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Logic Text Syntax SAFR Workbench 4.15.000

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ote using this information and	d the product it supports,	read the information is	n "Appendix: Notices"	on page 147.

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. Rules for all logic text

Rules

Notes

Extra blanks between keywords and expressions have no effect.

```
For example, these IF statements are all the same:
IF ({field1}={field2}) THEN COLUMN=
   {field1} ENDIF
IF ({field1} = {field2}) THEN
    COLUMN = {field1} ENDIF
  ({field1}
            :
{field2})
THEN
                          COLUMN
                           {field1}
                               ENDIF
IF ({field1} = {field2})THEN
    COLUMN = {field1}
ENDIF
IF (\{field1\} = \{field2\})
   THEN COLUMN = {field1}
ENDIF
```

WARNING: Extra blanks change text strings, for example "ABC" and "A B C" are different strings.

Logic text can continue on the next line. A backslash (\) is optional at line end. 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:

```
IF ({FIELD1} >= 2)\
   THEN COLUMN = {FIELD1} ENDIF

IF ({FIELD1} >= 2)
   THEN COLUMN = {FIELD1} ENDIF
```

The **case of keywords** has no effect.

For example, these IF statements are all the same:

```
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
```

WARNING: Case changes text strings, for example "ABC" and "abc" are different strings.

Rules Notes
After a single quote
everything on that line is a

' Make col to

comment

' 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 keywand:

' 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".

Chapter 2. Logic text: syntax

Syntax: COLUMN and COL.nnn statements

Introduction

COLUMN is always a statement where you set the value of the current column. A COLUMN statement is only allowed in **Extract Column Assignment** and **Format Column Calculations.**

COL.nnn refers to a column value where nnn is the number of that column in that view (starting at one on the leftmost column).

You can **set the value** column in the view using a COL.nnn statement in **Extract Column Assignment**. This is the only logic text where COL.nnn is a statement.

COL.nnn can only appear in an **inquiry** (for example "IF (COL.nnn = ? ") in the format phase. In **Format Column Calculations**, the nnn must be a column number between 1 and the current column (inclusive). In **Format Record Filter**, nnn can be any column in the view.

Syntax: COLUMN and COL.nnn in Extract Column Assignment Introduction

COLUMN is always a statement where you set the value of the current column.

COL.nnn refers to a column value where nnn is the number of that column in that view (starting at one on the leftmost column).

You can **set the value** column in the view using a COL.nnn statement in **Extract Column Assignment**. This is the only logic text where COL.nnn is a statement.

Neither COLUMN or COL.nnn can appear in a condition of an IF statement (or in SELECTIF or SKIPIF).

How the syntax works

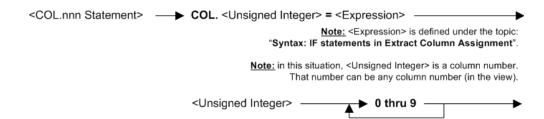
<text> Indicates a reference to another part of this syntax.

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

Syntax for COLUMN and COL.nnn in Extract Column Assignment

<COLUMN Statement> → COLUMN = <Expression> →

Note: <Expression> is defined under the topic: "Syntax: IF statements in Extract Column Assignment".



Rules for the syntax

- You can set the value of any column in the view using COL.nnn statement. This statement can be placed in the Extract Column Assignment logic text for any column. This means that any column can set the value of any other column.
- You can only set the value of the current column using the COLUMN statement.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: COLUMN and COL.nnn in Extract Column Assignment

In all the following examples, COLUMN can be replaced by COL.nnn, for example COL.3. You can set the value of any COL.nnn from any other column. You can create multiple COL.nnn statements in Extract Column Assignment logic text.

Example logic text	Meaning
$COLUMN = (\{field2\}/\{field1\}) * 100$	Set the current column to field2
COL.27 = {field1} * {field26}	divided by field1 all multiplied by
COL.28 = {field14} + {field1}	100. Set column 27 to field1 times
COL.29 = 0	field26. Set column 28 to field14 plus
COL.30 = "ABC"	field1. Set column 29 to zero. Set
	column 30 to "ABC".
COLUMN = ALL("-")	Set the current column to all dashes.
COLUMN = REPEAT("-", 13)	Set the current column to 13 dashes.
COLUMN = "\xFF"	Set the current column to
	hexadecimal FF.
COLUMN = {Lookup1.Field3}	Set the current column to Field3
	found by lookup path Lookup1
COLUMN = {Lookup1.Field3,field7}	Set the current column to Field3
	found by lookup path Lookup1
	using effective date of field7.
COLUMN = {Lookup1.Field3,;\$SYM="A"}	Set the current column to Field3
	found by lookup path Lookup1
	using symbol SYM set to "A".
COLUMN = {Lookup1.Field3,field7;\$SYM1=3,\$SYM2=0}	Set the current column to Field3
	found by lookup path Lookup1
	using effective date of field7 and
	symbols SYM1 set to 3 and SYM2
	set to zero.
<pre>COLUMN = DAYSBETWEEN({BUY_DATE},{SHIP_DATE})</pre>	Set the current column to the days
	between the transaction date and the
	shipping date.

Examples: IF with COLUMN and COL.nnn in Extract Column Assignment

In all the following examples, COLUMN can be replaced by COL.nnn, for example COL.3. You can set the value of any COL.nnn from any other column. You can create multiple IF statements in Extract Column Assignment logic text. However, you cannot inquire on COL.nnn (for example, IF COL.4 = 0 is not allowed).

Example logic text

```
IF (\{field1\} > 0) THEN
  COLUMN = (\{field2\}/\{field1\}) * 100
  COL.27 = {field1} * {field26}
  COL.28 = {field14} + {field1}
ELSE
  COLUMN = 0
  COL.27 = 0
  COL.28 = 0
ENDIF
IF (CURRENT({field5}) <> PRIOR({field5}))
   THEN COLUMN = "PRODUCT: "
   ELSE COLUMN = " "
ENDIF
IF ({field5} = "Total")
  THEN COLUMN = ALL("-")
FNDIF
IF {field6} = ALL("-")
  THEN COLUMN = {field2} + {field3}
IF ({field5} = "Total")
   THEN COLUMN = REPEAT("-", 13)
FNDTF
IF ({field6} = REPEAT("-", 13))
  THEN COLUMN = {field2} + {field3}
ENDIF
IF ({field5} = "Total")
  THEN COLUMN = "\xFF"
ENDIF
IF (\{field6\} = "\xff"\}
  THEN COLUMN = {field2} + {field3}
ENDIF
IF ISNOTSPACES({field1})
  THEN COLUMN = {field1}
   ELSE COLUMN = "DEFAULT"
ENDIF
```

Meaning

If field1 is greater than zero then set the current column to field2 divided by field1 all multiplied by 100, set column 27 to field1 times field26 and set column 28 to field 14 plus field1. If field1 is not greater than zero then set the current column and columns 27 and 28 to zero.

If the current record has a different value of field5 from the previous record, set the current column to "PRODUCT: " otherwise set the current column to blank. This assumes the input file is sorted into field5 order.

If field5 is "Total" then set the current column to all dashes.

If field6 is all dashes, then set the current column to a total of fields 2 and 3.

If field5 is "Total" then set the current column to 13 dashes.

If field6 is 13 dashes, then set the current column to a total of fields 2 and 3.

If field5 is "Total" then set the current column to hexadecimal FF.

If field6 is hexadecimal FF, then set the current column to a total of fields 2 and 3.

If field1 is not spaces then set the current column to field1, otherwise set the current column to "DEFAULT".

Example logic text IF ISFOUND({Lookup1}) THEN COLUMN = {Lookup1} ELSE COLUMN = " " IF ISFOUND({Lookup2;\$SYM="A"}) THEN COLUMN = {Lookup2;\$SYM="A"} ELSE COLUMN = 0**ENDIF** IF ISNULL({field4} THEN COLUMN = "EMPTY" ELSE COLUMN = {field4} ENDIF IF ISNUMERIC({field4} THEN COLUMN = $\{field4\} * 100$ ELSE COLUMN = 0 IF (DAYSBETWEEN({BUY_DATE},{SHIP_DATE}) > 10) THEN COLUMN = {SHIP DATE} ELSE COLUMN = {BUY DATE} **ENDIF** IF ({field1} BEGINS_WITH "BBB") THEN COLUMN = {field1} ELSE COLUMN = " " **ENDIF** IF ({field2} CONTAINS "CCC") THEN COLUMN = {field2} ELSE COLUMN = " " ENDIF IF ({field3} ENDS WITH "EEE") THEN COLUMN = $\{\text{field3}\}$ ELSE COLUMN = " " **ENDIF** IF ({field4} MATCHES "...") THEN COLUMN = {field4} ELSE COLUMN = " " **ENDIF** IF ({field1} LIKE "MA...") THEN COLUMN = {field1} ELSE COLUMN = " " ENDIF

Meaning

If the lookup path Lookup1 uses the current record to successfully find a target record, then set the current column to the lookup path field found, otherwise set the current column to blank.

If the lookup path Lookup2 using symbol SYM set to "A", then set the current column to that lookup field, otherwise set the current column to zero.

If field4 for the current record contains null values, then set the current column to "EMPTY", otherwise set the current column to field4.

If field4 for the current record is numeric, then set the current column to field4 times 100, otherwise set the current column to zero.

If there are more than 10 days between the transaction date and the shipping date, then set the current column to the shipping date, otherwise set the current column to the transaction date.

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to blank.

If field2 contains characters "CCC" then set the current column to field2, otherwise set the current column to blank.

If field3 ends with characters "EEE" then set the current column to field3, otherwise set the current column to blank.

If field4 matches characters "..." then set the current column to field4, otherwise set the current column to blank.

Select input records where field1 is exactly 5 characters starting with "MA", and skip all other records.

```
IF ({field1} LIKE "..VA..")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
IF ({field1} LIKE "....NA")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "^BBB*")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "*CCC*")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
FNDIF
IF ({field1} LIKE "*EEE$")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "^B*C*E$")
   THEN COLUMN = {field1}
ELSE COLUMN = " "
FNDTF
```

Meaning

Select input records where field1 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.

Select input records where field1 is exactly 6 characters ending in "NA", and skip all other records.

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to

If field1 contains characters "CCC" then set the current column to field1, otherwise set the current column to hlank

If field1 ends with characters "EEE" then set the current column to field1, otherwise set the current column to blank.

If field1 begins with "B", contains "C" and ends with "E" then set the current column to field1, otherwise set the current column to blank.

Syntax: COLUMN and COL.nnn in Format Column Calculations Introduction

COLUMN is always a statement where you set the value of the current column.

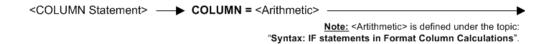
COL.nnn refers to a column value where nnn is the number of that column in that view (starting at one on the leftmost column).

COL.nnn can only appear in an **inquiry** (for example "IF (COL.nnn = ?") in the format phase. In Format Column Calculations, the nnn must be a column number between 1 and the current column (inclusive).

How the syntax works

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

Syntax for COLUMN in Format Column Calculations



Syntax for inquiry on COL.nnn in Format Column Calculations

See topic "Syntax: IF statements in Format Column Calculations". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Rules for the syntax

- · You can only set the value of the current column using the COLUMN statement.
- COL.nnn can only appear in an inquiry (for example "IF (COL.nnn = ? "). The nnn must be a column number between 1 and the current column (inclusive).

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: COLUMN statement in Format Column Calculation

You must set a value of COLUMN.

Example logic text	Meaning
COLUMN = Col.3 * Col.4	Set the current column to column 3 times column 4. The current column must be to the right of Column 4.
COLUMN = "TOTAL"	Set the current column to "TOTAL".
COLUMN = ALL("-")	Set the current column to all dashes.
COLUMN = REPEAT("-", 13)	Set the current column to 13 dashes.
COLUMN = "\xFF"	Set the current column to hexadecimal FF.

Examples: IF with COLUMN in Format Column Calculation

You must set a value of COLUMN.

Example logic text	Meaning
IF (Col.7 = 999) THEN COLUMN = "TOTAL" ENDIF	If column 7 is 999 then set the current column to "TOTAL". The current column must be to the right of Column 7.
IF (Col.7 = 999) THEN COLUMN = Col.3 * Col.4 ENDIF	If column 7 is 999 then set the current column to column 3 times column 4. The current column must be to the right of Column 7.
<pre>IF (Col.2 = Col.3) THEN COLUMN = ALL("-") ENDIF</pre>	If column 2 equals column 3 then set the current column to all dashes. The current column must be to the right of Column 3.
<pre>IF (Col.2 = Col.3) THEN COLUMN =</pre>	If column 2 equals column 3 then set the current column to 13 dashes. The current column must be to the right of Column 3.

Example logic text Meaning IF (Col.4 = "14733") If column 4 is "14733" then set the current column to THEN COLUMN = $"\xFF"$ hexadecimal FF. The current column must be to the right of Column 4.

Examples: IF with COL.nnn in Format Column Calculation

In this logic text, you cannot set the value of COL.nnn - you can only enquire on the value of a column between 1 and the current column (inclusive).

Example logic text	Meaning
IF (Col.7 = "X") THEN COLUMN = "TOTAL" ENDIF	If column 7 is "X" then set the current column to "TOTAL". The current column must be to the right of Column 7.
IF (Col.4 = "14733") THEN COLUMN = Col.2 ENDIF	If column 4 is "14733" then set the current column to column 2. The current column must be to the right of Column 4.
<pre>IF ((Col.4 + Col.5)* COl.6</pre>	If column 4 and column 5 are added and then multiplied by column 6 and the result is greater than 1000 then set the current column to hexadecimal FF. The current column must be to the right of Column 6.

Syntax: COL.nnn in Format Record Filter

Introduction

COL.nnn refers to a column value where nnn is the number of that column in that view (starting at one on the leftmost column).

COL.nnn can only appear in an **inquiry** (for example "IF (COL.nnn = ?"). In Format Record Filter, nnn can be any column in the view.

Syntax for inquiry on COL.nnn in Format Record Filter

See topic "Syntax: IF statements in Format Record Filter". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: SELECTIF in Format Record Filter

Example logic text	Meaning
SELECTIF(COL.3 > 1000)	Select for output only those records with column 3 greater than 1000. Skip all other records. The code at left is a shorthand for:
	IF (COL.3 > 1000) THEN SELECT ENDIF
SELECTIF(COL.2 = "ABC")	Select for output only those records with column 2 equal to "ABC". Skip all other records.

Example logic text	Meaning
SELECTIF(NOT COL.2 = "ABC")	Select those output records with field column 2 not equal to "ABC". Skip all other records. This example gives the same result as: SKIPIF(COL.2 = "ABC")
SELECTIF(COL.2 = "A" OR COL.2 = "D")	Select for output only those records with column 2 equal to "A" or "D". Skip all other records.
SELECTIF(COL.2 = "A" AND COL.3 > 10)	Select for output only those records with column 2 equal to "A" and column 3 greater than 10. Skip all other records.
SELECTIF(COL.3 + Col.4 > Col.5)	Select for output only those records with column 3 plus column 4 is greater than column 5. Skip all other records.
SELECTIF(NOT COL.6 = ALL("-"))	Select for output those records with column 6 is not equal to all dashes. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-"))
<pre>SELECTIF(NOT COL.6 = REPEAT("-", 13))</pre>	Select for output those records with column 6 is not equal to 13 dashes. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = REPEAT("-", 13))
SELECTIF(NOT COL.6 = "\xFF")	Select for output those records with column 6 is not equal to hexadecimal FF. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = "\xFF")

Examples: SKIPIF in Format Record Filter

Example logic text	Meaning
SKIPIF(COL.3 > 1000)	Skip for output those records with column 3 greater than 1000. Select all other records. The code at left is a shorthand for: IF (COL.3 > 1000) THEN SKIP ENDIF
SKIPIF(COL.2 = "ABC")	Skip for output those records with column 2 equal to "ABC". Select all other records.
SKIPIF(NOT COL.2 = "ABC")	Skip those output records with field column 2 not equal to "ABC". Select all other records. This example gives the same result as: SELECTIF(COL.2 = "ABC")
SKIPIF(COL.2 = "A" OR COL.2 = "D")	Skip for output those records with column 2 equal to "A" or "D". Select all other records.

Example logic text Meaning SKIPIF(COL.2 = "A" AND Skip for output those records with column 2 equal to COL.3 > 10)"A" and column 3 greater than 10. Select all other records. SKIPIF(COL.3 + Col.4 > Col.5)Skip for output those records with column 3 plus column 4 is greater than column 5. Select all other records. SKIPIF(COL.6 = ALL("-")) Skip for output those records with column 6 is equal to all dashes. Select all other records. SKIPIF(COL.6 = REPEAT("-", 13)) Skip for output those records with column 6 is equal to 13 dashes. Select all other records. SKIPIF(COL.6 = "\xFF") Skip for output those records with column 6 is equal

to hexadecimal FF. Select all other records.

Examples: IF with SELECT in Format Record Filter

Example logic text	Meaning
IF (COL.3 > 1000) THEN SELECT ENDIF	Select for output only those records with column 3 greater than 1000. Skip all other records. The code at left can also be written as: SELECTIF(COL.3 > 1000)
<pre>IF (COL.2 = "ABC") THEN SELECT ENDIF</pre>	Select for output only those records with column 2 equal to "ABC". Skip all other records.
<pre>IF NOT (COL.2 = "ABC") THEN SELECT ENDIF</pre>	Select those output records with field column 2 not equal to "ABC". Skip all other records. The code at left gives the same result as: SKIPIF(COL.2 = "ABC")
<pre>IF (COL.2 = "A") OR (COL.2 = "D") THEN SELECT ENDIF</pre>	Select for output only those records with column 2 equal to "A" or "D". Skip all other records.
<pre>IF (COL.2 = "A") AND (COL.3 > 10) THEN SELECT ENDIF</pre>	Select for output only those records with column 2 equal to "A" and column 3 greater than 10. Skip all other records.
IF (COL.3 + Col.4 > Col.5 * 100) THEN SELECT ENDIF	Select for output only those records with column 3 plus column 4 is greater than column 5 times 100. Skip all other records.
<pre>IF NOT (COL.6 = ALL("-")) THEN SELECT ENDIF</pre>	Select for output those records with column 6 is not equal to all dashes. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-"))

```
IF (COL.6 = REPEAT("-", 13))
  THEN SELECT
ENDIF
IF (COL.6 = "\xspace")
  THEN SELECT
ENDIF
IF (COL.2 = "A") AND
   (COL.3 > 10)
THEN SELECT
ELSE IF (COL.2 "D")
    THEN SELECT
     ELSE IF (COL.2 "G")
          THEN SELECT
          ENDIF
     ENDIF
ENDIF
```

```
IF (COL.2 = "A") AND
   (COL.3 > 10)
THEN IF (COL.4 + COL.5
         > COL.6)
     THEN SELECT
     ELSE IF (COL.7 = 0)
          THEN SELECT
          ENDIF
     ENDIF
ENDIF
```

Meaning

Select for output those records with column 6 is equal to 13 dashes. Skip all other records.

Select for output those records with column 6 is equal to hexadecimal FF. Skip all other records.

Select for output those records with column 2 equal to "A" and column 3 greater than 10.

Also select for output those records with column 2 equal to "D".

Also select for output those records with column 2 equal to "G".

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SELECT
ENDIF
```

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, select for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet selected, select also for output those records with column 7 equal to zero.

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
   ((COL.4 + COL.5 > COL.6)) OR
   (COL.7 = 0))
   THEN SELECT
ENDIF
```

Examples: IF with SKIP in Format Record Filter

Example logic text	Meaning
IF (COL.3 > 1000) THEN SKIP ENDIF	Skip for output those records with column 3 greater than 1000. Select all other records. The code at left can also be written as: SKIPIF(COL.3 > 1000)
<pre>IF (COL.2 = "ABC") THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "ABC". Select all other records.
<pre>IF NOT (COL.2 = "ABC") THEN SKIP ENDIF</pre>	Skip those output records with field column 2 not equal to "ABC". Select all other records. The code at left gives the same result as: SELECTIF(COL.2 = "ABC")
<pre>IF (COL.2 = "A") OR (COL.2 = "D") THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" or "D". Select all other records.
<pre>IF (COL.2 = "A") AND (COL.3 > 10) THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" and column 3 greater than 10. Select all other records.
IF (COL.3 + Col.4 > Col.5 * 100) THEN SKIP ENDIF	Skip for output those records with column 3 plus column 4 is greater than column 5 times 100. Select all other records.
<pre>IF (COL.6 = ALL("-")) THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to all dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-"))
<pre>IF (COL.6 = REPEAT("-", 13)) THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to 13 dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = REPEAT("-", 13))
<pre>IF (COL.6 = "\xFF") THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to hexadecimal FF. Select all other records. This example gives the same result as: SKIPIF(COL.6 = "\xFF")

```
IF (COL.2 = "A") AND
(COL.3 > 10)
THEN SKIP
ELSE IF (COL.2 = "D")
THEN SKIP
ELSE IF (COL.2 = "G")
THEN SKIP
ENDIF
ENDIF
```

IF (COL.2 = "A") AND (COL.3 > 10) THEN IF (COL.4 + COL.5 > COL.6) THEN SKIP ELSE IF (COL.7 = 0) THEN SKIP ENDIF ENDIF ENDIF

Meaning

Skip for output those records with column 2 equal to "A" and column 3 greater than 10.

In addition, skip for output those records with column 2 equal to "D".

In addition, skip for output those records with column 2 equal to "G".

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SKIP
ENDIF
```

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, skip for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet skipped, skip also for output those records with column 7 equal to zero.

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
   ((COL.4 + COL.5 > COL.6) OR
   (COL.7 = 0))
   THEN SKIP
ENDIF
```

Syntax: IF statements

Syntax: IF statements in Extract Record Filter

Introduction

IF statements can be part of any logic text. An IF statement allows a condition to control if one or more statements are executed.

IF statements are allowed in all logic text, although the statements that can be called from an IF statement depend on the particular logic text.

An IF statement can call another IF statement - this is called "nesting" of IF statements, and is allowed in all logic text.

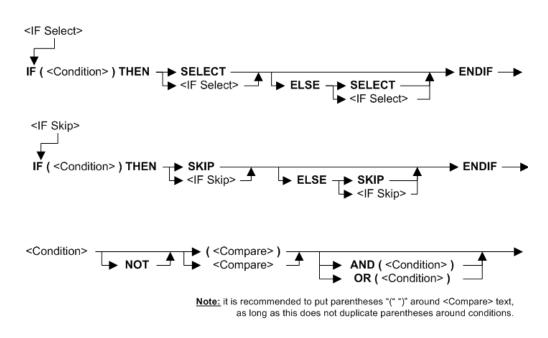
The details of what conditions and what statements are allowed in an IF statement in Extract Record Filter are shown below.

