

SAFR - Scalable Architecture for Financial Reporting
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Logic Text Diagrams

SAFR Workbench 4.15.000

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Logic Text Diagrams

SAFR Workbench 4.15.000

Note

Before using this information and the product it supports, read the information in “Appendix: Notices” on page 17.

Fourth Edition

This edition applies to version 4, release 15, modification 000 of SAFR Workbench (part of SAFR product number 6949-17P) and to all subsequent releases and modifications until otherwise indicated in new editions.

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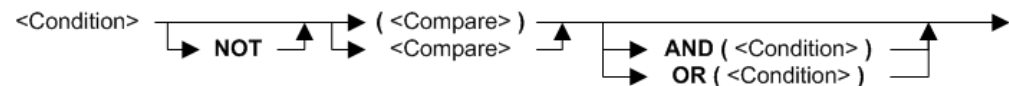
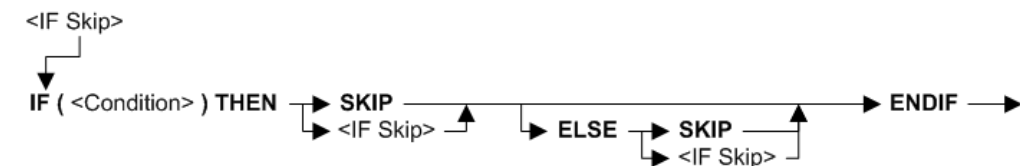
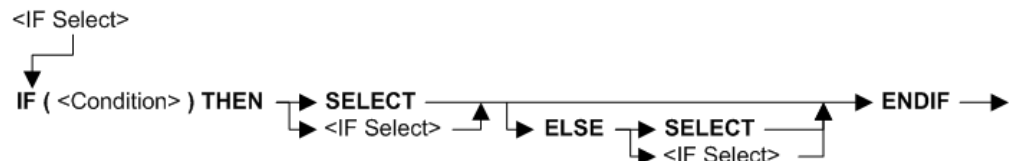
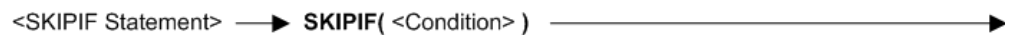
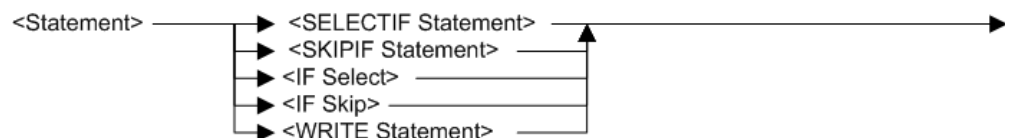
Chapter 1. Logic text: summary diagrams

Logic text diagrams 1: Extract Record Filter

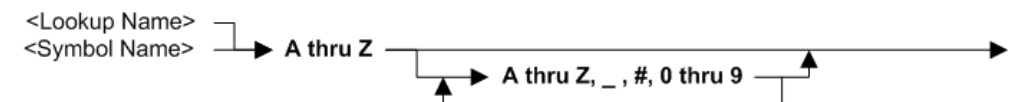
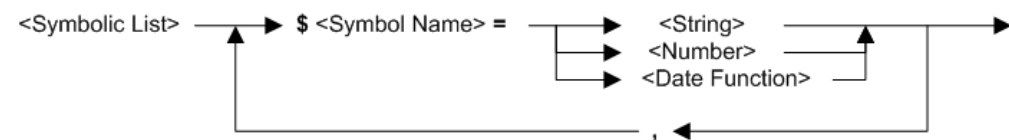
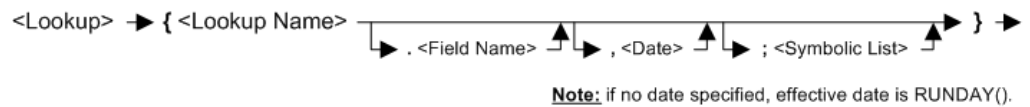
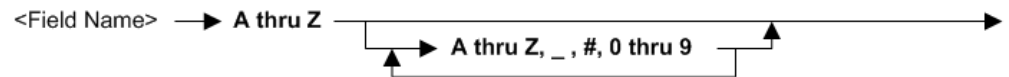
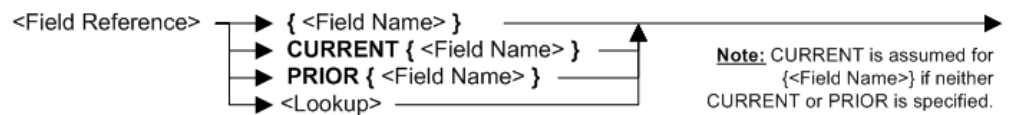
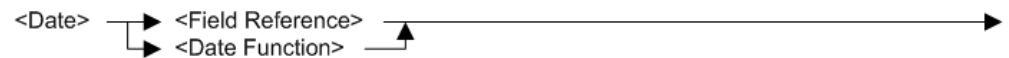
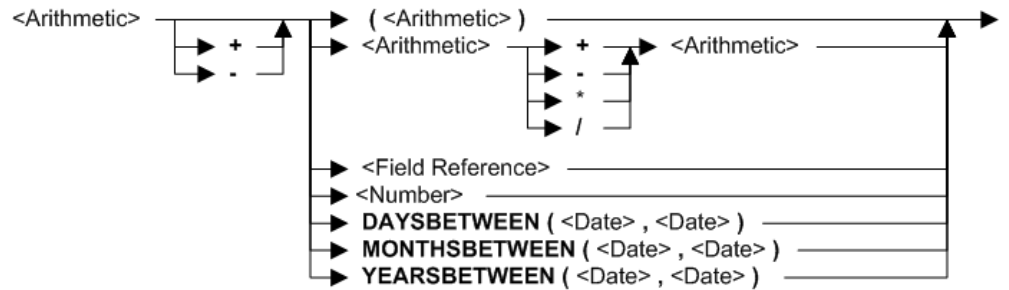
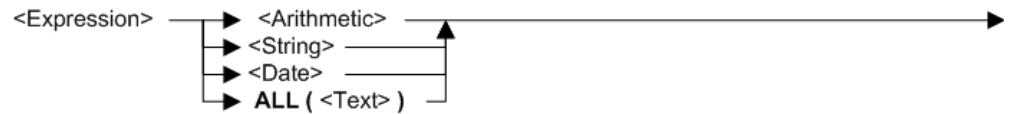
How the syntax works

