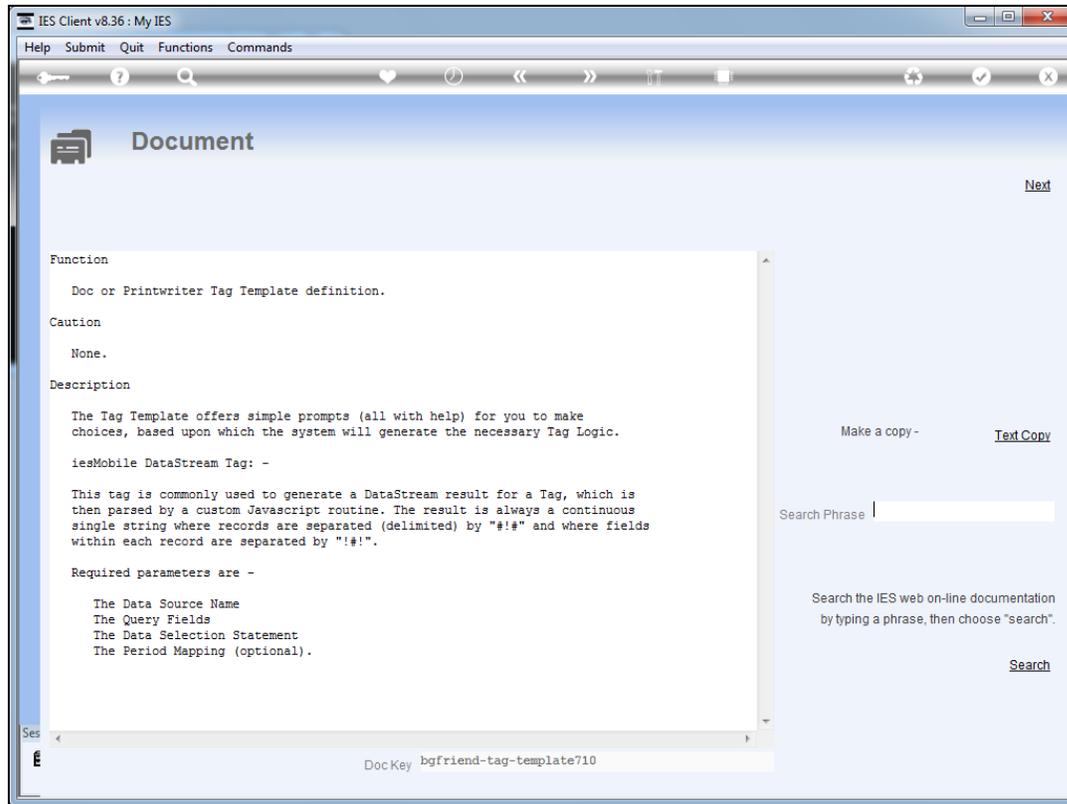
Slide 53
Slide notes:



Slide 54
Slide notes:

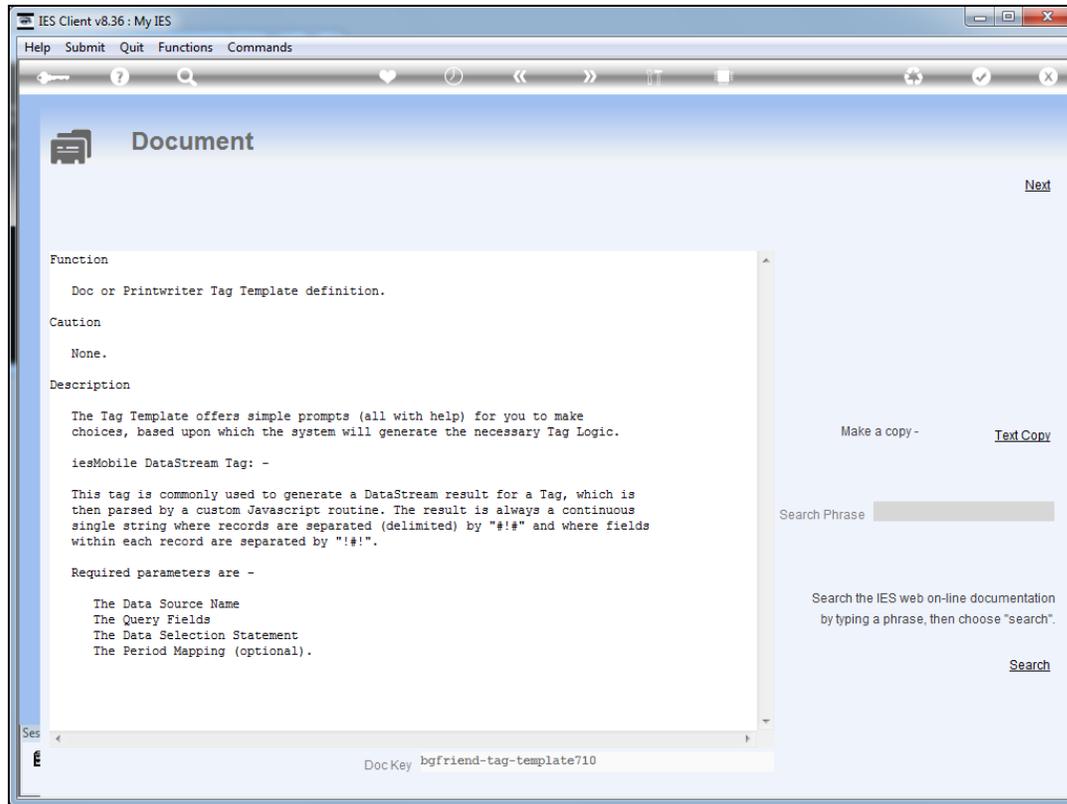


Slide 55
Slide notes:



Slide 56

Slide notes: The result is always a continuous single string where records are delimited by a standard 3-character string, and similarly the fields within a record are delimited in like manner, but with a different 3-character string.



Slide 57

Slide notes: We can see therefore how we can easily include volumes of data in the document, to be further manipulated with Java Script as the need may be. When we use iesMobile, we can also use interactive dynamic data streams to update the data in the document as many times as needed. Please see the tutorial for the dynamic Data Stream option.