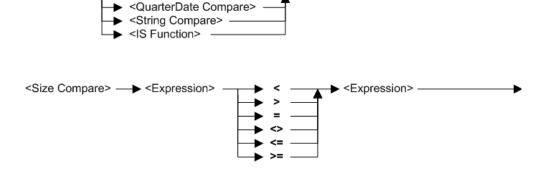
How the syntax works

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

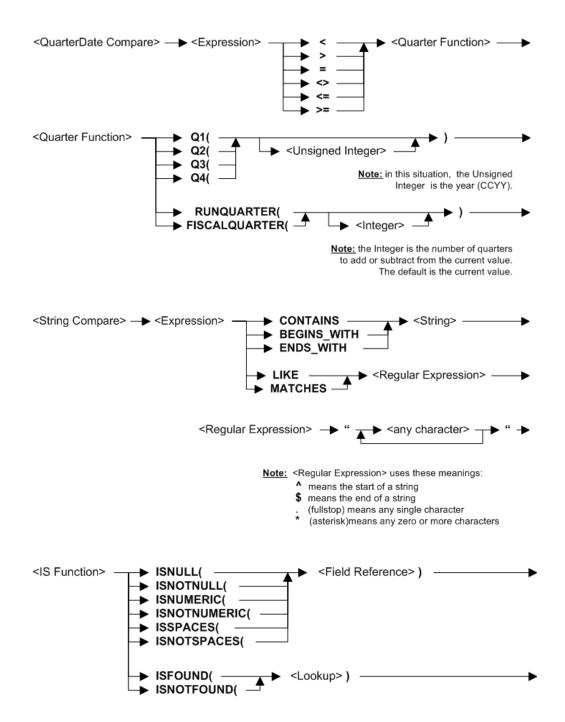
TEXT Indicates a keyword or punctuation (case does not matter)

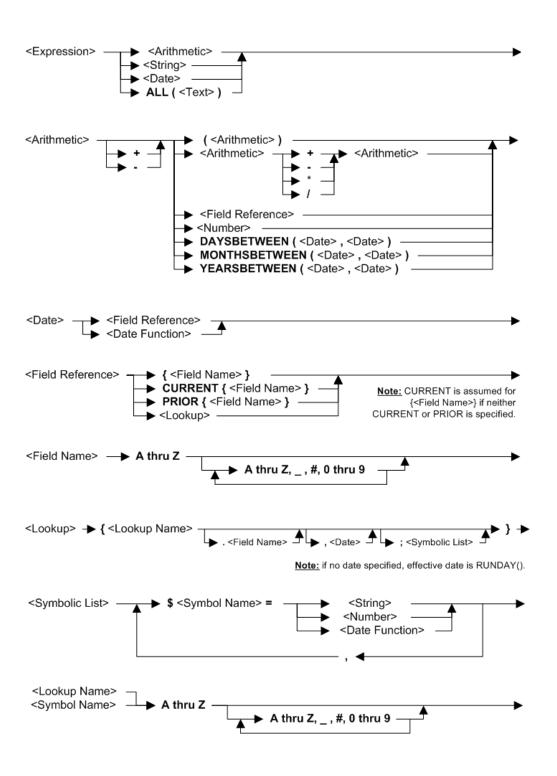
Syntax

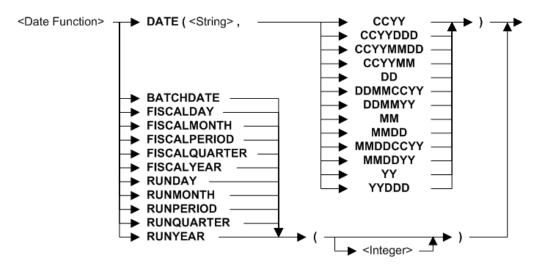




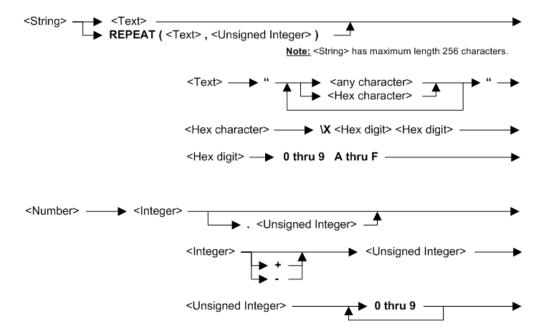
<Size Compare>







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



Rules for the syntax

See topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: IF with SELECT in Extract Record Filter

Example logic text	Meaning
<pre>IF (CURRENT({field1}) <> PRIOR({field1})) THEN SELECT ENDIF</pre>	Select only records with unique values for field1. This assumes the input file is sorted into field1 order. This example can also be written:
	<pre>SELECTIF(CURRENT({field1}) <> PRIOR({field1}))</pre>

IF ($\{field3\} > 1000\}$ THEN SELECT **ENDIF** IF $(\{field2\} = "ABC")$ THEN SELECT ENDIF IF NOT ({field2} = "ABC") THEN SELECT **ENDIF** IF $(\{field2\} = "ABC")$ OR ({field2} = "DEF") THEN SELECT **FNDTF** IF ({field2} = "ABC") AND $(\{field3\} > 1000)$ THEN SELECT **ENDIF** IF ($\{field3\} + \{field4\} >$ {field5} * 100) THEN SELECT ENDIF IF NOT $(\{field6\} = ALL("-"))$ THEN SELECT **ENDIF** IF ({field6} = REPEAT("-", 13)) THEN SELECT **ENDIF** IF $(\{field6\} = "\xff")$ THEN SELECT

ENDIF

Meaning

Select for output only those records with field3 greater than 1000. Skip all other records. The code at left can also be written as: SELECTIF({field3} > 1000) Select for output only those records with field2 equal to "ABC". Skip all other records. Select those output records with field2 not equal to "ABC". Skip all other records. The code at left gives the same result as: SKIPIF({field2} = "ABC") Select for output only those records with field2 equal to "ABC" or "DEF". Skip all other records. Select for output only those records with field2 equal to "ABC" and field3 greater than 1000. Skip all other records.

Select for output only those records with field3 plus field4 is greater than field5 times 100. Skip all other records.

Select for output those records with field6 is not equal to all dashes. Skip all other records. This example gives the same result as:

SKIPIF({field6} = ALL("-"))

Select for output those records with field6 is equal to 13 dashes. Skip all other records.

Select for output those records with field6 is equal to hexadecimal FF. Skip all other records.

Example logic text IF ({field2} = "ABC") AND ({field3} > 10) THEN SELECT ELSE IF ({field2} = "DEF") THEN SELECT ELSE IF ({field2} = "GHI") THEN SELECT ENDIF ENDIF ENDIF

```
IF ISFOUND({Lookup3})
   THEN SELECT
FNDIF
```

Meaning

Select for output those records with field2 equal to "ABC" and field3 greater than 10.

In addition, select for output those records with field2 equal to "DEF".

In addition, select for output those records with field2 equal to "GHI".

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

Consider those records with field2 equal to "ABC" and field3 greater than 10.

Of the considered records, select for output those records with field4 plus field5 is greater then field6.

Of the considered records not yet selected, select also for output those records with field7 equal to zero.

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

Select all input records where the lookup path Lookup3 successfully finds a target record, and skip all other records. This example is the same as:

```
SELECTIF(ISFOUND({Lookup3})
```

Example logic text IF ISFOUND({Lookup3,field7}) THEN SELECT ENDIF	Meaning Select all input records where the lookup path Lookup3 successfully finds a target record using effective date of field7, and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3,field7})
<pre>IF ISFOUND({Lookup3;\$SYM="A"}) THEN SELECT ENDIF</pre>	Select all input records where the lookup path Lookup3 successfully finds a target record using symbol SYM set to "A", and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3;\$SYM="A"})
<pre>IF ISFOUND({Lookup3,</pre>	Select all input records where the lookup path Lookup3 successfully finds a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3, field7;\$SYM1=3,\$SYM2=0})
<pre>IF DAYSBETWEEN({field1},{field2})</pre>	Select only records where there are more than 7 days between field1 and field2, and skip all other records This example can also be written: SELECTIF(DAYSBETWEEN({field1},{field2}) > 7)
IF ({field1} BEGINS_WITH "BBB") THEN SELECT ENDIF	Select input records where field1 begins with characters "BBB", and skip all other records. This example can be written: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field2} CONTAINS "CCC") THEN SELECT ENDIF	Select input records where field2 contains characters "CCC", and skip all other records. This example can be written: SELECTIF({field2} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field3} ENDS_WITH "EEE") THEN SELECT ENDIF	Select input records where field3 ends with characters "EEE", and skip all other records. This example can be written: SELECTIF({field3} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field4} MATCHES "") THEN SELECT ENDIF	Select input records where field4 matches characters "", and skip all other records. This example can be written: SELECTIF({field4} MATCHES "")

Example logic text IF ({field1} LIKE "^BBB*") THEN SELECT ENDIF	Meaning Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
<pre>IF ({field1} LIKE "*CCC*") THEN SELECT ENDIF</pre>	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as: SELECTIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field1} LIKE "*EEE\$") THEN SELECT ENDIF	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as: SELECTIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
<pre>IF ({field1} LIKE "^B*C*E\$") THEN SELECT ENDIF</pre>	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records.

Examples: IF with SKIP in Extract Record Filter

Example logic text	Meaning
<pre>IF (CURRENT({field1}) = PRIOR({field1})) THEN SKIP ENDIF</pre>	Skip records where field1 is the same as the previous record. This assumes the input file is sorted into field1 order. This example can also be written:
	<pre>SKIPIF(CURRENT({field1}) = PRIOR({field1}))</pre>
IF ({field3} > 1000) THEN SKIP ENDIF	Skip for output those records with field3 greater than 1000. Select all other records. The code at left can also be written as: SKIPIF({field3} > 1000)
<pre>IF ({field2} = "ABC") THEN SKIP ENDIF</pre>	Skip for output those records with field2 equal to "ABC". Select all other records.
<pre>IF NOT ({field2} = "ABC") THEN SKIP ENDIF</pre>	Skip those output records with field2 not equal to "ABC". Select all other records. The code at left gives the same result as: SELECTIF({field2} = "ABC")

```
IF (\{field2\} = "A"\} OR
   (\{field2\} = "D")
   THEN SKIP
ENDIF
IF (\{field2\} = "A"\} AND
   (\{field3\} > 10)
   THEN SKIP
ENDIF
IF ({field3} + {field4}
    > {field5})
   THEN SKIP
ENDIF
IF \{\{field6\} = ALL("-")\}
   THEN SKIP
ENDIF
IF ({field6} = REPEAT("-", 13))
   THEN SKIP
ENDIF
IF (\{field6\} = "\xff"\}
   THEN SKIP
ENDIF
IF (\{field2\} = "A") AND
   (\{field3\} > 10)
THEN SKIP
ELSE IF ({field2} = "D")
     THEN SKIP
     ELSE IF ({field2} = "G")
          THEN SKIP
          ENDIF
     ENDIF
```

ENDIF

Meaning

Skip for output those records with field2 equal to "A" or "D". Select all other records.

Skip for output those records with field2 equal to "A" and field3 greater than 10. Select all other records.

Skip for output those records with field3 plus field4 is greater than field5. Select all other records.

Skip for output those records with field6 is equal to all dashes. Select all other records. This example gives the same result as:

SKIPIF({field6} = ALL("-"))

Skip for output those records with field6 is equal to 13 dashes. Select all other records. This example gives the same result as:

SKIPIF({field6} = REPEAT("-", 13))

Skip for output those records with field6 is equal to hexadecimal FF. Select all other records. This example gives the same result as:

SKIPIF({field6} = "\xFF")

Skip for output those records with field2 equal to "A" and field3 greater than 10.

In addition, skip for output those records with field2 equal to "D".

In addition, skip for output those records with field2 equal to "G".

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

Example logic text IF ISNOTFOUND({Lookup4}) THEN SKIP ENDIF	Meaning Skip all input records where the lookup path Lookup4 does not successfully find a target record, and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4}))
<pre>IF ISNOTFOUND({Lookup4,field7}) THEN SKIP ENDIF</pre>	Skip all input records where the lookup path Lookup4 does not successfully find a target record using effective date of field7, and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4,field7})
<pre>IF ISNOTFOUND({Lookup4;\$SYM="A"}) THEN SKIP ENDIF</pre>	Skip all input records where the lookup path Lookup4 does not successfully find a target record using symbol SYM set to "A", and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4;\$SYM="A"})
<pre>IF ISNOTFOUND ({Lookup4,field7;\$SYM1=3,\$SYM2=0}) THEN SKIP ENDIF</pre>	Skip all input records where the lookup path Lookup4 does not successfully find a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4, field7;\$SYM1=3,\$SYM2=0})
<pre>IF DAYSBETWEEN({field1},{field2})</pre>	Skip records where there are more than 7 days between field1 and field2, and select all other records. This example can also be written: SKIPIF(DAYSBETWEEN({field1},{field2}) > 7)
IF ({field1} BEGINS_WITH "BBB") THEN SKIP ENDIF	Skip input records where field1 begins with characters "BBB", and select all other records. This example can be written: SKIPIF({field1} BEGINS_WITH "BBB") It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field2} CONTAINS "CCC") THEN SKIP ENDIF	Skip input records where field2 contains characters "CCC", and select all other records. This example can be written: SKIPIF({field2} CONTAINS "CCC")
IF ({field3} ENDS_WITH "EEE") THEN SKIP ENDIF	It is better to use CONTAINS because the logic text executes faster. Skip input records where field3 ends with characters "EEE", and select all other records. This example can be written: SKIPIF({field3} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.

Example logic text	Meaning
IF ({field4} MATCHES "") THEN SKIP ENDIF	Skip input records where field4 matches characters "", and select all other records. This example can be written: SKIPIF({field4} MATCHES "")
IF ({field1} LIKE "^BBB*") THEN SKIP ENDIF	Skip input records where field1 begins with characters "BBB", and select all other records. This example has the same effect as: SKIPIF({field1} BEGINS_WITH "BBB") It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field1} LIKE "*CCC*") THEN SKIP ENDIF	Skip input records where field1 contains characters "CCC", and select all other records. This example has the same effect as: SKIPIF({field1} CONTAINS "CCC") It is better to use CONTAINS because the logic text executes faster.
IF ({field1} LIKE "*EEE\$") THEN SKIP ENDIF	Skip input records where field1 ends with characters "EEE", and select all other records. This example has the same effect as: SKIPIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field1} LIKE "^B*C*E\$") THEN SKIP ENDIF	Skip input records where field1 begins with "B", contains "C" and ends with "E", and select all other records.

Syntax: IF statements in Extract Column Assignment Introduction

IF statements can be part of any logic text. An IF statement allows a condition to control if one or more statements are executed.

IF statements are allowed in all logic text, although the statements that can be called from an IF statement depend on the particular logic text.

An IF statement can call another IF statement - this is called "nesting" of IF statements, and is allowed in all logic text.

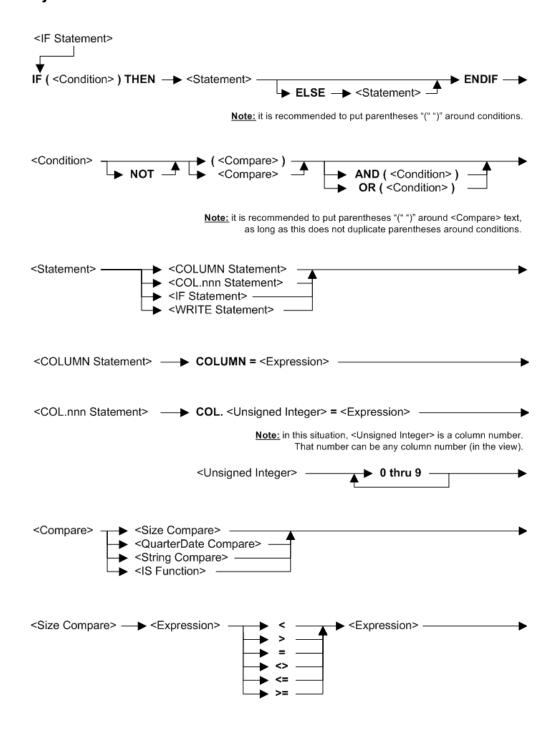
The details of what conditions and what statements are allowed in an IF statement in Extract Column Assignment are shown below.

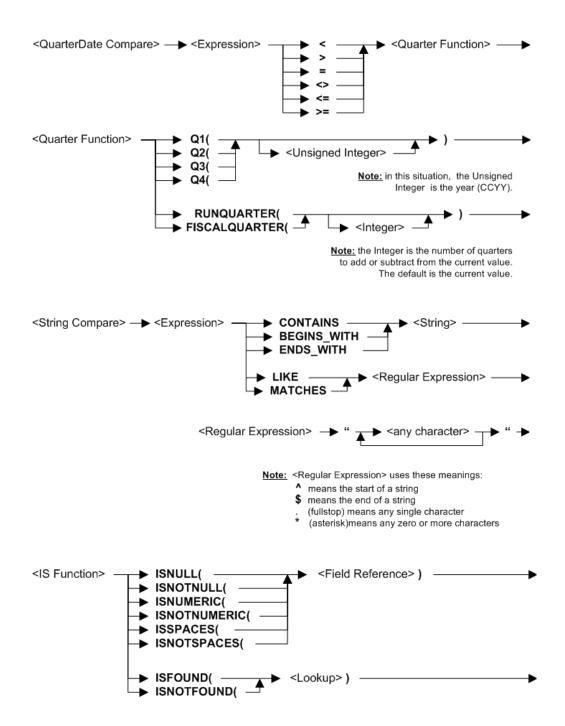
How the syntax works

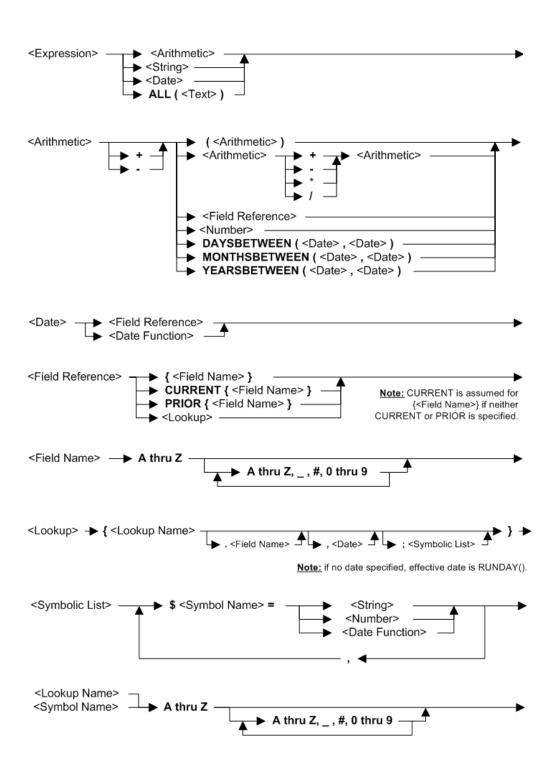
Indicates a reference to another part of this syntax. <text>

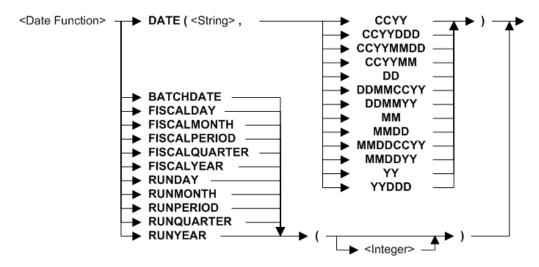
TEXT Indicates a keyword or punctuation (case does not matter)

Syntax

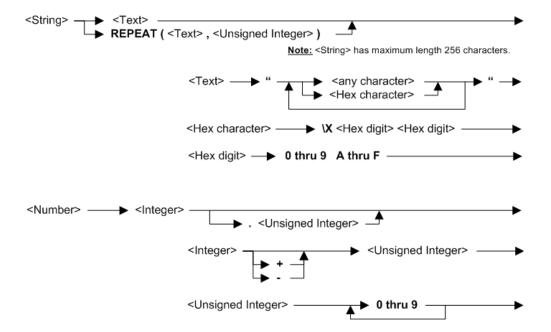








Note: In this situation, <Integer> means the number of units to add or subtract from the current value.



Rules for the syntax

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: IF with COLUMN and COL.nnn in Extract Column Assignment

In all the following examples, **COLUMN** can be replaced by **COL.nnn**, for example COL.3. You can set the value of any COL.nnn from any other column. You can create multiple IF statements in Extract Column Assignment logic text. However, you cannot inquire on COL.nnn (for example, IF COL.4 = 0 is not allowed).

```
IF (\{field1\} > 0) THEN
   COLUMN = (\{field2\}/\{field1\}) * 100
   COL.27 = {field1} * {field26}
  COL.28 = {field14} + {field1}
ELSE
  COLUMN = 0
  COL.27 = 0
  COL.28 = 0
ENDIF
IF (CURRENT({field5}) <> PRIOR({field5}))
  THEN COLUMN = "PRODUCT: "
  ELSE COLUMN = " "
IF ({field5} = "Total")
  THEN COLUMN = ALL("-")
ENDIF
IF \{field6\} = ALL("-")
   THEN COLUMN = {field2} + {field3}
ENDIF
IF ({field5} = "Total")
  THEN COLUMN = REPEAT("-", 13)
ENDIF
IF ({field6} = REPEAT("-", 13))
  THEN COLUMN = {field2} + {field3}
ENDIF
IF ({field5} = "Total")
  THEN COLUMN = "\xFF"
ENDIF
IF (\{field6\} = "\xff")
  THEN COLUMN = {field2} + {field3}
ENDIF
IF ISNOTSPACES({field1})
  THEN COLUMN = {field1}
   ELSE COLUMN = "DEFAULT"
ENDIF
IF ISFOUND({Lookup1})
  THEN COLUMN = {Lookup1}
   ELSE COLUMN = " "
ENDIF
```

Meaning

If field1 is greater than zero then set the current column to field2 divided by field1 all multiplied by 100, set column 27 to field1 times field26 and set column 28 to field 14 plus field1. If field1 is not greater than zero then set the current column and columns 27 and 28 to zero.

If the current record has a different value of field5 from the previous record, set the current column to "PRODUCT: " otherwise set the current column to blank. This assumes the input file is sorted into field5 order.

If field5 is "Total" then set the current column to all dashes.

If field6 is all dashes, then set the current column to a total of fields 2 and 3.

If field5 is "Total" then set the current column to 13 dashes.

If field6 is 13 dashes, then set the current column to a total of fields 2 and 3.

If field5 is "Total" then set the current column to hexadecimal FF.

If field6 is hexadecimal FF, then set the current column to a total of fields 2 and 3.

If field1 is not spaces then set the current column to field1, otherwise set the current column to "DEFAULT".

If the lookup path Lookup1 uses the current record to successfully find a target record, then set the current column to the lookup path field found, otherwise set the current column to blank.

Example logic text IF ISFOUND({Lookup2;\$SYM="A"}) THEN COLUMN = {Lookup2;\$SYM="A"} ELSE COLUMN = 0**ENDIF** IF ISNULL({field4} THEN COLUMN = "EMPTY" ELSE COLUMN = {field4} **ENDIF** IF ISNUMERIC({field4} THEN COLUMN = {field4} * 100 ELSE COLUMN = 0**ENDIF** IF (DAYSBETWEEN({BUY DATE}, {SHIP DATE}) > 10) THEN COLUMN = {SHIP_DATE} ELSE COLUMN = {BUY DATE} ENDIF IF ({field1} BEGINS WITH "BBB") THEN COLUMN = {field1} ELSE COLUMN = " " **ENDIF** IF ({field2} CONTAINS "CCC") THEN COLUMN = {field2} ELSE COLUMN = " " **ENDIF** IF ({field3} ENDS WITH "EEE") THEN COLUMN = $\{field3\}$ ELSE COLUMN = " " ENDIF IF ({field4} MATCHES "...") THEN COLUMN = {field4} ELSE COLUMN = " " **FNDTF** IF ({field1} LIKE "MA...") THEN COLUMN = {field1} ELSE COLUMN = " " **ENDIF** IF ({field1} LIKE "..VA..") THEN COLUMN = {field1} ELSE COLUMN = " " **ENDIF** IF ({field1} LIKE "....NA") THEN COLUMN = {field1} ELSE COLUMN = " "

ENDIF

Meaning

If the lookup path Lookup2 using symbol SYM set to "A", then set the current column to that lookup field, otherwise set the current column to zero.