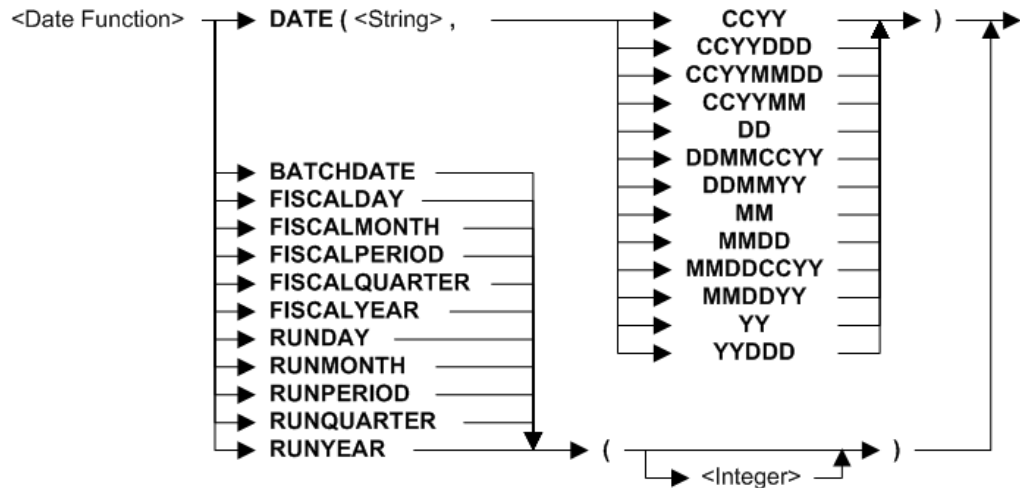
<text> Indicates a reference to another part of this syntax.
TEXT Indicates a keyword or punctuation (case does not matter)

Complete syntax diagrams for Extract Record Filter



Note: it is recommended to put parentheses "(" ")" around **<Compare>** text, as long as this does not duplicate parentheses around conditions.

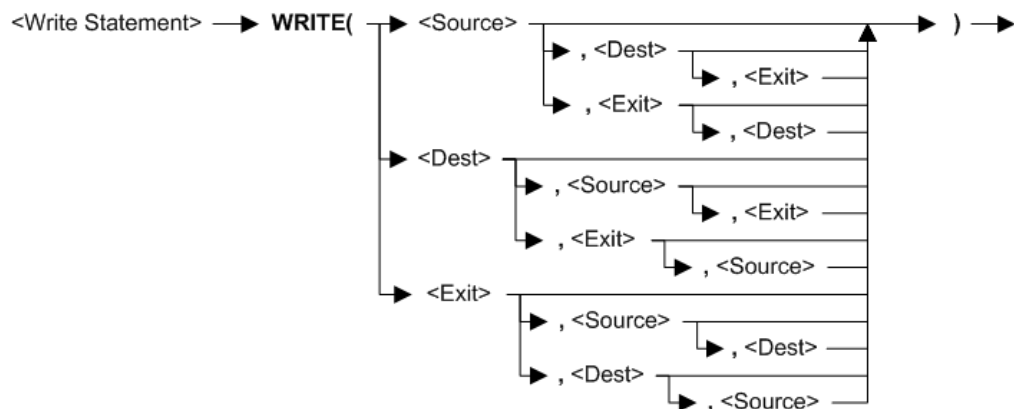
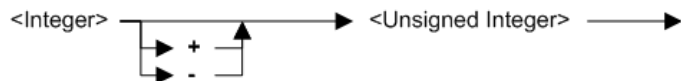
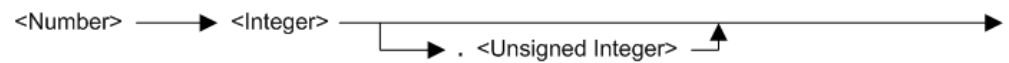
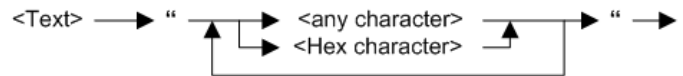




Note: In this situation, <Integer> means the number of units to add or subtract from the current value.