If field4 for the current record contains null values, then set the current column to "EMPTY", otherwise set the current column to field4.

If field4 for the current record is numeric, then set the current column to field4 times 100, otherwise set the current column to zero.

If there are more than 10 days between the transaction date and the shipping date, then set the current column to the shipping date, otherwise set the current column to the transaction date.

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to blank.

If field2 contains characters "CCC" then set the current column to field2, otherwise set the current column to blank.

If field3 ends with characters "EEE" then set the current column to field3, otherwise set the current column to blank.

If field4 matches characters "..." then set the current column to field4, otherwise set the current column to blank.

Select input records where field1 is exactly 5 characters starting with "MA", and skip all other records.

Select input records where field1 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.

Select input records where field1 is exactly 6 characters ending in "NA", and skip all other records.

```
IF ({field1} LIKE "^BBB*")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "*CCC*")
  THEN COLUMN = {field1}
ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "*EEE$")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1} LIKE "^B*C*E$")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
```

Meaning

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to blank.

If field1 contains characters "CCC" then set the current column to field1, otherwise set the current column to blank.

If field1 ends with characters "EEE" then set the current column to field1, otherwise set the current column to blank.

If field1 begins with "B", contains "C" and ends with "E" then set the current column to field1, otherwise set the current column to blank.

Examples: IF with WRITE in Extract Column Assignment

Example logic text

IF (ISNUMERIC({field4}) AND

```
(\{field5\} > \{field6\} * 10) AND
   (ISNOTSPACES{field7}
   THEN WRITE (SOURCE=DATA,
               USEREXIT={DB2_Update})
ENDIF
IF (ISNOTNULL({field3}) AND
   (\{field2\} = \{field1\} + \{field5\}
   THEN WRITE (SOURCE=INPUT,
               DEST=FILE=
                   {LogicalFile3})
ENDIF
IF (DAYSBETWEEN({field12}, {field15})
     > 10) AND
   (ISFOUND({Lookup3;$SYM="A"}))
   THEN WRITE (SOURCE=VIEW,
               DEST=EXT=03)
ENDIF
```

Meaning

If field4 is numeric and field5 is greater than field6 times 10 and field7 is not spaces, then call the user-exit routine DB2_Update for the columns up to the current point. This effectively does a writes to a DB2 table the columns in that record up to the current point.

If field3 is not nulls and field2 equals field1 plus field 5 then write the entire input record to LogicalFile3. All columns in the input record are included, no matter what column contains this logic text.

If field12 and field15 are more than 10 days apart and the lookup path Lookup3 works with symbol SYM set to "A", then write the columns up to the current point to extract work file (EXT) 3. This assumes that the control record for this environment has a Maximum Extract File Number that is at least 3, or any overwrite of the VDP has also set this parameter to at least 3.

Syntax: IF statements in Format Column Calculations Introduction

IF statements can be part of any logic text. An IF statement allows a condition to control if one or more statements are executed.

IF statements are allowed in all logic text, although the statements that can be called from an IF statement depend on the particular logic text.

An IF statement can call another IF statement - this is called "nesting" of IF statements, and is allowed in all logic text.

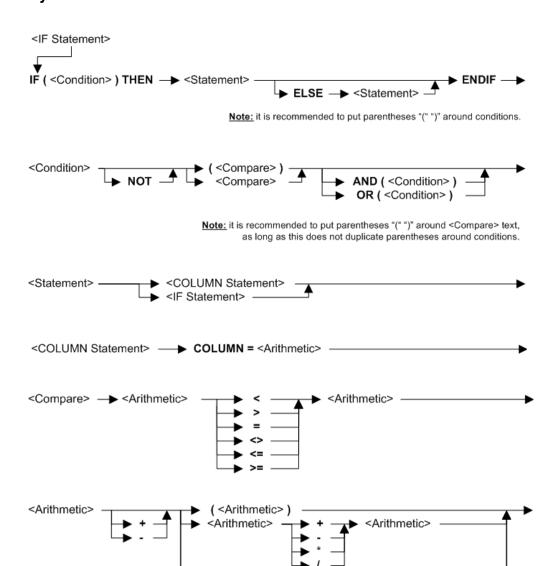
The details of what conditions and what statements are allowed in an IF statement in Format Column Calculations are shown below.

How the syntax works

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

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

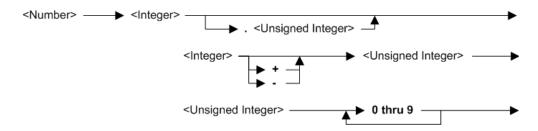
Syntax



COL. <Unsigned Integer>

<Number>

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



Rules for the syntax

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: IF with COLUMN in Format Column Calculation

You must set a value of COLUMN.

Example logic text	Meaning
IF (Col.7 = 999) THEN COLUMN = "TOTAL" ENDIF	If column 7 is 999 then set the current column to "TOTAL". The current column must be to the right of Column 7.
<pre>IF (Col.7 = 999) THEN COLUMN = Col.3 * Col.4 ENDIF</pre>	If column 7 is 999 then set the current column to column 3 times column 4. The current column must be to the right of Column 7.
<pre>IF (Col.2 = Col.3) THEN COLUMN = ALL("-") ENDIF</pre>	If column 2 equals column 3 then set the current column to all dashes. The current column must be to the right of Column 3.
<pre>IF (Col.2 = Col.3) THEN COLUMN =</pre>	If column 2 equals column 3 then set the current column to 13 dashes. The current column must be to the right of Column 3.
<pre>IF (Col.4 = "14733") THEN COLUMN = "\xFF" ENDIF</pre>	If column 4 is "14733" then set the current column to hexadecimal FF. The current column must be to the right of Column 4.

Examples: IF with COL.nnn in Format Column Calculation

In this logic text, you cannot set the value of COL.nnn - you can only enquire on the value of a column between 1 and the current column (inclusive).

Example logic text	Meaning
<pre>IF (Col.7 = "X") THEN COLUMN = "TOTAL" ENDIF</pre>	If column 7 is "X" then set the current column to "TOTAL". The current column must be to the right of Column 7.
IF (Col.4 = "14733") THEN COLUMN = Col.2 ENDIF	If column 4 is "14733" then set the current column to column 2. The current column must be to the right of Column 4.

Meaning

If column 4 and column 5 are added and then multiplied by column 6 and the result is greater than 1000 then set the current column to hexadecimal FF. The current column must be to the right of Column 6.

Syntax: IF statements in Format Record Filter

Introduction

IF statements can be part of any logic text. An IF statement allows a condition to control if one or more statements are executed.

IF statements are allowed in all logic text, although the statements that can be called from an IF statement depend on the particular logic text.

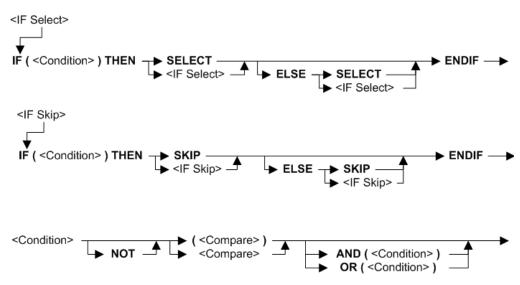
An IF statement can call another IF statement - this is called "nesting" of IF statements, and is allowed in all logic text.

The details of what conditions and what statements are allowed in an IF statement in Format Record Filter are shown below.

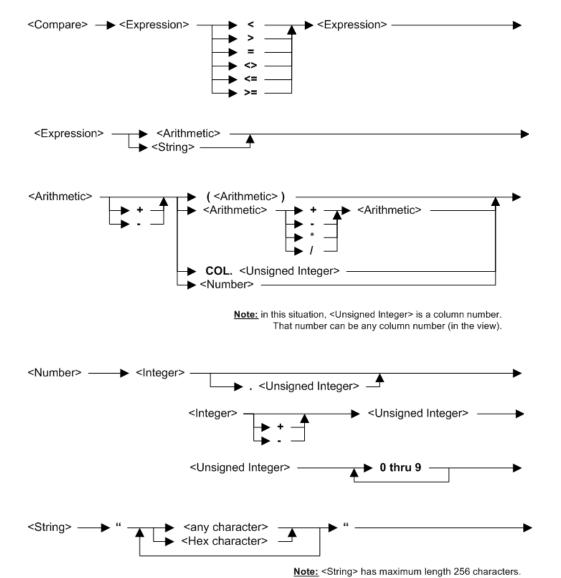
How the syntax works

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

Syntax



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



Rules for the syntax

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

<Hex digit> - 0 thru 9 A thru F -

Examples: IF with SELECT in Format Record Filter

Example logic text	Meaning
IF (COL.3 > 1000) THEN SELECT ENDIF	Select for output only those records with column 3 greater than 1000. Skip all other records. The code at left can also be written as:
	SELECTIF(COL.3 > 1000)

IF (COL.2 = "ABC") THEN SELECT ENDIF

IF NOT (COL.2 = "ABC")
 THEN SELECT

ENDIF

IF (COL.2 = "A") OR
 (COL.2 = "D")
 THEN SELECT

ENDIF

IF (COL.2 = "A") AND (COL.3 > 10) THEN SELECT

ENDIF

IF (COL.3 + Col.4 > Col.5 * 100) THEN SELECT

ENDIF

IF NOT (COL.6 = ALL("-"))
THEN SELECT

ENDIF

IF (COL.6 = REPEAT("-", 13))
 THEN SELECT
ENDIF

IF (COL.6 = "\xFF")
THEN SELECT

ENDIF

Meaning

Select for output only those records with column 2 equal to "ABC". Skip all other records.

Select those output records with field column 2 not equal to "ABC". Skip all other records. The code at left gives the same result as:

SKIPIF(COL.2 = "ABC")

Select for output only those records with column 2 equal to "A" or "D". Skip all other records.

Select for output only those records with column 2 equal to "A" and column 3 greater than 10. Skip all other records.

Select for output only those records with column 3 plus column 4 is greater than column 5 times 100. Skip all other records.

Select for output those records with column 6 is not equal to all dashes. Skip all other records. This example gives the same result as:

SKIPIF(COL.6 = ALL("-"))

Select for output those records with column 6 is equal to 13 dashes. Skip all other records.

Select for output those records with column 6 is equal to hexadecimal FF. Skip all other records.

```
IF (COL.2 = "A") AND
(COL.3 > 10)
THEN SELECT
ELSE IF (COL.2 "D")
THEN SELECT
ELSE IF (COL.2 "G")
THEN SELECT
ENDIF
ENDIF
```

```
IF (COL.2 = "A") AND (COL.3 > 10)
THEN IF (COL.4 + COL.5 > COL.6)
THEN SELECT
ELSE IF (COL.7 = 0)
THEN SELECT
ENDIF
ENDIF
ENDIF
```

Meaning

Select for output those records with column 2 equal to "A" and column 3 greater than 10.

Also select for output those records with column 2 equal to "D".

Also select for output those records with column 2 equal to "G".

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SELECT
ENDIF
```

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, select for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet selected, select also for output those records with column 7 equal to zero.

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
    ((COL.4 + COL.5 > COL.6) OR
    (COL.7 = 0))
    THEN SELECT
ENDIF
```

Examples: IF with SKIP in Format Record Filter

Example logic text

IF (COL.3 > 1000) THEN SKIP ENDIF

Meaning

Skip for output those records with column 3 greater than 1000. Select all other records. The code at left can also be written as: SKIPIF(COL.3 > 1000)

Meaning

IF (COL.2 = "ABC") THEN SKIP ENDIF	Skip for output those records with column 2 equal to "ABC". Select all other records.
<pre>IF NOT (COL.2 = "ABC") THEN SKIP ENDIF</pre>	Skip those output records with field column 2 not equal to "ABC". Select all other records. The code at left gives the same result as: SELECTIF(COL.2 = "ABC")
<pre>IF (COL.2 = "A") OR (COL.2 = "D") THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" or "D". Select all other records.
<pre>IF (COL.2 = "A") AND (COL.3 > 10) THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" and column 3 greater than 10. Select all other records.
IF (COL.3 + Col.4 > Col.5 * 100) THEN SKIP ENDIF	Skip for output those records with column 3 plus column 4 is greater than column 5 times 100. Select all other records.
IF (COL.6 = ALL("-")) THEN SKIP ENDIF	Skip for output those records with column 6 is equal to all dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-"))
<pre>IF (COL.6 = REPEAT("-", 13)) THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to 13 dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = REPEAT("-", 13))
<pre>IF (COL.6 = "\xFF") THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to hexadecimal FF. Select all other records. This example gives the same result as: SKIPIF(COL.6 = "\xFF")

```
IF (COL.2 = "A") AND
(COL.3 > 10)
THEN SKIP
ELSE IF (COL.2 = "D")
THEN SKIP
ELSE IF (COL.2 = "G")
THEN SKIP
ENDIF
ENDIF
```

IF (COL.2 = "A") AND (COL.3 > 10) THEN IF (COL.4 + COL.5 > COL.6) THEN SKIP ELSE IF (COL.7 = 0) THEN SKIP ENDIF ENDIF ENDIF

Meaning

Skip for output those records with column 2 equal to "A" and column 3 greater than 10.

In addition, skip for output those records with column 2 equal to "D".

In addition, skip for output those records with column 2 equal to "G".

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SKIP
ENDIF
```

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, skip for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet skipped, skip also for output those records with column 7 equal to zero.

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
    ((COL.4 + COL.5 > COL.6) OR
    (COL.7 = 0))
    THEN SKIP
ENDIF
```

Syntax: lookup paths

How do I use lookup paths?

A lookup path is a method to use one logical file to lookup a record in another logical file. For an introduction, see topic "Lookup paths overview". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

In <u>logic text</u>, lookup paths are <u>only used in the extract phase</u>, where you can use lookup paths to provide values for columns in view data. You can also use the ISFOUND and ISNOTFOUND functions to check if the lookup path is successful in each particular case.

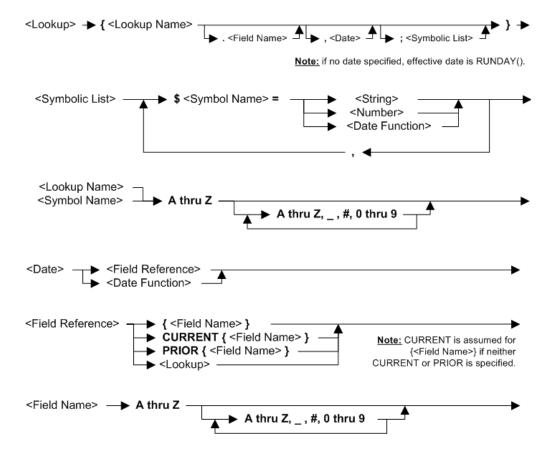
Lookup paths are <u>used in the format phase</u> only in the Sort Key Title field, which is part of the definition of a sort column in a view. There is no logic text syntax for lookup paths in the format phase.

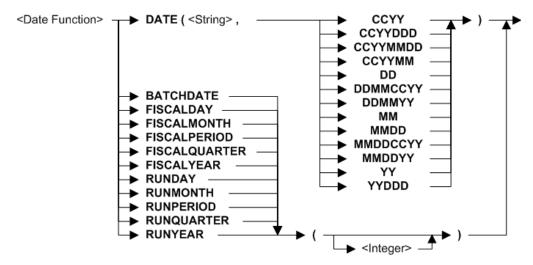
How the syntax works

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

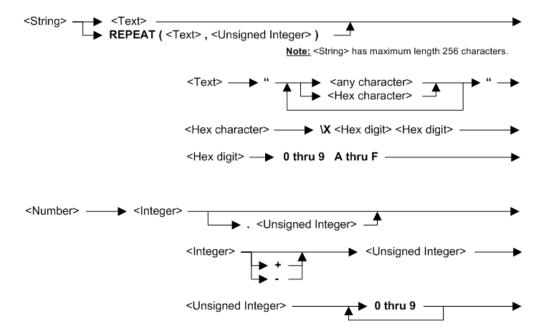
TEXT Indicates a keyword or punctuation (case does not matter)

Syntax





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



Rules for the syntax

Lookups can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: lookup paths in Extract Record Filter

Example logic text

Meaning

Example logic text Meaning IF ISFOUND({Lookup3}) Select all input records where the lookup path THEN SELECT Lookup3 successfully finds a target record, **FNDIF** and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3}) IF ISFOUND({Lookup3.Field4}) Select all input records where the lookup path THEN SELECT Lookup3 successfully finds a target field of **ENDIF** Field4, and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3.Field4}) IF ISFOUND({Lookup2,field7}) Select all input records where the lookup path THEN SELECT Lookup2 successfully finds a target record **ENDIF** using effective date of field7, and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup2,field7}) IF ISFOUND({Lookup2;\$SYM="ABC"}) Select all input records where the lookup path THEN SELECT Lookup2 successfully finds a target record **ENDIF** using symbol SYM set to "ABC", and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup2;\$SYM="ABC"}) IF ISFOUND({Lookup5, Select all input records where the lookup path field7; \$SYM1=3, \$SYM2=0)) Lookup5 successfully finds a target record THEN SELECT using effective date of field7 and symbol **ENDIF** SYM1 set to 3 and symbol SYM2 set to zero. Skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup5, field7; \$SYM1=3, \$SYM2=0}) IF ISNOTFOUND({Lookup1}) Skip all input records where the lookup path THEN SKIP Lookup1 does not successfully find a target **ENDIF** record, and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup1}) IF ISNOTFOUND({Lookup1,field7}) Skip all input records where the lookup path THEN SKIP Lookup1 does not successfully find a target **ENDIF** record using effective date of field7, and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup1, field7}) IF ISNOTFOUND({Lookup5;\$SYM1="ABC"}) Skip all input records where the lookup path THEN SKIP Lookup5 does not successfully find a target **ENDIF** record using symbol SYM1 set to "ABC", and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup5;\$SYM1="ABC"})

<pre>Example logic text IF ISNOTFOUND({Lookup2,field7 ;\$SYM1=3,\$SYM2=0}) THEN SKIP ENDIF</pre>	Meaning Skip all input records where the lookup path Lookup2 does not successfully find a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Select all other records. This example is the same as:
	<pre>SKIPIF(ISNOTFOUND({Lookup2,field7 ;\$SYM1=3,\$SYM2=0})</pre>

Examples: lookup paths in Extract Column Assignment

Example logic text	Meaning
COLUMN = {Lookup1.Field2}	Set the current column using lookup path Lookup1 to provide Field2 in the target logical record.
<pre>COLUMN = {Lookup1.Field2,Field7}</pre>	Set the current column using lookup path Lookup1 to provide Field2 in the target logical record using effective date of Field7.
<pre>COLUMN = {Lookup1.Field2,;\$SYM="ABC"}</pre>	Set the current column using lookup path Lookup1 to provide Field2 in the target logical record using symbol SYM set to 'ABC".
COLUMN = {Lookup3.Field4, Field7;\$SYM1=3,\$SYM2=0}	Set the current column using lookup path Lookup3 to provide Field4 in the target logical record using effective date of Field7 and symbols SYM1 set to 3 and SYM2 set to zero.
<pre>IF ISFOUND({Lookup4;\$SYM="A"}) THEN COLUMN = {Lookup4,</pre>	If lookup path Lookup4 successfully finds a value using symbol SYM set to "A", then set the current column to that lookup field, otherwise set the current column to zero.

Syntax: SELECT, SELECTIF, SKIP and SKIPIF statements

Introduction

The above statements are used to select records for processing as follows:

- In Extract Record Filter, these statements select input records for processing in the extract phase.
- In Format Record Filter, these statements select the view records for final output.

SELECT directly defines the records to select. SELECTIF means to select records based on a condition.

SKIP defines the records to skip. **SKIPIF** means skip records based on a condition.

See below for topics containing the syntax and some examples of these statements.

Syntax: SELECT and SELECTIF statements in Extract Record Filter The purpose of SELECT and SELECTIF in Extract Record Filter

In this logic text, SELECT or SELECTIF define the input records to be included in the extract phase.

If there are **no SELECT, SELECTIF, SKIP or SKIPIF statements** in Extract Record Filter, then **all input records** are selected.

The idea is that you either SELECT or SKIP but you cannot do both in the same logic text. Once you have selected records then all others are skipped. Alternatively, once you skip records then all others are selected.

SELECTIF defines the input records to select based on a condition.

SELECT must always be inside an IF statement, in a THEN or ELSE case. The path through the IF statement decides which records reach the SELECT statement.

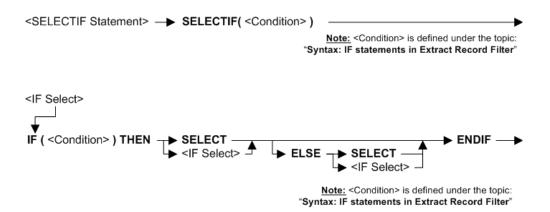
Extract Record Filter can have **one SELECTIF** or **one IF that contains one or more SELECT statements**. Once either of these is present, no SKIP or SKIPIF statements are allowed.

How the syntax works

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

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

Syntax 1 4 1



Rules for the syntax

- Extract Record Filter can have one SELECTIF statement or one IF statement that
 contains one or more SELECT statements. When one SELECTIF or SELECT is
 present, then no SKIP or SKIPIF statements are allowed.
- One IF statement can have a SELECT for the THEN or ELSE case. One IF statement can have other IF statements nested inside, which may also have SELECT statements inside. All this counts as one IF statement.

The best way to learn is the examples below. See also the topic "Syntax: IF Statements in Extract Record Filter".

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

Examples: SELECTIF in Extract Record Filter

Example logic text	Meaning
<pre>SELECTIF(CURRENT({field1}) <> PRIOR({field1}))</pre>	Select only records with unique values for field1. This assumes the input file is sorted into field1 order.
SELECTIF({field2} > 1000)	Select for output only those records with field2 greater than 1000. Skip all other records. The code at left is a shorthand for: IF {field2} > 1000 THEN SELECT ENDIF
<pre>SELECTIF({field3} = "ABC")</pre>	Select for output only those records with field3 equal to "ABC". Skip all other records.
<pre>SELECTIF(NOT {field3} = "ABC")</pre>	Select those output records with field3 not equal to "ABC". Skip all other records. This example gives the same result as: SKIPIF({field3} = "ABC")
<pre>SELECTIF({field3} = "A" OR</pre>	Select for output only those records with field3 equal to "A" or "D". Skip all other records.
<pre>SELECTIF({field3} = "A" AND {field4} > 10)</pre>	Select for output only those records with field3 equal to "A" and field4 greater than 10. Skip all other records.
<pre>SELECTIF({field4} + {field5}</pre>	Select for output only those records with field4 plus field5 is greater than field6. Skip all other records.
<pre>SELECTIF(NOT {field7} = ALL("-"))</pre>	Select for output those records with field7 is not equal to all dashes. Skip all other records. This example gives the same result as: SKIPIF({field7} = ALL("-"))
<pre>SELECTIF(NOT {field7} = REPEAT("-", 13))</pre>	Select for output those records with field7 is not equal to 13 dashes. Skip all other records. This example gives the same result as: SKIPIF({field7} = REPEAT("-", 13))
<pre>SELECTIF(NOT {field7} = "\xFF")</pre>	Select for output those records with field7 is not equal to hexadecimal FF. Skip all other records. This example gives the same result as: SKIPIF({field7} = "\xFF")

Example logic text	Meaning
SELECTIF(ISFOUND({Lookup1})	Select all input records where the lookup path Lookup1 successfully finds a target record, and skip all other records.
<pre>SELECTIF(ISFOUND({Lookup1,field7})</pre>	Select all input records where the lookup path Lookup1 successfully finds a target record using effective date of field7, and skip all other records.
<pre>SELECTIF(ISFOUND({Lookup1;\$SYM="A"})</pre>	Select all input records where the lookup path Lookup1 successfully finds a target record using symbol SYM set to "A", and skip all other records.
<pre>SELECTIF(ISFOUND({Lookup1, field7;\$SYM1=3,\$SYM2=0})</pre>	Select all input records where the lookup path Lookup1 successfully finds a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Skip all other records.
<pre>SELECTIF(ISNOTNULL({field1})</pre>	Select all input records where field1 does not contain null values, and skip all other records.
<pre>SELECTIF(ISNUMERIC({field2})</pre>	Select all input records where field2 is numeric, and skip all other records.
<pre>SELECTIF(ISNOTSPACES({field3})</pre>	Select all input records where field3 is not spaces, and skip all other records.
<pre>SELECTIF(DAYSBETWEEN({field1},{field2})</pre>	Select only records where there are more than 7 days between field1 and field2, and skip all other records.
<pre>SELECTIF({field1} BEGINS_WITH "BBB")</pre>	Select input records where field1 begins with characters "BBB", and skip all other records.
SELECTIF({field2} CONTAINS "CCC")	Select input records where field2 contains characters "CCC", and skip all other records.
<pre>SELECTIF({field3} ENDS_WITH "EEE")</pre>	Select input records where field3 ends with characters "EEE", and skip all other records.
SELECTIF({field4} MATCHES "")	Select input records where field4 matches characters "", and skip all other records.
<pre>SELECTIF({field5} LIKE "MA")</pre>	Select input records where field5 is exactly 5 characters starting with "MA", and skip all other records.

Example logic text SELECTIF({field6} LIKE "VA")	Meaning Select input records where field6 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.
SELECTIF({field7} LIKE "NA")	Select input records where field7 is exactly 6 characters ending in "NA", and skip all other records.
SELECTIF({field8} LIKE "^BBB*")	Select input records where field8 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field8} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
SELECTIF({field9} LIKE "*CCC*")	Select input records where field9 contains characters "CCC", and skip all other records. This example has the same effect as: SELECTIF({field9} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
SELECTIF({field1} LIKE "*EEE\$")	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as:
	SELECTIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
SELECTIF({field2} LIKE "^B*C*E\$")	Select input records where field2 begins with "B", contains "C" and ends with "E", and skip all other records.

Examples: IF with SELECT in Extract Record Filter

Example logic text	Meaning
<pre>IF (CURRENT({field1}) <> PRIOR({field1})) THEN SELECT ENDIF</pre>	Select only records with unique values for field1. This assumes the input file is sorted into field1 order. This example can also be written:
	<pre>SELECTIF(CURRENT({field1}) <> PRIOR({field1}))</pre>
IF ({field3} > 1000) THEN SELECT ENDIF	Select for output only those records with field3 greater than 1000. Skip all other records. The code at left can also be written as: SELECTIF({field3} > 1000)

Meaning Example logic text IF ({field2} = "ABC") Select for output only those records with field2 THEN SELECT equal to "ABC". Skip all other records. **ENDIF** IF NOT ({field2} = "ABC") Select those output records with field2 not THEN SELECT equal to "ABC". Skip all other records. The code at left gives the same result as: SKIPIF({field2} = "ABC") IF ($\{field2\} = "ABC"\}$ OR Select for output only those records with field2 ({field2} = "DEF") equal to "ABC" or "DEF". Skip all other THEN SELECT records. ENDIF IF ({field2} = "ABC") AND Select for output only those records with field2 $(\{field3\} > 1000)$ equal to "ABC" and field3 greater than 1000. THEN SELECT Skip all other records. **ENDIF** IF ({field3} + {field4} > Select for output only those records with field3 {field5} * 100) plus field4 is greater than field5 times 100. THEN SELECT Skip all other records. ENDIF IF NOT $(\{field6\} = ALL("-"))$ Select for output those records with field6 is THEN SELECT not equal to all dashes. Skip all other records. **ENDIF** This example gives the same result as: SKIPIF({field6} = ALL("-")) IF ({field6} = REPEAT("-", 13)) Select for output those records with field6 is THEN SELECT equal to 13 dashes. Skip all other records. ENDIF IF $(\{field6\} = "\xff")$ Select for output those records with field6 is THEN SELECT equal to hexadecimal FF. Skip all other records.

ENDIF

Example logic text IF ({field2} = "ABC") AND ({field3} > 10) THEN SELECT ELSE IF ({field2} = "DEF") THEN SELECT ELSE IF ({field2} = "GHI") THEN SELECT ENDIF ENDIF ENDIF

```
IF ISFOUND({Lookup3})
   THEN SELECT
FNDIF
```

Meaning

Select for output those records with field2 equal to "ABC" and field3 greater than 10.

In addition, select for output those records with field2 equal to "DEF".

In addition, select for output those records with field2 equal to "GHI".

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

Consider those records with field2 equal to "ABC" and field3 greater than 10.

Of the considered records, select for output those records with field4 plus field5 is greater then field6.

Of the considered records not yet selected, select also for output those records with field7 equal to zero.

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

Select all input records where the lookup path Lookup3 successfully finds a target record, and skip all other records. This example is the same as:

```
SELECTIF(ISFOUND({Lookup3})
```

Example logic text IF ISFOUND({Lookup3,field7}) THEN SELECT ENDIF	Meaning Select all input records where the lookup path Lookup3 successfully finds a target record using effective date of field7, and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3,field7})
<pre>IF ISFOUND({Lookup3;\$SYM="A"}) THEN SELECT ENDIF</pre>	Select all input records where the lookup path Lookup3 successfully finds a target record using symbol SYM set to "A", and skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3;\$SYM="A"})
<pre>IF ISFOUND({Lookup3,</pre>	Select all input records where the lookup path Lookup3 successfully finds a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Skip all other records. This example is the same as: SELECTIF(ISFOUND({Lookup3, field7;\$SYM1=3,\$SYM2=0})
<pre>IF DAYSBETWEEN({field1},{field2})</pre>	Select only records where there are more than 7 days between field1 and field2, and skip all other records This example can also be written: SELECTIF(DAYSBETWEEN({field1},{field2}) > 7)
<pre>IF ({field1} BEGINS_WITH "BBB") THEN SELECT ENDIF</pre>	Select input records where field1 begins with characters "BBB", and skip all other records. This example can be written: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field2} CONTAINS "CCC") THEN SELECT ENDIF	Select input records where field2 contains characters "CCC", and skip all other records. This example can be written: SELECTIF({field2} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field3} ENDS_WITH "EEE") THEN SELECT ENDIF	Select input records where field3 ends with characters "EEE", and skip all other records. This example can be written: SELECTIF({field3} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field4} MATCHES "") THEN SELECT ENDIF	Select input records where field4 matches characters "", and skip all other records. This example can be written: SELECTIF({field4} MATCHES "")

Example logic text IF ({field1} LIKE "^BBB*") THEN SELECT ENDIF	Meaning Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
<pre>IF ({field1} LIKE "*CCC*") THEN SELECT ENDIF</pre>	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as: SELECTIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field1} LIKE "*EEE\$") THEN SELECT ENDIF	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as: SELECTIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
<pre>IF ({field1} LIKE "^B*C*E\$") THEN SELECT ENDIF</pre>	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records.

Syntax: SKIP and SKIPIF statements in Extract Record Filter The purpose of SKIP and SKIPIF in Extract Record Filter

In this logic text, SKIP or SKIPIF define the input records to be excluded in the extract phase.

If there are no SELECT, SELECTIF, SKIP or SKIPIF statements in Extract Record Filter, then **all input records** are selected.

The idea is that you either SELECT or SKIP but you cannot do both in the same logic text. Once you have selected records then all others are skipped. Alternatively, once you skip records then all others are selected.

SKIPIF defines the input records to skip based on a condition.

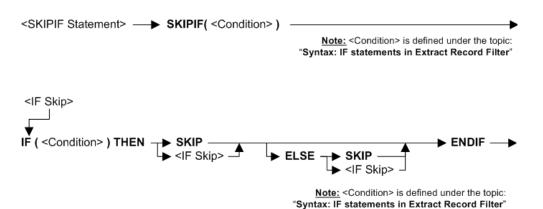
SKIP must always be inside an IF statement, in a THEN or ELSE case. The path through the IF statement decides which records reach the SKIP statement.

Extract Record Filter can have one SKIPIF or one IF that contains one or more SKIP statements. Once either of these is present, no SELECT or SELECTIF statements are allowed.

How the syntax works

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

Syntax



Rules for the syntax

- · Extract Record Filter can have one SKIPIF statement or one IF statement that contains one or more SKIP statements. When one SKIPIF or SKIP is present, then no SELECT or SELECTIF statements are allowed.
- · One IF statement can have a SKIP for the THEN or ELSE case. One IF statement can have other IF statements nested inside, which may also have SKIP statements inside. All this counts as one IF statement.

The best way to learn is the examples below. See also the topic "Syntax: IF Statements in Extract Record Filter".

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

Examples: SKIPIF in Extract Record Filter

Example logic text	Meaning
<pre>SKIPIF(CURRENT({field4}) = PRIOR({field4}))</pre>	Skip records where the new field4 value is the same as the previous field4. This assumes the input file is sorted into field4 order. This selects only the input records where field4 is a new value (compared to the previous record).
SKIPIF({field1} > 1000)	Skip for output those records with field1 greater than 1000. Select all other records. The code at left is a shorthand for: IF ({field1} > 1000) THEN SKIP ENDIF

Example logic text SKIPIF({field2} = "ABC")	Meaning Skip for output those records with field2 equal to "ABC". Select all other records.
<pre>SKIPIF(NOT {field2} = "ABC")</pre>	Skip those output records with field2 not equal to "ABC". Select all other records. This example gives the same result as: SELECTIF({field2} = "ABC")
SKIPIF({field3} = "A" OR {field3} = "D")	Skip for output those records with field3 equal to "A" or "D". Select all other records.
SKIPIF({field4} = "A" AND {field5} > 10)	Skip for output those records with field4 equal to "A" and field5 greater than 10. Select all other records.
<pre>SKIPIF({field6} * 2 > {field8}+ 5)</pre>	Skip for output those records with field6 times 2 is greater than field8 plus 5. Select all other records.
<pre>SKIPIF({field6} = ALL("-"))</pre>	Skip for output those records with field6 is equal to all dashes. Select all other records.
<pre>SKIPIF({field6} = REPEAT("-", 13))</pre>	Skip for output those records with field6 is equal to 13 dashes. Select all other records.
<pre>SKIPIF({field6} = "\xFF")</pre>	Skip for output those records with field6 is equal to hexadecimal FF. Select all other records.
SKIPIF(ISNOTFOUND({Lookup2})	Skip all input records where the lookup path Lookup2 does not successfully find a target record, and select all other records.
SKIPIF(ISNOTFOUND({Lookup2,field7})	Skip all input records where the lookup path Lookup2 does not successfully finds a target record using effective date of field7, and select all other records.
SKIPIF(ISNOTFOUND({Lookup2;\$SYM="A"})	Skip all input records where the lookup path Lookup2 using symbol SYM set to "A" does not successfully finds a target record, and select all other records.
SKIPIF(ISNOTFOUND({Lookup2, field8;\$SYM1=3,\$SYM2=0})	Skip all input records where the lookup path Lookup2 using effective date of field8 and symbol SYM1 set to 3 and symbol SYM2 set to zero does not successfully finds a target record. Select all other records.

Example logic text	Meaning
<pre>SKIPIF(ISNULL({field1})</pre>	Skip all input records where field1 contains null values, and select all other records.
<pre>SKIPIF(ISNOTNUMERIC({field2})</pre>	Skip all input records where field2 is not numeric, and select all other records.
<pre>SKIPIF(ISSPACES({field3})</pre>	Skip all input records where field3 is spaces, and select all other records.
<pre>SKIPIF(DAYSBETWEEN({field4},{field5})</pre>	Skip only records where there are more than 7 days between field4 and field5, and select all other records.
<pre>SKIPIF({field1} BEGINS_WITH "BBB")</pre>	Skip input records where field1 begins with characters "BBB", and select all other records.
SKIPIF({field2} CONTAINS "CCC")	Skip input records where field2 contains characters "CCC", and select all other records.
SKIPIF({field3} ENDS_WITH "EEE")	Skip input records where field3 ends with characters "EEE", and select all other records.
SKIPIF({field4} MATCHES "")	Skip input records where field4 matches characters "", and select all other records.
SKIPIF({field5} LIKE "MA")	Skip input records where field5 is exactly 5 characters starting with "MA", and select all other records.
SKIPIF({field6} LIKE "VA")	Skip input records where field6 is exactly 6 characters with characters 3 and 4 as "VA", and select all other records.
SKIPIF({field7} LIKE "NA")	Skip input records where field7 is exactly 6 characters ending in "NA", and select all other records.
SKIPIF({field8} LIKE "^BBB*")	Skip input records where field8 begins with characters "BBB", and select all other records. This example has the same effect as:
	SKIPIF({field8} BEGINS_WITH "BBB") It is better to use BEGINS_WITH
	because the logic text executes faster.

Example logic text SKIPIF({field9} LIKE "*CCC*")	Meaning Skip input records where field9 contains characters "CCC", and select all other records. This example has the same effect as: SKIPIF({field9} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
SKIPIF({field1} LIKE "*EEE\$")	Skip input records where field1 ends with characters "EEE", and select all other records. This example has the same effect as:
	SKIPIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
SKIPIF({field2} LIKE "^B*C*E\$")	Skip input records where field2 begins with "B", contains "C" and ends with "E", and select all other records.

Examples: IF with SKIP in Extract Record Filter

Example logic text	Meaning

```
IF (CURRENT({field1}) =
                                             Skip records where field1 is the same as the
    PRIOR({field1}))
                                             previous record. This assumes the input file is
   THEN SKIP
                                             sorted into field1 order. This example can also
ENDIF
                                             be written:
                                             SKIPIF(CURRENT({field1}) =
                                                     PRIOR({field1}))
IF (\{field3\} > 1000\}
                                             Skip for output those records with field3
  THEN SKIP
                                             greater than 1000. Select all other records. The
ENDIF
                                             code at left can also be written as:
                                             SKIPIF(\{field3\} > 1000)
IF (\{field2\} = "ABC")
                                             Skip for output those records with field2 equal
  THEN SKIP
                                             to "ABC". Select all other records.
ENDIF
IF NOT ({field2} = "ABC")
                                             Skip those output records with field2 not equal
  THEN SKIP
                                             to "ABC". Select all other records. The code at
ENDIF
                                             left gives the same result as:
                                             SELECTIF({field2} = "ABC")
IF (\{field2\} = "A"\} OR
                                             Skip for output those records with field2 equal
   (\{field2\} = "D")
                                             to "A" or "D". Select all other records.
   THEN SKIP
ENDIF
IF (\{field2\} = "A") AND
                                             Skip for output those records with field2 equal
   (\{field3\} > 10)
                                             to "A" and field3 greater than 10. Select all
   THEN SKIP
                                             other records.
ENDIF
```

Example logic text IF ({field3} + {field4} > {field5}) THEN SKIP **ENDIF** IF $(\{field6\} = ALL("-"))$ THEN SKIP **FNDIF** IF ({field6} = REPEAT("-", 13)) THEN SKIP **FNDIF** IF $(\{field6\} = "\xff")$ THEN SKIP **ENDIF** IF $(\{field2\} = "A")$ AND $(\{field3\} > 10)$ THEN SKIP ELSE IF ({field2} = "D") THEN SKIP ELSE IF $(\{field2\} = "G")$ THEN SKIP **ENDIF** ENDIF ENDIF

Meaning

Skip for output those records with field3 plus field4 is greater than field5. Select all other

Skip for output those records with field6 is equal to all dashes. Select all other records. This example gives the same result as:

```
SKIPIF({field6} = ALL("-"))
```

Skip for output those records with field6 is equal to 13 dashes. Select all other records. This example gives the same result as:

```
SKIPIF({field6} = REPEAT("-", 13))
```

Skip for output those records with field6 is equal to hexadecimal FF. Select all other records. This example gives the same result as: SKIPIF({field6} = "\xFF")

Skip for output those records with field2 equal to "A" and field3 greater than 10.

In addition, skip for output those records with field2 equal to "D".

In addition, skip for output those records with field2 equal to "G".

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF \{\{field2\} = "A" AND \}
    {field3} > 10
                              0R
   ({field2} = "D") OR
   (\{field2\} = "G")
   THEN SKIP
ENDIF
```

Skip all input records where the lookup path Lookup4 does not successfully find a target record, and select all other records. This example is the same as:

```
SKIPIF(ISNOTFOUND({Lookup4})
```

Skip all input records where the lookup path Lookup4 does not successfully find a target record using effective date of field7, and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4, field7})

```
IF ISNOTFOUND({Lookup4})
  THEN SKIP
ENDIF
```

```
IF ISNOTFOUND({Lookup4,field7})
   THEN SKIP
ENDIF
```

Example logic text IF ISNOTFOUND({Lookup4;\$SYM="A"}) THEN SKIP ENDIF	Meaning Skip all input records where the lookup path Lookup4 does not successfully find a target record using symbol SYM set to "A", and select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4;\$SYM="A"})
<pre>IF ISNOTFOUND ({Lookup4,field7;\$SYM1=3,\$SYM2=0}) THEN SKIP ENDIF</pre>	Skip all input records where the lookup path Lookup4 does not successfully find a target record using effective date of field7 and symbol SYM1 set to 3 and symbol SYM2 set to zero. Select all other records. This example is the same as: SKIPIF(ISNOTFOUND({Lookup4, field7;\$SYM1=3,\$SYM2=0})
<pre>IF DAYSBETWEEN({field1},{field2})</pre>	Skip records where there are more than 7 days between field1 and field2, and select all other records. This example can also be written: SKIPIF(DAYSBETWEEN({field1},{field2}) > 7)
IF ({field1} BEGINS_WITH "BBB") THEN SKIP ENDIF	Skip input records where field1 begins with characters "BBB", and select all other records. This example can be written: SKIPIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field2} CONTAINS "CCC") THEN SKIP ENDIF	Skip input records where field2 contains characters "CCC", and select all other records. This example can be written: SKIPIF({field2} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field3} ENDS_WITH "EEE") THEN SKIP ENDIF	Skip input records where field3 ends with characters "EEE", and select all other records. This example can be written:
	SKIPIF({field3} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field4} MATCHES "") THEN SKIP ENDIF	Skip input records where field4 matches characters "", and select all other records. This example can be written: SKIPIF({field4} MATCHES "")
IF ({field1} LIKE "^BBB*") THEN SKIP ENDIF	Skip input records where field1 begins with characters "BBB", and select all other records. This example has the same effect as: SKIPIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the

logic text executes faster.

Example logic text	Meaning
IF ({field1} LIKE "*CCC*") THEN SKIP ENDIF	Skip input records where field1 contains characters "CCC", and select all other records. This example has the same effect as: SKIPIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field1} LIKE "*EEE\$") THEN SKIP ENDIF	Skip input records where field1 ends with characters "EEE", and select all other records. This example has the same effect as: SKIPIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field1} LIKE "^B*C*E\$") THEN SKIP ENDIF	Skip input records where field1 begins with "B", contains "C" and ends with "E", and select all other records.

Syntax: SELECT and SELECTIF statements in Format Record Filter The purpose of SELECT and SELECTIF in Format Record Filter

In this logic text, SELECT or SELECTIF define the view records to be included in the final output of the view.

If there are no SELECT, SELECTIF, SKIP or SKIPIF statements in Format Record Filter, then **all view records** are selected.

The idea is that you either SELECT or SKIP but you cannot do both in the same logic text. Once you have selected records then all others are skipped. Alternatively, once you skip records then all others are selected.

SELECTIF defines the view records to select based on a condition.

SELECT must always be inside an IF statement, in a THEN or ELSE case. The path through the IF statement decides which records reach the SELECT statement.

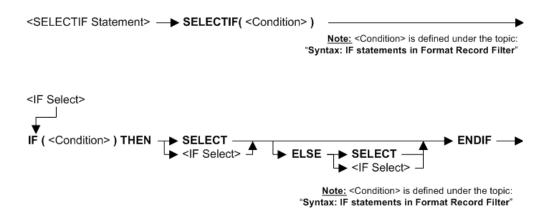
Format Record Filter can have one SELECTIF or one IF that contains one or more **SELECT statements**. Once either of these is present, no SKIP or SKIPIF statements are allowed.

How the syntax works

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

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

Syntax



Rules for the syntax

- Format Record Filter can have one SELECTIF statement or one IF statement that contains one or more SELECT statements. When one SELECTIF or SELECT is present, then no SKIP or SKIPIF statements are allowed.
- One IF statement can have a SELECT for the THEN or ELSE case. One IF statement can have other IF statements nested inside, which may also have SELECT statements inside. All this counts as one IF statement.

The best way to learn is the examples below. See also the topic "Syntax: IF Statements in Format Record Filter".

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

Examples: SELECTIF in Format Record Filter

Example logic text	Meaning
SELECTIF(COL.3 > 1000)	Select for output only those records with column 3 greater than 1000. Skip all other records. The code at left is a shorthand for: IF (COL.3 > 1000) THEN SELECT ENDIF
SELECTIF(COL.2 = "ABC")	Select for output only those records with column 2 equal to "ABC". Skip all other records.
SELECTIF(NOT COL.2 = "ABC")	Select those output records with field column 2 not equal to "ABC". Skip all other records. This example gives the same result as: SKIPIF(COL.2 = "ABC")
SELECTIF(COL.2 = "A" OR COL.2 = "D")	Select for output only those records with column 2 equal to "A" or "D". Skip all other records.
SELECTIF(COL.2 = "A" AND COL.3 > 10)	Select for output only those records with column 2 equal to "A" and column 3 greater than 10. Skip all other records.

Example logic text Meaning SELECTIF(COL.3 + Col.4 > Col.5) Select for output only those records with column 3 plus column 4 is greater than column 5. Skip all other records. SELECTIF(NOT COL.6 = ALL("-")) Select for output those records with column 6 is not equal to all dashes. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-")) SELECTIF(NOT COL.6 = Select for output those records with column 6 is REPEAT("-", 13)) not equal to 13 dashes. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = REPEAT("-", 13)) SELECTIF(NOT COL.6 = "\xFF") Select for output those records with column 6 is not equal to hexadecimal FF. Skip all other records. This example gives the same result as: SKIPIF(COL.6 = "\xFF")

Examples: IF with SELECT in Format Record Filter

Example logic text	Meaning
IF (COL.3 > 1000) THEN SELECT ENDIF	Select for output only those records with column 3 greater than 1000. Skip all other records. The code at left can also be written as: SELECTIF(COL.3 > 1000)
IF (COL.2 = "ABC") THEN SELECT ENDIF	Select for output only those records with column 2 equal to "ABC". Skip all other records.
<pre>IF NOT (COL.2 = "ABC") THEN SELECT ENDIF</pre>	Select those output records with field column 2 not equal to "ABC". Skip all other records. The code at left gives the same result as: SKIPIF(COL.2 = "ABC")
<pre>IF (COL.2 = "A") OR (COL.2 = "D") THEN SELECT ENDIF</pre>	Select for output only those records with column 2 equal to "A" or "D". Skip all other records.
<pre>IF (COL.2 = "A") AND (COL.3 > 10) THEN SELECT ENDIF</pre>	Select for output only those records with column 2 equal to "A" and column 3 greater than 10. Skip all other records.
<pre>IF (COL.3 + Col.4 > Col.5 * 100) THEN SELECT ENDIF</pre>	Select for output only those records with column 3 plus column 4 is greater than column 5 times 100. Skip all other records.