Note: <String> has maximum length 256 characters.



<Source> → **SOURCE = INPUT** →

Note: this is required for a WRITE in Extract Record Filter.

<Dest> → **DEST =** → **DESTINATION =** → **FILE = {** <Logical File> → **}** →

Note: <Partition> is a relevant Physical File name. The default is the first partition if <Partition> is not provided.

<Exit> → **PROC =** → **PROCEDURE =** → { <Procedure> } →

PROCEDURE = → ({ <Procedure> }, <String>) →

USEREXIT = → { <UserExit> } →

USEREXIT = → ({ <UserExit> }, <String>) →

Note: in this context, <String> means parameters to the Procedure or UserExit.

<Extract Work File Number> → **0 thru 9** →

Note: zero is the minimum value and 9999 is the maximum value.

<Logical File> → **A thru Z** →

<Partiton> → **A thru Z, _, #, 0 thru 9** →

<Procedure> →

<UserExit> →

<String> → **<Text>** →

<String> → **REPEAT (<Text> , <Unsigned Integer>)** →

Note: <String> has maximum length 256 characters.

<Text> → " → **<any character>** → **<Hex character>** → "

<Hex character> → **\X <Hex digit> <Hex digit>** →

<Hex digit> → **0 thru 9 A thru F** →

<Unsigned Integer> → **0 thru 9** →

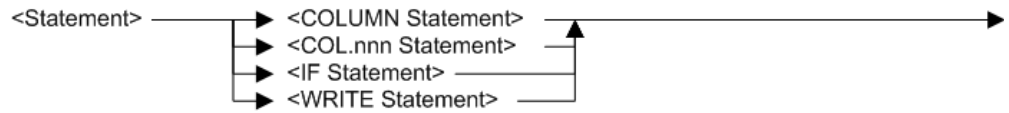
Logic text diagrams 2: Extract Column Assignment

How the syntax works

<text> Indicates a reference to another part of this syntax.

TEXT Indicates a keyword or punctuation (case does not matter)

Complete syntax diagrams for Extract Column Assignment



<COLUMN Statement> → **COLUMN = <Expression>**

<COL.nnn Statement> → **COL. <Unsigned Integer> = <Expression>**

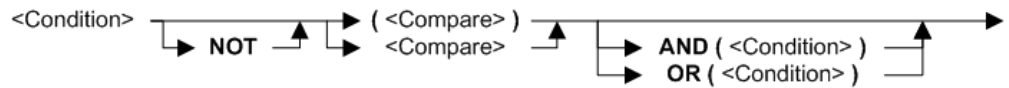
Note: in this situation, <Unsigned Integer> is a column number.
That number can be any column number (in the view).

<Unsigned Integer> → **0 thru 9**

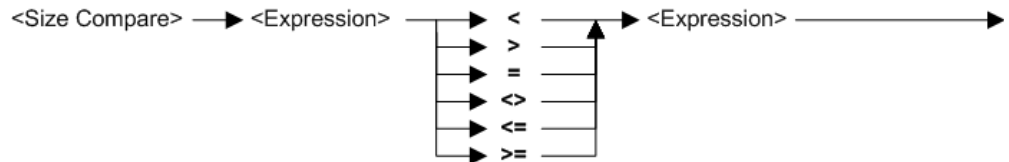
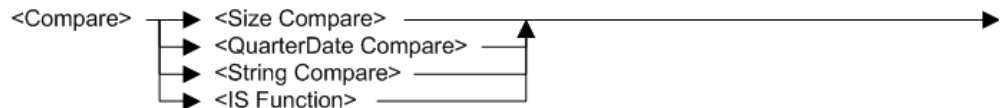
<IF Statement>

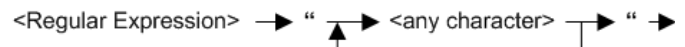
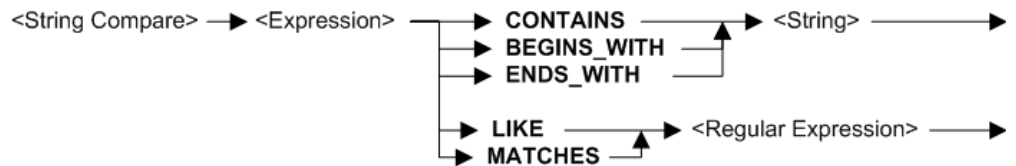
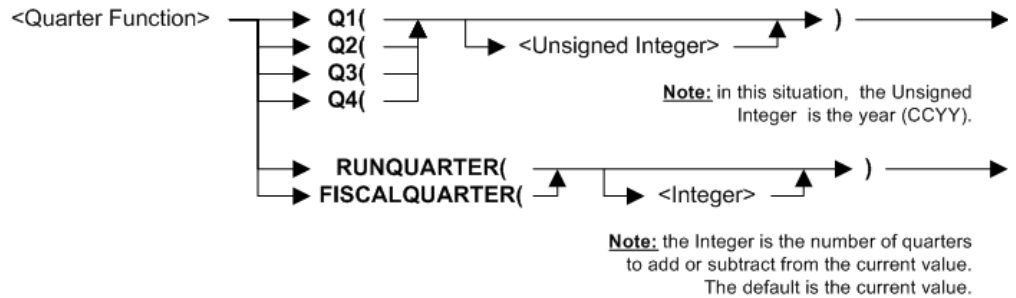
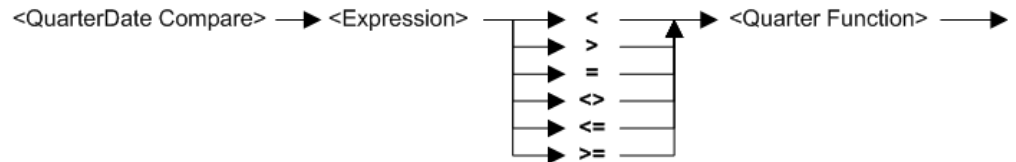


Note: it is recommended to put parentheses "(" ")" around conditions.



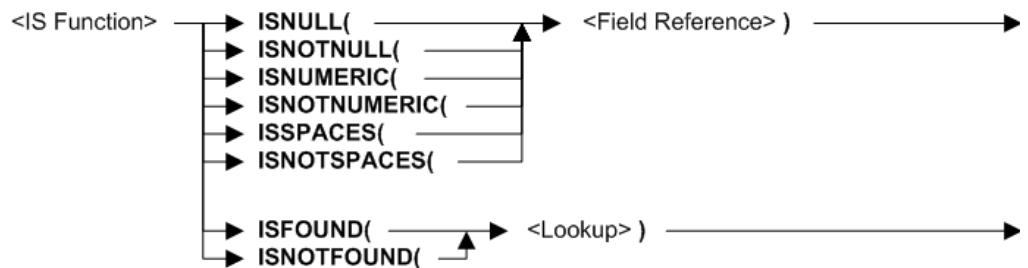
Note: it is recommended to put parentheses "(" ")" around <Compare> text, as long as this does not duplicate parentheses around conditions.

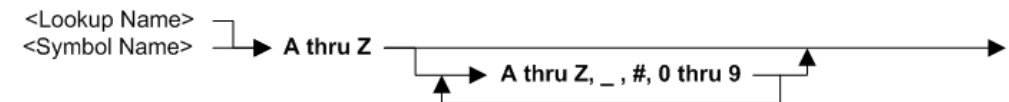
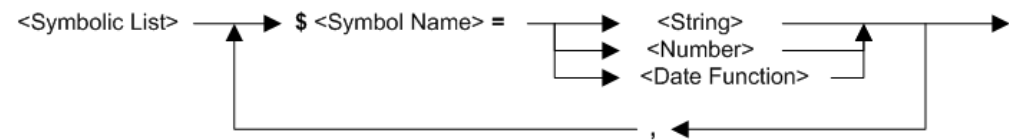
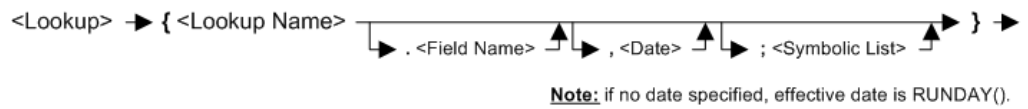
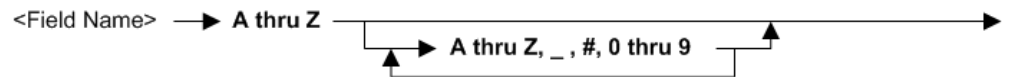
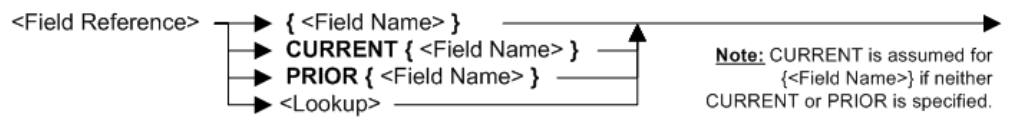
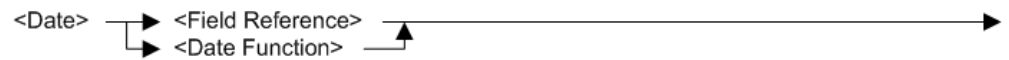
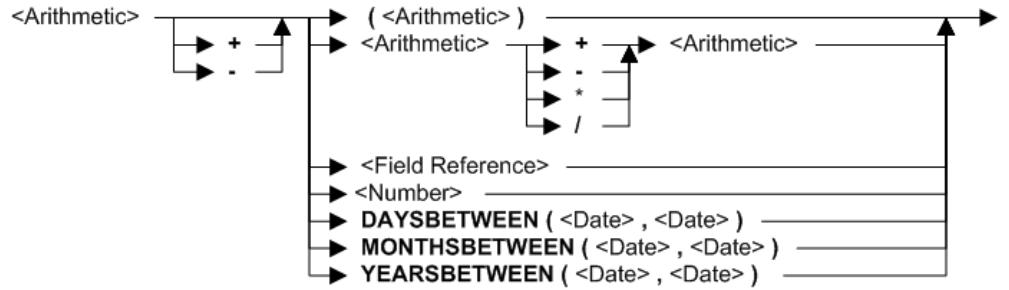
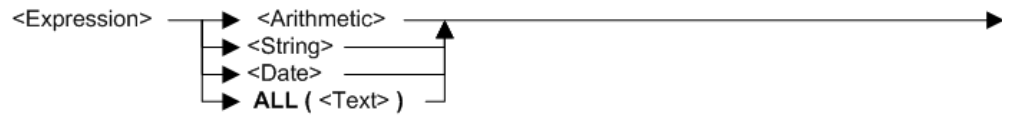