```
IF NOT (COL.6 = ALL("-"))
   THEN SELECT
ENDIF
IF (COL.6 = REPEAT("-", 13))
   THEN SELECT
ENDIF
IF (COL.6 = "\xspacexFF")
   THEN SELECT
ENDIF
IF (COL.2 = "A") AND
   (COL.3 > 10)
THEN SELECT
ELSE IF (COL.2 "D")
    THEN SELECT
     ELSE IF (COL.2 "G")
          THEN SELECT
          ENDIF
     ENDIF
ENDIF
```

Meaning

Select for output those records with column 6 is not equal to all dashes. Skip all other records. This example gives the same result as:

```
SKIPIF(COL.6 = ALL("-"))
```

Select for output those records with column 6 is equal to 13 dashes. Skip all other records.

Select for output those records with column 6 is equal to hexadecimal FF. Skip all other records.

Select for output those records with column 2 equal to "A" and column 3 greater than 10.

Also select for output those records with column 2 equal to "D".

Also select for output those records with column 2 equal to "G".

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SELECT
ENDIF
```

Meaning

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, select for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet selected, select also for output those records with column 7 equal to zero.

Skip all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
    ((COL.4 + COL.5 > COL.6) OR
    (COL.7 = 0))
    THEN SELECT
ENDIF
```

Syntax: SKIP and SKIPIF statements in Format Record Filter The purpose of SKIP and SKIPIF in Format Record Filter

In this logic text, SKIP or SKIPIF define the view records to be excluded from the final output of the view.

If there are **no SELECT, SELECTIF, SKIP or SKIPIF statements** in Format Record Filter, then **all view records** are selected.

The idea is that you either SELECT or SKIP but you cannot do both in the same logic text. Once you have selected records then all others are skipped. Alternatively, once you skip records then all others are selected.

SKIPIF defines the view records to skip based on a condition.

SKIP must always be inside an IF statement, in a THEN or ELSE case. The path through the IF statement decides which records reach the SKIP statement.

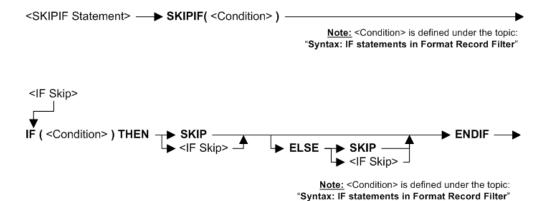
Format Record Filter can have **one SKIPIF** or **one IF that contains one or more SKIP statements**. Once either of these is present, no SELECT or SELECTIF statements are allowed.

How the syntax works

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

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

Syntax



Rules for the syntax

- · Format Record Filter can have one SKIPIF statement or one IF statement that contains one or more SKIP statements. When one SKIPIF or SKIP is present, then no SELECT or SELECTIF statements are allowed.
- · One IF statement can have a SKIP for the THEN or ELSE case. One IF statement can have other IF statements nested inside, which may also have SKIP statements inside. All this counts as one IF statement.

The best way to learn is the examples below. See also the topic "Syntax: IF Statements in Format Record Filter".

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

Examples: SKIPIF in Format Record Filter

Example logic text	Meaning
SKIPIF(COL.3 > 1000)	Skip for output those records with column 3 greater than 1000. Select all other records. The code at left is a shorthand for: IF (COL.3 > 1000) THEN SKIP ENDIF
SKIPIF(COL.2 = "ABC")	Skip for output those records with column 2 equal to "ABC". Select all other records.
SKIPIF(NOT COL.2 = "ABC")	Skip those output records with field column 2 not equal to "ABC". Select all other records. This example gives the same result as: SELECTIF(COL.2 = "ABC")
SKIPIF(COL.2 = "A" OR COL.2 = "D")	Skip for output those records with column 2 equal to "A" or "D". Select all other records.
SKIPIF(COL.2 = "A" AND COL.3 > 10)	Skip for output those records with column 2 equal to "A" and column 3 greater than 10. Select all other records.

Example logic text	Meaning
SKIPIF(COL.3 + Col.4 > Col.5)	Skip for output those records with column 3 plus column 4 is greater than column 5. Select all other records.
SKIPIF(COL.6 = ALL("-"))	Skip for output those records with column 6 is equal to all dashes. Select all other records.
SKIPIF(COL.6 = REPEAT("-", 13))	Skip for output those records with column 6 is equal to 13 dashes. Select all other records.
SKIPIF(COL.6 = "\xFF")	Skip for output those records with column 6 is equal to hexadecimal FF. Select all other records.

Examples: IF with SKIP in Format Record Filter

Example logic text	Meaning
IF (COL.3 > 1000) THEN SKIP ENDIF	Skip for output those records with column 3 greater than 1000. Select all other records. The code at left can also be written as: SKIPIF(COL.3 > 1000)
IF (COL.2 = "ABC") THEN SKIP ENDIF	Skip for output those records with column 2 equal to "ABC". Select all other records.
<pre>IF NOT (COL.2 = "ABC") THEN SKIP ENDIF</pre>	Skip those output records with field column 2 not equal to "ABC". Select all other records. The code at left gives the same result as: SELECTIF(COL.2 = "ABC")
<pre>IF (COL.2 = "A") OR (COL.2 = "D") THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" or "D". Select all other records.
<pre>IF (COL.2 = "A") AND (COL.3 > 10) THEN SKIP ENDIF</pre>	Skip for output those records with column 2 equal to "A" and column 3 greater than 10. Select all other records.
IF (COL.3 + Col.4 > Col.5 * 100) THEN SKIP ENDIF	Skip for output those records with column 3 plus column 4 is greater than column 5 times 100. Select all other records.
<pre>IF (COL.6 = ALL("-")) THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to all dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = ALL("-"))
<pre>IF (COL.6 = REPEAT("-", 13)) THEN SKIP ENDIF</pre>	Skip for output those records with column 6 is equal to 13 dashes. Select all other records. This example gives the same result as: SKIPIF(COL.6 = REPEAT("-", 13))

```
IF (COL.6 = "\xFF")
THEN SKIP
ENDIF

IF (COL.2 = "A") AND
(COL.3 > 10)
THEN SKIP
ELSE IF (COL.2 = "D")
THEN SKIP
ELSE IF (COL.2 = "G")
THEN SKIP
ENDIF
ENDIF
```

```
IF (COL.2 = "A") AND
(COL.3 > 10)
THEN IF (COL.4 + COL.5
> COL.6)
THEN SKIP
ELSE IF (COL.7 = 0)
THEN SKIP
ENDIF
ENDIF
ENDIF
```

Meaning

```
Skip for output those records with column 6 is equal to hexadecimal FF. Select all other records. This example gives the same result as:
```

```
SKIPIF(COL.6 = "\xFF")
```

Skip for output those records with column 2 equal to "A" and column 3 greater than 10.

In addition, skip for output those records with column 2 equal to "D".

In addition, skip for output those records with column 2 equal to "G".

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) OR
   (COL.2 = "D") OR
   (COL.2 = "G")
   THEN SKIP
ENDIF
```

Consider those records with column 2 equal to "A" and column 3 greater than 10.

Of the considered records, skip for output those records with column 4 plus column 5 is greater then column 6.

Of the considered records not yet skipped, skip also for output those records with column 7 equal to zero.

Select all other records.

Notice that the logic text at left counts as only one IF statement, because the extra IF statements are nested inside the first.

The code at left can also be written as follows (note the use of brackets to control the evaluation of the conditions):

```
IF (COL.2 = "A" AND COL.3 > 10) AND
    ((COL.4 + COL.5 > COL.6) OR
    (COL.7 = 0))
    THEN SKIP
ENDIF
```

Syntax: WRITE statements

Introduction

WRITE statements are optional in your logic text.

If your logic text contains **no WRITE statements**, then a WRITE occurs automatically. This is called an **implicit** WRITE. An implicit WRITE ensures that all your extract phase records are processed in the format phase (if the view has a format phase). Alternatively, an implicit WRITE ensures all your extract phase records are included in the view output file from the extract phase (if the view has no format phase). An implicit WRITE still occurs if you provide WRITE statements in your logic text.

A WRITE statement in your logic text allows the following:

- Writing records to logical files of your choice.
- Performing a Procedure or UserExit Routine on input records.
- A combination of the above.

There are **two areas of logic text** where you can use a WRITE statement - see the two topics below.

Syntax: WRITE statements in Extract Record Filter The purpose of WRITE in Extract Record Filter

A WRITE in Extract Record Filter is essentially making a copy of input records in a Logical File. You may write all input records, or you may write only the selected input records.

The purpose of these WRITE statements might be:

- Create an audit trail or backup of input records.
- Create a trace for debugging purposes

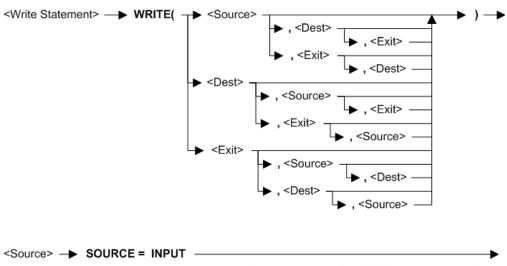
Any records written to extract logical files by these WRITE statements are not processed any further in the extract phase or the format phase. The logical files for the written input records are considered view output files.

The SOURCE parameter of the WRITE statement must be INPUT, and there is no choice of DESTINATION=EXTRACT. Full details of the syntax are below.

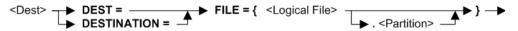
How the syntax works

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

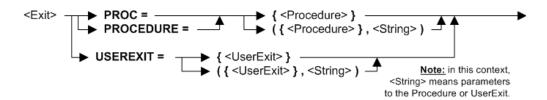
TEXT Indicates a keyword or punctuation (case does not matter)



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

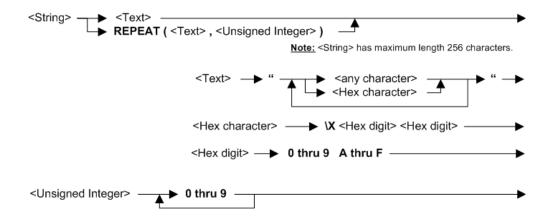


Note: <Partition> is a relevant Physical File name. The
default is the first partition if <Partition> is not provided.









- You can have as many WRITE statements as required in your logic text.
- If the WRITE is **before** any selects or skips in your Extract Record Filter, then the WRITE covers **all input records**.
- If the WRITE is **after** any selects or skips in your Extract Record Filter, then the WRITE covers **only selected input records**.
- Do not include WRITE statements in an IF statement that uses SELECT or SKIP. This means WRITE statements may be before or after (or both before and after) any selects or skips.
- For Extract Record Filter, then SOURCE=INPUT is a mandatory parameter.
- PROCEDURE and USEREXIT are both optional parameters. The WRITE statement can have one or the other but not both. If you use a PROCEDURE or USEREXIT parameter, then the DESTINATION may not be necessary.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

What is the difference between PROCEDURE and USEREXIT?

The idea of a procedure is the same as for a user-exit routine.

Both a procedure and a user-exit routine have an executable name on your mainframe. The executable name must conform to mainframe standards, which makes them short and often unfriendly. For example, the executable name might be ABCSYBKUP that performs a backup for the ABC system.

A procedure is the executable name. A user-exit routine allows a longer name to apply to the same executable - for example: "ABC System Backup".

Your WRITE statement can use this parameter:

PROCEDURE={ABCSYBKUP}

If you define a user-exit routine called "ABC System Backup" that points to ABCSYBKUP, then your WRITE statement can use this USEREXIT parameter: $\frac{1}{2} \frac{1}{2} \frac$

USEREXIT={ABC System Backup}

User-exit routines are recommended for all situations like this.

For more, see topic "User-exit routines overview". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: WRITE in Extract Record Filter

Example logic text

Meaning

```
' This WRITE statement is before
                                             This WRITE sends all input records to the
' any SELECT or SKIP.
                                             UserExit Routine called Backup.
WRITE (SOURCE = INPUT,
       USEREXIT = {Backup} )
' This WRITE statement is before
                                             This WRITE decrypts all input records and
' any SELECT or SKIP.
                                             puts the results "in place" so that the input
WRITE (SOURCE = INPUT,
                                             records are processed later in the extract
       USEREXIT = {Decryption} )
                                             phase.
SELECTIF ( {product code}
                                             The WRITE sends only input records with
            = "ABC" )
                                             product_code = "ABC" to the logical file
WRITE (SOURCE = INPUT,
                                             "All ABC".
       DEST = FILE = {All ABC} )
IF ( {product code} = "ABC" )
                                             This example has the same effect as the
   THEN SELECT
                                             previous example. Ensure the IF statement is
ENDIF
                                             purely for SELECT statements only.
WRITE (SOURCE = INPUT,
       DEST = FILE = {All_ABC} )
```

Syntax: WRITE statements in Extract Column Assignment What is the purpose of this?

A WRITE in Extract Column Assignment has many options:

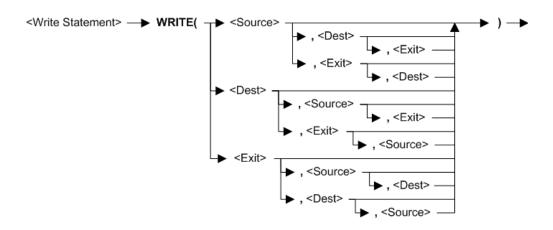
- Write a full **copy of the selected input record** to a view output file (SOURCE=INPUT, DEST=FILE=LogicalFile).
- Write all columns up to that point to a logical file that is a view output file (SOURCE=DATA, DEST=FILE=LogicalFile)
- Write all columns up to that point to an extract work file (EXT file) that can be processed in the format phase (SOURCE=VIEW, DEST=EXT=number). The number for the EXT files must be within a limit (see below). An EXT file is optimized for the format phase and so the structure of an EXT file is different from what is specified in the view. See your IBM representative if you have questions about the structure of an EXT file.
- Write records to some other location determined by a procedure or user-exit routine.
- · Some combination of the above.

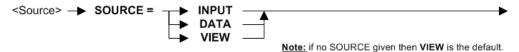
Only the EXT files are processed in the format phase. All other records written in the above choices are written to view output files and not processed any further after the extract phase.

How the syntax works

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

Syntax



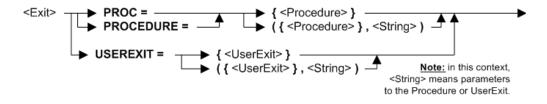


VIEW means write the columns up to that point to an extract work file passed to the format phase. DATA means write the columns up to that point to a view output file. INPUT means the input records selected in the

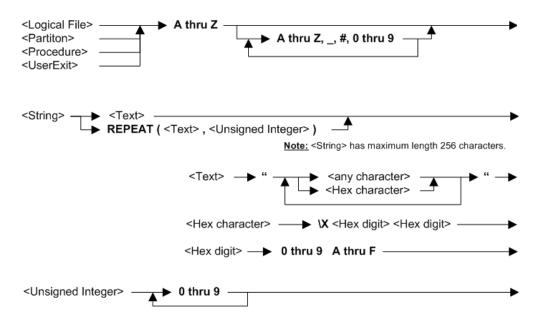
Extract Record Filter logic text (if present).



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







Rules

- · You can have as many WRITE statements as required in your logic text for a column. The WRITE statements can be positioned anywhere a statement is valid in your logic text.
- If you do not put a SOURCE parameter then **VIEW** is assumed.
- For SOURCE = VIEW or SOURCE = DATA, the WRITE includes **only the** columns up to that point (the current column). If the WRITE is not in the last column then the record created is truncated compared to all the columns in the view.
- PROCEDURE and USEREXIT are both optional parameters. The WRITE statement can have one or the other but not both. If you use a PROCEDURE or **USEREXIT** parameter, then the DESTINATION may not be necessary.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

What is the difference between PROCEDURE and USEREXIT?

The idea of a procedure is the same as for a user-exit routine.

Both a procedure and a user-exit routine have an executable name on your mainframe. The executable name must conform to mainframe standards, which makes them short and often unfriendly. For example, the executable name might be ABCSYBKUP that performs a backup for the ABC system.

A procedure is the executable name. A user-exit routine allows a longer name to apply to the same executable - for example: "ABC System Backup".

Your WRITE statement can use this parameter: PROCEDURE={ABCSYBKUP}

If you define a user-exit routine called "ABC System Backup" that points to ABCSYBKUP, then your WRITE statement can use this USEREXIT parameter: USEREXIT={ABC System Backup}

User-exit routines are recommended for all situations like this.

For more, see topic "User-exit routines overview". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: IF with WRITE in Extract Column Assignment

Example logic text

IF (ISNUMERIC({field4}) AND $(\{field5\} > \{field6\} * 10) AND$ (ISNOTSPACES{field7} THEN WRITE (SOURCE=DATA, USEREXIT={DB2 Update}) **ENDIF** IF (ISNOTNULL({field3}) AND $(\{field2\} = \{field1\} + \{field5\}$ THEN WRITE (SOURCE=INPUT, DEST=FILE= {LogicalFile3}) ENDIF IF (DAYSBETWEEN({field12}, {field15}) > 10) AND (ISFOUND({Lookup3;\$SYM="A"})) THEN WRITE (SOURCE=VIEW, DEST=EXT=03) ENDIF

Meaning

If field4 is numeric and field5 is greater than field6 times 10 and field7 is not spaces, then call the user-exit routine DB2_Update for the columns up to the current point. This effectively does a writes to a DB2 table the columns in that record up to the current point.

If field3 is not nulls and field2 equals field1 plus field 5 then write the entire input record to LogicalFile3. All columns in the input record are included, no matter what column contains this logic text.

If field12 and field15 are more than 10 days apart and the lookup path Lookup3 works with symbol SYM set to "A", then write the columns up to the current point to extract work file (EXT) 3. This assumes that the control record for this environment has a Maximum Extract File Number that is at least 3, or any overwrite of the VDP has also set this parameter to at least 3.

Chapter 3. Syntax: functions

Syntax: function ALL

How do I use ALL?

If you provide a text string then ALL can check if all of a field value is that text string (repeated). ALL is different from REPEAT because REPEAT has a fixed number of repetitions, whereas ALL is flexible and compares with fields of different lengths.

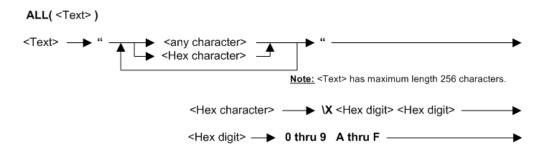
ALL can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

ALL can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: ALL function in Extract Record Filter

Example logic text	Meaning
<pre>IF NOT ({field1} = ALL("-")) THEN SELECT ENDIF</pre>	Select for output those records with field1 is not equal to all dashes. Skip all other records. This example gives the same result as:
	SKIPIF({field1} = ALL("-"))

Example logic text

Meaning

<pre>IF ({field2}</pre>	=	ALL("-"))
THEN SKIP		
FNDIF		

Skip for output those records with field2 is equal to all dashes. Select all other records. This example gives the same result as:

SKIPIF({field2} = ALL("-"))

Examples: ALL function in Extract Column Assignment

Example logic text	Meaning
<pre>IF (field3) = "Total") THEN COLUMN = ALL("-") ENDIF</pre>	If field3 is "Total" then set the current column to all dashes.
<pre>IF (field4) = ALL("-")) THEN COLUMN = (field5) + (field6) ENDIF</pre>	If field4 is all dashes, then set the current column to a total of fields 5 and 6.

Syntax: function BATCHDATE

How do I use BATCHDATE?

The BATCHDATE returns a date in CCYYMMDD format that is when the view is run. The group of views all running in the same batch in the Performance Engine all use the same BATCHDATE.

The parameter for BATCHDATE is a number of days to add or delete from the default BATCHDATE. For example, BATCHDATE(-5) provides the day five days before the date the view is run.

BATCHDATE can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

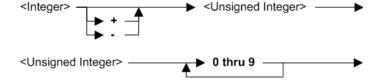
Indicates a reference to another part of this syntax.

Indicates a keyword or punctuation (case does not matter)

Syntax



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



BATCHDATE can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: BATCHDATE function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field1} < BATCHDATE(-7)) THEN SKIP ENDIF</pre>	Skip any input records where field1 is more than 7 days before the date of running this view. Select all other records. This example can also be written: SKIPIF({field1} < BATCHDATE(-7))

Examples: BATCHDATE function in Extract Column Assignment

Example logic text	Meaning
COLUMN = BATCHDATE()	Set the current column to the date that this view is run.
COLUMN = BATCHDATE(-7)	Set the current column to the date that is 7 days before the view is run.
<pre>COLUMN = {Lookup3.Field4,BATCHDATE(-32))</pre>	Set the current column to Field4 found by Lookup3 as of 32 days before the view is run.

Syntax: function CURRENT

See PRIOR

Function CURRENT is always used when using function PRIOR - so see topic "Syntax: function PRIOR".

That topic is elsewhere in this PDF - see the table of contents.

Syntax: function DATE

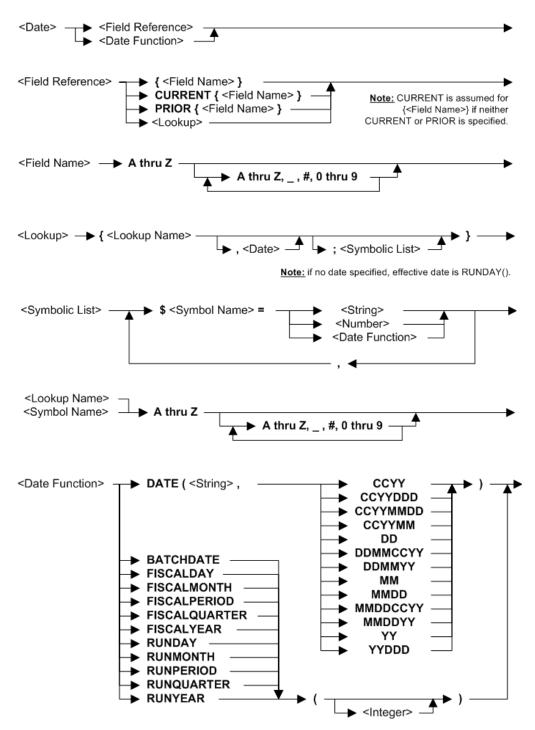
How do I use DATE?

DATE is used whenever you want to specify some date. You can use DATE to set a value, or as part of a comparison.