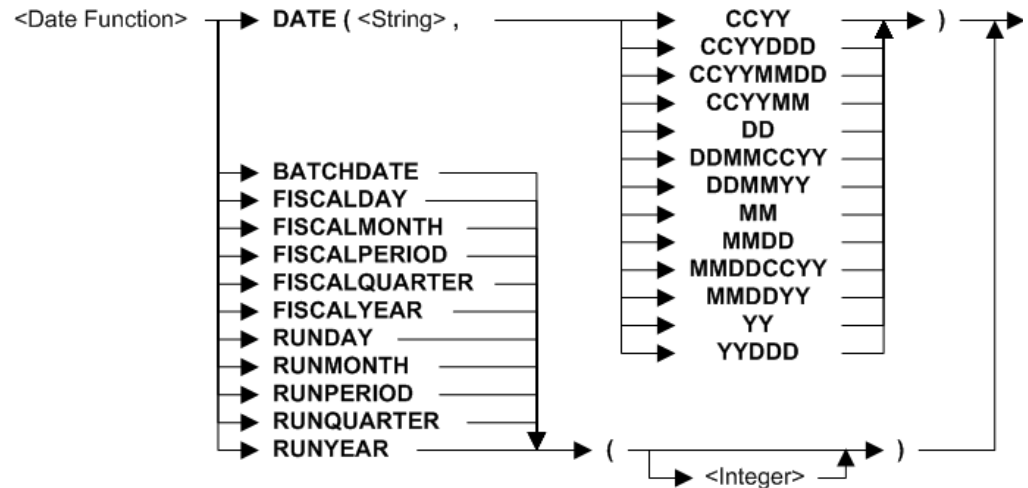


Note: <Regular Expression> uses these meanings:

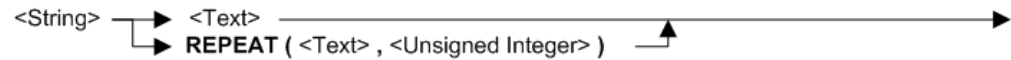
- ^ means the start of a string
- \$ means the end of a string
- . (fullstop) means any single character
- * (asterisk) means any zero or more characters



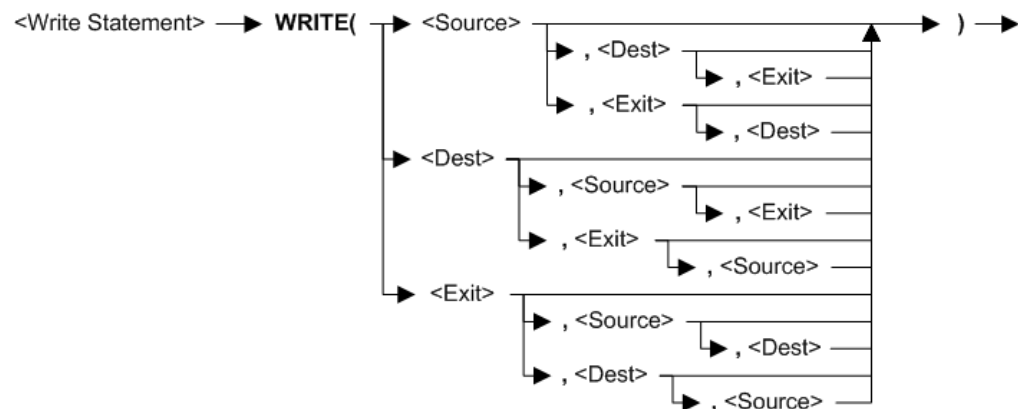
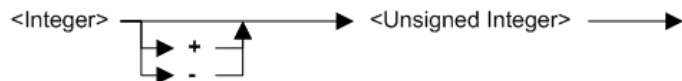
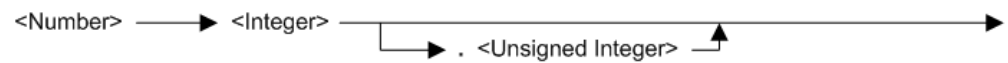
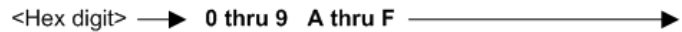
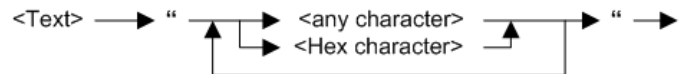


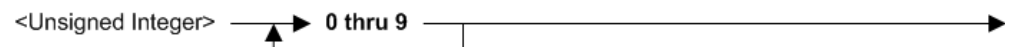
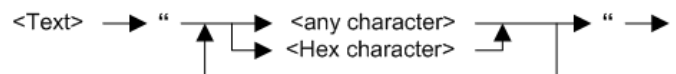
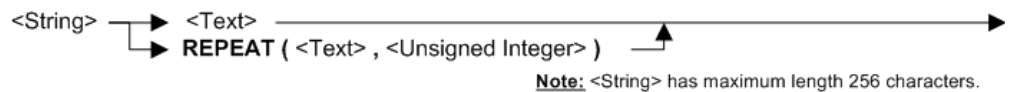
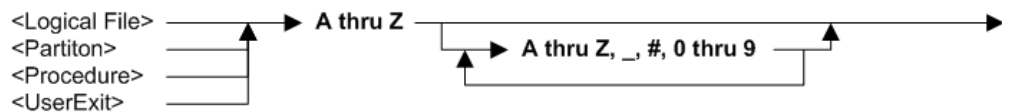
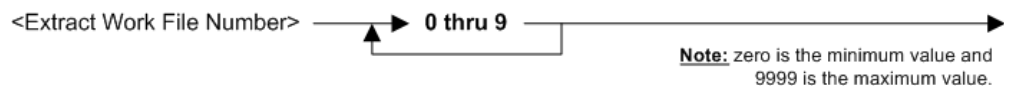
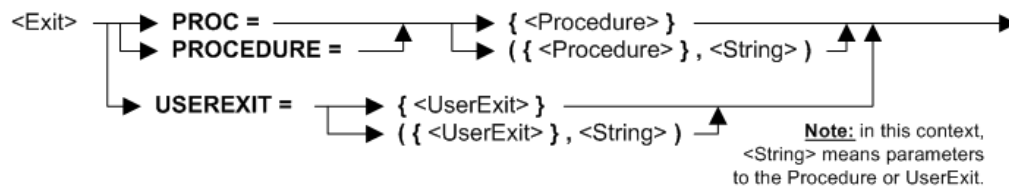
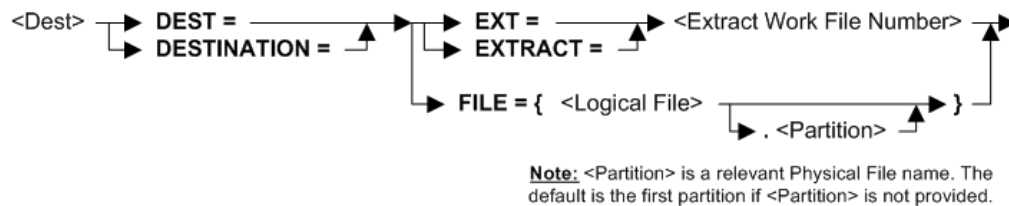
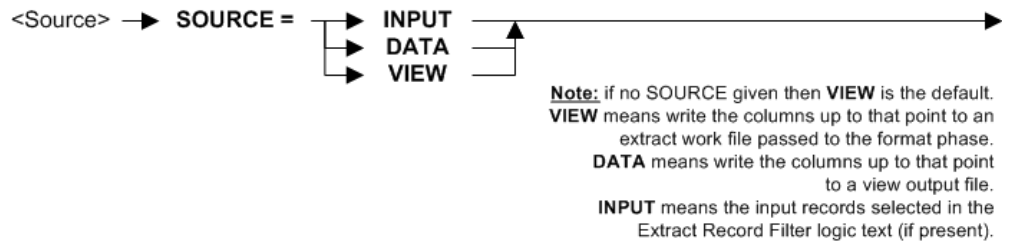


Note: In this situation, <Integer> means the number of units to add or subtract from the current value.



Note: <String> has maximum length 256 characters.





Logic text diagrams 3: Format Column Calculation

How the syntax works

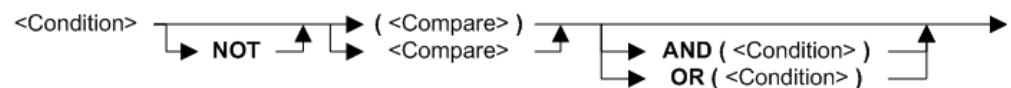
<text> Indicates a reference to another part of this syntax.