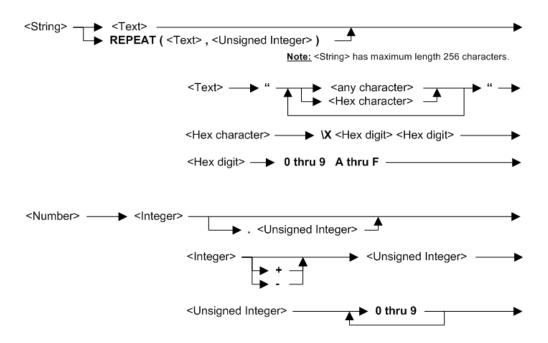
DATE can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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



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



DATE can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: DATE function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field1} = BATCHDATE()) THEN SELECT ENDIF</pre>	Select those input records where field1 is in the date the view is run. The code at left can also be written as: SELECTIF({field1} = BATCHDATE())
	SELECTI ([TICIAL] - DATCHDATE())

Examples: DATE function in Extract Column Assignment

Example logic text	Meaning
COLUMN = DATE("20111201",CCYYMMDD)	Set the current column to a date of December 1, 2011 in CCYYMMDD format.

Syntax: function DAYSBETWEEN

How do I use DAYSBETWEEN?

Use DAYSBETWEEN to compare dates and give an different in days.

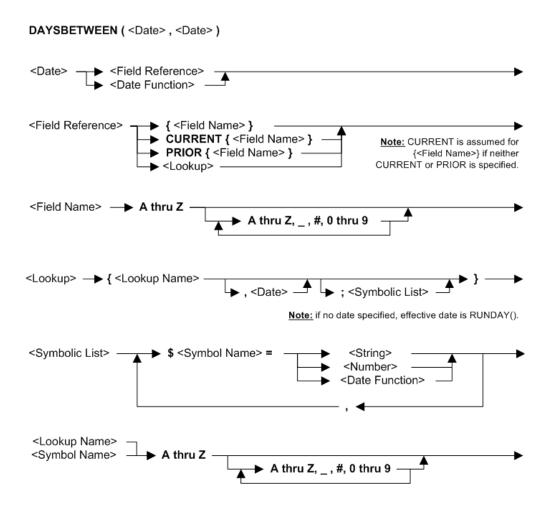
DAYSBETWEEN can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

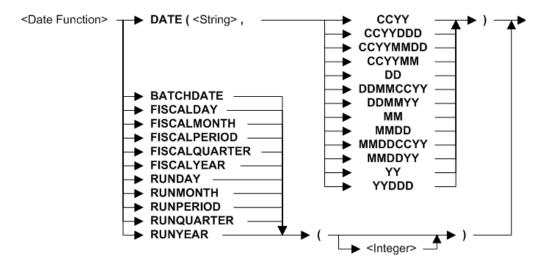
How the syntax works

Indicates a reference to another part of this syntax.

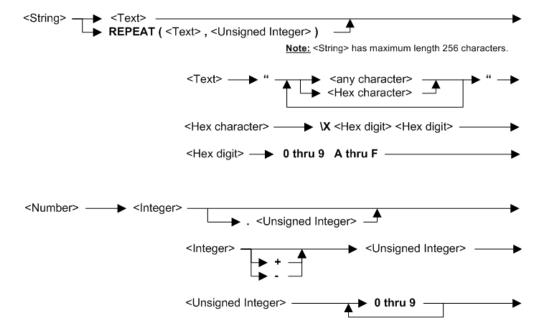
TEXT Indicates a keyword or punctuation (case does not matter)

Syntax





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



DAYSBETWEEN can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: function DAYSBETWEEN in Extract Record Filter

Example logic text	Meaning
<pre>IF (DAYSBETWEEN({field1},{field2})</pre>	Select only records where there are more than 7 days between field1 and field2, and skip all other records. This example can also be written:

SELECTIF(DAYSBETWEEN({field1}, {field2})

Examples: function DAYSBETWEEN in Extract Column Assignment

Example logic text	Meaning
<pre>COLUMN = DAYSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	Set the current column to the days between the transaction date and the shipping date.
<pre>IF (DAYSBETWEEN({BUY_DATE}, {SHIP_DATE}) > 10) THEN COLUMN = {SHIP_DATE} ELSE COLUMN = {BUY_DATE} ENDIF</pre>	If there are more than 10 days between the transaction date and the shipping date, then set the current column to the shipping date, otherwise set the current column to the transaction date.
<pre>IF (DAYSBETWEEN({BUY_DATE}, {SHIP_DATE}) > 30) THEN WRITE(SOURCE=VIEW, DEST=EXT=03) ENDIF</pre>	Write to extract 3 those records where there are more than 30 days between the transaction date and the shipping date.

Syntax: function FISCALDAY

How do I use FISCALDAY?

FISCALDAY returns a day based on the fiscal values in the control record for the environment for a view. This means that different views in the same batch run can have different fiscal dates because they come from different environments. By comparison, RUNDAY is the same for all views in a batch.

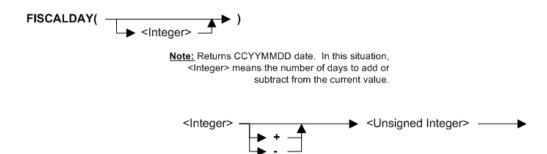
The FISCALDAY returns a date in CCYYMMDD format that is appropriate for the environment of that view.

The parameter for FISCALDAY is a number of days to add or delete from the default FISCALDAY. For example, FISCALDAY(-5) provides the day that is five days before the date the view is run.

FISCALDAY can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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



Rules for the syntax

FISCALDAY can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

<Unsigned Integer> -

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: FISCALDAY function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field1} < FISCALDAY(-7)) THEN SKIP ENDIF</pre>	Skip any input records where field1 is more than 7 fiscal days before the date of running this view, and select all other records. Fiscal days means that if the date of running this view is fiscal day five of a fiscal year, then only records from fiscal days one to five are selected. This example assumes that field1 is a fiscal day number. The code at left can also be written as: SKIPIF({field1} < FISCALDAY(-7))

Examples: FISCALDAY function in Extract Column Assignment

Example logic text	Meaning
COLUMN = FISCALDAY()	Set the current column to the fiscal day number of the day the view is run.

Syntax: function FISCALMONTH

How do I use FISCALMONTH?

FISCALMONTH returns a month based on the Fiscal Parameters in the control record for the environment for a view. This means that different views running in the same batch can have different Fiscal dates because they come from different environments. By comparison, RUNDAY is the same for all views in a batch.

The FISCALMONTH returns a date in CCYYMM format that is appropriate for the environment of that view.

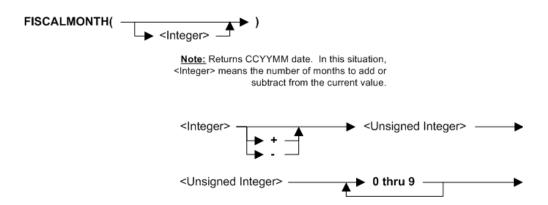
The parameter for FISCALMONTH is a number of months to add or delete from the default FISCALMONTH. For example, FISCALMONTH(-5) provides the month that is five months before the date the view is run.

FISCALMONTH can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

How the syntax works

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

Syntax



Rules for the syntax

FISCALMONTH can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: FISCALMONTH function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field2} >= FISCALMONTH(-1)) THEN SELECT ENDIF</pre>	Select any input records where field2 is the previous fiscal month or later, and skip all other records. Fiscal months means that if the date of running this view is fiscal month one, then only records from fiscal month one are selected. The example at left assumes that field2 is a fiscal month number. The code at left can also be written as: SELECTIF({field2} >= FISCALMONTH(-1))

Examples: FISCALMONTH function in Extract Column Assignment

Example logic text	Meaning
COLUMN = FISCALMONTH()	Set the current column to the current fiscal month number.

Syntax: function FISCALPERIOD

How do I use FISCALPERIOD?

FISCALPERIOD is a similar concept to FISCALMONTH. The difference is that there can be 13 periods in a year rather than 12. FISCALPERIOD returns a period based on the Fiscal Parameters in the control record for the environment for a view. This means that different views running in the same batch can have different Fiscal dates because they come from different environments. By comparison, RUNDAY is the same for all views in a batch.

The FISCALPERIOD returns a date in CCYYMM format that is appropriate for the environment of that view.

The parameter for FISCALPERIOD is a number of periods to add or delete from the default FISCALPERIOD. For example, FISCALPERIOD(-5) provides the month that is five periods before the date the view is run.

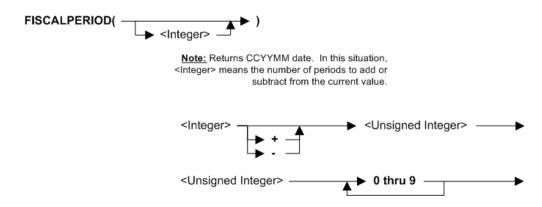
FISCALPERIOD can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

FISCALPERIOD can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: FISCALPERIOD function in Extract Record Filter

Example	logic text	Meaning

IF ({field3} >= FISCALPERIOD(-1))
THEN SELECT

ENDIF

Select any input records where field3 is the previous fiscal period or later, and skip all other records. The example at left assumes that field3 is a fiscal period number. The code at left can also be written as:

SELECTIF({field3} >= FISCALPERIOD(-1))

Examples: FISCALPERIOD function in Extract Column Assignment

Example logic text Meaning

COLUMN = FISCALPERIOD() Set the current column to the current fiscal period

number.

Syntax: function FISCALQUARTER

How do I use FISCALQUARTER?

FISCALQUARTER returns a month (at a quarter start) based on the Fiscal Parameters in the control record for the environment for a view. This means that different views running in the same batch can have different Fiscal dates because they come from different environments. By comparison, RUNDAY is the same for all views in a batch.

The FISCALQUARTER returns a date in CCYYMM format that is appropriate for the environment of that view.

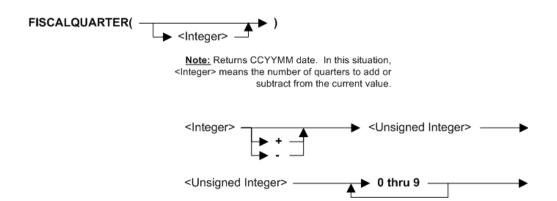
The parameter for FISCALQUARTER is a number of quarters to add or delete from the default FISCALQUARTER. For example, FISCALQUARTER(-5) provides the month that is five quarters before the date the view is run.

FISCALQUARTER can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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



Rules for the syntax

FISCALQUARTER can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Syntax: function FISCALYEAR

How do I use FISCALYEAR?

FISCALYEAR returns a year based on the Fiscal Parameters in the control record for the environment for a view. This means that different views running in the same batch can have different Fiscal dates because they come from different environments. By comparison, RUNDAY is the same for all views in a batch.

The FISCALYEAR returns a date in CCYY format that is appropriate for the environment of that view.

The parameter for FISCALYEAR is a number of years to add or delete from the default FISCALYEAR. For example, FISCALYEAR(-5) provides the year that is five years before the date the view is run.

FISCALYEAR can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

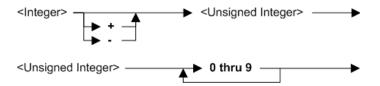
How the syntax works

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

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



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



Rules for the syntax

FISCALYEAR can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: FISCALYEAR function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field4} = FISCALYEAR(-1)) THEN SELECT ENDIF</pre>	Select any input records where field4 is the previous fiscal year, and skip all other records. The example at left assumes that field4 is a fiscal year number. The code at left can also be written as: SELECTIF({field4} = FISCALYEAR(-1))

Examples: FISCALYEAR function in Extract Column Assignment

Example logic text	Meaning
COLUMN = FISCALYEAR()	Set the current column to the current fiscal year number.

Syntax: function ISFOUND

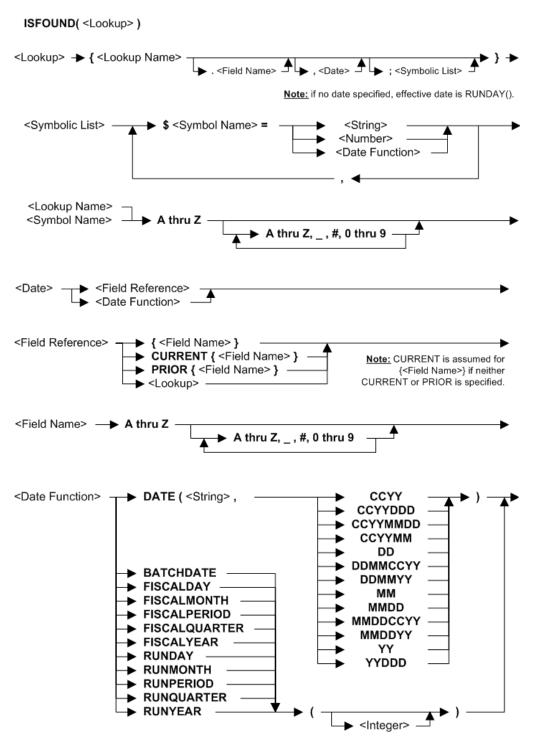
How do I use ISFOUND?

If you provide a lookup path then ISFOUND returns true if the lookup path is successful for the current input record, and false if the lookup path fails.

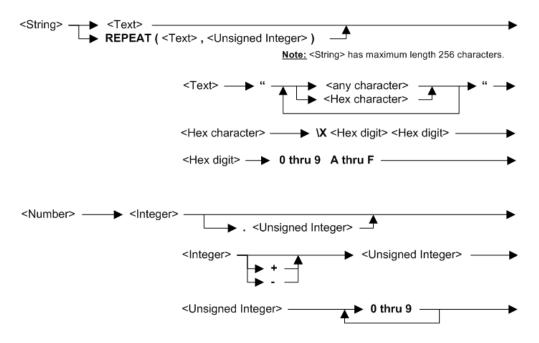
ISFOUND can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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



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



ISFOUND can only be used in Extract Record Filter or Extract Column Assignment logic text.

If no effective date is specified, ISFOUND uses RUNDAY() - see topic "Syntax: function RUNDAY". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISFOUND function in Extract Record Filter

Example logic text Meaning	
IF ISFOUND({Lookup2}) THEN SELECT ENDIF Select all input records where lookup successfully finds a target record, and records. This example is the same as: SELECTIF(ISFOUND({Lookup2}))	d skip all other

Examples: ISFOUND function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISFOUND({Lookup2}) THEN COLUMN = {Lookup2} ELSE COLUMN = " " ENDIF</pre>	If the lookup path Lookup2 uses the current record to successfully find a target record, then set the current column to the lookup field, otherwise set the current column to blank.

Syntax: function ISNOTFOUND

How do I use ISNOTFOUND?

If you provide a lookup path then ISNOTFOUND returns true if the lookup path fails for the current input record and false if the lookup path is successful .

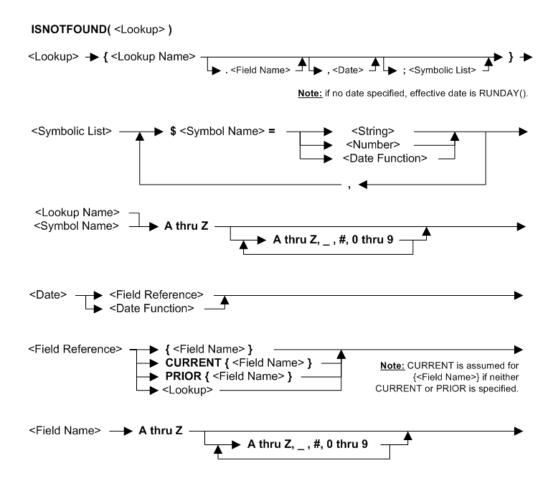
ISNOTFOUND can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

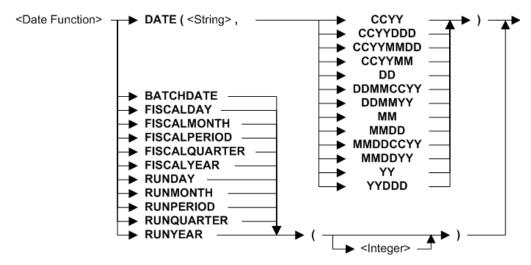
How the syntax works

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

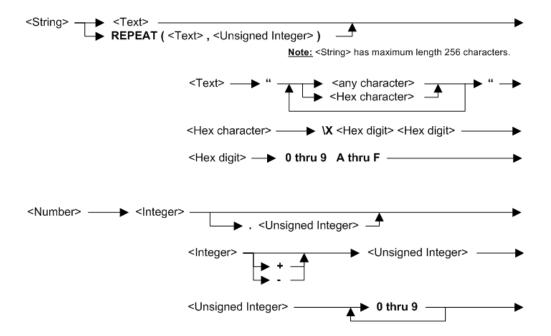
TEXT Indicates a keyword or punctuation (case does not matter)

Syntax





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



ISNOTFOUND can only be used in Extract Record Filter or Extract Column Assignment logic text.

If **no effective date** is specified, ISNOTFOUND uses RUNDAY() - see topic "Syntax: function RUNDAY". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNOTFOUND function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNOTFOUND({Lookup3}) THEN SKIP ENDIF</pre>	Skip all input records where the lookup path Lookup3 does not successfully find a target record, and select all other records. This example is the same as:
	SKIPIF(ISNOTFOUND({Lookup3})

Examples: ISNOTFOUND function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNOTFOUND({Lookup1}) THEN COLUMN = "PROBLEM" ELSE COLUMN = " " ENDIF</pre>	If the lookup path Lookup1 uses the current record and does not successfully find a target record, then set the current column to "PROBLEM", otherwise set the current column to blank.

Syntax: function ISNOTNULL

How do I use ISNOTNULL?

If you provide an input field or lookup path then ISNOTNULL returns true if the input field or lookup path field is some other than null values, and false if the value is null values.

ISNOTNULL can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

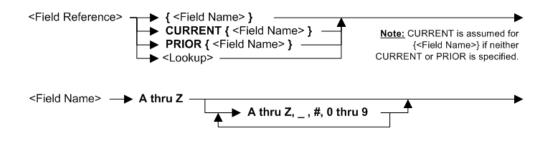
How the syntax works

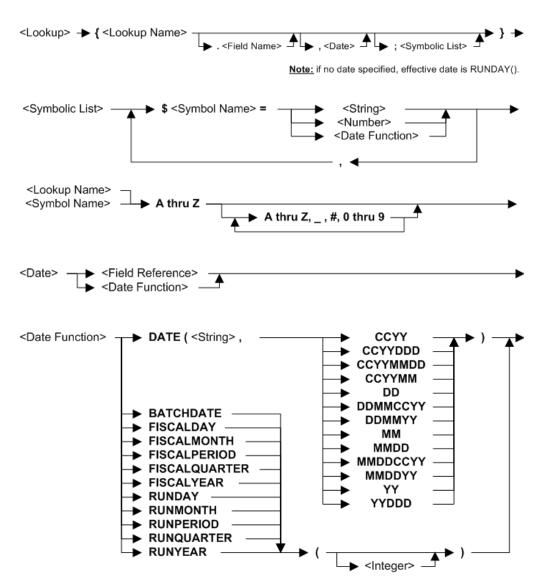
<text> Indicates a reference to another part of this syntax.

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

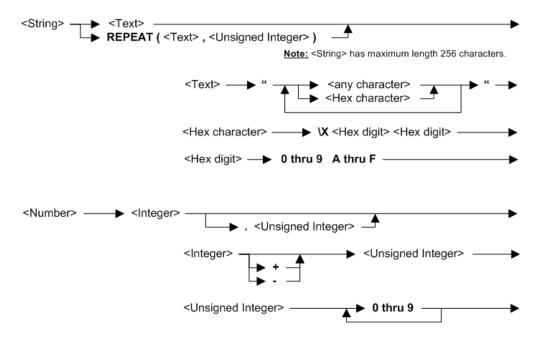
Syntax

ISNOTNULL(<FieldReference>)





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



ISNOTNULL can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

If this functions checks a lookup, and **no effective date** is specified, the lookup uses RUNDAY() - see topic "**Syntax: function RUNDAY**". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNOTNULL function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNOTNULL({field3}) THEN SELECT ENDIF</pre>	Select all input records where field3 does not contain null values, and skip all other records. This example is the same as: SELECTIF(ISNOTNULL({field3}))
<pre>IF ISNOTNULL({Lookup1}) THEN SELECT ENDIF</pre>	Select all input records where the lookup field for lookup path Lookup1 does not contain null values, and skip all other records. This example is the same as: SELECTIF(ISNOTNULL({Lookup1}))

Examples: ISNOTNULL function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNOTNULL({field4}) THEN COLUMN = {field4} ELSE COLUMN = "NOT AVAILABLE" ENDIF</pre>	If field4 for the current record does not contain null values, then set the current column to field4, otherwise set the current column to "NOT AVAILABLE".

Syntax: function ISNOTNUMERIC

How do I use ISNOTNUMERIC?

If you provide an input field or lookup path then ISNOTNUMERIC returns true if the input field or lookup path field not a numeric value, and false if the value is numeric.

ISNOTNUMERIC can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

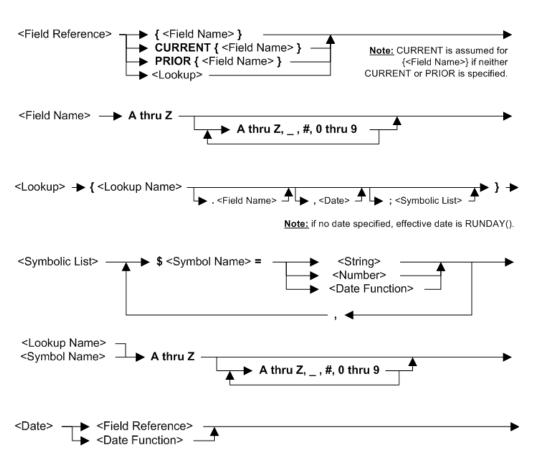
How the syntax works

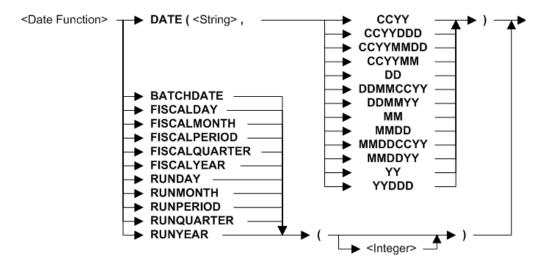
<text> Indicates a reference to another part of this syntax.

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

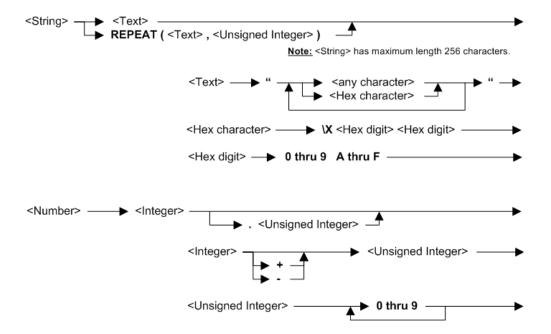
Syntax

ISNOTNUMERIC(< FieldReference >)





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



ISNOTNUMERIC can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

If this functions checks a lookup, and **no effective date** is specified, the lookup uses RUNDAY() - see topic "**Syntax: function RUNDAY**". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNOTNUMERIC function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNOTNUMERIC({field7}) THEN SKIP ENDIF</pre>	Skip all input records where field7 is not numeric, and select all other records. This example is the same as: SKIPIF(ISNOTNUMERIC({field7})

Examples: ISNOTNUMERIC function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNOTNUMERIC({field8}) THEN COLUMN = 0 ELSE COLUMN = {field8} ENDIF</pre>	If field8 for the current record is not numeric, then set the current column to zero, otherwise set the current column to field8.