TEXT Indicates a keyword or punctuation (case does not matter)

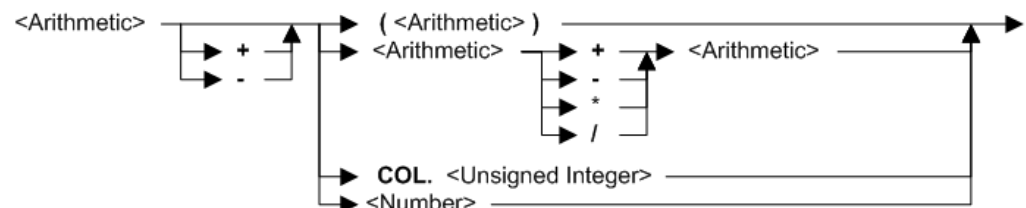
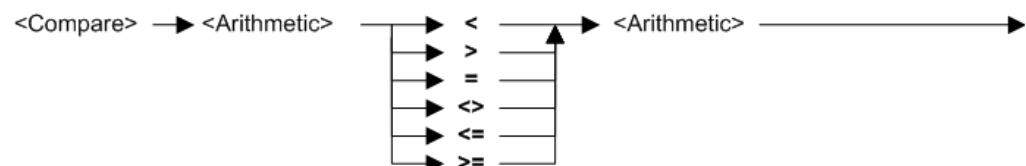
Complete syntax diagrams for Format Column Calculation



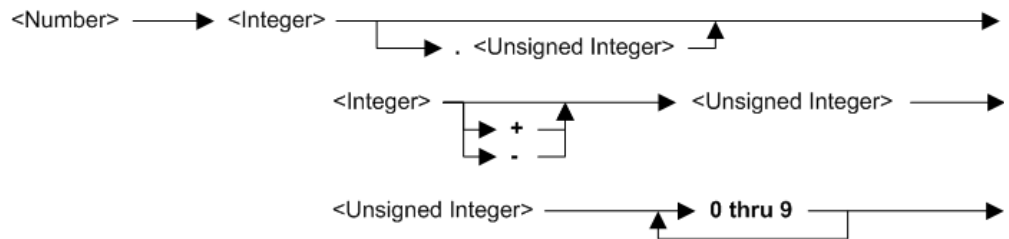
Note: it is recommended to put parentheses "(" ")" around conditions.



Note: it is recommended to put parentheses "(" ")" around <Compare> text, as long as this does not duplicate parentheses around conditions.



Note: in this situation, <Unsigned Integer> is a column number. That number must be between 1 and the current column number (inclusive).



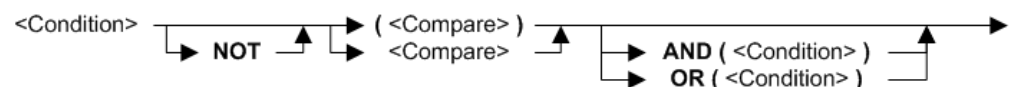
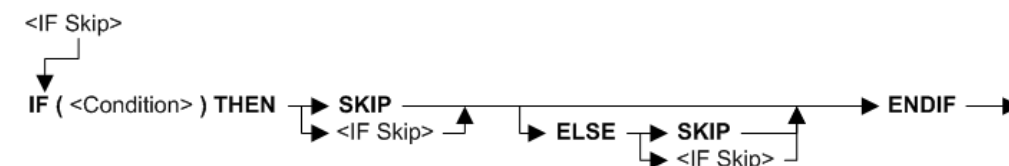
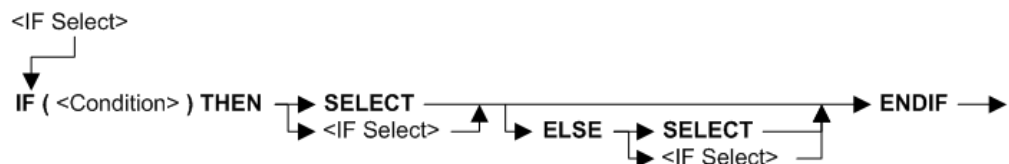
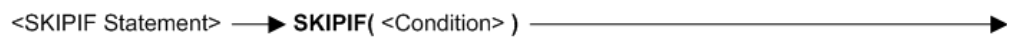
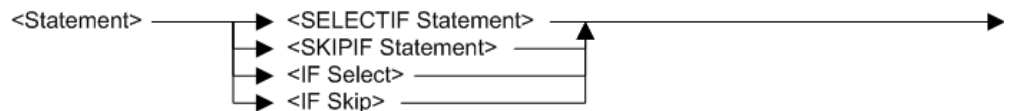
Logic text diagrams 4: Format Record Filter

How the syntax works

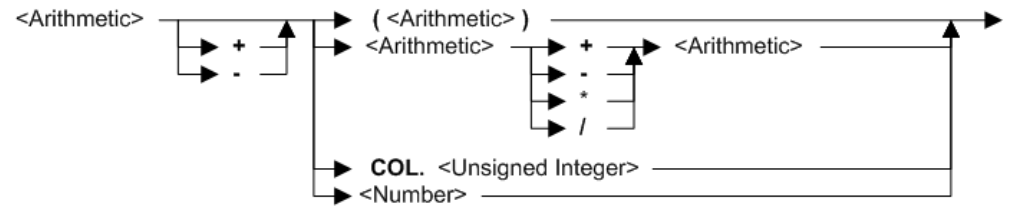
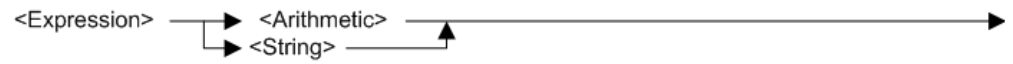
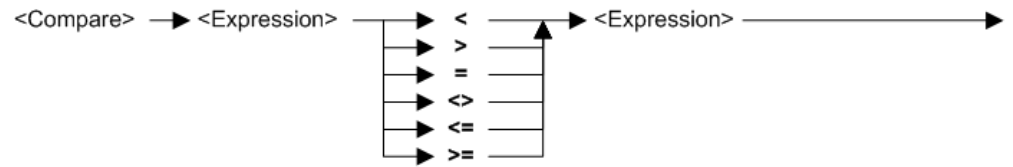
<text> Indicates a reference to another part of this syntax.

TEXT Indicates a keyword or punctuation (case does not matter)

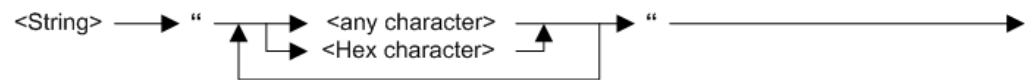
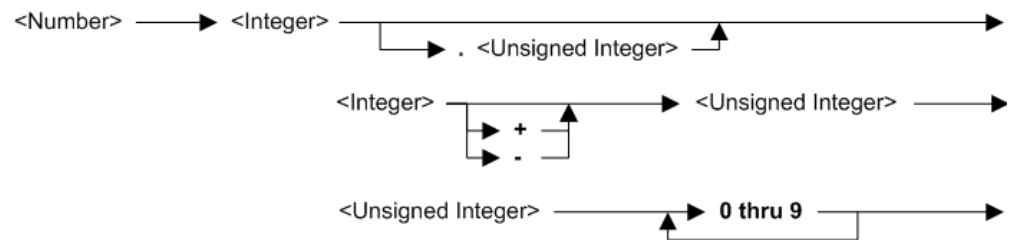
Complete syntax diagrams for Format Record Filter



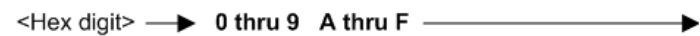
Note: it is recommended to put parentheses "(" ")" around <Compare> text, as long as this does not duplicate parentheses around conditions.



Note: in this situation, <Unsigned Integer> is a column number.
That number can be any column number (in the view).



Note: <String> has maximum length 256 characters.



Chapter 2. Rules for all logic text

Rules	Notes
Extra blanks between keywords and expressions have no effect.	<p>For example, these IF statements are all the same:</p> <pre>IF ({field1}={field2}) THEN COLUMN= {field1} ENDIF IF ({field1} = {field2}) THEN COLUMN = {field1} ENDIF IF ({field1} = {field2}) THEN COLUMN = {field1} ENDIF IF ({field1} = {field2})THEN COLUMN = {field1} ENDIF IF ({field1} = {field2}) THEN COLUMN = {field1} ENDIF</pre> <p>WARNING: Extra blanks change text strings, for example "ABC" and "A B C" are different strings.</p>
Logic text can continue on the next line. A backslash (\) is optional at line end.	<p>In previous versions of SAFR, a backslash (\) was required in order to continue a line of logic text on the next line. This backslash is no longer required. The backslash is still allowed for backwards compatibility. This means the following statements are the same:</p> <pre>IF ({FIELD1} >= 2)\ THEN COLUMN = {FIELD1} ENDIF IF ({FIELD1} >= 2) THEN COLUMN = {FIELD1} ENDIF</pre>
The case of keywords has no effect.	<p>For example, these IF statements are all the same:</p> <pre>IF ({FIELD1} >= COL.2) THEN COLUMN = {FIELD1} ELSE COLUMN = COL.2 ENDIF if ({field1} >= col.2) then column = {field1} else column = col.2 endif If ({Field1} >= Col.2) Then Column = {Field1} Else Column = Col.2 Endif</pre> <p>WARNING: Case changes text strings, for example "ABC" and "abc" are different strings.</p>

Rules

After a single quote

everything on that line is a comment

Notes

Examples are:

```
' Make col the larger of field1 & col.2
IF ({FIELD1} >= COL.2)
  THEN COLUMN = {FIELD1} ENDIF
COLUMN = {field3} ' Rest is comment (OK).
```

WARNING: comments to the left of keywords result in hiding the keywords, for example:

```
IF ({field1} = {field2}) THEN
  COLUMN = {field1}
' This comment hides keyword:      ENDIF
```

Use **curly brackets { }** to enclose **input fields** or names of metadata from the SAFR Workbench (such as a lookup path, logical file, physical file).

Examples are:

```
{shipping_date}
{product_category}
{CA_Sales_2009_Logical_File}
{Products_Logical_File}
{Products_USA_File}
{Lookup_Sales_to_Product_Category}
```

Keyboard shortcuts for all logic text screens

See topic "What are the keyboard shortcuts?"

To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Appendix: Notices

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