Syntax: function ISNOTSPACES

How do I use ISNOTSPACES?

If you provide an input field or lookup path then ISNOTSPACES returns true if the input field or lookup path field is not spaces, and false if the value is spaces.

ISNOTSPACES can only be used in Extract Record Filter or Extract Column Assignment logic text.

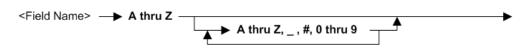
How the syntax works

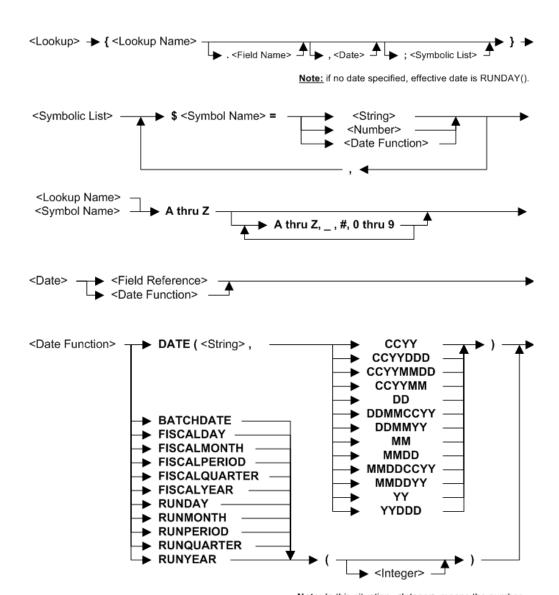
ISNOTSPACES(<FieldReference>)

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

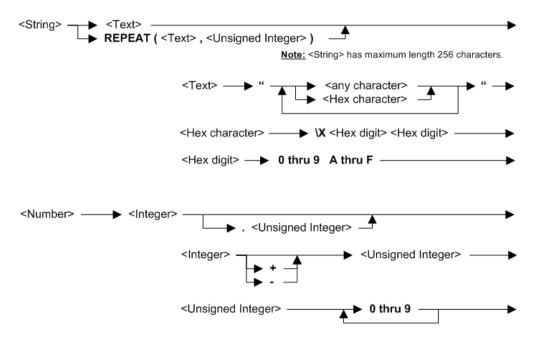
Syntax

<Field Reference> → { <Field Name> } CURRENT { <Field Name> } Note: CURRENT is assumed for ▶ PRIOR { <Field Name> } — {<Field Name>} if neither CURRENT or PRIOR is specified.





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



ISNOTSPACES can only be used in Extract Record Filter or Extract Column Assignment logic text.

If this functions checks a lookup, and no effective date is specified, the lookup uses RUNDAY() - see topic "Syntax: function RUNDAY". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNOTSPACES function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNOTSPACES({field2}) THEN SELECT ENDIF</pre>	Select all input records where field2 is not spaces, and skip all other records. This example is the same as:
	<pre>SELECTIF(ISNOTSPACES({field2})</pre>

Examples: ISNOTSPACES function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNOTSPACES({field3}) THEN COLUMN = {field3} ELSE COLUMN = "NOT SET" FNDIF</pre>	If field3 for the current record is not spaces, then set the current column to field3, otherwise set the current column to "NOT SET".

Syntax: function ISNULL

How do I use ISNULL?

If you provide an input field or lookup path then ISNULL returns true if the input field or lookup path field is null values, and false if the value is anything else.

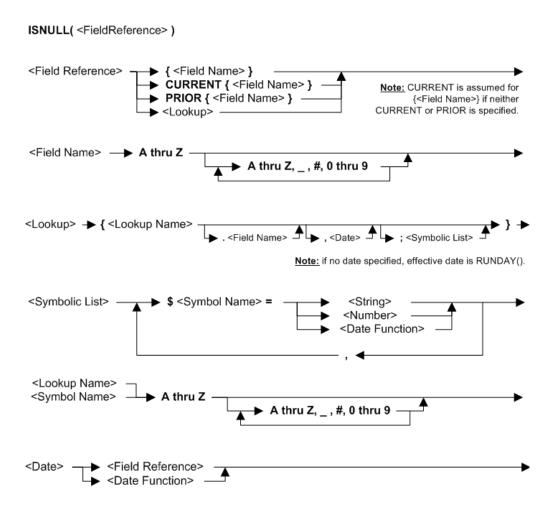
ISNULL can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

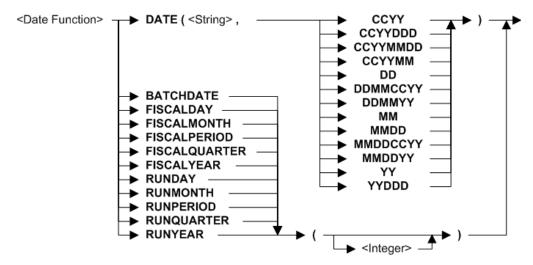
How the syntax works

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

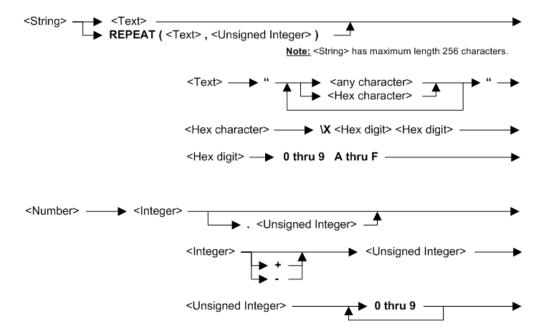
TEXT Indicates a keyword or punctuation (case does not matter)

Syntax





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



ISNULL can only be used in Extract Record Filter or Extract Column Assignment logic text.

If this functions checks a lookup, and **no effective date** is specified, the lookup uses RUNDAY() - see topic "Syntax: function RUNDAY". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNULL function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNULL({field1}) THEN SKIP ENDIF</pre>	Skip all input records where field1 contains null values, and select all other records. This example is the same as: SKIPIF(ISNULL({field1})

Examples: ISNULL function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNULL({field2}) THEN COLUMN = "EMPTY" ELSE COLUMN = {field2} ENDIF</pre>	If field2 for the current record contains null values, then set the current column to "EMPTY", otherwise set the current column to field2.

Syntax: function ISNUMERIC

How do I use ISNUMERIC?

If you provide an input field or lookup path then ISNUMERIC returns true if the input field or lookup path field has a numeric value, and false if the value is anything else.

ISNUMERIC can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

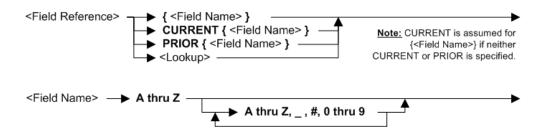
How the syntax works

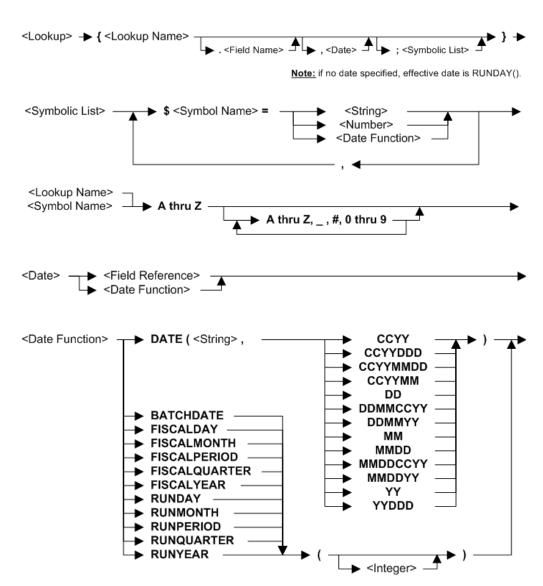
<text> Indicates a reference to another part of this syntax.

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

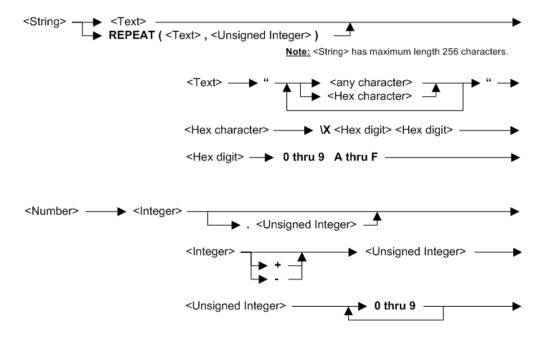
Syntax

ISNUMERIC(<FieldReference>)





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



Rules for the syntax

ISNUMERIC can only be used in Extract Record Filter or Extract Column Assignment logic text.

If this functions checks a lookup, and no effective date is specified, the lookup uses RUNDAY() - see topic "Syntax: function RUNDAY". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISNUMERIC function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISNUMERIC({field5}) THEN SELECT</pre>	Select all input records where field5 is numeric, and skip all other records. This example is the same as:
ENDIF	<pre>SELECTIF(ISNUMERIC({field5})</pre>

Examples: ISNUMERIC function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISNUMERIC({field6}) THEN COLUMN = {field6} * 100 ELSE COLUMN = 0 ENDIF</pre>	If field6 for the current record is numeric, then set the current column to field6 times 100, otherwise set the current column to zero.

Syntax: function ISSPACES

How do I use ISSPACES?

If you provide an input field or lookup path then ISSPACES returns true if the input field or lookup path field contains spaces, and false if the value is anything else.

ISSPACES can only be used in Extract Record Filter or Extract Column Assignment logic text.

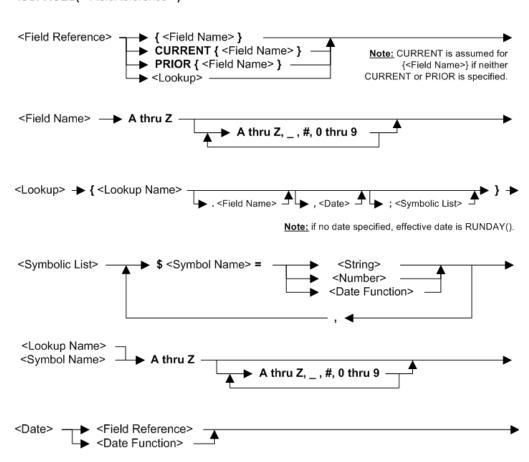
How the syntax works

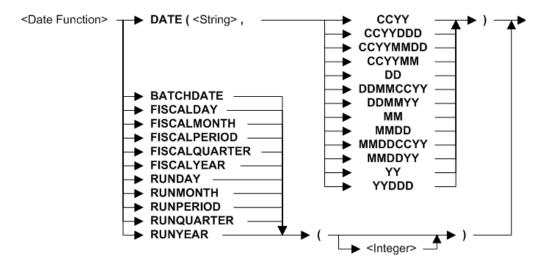
<text> Indicates a reference to another part of this syntax.

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

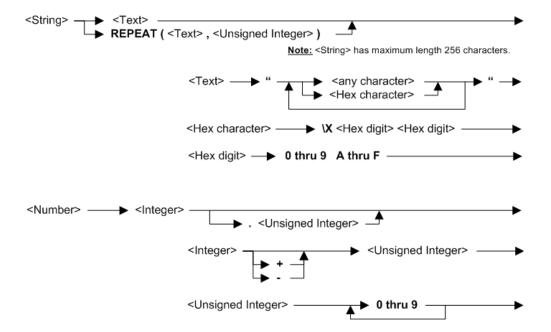
Syntax

ISSPACES(<FieldReference>)





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



Rules for the syntax

ISSPACES can only be used in Extract Record Filter or Extract Column Assignment logic text.

If this functions checks a lookup, and **no effective date** is specified, the lookup uses RUNDAY() - see topic "**Syntax: function RUNDAY**". That topic is elsewhere in this PDF - see the table of contents.

See also topic "Rules for all logic text". That topic is elsewhere in this PDF - see the table of contents.

Examples: ISSPACES function in Extract Record Filter

Example logic text	Meaning
<pre>IF ISSPACES({field9}) THEN SKIP ENDIF</pre>	Skip all input records where field9 is spaces, and select all other records. This example is the same as: SKIPIF(ISSPACES({field9})

Examples: ISSPACES function in Extract Column Assignment

Example logic text	Meaning
<pre>IF ISSPACES({field1}) THEN COLUMN = "DEFAULT" ELSE COLUMN = {field1} ENDIF</pre>	If field1 for the current record is spaces, then set the current column to "DEFAULT", otherwise set the current column to field1.

Syntax: function MONTHSBETWEEN

How do I use MONTHSBETWEEN?

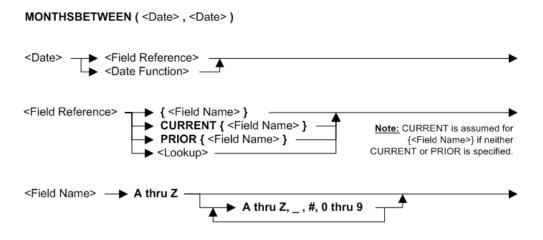
Use MONTHSBETWEEN to compare dates and give an different in months.

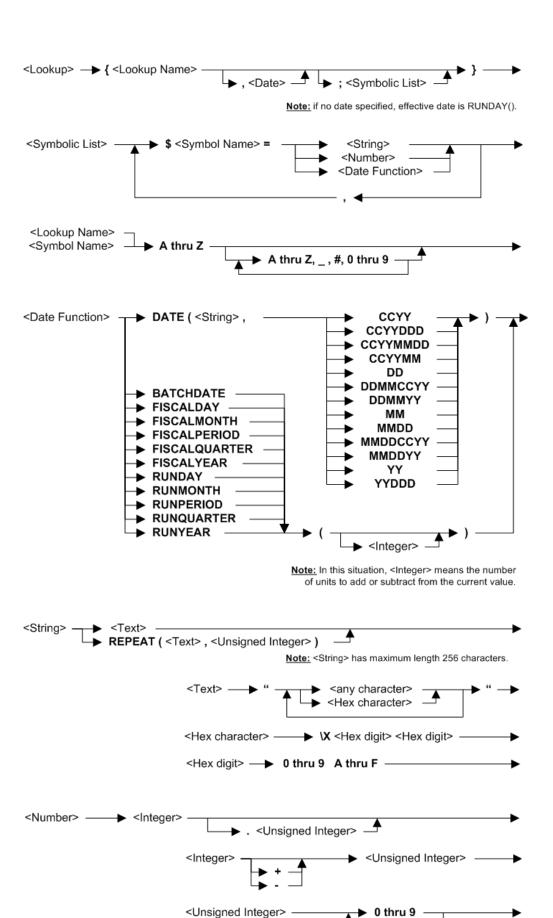
MONTHSBETWEEN can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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

Syntax





Rules for the syntax

MONTHSBETWEEN can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: function MONTHSBETWEEN in Extract Record Filter

Examples: function MONTHSBETWEEN in Extract Column Assignment

Example logic text	Meaning
<pre>COLUMN = MONTHSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	Set the current column to the months between the transaction date and the shipping date.
<pre>IF (MONTHSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	If there is more than one month between the transaction date and the shipping date, then set the current column to the shipping date, otherwise set the current column to the transaction date.
<pre>IF (MONTHSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	Write to extract 3 those records where there are more than 6 months between the transaction date and the shipping date.

Syntax: function PRIOR

How do I use PRIOR?

PRIOR means the previous input record. For any input record, you can compare the current value of a field with the value in the previous record.

```
PRIOR is typed before the name of the field, for example: 
    PRIOR {product_code}
```

```
If you type {product code}
```

then this means the value in the current record.

If you use PRIOR, it is recommended you put CURRENT in front of all fields that refer to the current input record. As mentioned, this is not necessary - it is recommended because it makes the logic text much easier to understand. For example:

```
IF ((CURRENT {product_code}) = PRIOR {product_code}) THEN
```

Notice how CURRENT makes the meaning very clear, even though if you omit the word CURRENT then the logic text works the same way. Normally, CURRENT is used only when a statement contains PRIOR.

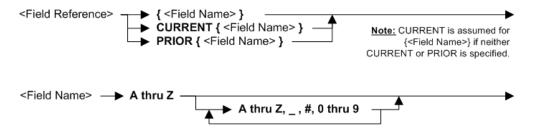
CURRENT and PRIOR can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

- If neither CURRENT nor PRIOR is typed, then CURRENT is assumed.
- CURRENT and PRIOR can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: CURRENT and PRIOR in Extract Record Filter

Examples: CURRENT and PRIOR in Extract Column Assignment

Example logic text

Meaning

```
IF (CURRENT({field2}) <>
   PRIOR({field2}))
   THEN COLUMN = "PRODUCT: "
   ELSE COLUMN = " "
ENDIF
```

If the current record has a different value of field2 from the previous record, set the current column to "PRODUCT: ' otherwise set the current column to blank. This assumes the input file is sorted into field2 order.

Syntax: functions Q1, Q2, Q3 and Q4

How do I use Q1 or Q2 or Q3 or Q4?

These functions return a range of dates that are part of a quarter year (a three month period). You can test if a date is inside that quarter.

For example, this logic text tests if field1 is in the first quarter of this year:

IF
$$(\{field1\} = Q1())$$
 THEN

Since there is no parameter for Q1, then the year that the view runs is the year for the quarter.

If you provide a year in CCYY format, then the quarter applies to that year. For example, this logic text tests if field2 is in the third quarter of 2008:

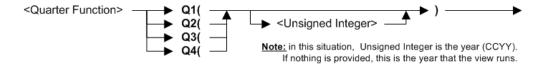
```
IF (\{field2\} = Q3(2008)\}) THEN
```

Q1, Q2, Q3 and Q4 can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

How the syntax works

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

Syntax 1 4 1



Rules for the syntax

- If there is no CCYY parameter, then the year that the view runs is the year for the quarter.
- Q1, Q2, Q3 and Q4 can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Syntax: function REPEAT

How do I use REPEAT?

If you provide a text string and an integer, then REPEAT can create a string that consists of the given text string with integer repetitions. REPEAT is different from ALL because REPEAT has a fixed number of repetitions, whereas ALL is flexible and compares with fields of different lengths.

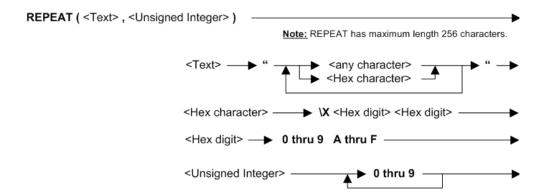
REPEAT can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

Evample logic toyt

- REPEAT can only be used in Extract Record Filter or Extract Column Assignment logic text.
- REPEAT has a maximum length of 256 characters.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: REPEAT function in Extract Record Filter

Example logic text	Meaning
<pre>IF NOT ({field7} =</pre>	Select for output those records with field7 is not equal to 13 dashes. Skip all other records. This example gives the same result as: SKIPIF({field7} = REPEAT("-", 13))
<pre>IF ({field8} = REPEAT("-", 13)) THEN SKIP ENDIF</pre>	Skip for output those records with field8 is equal to 13 dashes. Select all other records. This example gives the same result as: SKIPIF({field8} = REPEAT("-", 13))

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Examples: REPEAT function in Extract Column Assignment

Example logic text

Meaning

```
IF ({field9} = "Total")
                                          If field9 is "Total" then set the current column to
   THEN COLUMN =
                                          13 dashes.
        REPEAT("-", 13)
ENDIF
                                          If field10 is 13 dashes, then set the current
IF ({field10} =
   REPEAT("-", 13))
                                          column to a total of fields 1 and 2.
   THEN COLUMN =
        {field1} + {field2}
ENDIF
```

Syntax: function RUNDAY

What is RUNDAY?

Normally, the date PE runs is the "run date".

RUNDAY returns a CCYYMMDD format date based on the run date. All views in the batch use the same base date for RUNDAY.

How do I use RUNDAY?

The parameter for RUNDAY is a number of days to add or delete from the default RUNDAY. For example, RUNDAY(-5) provides the day five days before the date the view is run.

RUNDAY can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

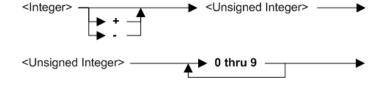
<text> Indicates a reference to another part of this syntax.

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

Syntax



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



Rules for the syntax

RUNDAY can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: RUNDAY function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field1} < RUNDAY(-7)) THEN SKIP ENDIF</pre>	Skip any input records where field1 is more than 7 days before the date of running this view, and select all other records. This example assumes that field1 is a date. The code at left can also be written as: SKIPIF({field1} < RUNDAY(-7))

Examples: RUNDAY function in Extract Column Assignment

Example logic text	Meaning
COLUMN = RUNDAY()	Set the current column to the same day number as the view is run.

Syntax: function RUNMONTH

What is RUNMONTH?

Normally, the date that PE runs is the "run date".

RUNMONTH returns a CCYYMM format date based on the run date. All views in a batch use the same base date for RUNMONTH.

How do I use RUNMONTH?

The parameter for RUNMONTH is a number of months to add or delete from the default RUNMONTH. For example, RUNMONTH(-5) provides the day five months before the date the view is run.

RUNMONTH can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

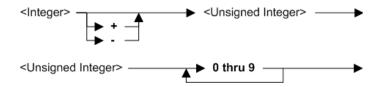
How the syntax works

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

Syntax



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



Rules for the syntax

RUNMONTH can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: RUNMONTH function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field2} >= RUNMONTH(-1)) THEN SELECT ENDIF</pre>	Select any input records where field2 is the previous month or later, and skip all other records. The example at left assumes that field2 is a month number. The code at left can also be written as: SELECTIF({field2} >= RUNMONTH(-1))

Examples: RUNMONTH function in Extract Column Assignment

Example logic text	Meaning
COLUMN = RUNMONTH()	Set the current column to the current month number.

Syntax: function RUNPERIOD

What is RUNPERIOD?

RUNPERIOD is a similar concept to month. The difference is that there can be 13 periods in a year instead of 12. Periods are defined in the control record for the environment of the view.

Normally, the date that PE runs is the "run date".

RUNPERIOD returns a CCYYMM format date based on the run date and the period definition in the control record. All views in a batch use the same base date for RUNPERIOD.

How do I use RUNPERIOD?

The parameter for RUNPERIOD is a number of periods to add or delete from the default RUNPERIOD. For example, RUNPERIOD(-5) provides the day five periods before the date the view is run.

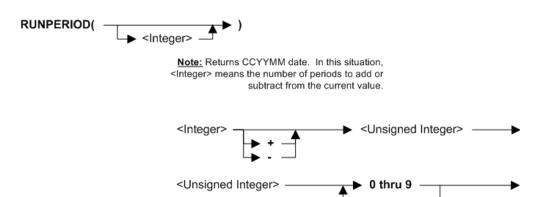
RUNPERIOD can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

RUNPERIOD can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: RUNPERIOD function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field3} >= RUNPERIOD(-1)) THEN SELECT ENDIF</pre>	Select any input records where field3 is the previous period or later, and skip all other records. The example at left assumes that field3 is a period number. The code at left can also be written as: SELECTIF({field3} >= RUNPERIOD(-1))

Examples: RUNPERIOD function in Extract Column Assignment

Example logic text	Meaning
COLUMN = RUNPERIOD()	Set the current column to the current period number.

Syntax: function RUNQUARTER

What is RUNQUARTER?

Normally, the date that PE runs is the "run date".

RUNQUARTER returns a CCYYMM format date (at the start of a quarter) based on the run date. All views in a batch use the same base date for RUNQUARTER.

How do I use RUNQUARTER?

The parameter for RUNQUARTER is a number of quarters to add or delete from the default RUNQUARTER. For example, RUNQUARTER(-5) provides the day five quarters before the date the view is run.

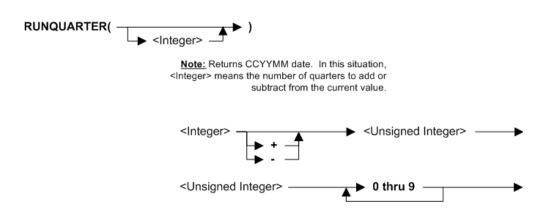
RUNQUARTER can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

RUNQUARTER can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Syntax: function RUNYEAR

What is RUNYEAR?

Normally, the date that PE runs is the "run date".

RUNYEAR returns a CCYY format date based on the run date. All views in a batch use the same base date for RUNYEAR.

How do I use RUNYEAR?

The parameter for RUNYEAR is a number of years to add or delete from the default RUNYEAR. For example, RUNYEAR(-5) provides a date five years before the date the view is run.

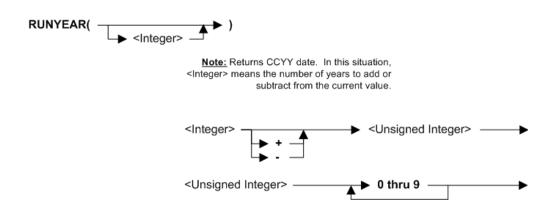
RUNYEAR can only be used in Extract Record Filter or Extract Column Assignment logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

RUNYEAR can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: RUNYEAR function in Extract Record Filter

Example logic text	Meaning
<pre>IF ({field4} = RUNYEAR(-1)) THEN SELECT ENDIF</pre>	Select any input records where field4 is the previous year, and skip all other records. The example at left assumes that field4 is a year number. The code at left can also be written as: SELECTIF({field4} = RUNYEAR(-1))

Examples: RUNYEAR function in Extract Column Assignment

Example logic text	Meaning
COLUMN = RUNYEAR()	Set the current column to the current year number.

Syntax: function YEARSBETWEEN

How do I use YEARSBETWEEN?

Use YEARSBETWEEN to compare dates and give an different in years.

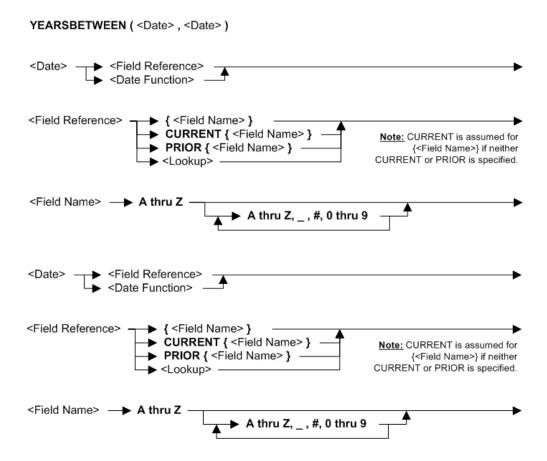
YEARSBETWEEN can only be used in Extract Record Filter or Extract Column Assignment logic text.

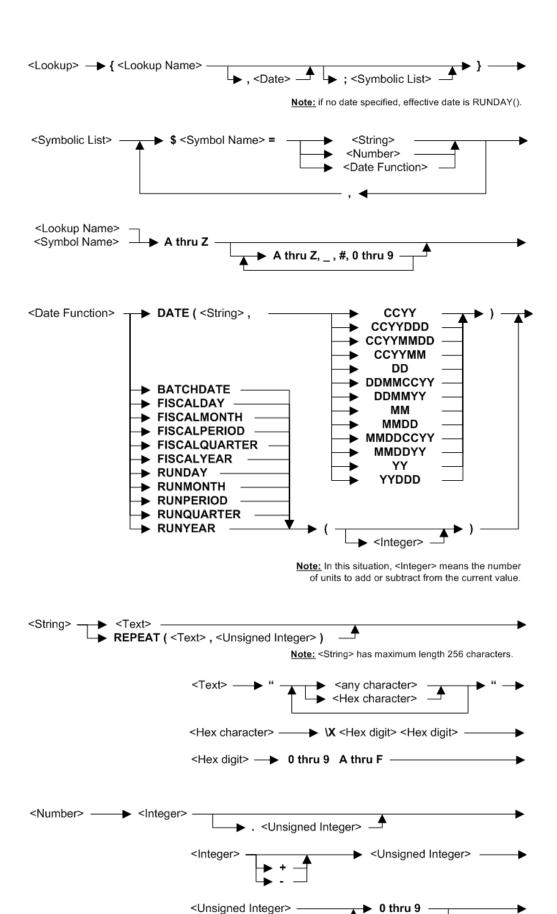
How the syntax works

Indicates a reference to another part of this syntax.

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

Syntax





Rules for the syntax

YEARSBETWEEN can only be used in Extract Record Filter or Extract Column Assignment logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: function YEARSBETWEEN in Extract Record Filter

Example logic text	Meaning
<pre>IF (YEARSBETWEEN({field1},{field2})</pre>	Select only records where there is at least one year between field1 and field2, and skip all other records This example can also be written: SELECTIF(YEARSBETWEEN({field1}, {field2})) >= 1)

Examples: function YEARSBETWEEN in Extract Column Assignment

Example logic text	Meaning
<pre>COLUMN = YEARSBETWEEN({BUY_DATE},{SHIP_DATE})</pre>	Set the current column to the years between the transaction date and the shipping date.
<pre>IF (YEARSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	If there is at least one year between the transaction date and the shipping date, then set the current column to the shipping date, otherwise set the current column to the transaction date.
<pre>IF (YEARSBETWEEN({BUY_DATE}, {SHIP_DATE})</pre>	Write to extract 3 those records where there is at least one year between the transaction date and the shipping date.

Chapter 4. Syntax: string comparison

Syntax: BEGINS_WITH

How do I use BEGINS_WITH?

BEGINS_WITH are keywords that are used as string comparison operators. You can check a string begins with certain characters.

For example, a field with "LONDON" begins with the string "L" and "LO" and even "LONDON".

BEGINS_WITH is an example of string comparisons that return a true or false value that can be part of an IF statement.

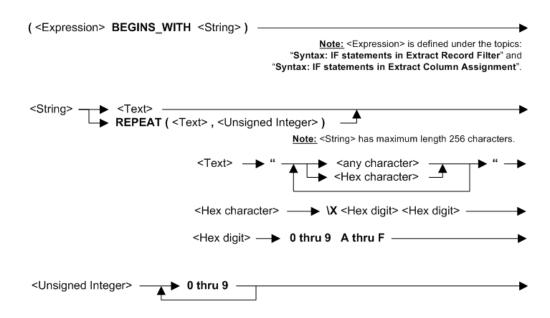
BEGINS_WITH can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

BEGINS_WITH can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: BEGINS_WITH in Extract Record Filter

Example logic text

Meaning

SELECTIF({field1} BEGINS WITH "BBB") Select input records where field1 begins with characters "BBB", and skip all other records.

IF ({field1} BEGINS_WITH "BBB") THEN SELECT **FNDTF**

Select input records where field1 begins with characters "BBB", and skip all other records. This example can be written:

SELECTIF({field1} BEGINS WITH "BBB")

Examples: BEGINS_WITH in Extract Column Assignment

Example logic text

Meaning

IF ({field1} BEGINS WITH "BBB") THEN $\overline{COLUMN} = \{field1\}$ ELSE COLUMN = " "

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to blank.

Syntax: CONTAINS

How do I use CONTAINS?

CONTAINS is a keyword that is used as a string comparison operator. You can check a string contains with certain characters.

For example, a field with "LONDON" contains the string "ON" and "DO" and even "LONDON".

CONTAINS is an example of string comparisons that return a true or false value that can be part of an IF statement.

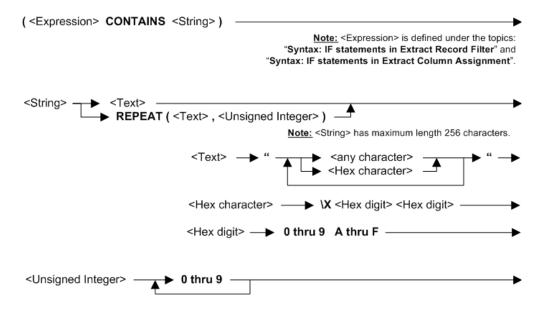
CONTAINS can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

CONTAINS can only be used in Extract Record Filter or Extract Column **Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: CONTAINS in Extract Record Filter

Example logic text	Meaning
SELECTIF({field2} CONTAINS "CCC")	Select input records where field2 contains characters "CCC", and skip all other records.
IF ({field2} CONTAINS "CCC") THEN SELECT	Select input records where field2 contains characters "CCC", and skip all other records. This example can be written:
ENDIF	<pre>SELECTIF({field2} CONTAINS "CCC")</pre>

Examples: CONTAINS in Extract Column Assignment

Example logic text	Meaning
<pre>IF ({field2} CONTAINS "CCC") THEN COLUMN = {field2} ELSE COLUMN = " "</pre>	If field2 contains characters "CCC" then set the current column to field2, otherwise set the current column to blank.

Syntax: ENDS_WITH

How do I use ENDS_WITH?

ENDS_WITH are keywords that are used as string comparison operators. You can check a string ends with certain characters.

For example, a field with "LONDON" begins with the string "N" and "ON" and even "LONDON".

ENDS_WITH is an example of string comparisons that return a true or false value that can be part of an IF statement.

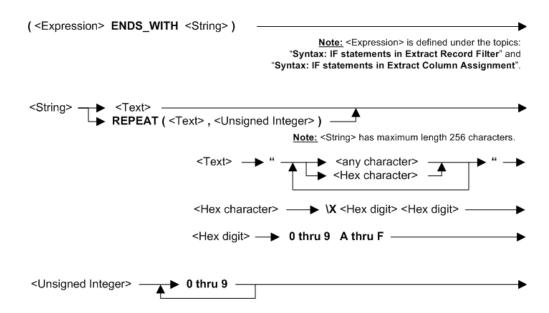
ENDS_WITH can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

How the syntax works

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

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

Syntax



Rules for the syntax

ENDS_WITH can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: ENDS_WITH in Extract Record Filter

Example logic text Meaning SELECTIF({field3} Select input records where field3 ends with characters "EEE", and skip all other records. IF ({field3} Select input records where field3 ends with characters "EEE", and skip all other records.

THEN SELECT

ENDIF

This example can be written:

SELECTIF({field3} ENDS WITH "EEE")

Examples: ENDS_WITH in Extract Column Assignment

Example logic text Meaning If ({field3} If field3 ends with characters "EEE" then set the current column to field3, otherwise set the current column to blank. ELSE COLUMN = " " ENDIF

Syntax: LIKE

How do I use LIKE?

LIKE is a keyword that is used as a string comparison operator. You can check a string contains certain characters in certain positions.

For example, a field with "It is raining in London" starts with "I" and contains "rain" and ends with "on". All these things can be checked in one use of LIKE.

LIKE is an example of string comparisons that return a true or false value that can be part of an IF statement.

LIKE can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

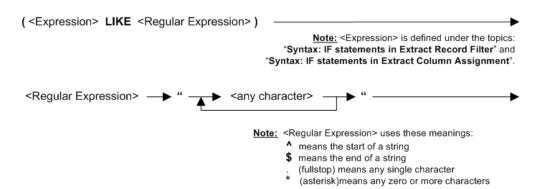
LIKE has exactly the same effect as MATCHES (another string comparison operator).

How the syntax works

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

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

Syntax



Rules for the syntax

- LIKE can only be used in Extract Record Filter or Extract Column Assignment logic text.
- LIKE has exactly the same effect as **MATCHES** (another string comparison operator).

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: LIKE in Extract Record Filter

Character "^" means the start of a string.

Character "\$" means the end of a string.

Character "." means any single character.

Character "*" means zero or more characters at this point.

Example logic text	Meaning
SELECTIF({field1} LIKE "MA")	Select input records where field1 is exactly 5 characters starting with "MA", and skip all other records.
SELECTIF({field1} LIKE "VA")	Select input records where field1 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.
SELECTIF({field1} LIKE "NA")	Select input records where field1 is exactly 6 characters ending in "NA", and skip all other records.
<pre>SELECTIF({field1} LIKE "^BBB*")</pre>	Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.

Example logic text	Meaning
<pre>IF ({field1} LIKE "^BBB*") THEN SELECT ENDIF</pre>	Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as:
	SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
SELECTIF({field1} LIKE "*CCC*")	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as:
	SELECTIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
<pre>IF ({field1} LIKE "*CCC*") THEN SELECT ENDIF</pre>	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as:
	<pre>SELECTIF({field1} CONTAINS "CCC")</pre>
	It is better to use CONTAINS because the logic text executes faster.
SELECTIF({field1} LIKE "*EEE\$")	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as:
	<pre>SELECTIF({field1} ENDS_WITH "EEE")</pre>
	It is better to use ENDS_WITH because the logic text executes faster.
<pre>IF ({field1} LIKE "*EEE\$") THEN SELECT ENDIF</pre>	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as:
	<pre>SELECTIF({field1} ENDS_WITH "EEE")</pre>
	It is better to use ENDS_WITH because the logic text executes faster.
SELECTIF({field1} LIKE "^B*C*E\$")	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records.
<pre>IF ({field1} LIKE "^B*C*E\$") THEN SELECT ENDIF</pre>	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records.

Examples: LIKE in Extract Column Assignment

Character "^" means the start of a string.

Character "\$" means the end of a string.

Character "." means any single character.

Character "*" means zero or more characters at this point.

Example logic text

IF ({field1} LIKE "MA...") THEN COLUMN = {field1} ELSE COLUMN = " " ENDIF IF ({field1} LIKE "...VA..") THEN COLUMN = {field1} ELSE COLUMN = " " ENDIF IF ({field1} LIKE "....NA")

IF ({field1} LIKE "....NA" THEN COLUMN = {field1} ELSE COLUMN = " " ENDIF

```
IF ({field1} LIKE "^BBB*")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
FNDIF
```

```
IF ({field1} LIKE "*CCC*")
  THEN COLUMN = {field1}
  ELSE COLUMN = " "
ENDIF
```

```
IF ({field1} LIKE "*EEE$")
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
```

```
IF ({field1}
  LIKE "^B*C*E$")
  THEN COLUMN = {field1}
  ELSE COLUMN = " "
ENDIF
```

Meaning

Select input records where field1 is exactly 5 characters starting with "MA", and skip all other records.

Select input records where field1 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.

Select input records where field1 is exactly 6 characters ending in "NA", and skip all other records.

If field1 begins with characters "BBB" then set the current column to field1, otherwise set the current column to blank.

If field1 contains characters "CCC" then set the current column to field1, otherwise set the current column to blank.

If field1 ends with characters "EEE" then set the current column to field1, otherwise set the current column to blank.

If field1 begins with "B", contains "C" and ends with "E" then set the current column to field1, otherwise set the current column to blank.

Syntax: MATCHES

How do I use MATCHES?

MATCHES is a keyword that is used as a string comparison operator. You can check a string contains certain characters in certain positions.

For example, a field with "It is raining in London" starts with "I" and contains "rain" and ends with "on". All these things can be checked in one use of MATCHES.

MATCHES is an example of string comparisons that return a true or false value that can be part of an IF statement.

MATCHES can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.

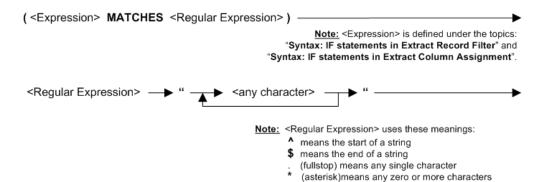
MATCHES has exactly the same effect as LIKE (another string comparison operator).

How the syntax works

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

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

Syntax



Rules for the syntax

- MATCHES can only be used in **Extract Record Filter** or **Extract Column Assignment** logic text.
- MATCHES has exactly the same effect as LIKE (another string comparison operator).

See also topic "Rules for all logic text". To find that topic in a PDF, see chapter "Cross reference of topics and PDF files".

Examples: MATCHES in Extract Record Filter

Character "^" means the start of a string.

Character "\$" means the end of a string.

Character "." means any single character.

Character "*" means zero or more characters at this point.

Example logic text	Meaning
SELECTIF({field1} MATCHES "MA")	Select input records where field1 is exactly 5 characters starting with "MA", and skip all other records.
SELECTIF({field1} MATCHES "VA")	Select input records where field1 is exactly 6 characters with characters 3 and 4 as "VA", and skip all other records.
SELECTIF({field1} MATCHES "NA")	Select input records where field1 is exactly 6 characters ending in "NA", and skip all other records.

Example logic text	Meaning
SELECTIF({field1} MATCHES "^BBB*")	Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
IF ({field1} MATCHES "^BBB*") THEN SELECT ENDIF	Select input records where field1 begins with characters "BBB", and skip all other records. This example has the same effect as: SELECTIF({field1} BEGINS_WITH "BBB")
	It is better to use BEGINS_WITH because the logic text executes faster.
SELECTIF({field1} MATCHES "*CCC*")	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as: SELECTIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
IF ({field1} MATCHES "*CCC*") THEN SELECT ENDIF	Select input records where field1 contains characters "CCC", and skip all other records. This example has the same effect as: SELECTIF({field1} CONTAINS "CCC")
	It is better to use CONTAINS because the logic text executes faster.
SELECTIF({field1} MATCHES "*EEE\$")	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as: SELECTIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
IF ({field1} MATCHES "*EEE\$") THEN SELECT ENDIF	Select input records where field1 ends with characters "EEE", and skip all other records. This example has the same effect as: SELECTIF({field1} ENDS_WITH "EEE")
	It is better to use ENDS_WITH because the logic text executes faster.
SELECTIF({field1} MATCHES "^B*C*E\$")	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records.
IF ({field1} MATCHES "^B*C*E\$") THEN SELECT ENDIF	Select input records where field1 begins with "B", contains "C" and ends with "E", and skip all other records. T

Examples: MATCHES in Extract Column Assignment

Character "^" means the start of a string.

Character "\$" means the end of a string.

Character "." means any single character.

Character "*" means zero or more characters at this point.

Example logic text

Meaning

```
IF ({field1}
                                    Select input records where field1 is exactly 5 characters
   MATCHES "MA...")
                                    starting with "MA", and skip all other records.
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1}
                                    Select input records where field1 is exactly 6 characters
   MATCHES "..VA..")
                                    with characters 3 and 4 as "VA", and skip all other
   THEN COLUMN = {field1}
                                    records.
   ELSE COLUMN = " "
ENDIF
IF ({field1} |
                                    Select input records where field1 is exactly 6 characters
   MATCHES "....NA")
                                    ending in "NA", and skip all other records.
   THEN COLUMN = {field1}
   ELSE COLUMN = " "
ENDIF
IF ({field1}
                                    If field1 begins with characters "BBB" then set the
   MATCHES "^BBB*")
                                    current column to field1, otherwise set the current
   THEN COLUMN = {field1}
                                    column to blank.
   ELSE COLUMN = " "
ENDIF
                                    If field1 contains characters "CCC" then set the current
IF ({field1}
   MATCHES "*CCC*")
                                    column to field1, otherwise set the current column to
   THEN COLUMN = {field1}
                                    blank.
   ELSE COLUMN = " "
ENDIF
IF ({field1}
                                    If field1 ends with characters "EEE" then set the
   MATCHES "*EEE$")
                                    current column to field1, otherwise set the current
   THEN COLUMN = {field1}
                                    column to blank.
   ELSE COLUMN = " "
ENDIF
IF ({field1}
                                    If field1 begins with "B", contains "C" and ends with
   MATCHES "^B*C*E$")
                                    "E" then set the current column to field1, otherwise set
   THEN COLUMN = {field1}
                                    the current column to blank.
   ELSE COLUMN = " "
ENDIF
```

Chapter 5. Cross reference of topics and PDF files

How to download a PDF

Go to SAFR Information Center, select **About this Information Center** and select **PDF**. Follow the instructions on that page.

Alphabetical list of topics

Note the following:

- "InfoCtr4150" means the PDF called "SAFR Information Center 4.15.00" which contains all help topics.
- "Top 3" means the PDF called "Top 3 Admin Guide, General Users Guide and Overviews".

Find the required topic in the first column below. The columns to the right show the PDFs that contain that topic.

Topic	PDF	PDF	PDF	PDF
Add View Source errors	Troubleshooting			InfoCtr4150
Add View Source screen help	Screens			InfoCtr4150
Admin Guide	Admin Guide		Top 3	InfoCtr4150
Administrators START HERE	Admin Guide		Тор 3	InfoCtr4150
Basics of using the SAFR Workbench	Admin Guide	General Users Guide	Тор 3	InfoCtr4150
Batch activate lookup paths	Admin Guide		Top 3	InfoCtr4150
Batch Activate Lookup Paths errors	Troubleshooting			InfoCtr4150
Batch Activate Lookup Paths screen help	Screens			InfoCtr4150
Batch activate views	Admin Guide		Top 3	InfoCtr4150
Batch Activate Views errors	Troubleshooting			InfoCtr4150
Batch Activate Views screen help	Screens			InfoCtr4150
Change Log Path screen help	Screens			InfoCtr4150
Changing Log Path	Admin Guide	General Users Guide	Тор 3	InfoCtr4150
Checking metadata dependencies	Admin Guide		Top 3	InfoCtr4150
Clear environment	Admin Guide		Top 3	InfoCtr4150
Clear environment messages	Screens			InfoCtr4150
Column Source Properties errors	Troubleshooting			InfoCtr4150

Topic	PDF	PDF	PDF	PDF
Column Source Properties screen help	Screens			InfoCtr4150
Common Key Buffers overview	Overviews		Тор 3	InfoCtr4150
Control records overview	Overviews		Top 3	InfoCtr4150
Copying metadata	Admin Guide		Top 3	InfoCtr4150
Create New Extract Column Assignment errors	Troubleshooting			InfoCtr4150
Create New Extract Column Assignment screen help	Screens			InfoCtr4150
Create New Extract Record Filter errors	Troubleshooting			InfoCtr4150
Create New Extract Record Filter screen help	Screens			InfoCtr4150
Create New Format-Phase Calculation errors	Troubleshooting			InfoCtr4150
Create New Format-Phase Calculation screen help	Screens			InfoCtr4150
Create New Format-Phase Record Filter errors	Troubleshooting			InfoCtr4150
Create New Format-Phase Record Filter screen help	Screens			InfoCtr4150
Creating control records	Admin Guide		Top 3	InfoCtr4150
Creating environments	Admin Guide		Top 3	InfoCtr4150
Creating global fields	Admin Guide		Top 3	InfoCtr4150
Creating groups	Admin Guide		Top 3	InfoCtr4150
Creating logical files	Admin Guide		Top 3	InfoCtr4150
Creating logical records	Admin Guide		Top 3	InfoCtr4150
Creating lookup paths	General Users Guide		Top 3	InfoCtr4150
Creating physical files	Admin Guide		Top 3	InfoCtr4150
Creating user-exit routines	Admin Guide		Top 3	InfoCtr4150
Creating users	Admin Guide		Top 3	InfoCtr4150
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Creating views	General Users Guide		Top 3	InfoCtr4150
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