

Calculated (Custom) Fields – DATE MATH

Objective	Format Specifications	Example															
CURRENT DATE	Date (L) YYYY-MM-DD 10-L	<table border="1"> <thead> <tr> <th>New Field</th> <th>Expression</th> </tr> </thead> <tbody> <tr> <td>TODAY</td> <td>CURRENT (DATE)</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	New Field	Expression	TODAY	CURRENT (DATE)											
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TODAY	CURRENTDAY	CURRENTMTH	CURRENTYR
12/12/17	12	12	2,017
12/12/17	12	12	2,017
12/12/17	12	12	2,017
12/12/17	12	12	2,017

New Field	Expression
DAYSAG01	(CURRENT (DATE)) -1 DAY
Or	
	(CURRENT (DATE)) -00000001

Field Name	Text	Length	Dec
TODAY	CURRENT (DATE)	8	L
DAYSAG01	(CURRENT (DATE)) -1 DAY	8	L
WEEKAG01	(CURRENT (DATE)) -7 DAYS	8	L
MONTHAG01	(CURRENT (DATE)) -1 MONTH	8	L
MONTHAG06	(CURRENT (DATE)) -6 MONTHS	8	L
YEARAG01	(CURRENT (DATE)) -1 YEAR	8	L

TODAY	DAYSAG01	WEEKAG01	MONTHAG01	MONTHAG06	YEARAG01
12/12/17	12/11/17	12/05/17	11/12/17	06/12/17	12/12/16
12/12/17	12/11/17	12/05/17	11/12/17	06/12/17	12/12/16
12/12/17	12/11/17	12/05/17	11/12/17	06/12/17	12/12/16
12/12/17	12/11/17	12/05/17	11/12/17	06/12/17	12/12/16

NUMERIC SUBSTRING Example – combining the expressions into one

ZIP5TEXT	digits(zipcd)	Zip Code CHAR
ZIP5	substr(zip5text,1,5)	Zip Code
		5-Digit
ZIP5X	substr(digits(zipcd),1,5)	Zip in
		one code

Field/Column Format Chart

Type	Length	Decimal	Denotes a column of...
ALPHANUMERIC	variable	<i>blank</i>	Text
NUMERIC (aka DECIMAL)	variable	0 - 31	decimal number with an implicit decimal point. The position of the decimal point is determined by the precision (length) and the scale (decimal positions) of the number. The scale, which is the number of digits in the fractional part of the number (to the right of the decimal point), cannot be negative or greater than the precision. The maximum precision is 31 digits.
DATE YYYY-MM-DD	10	L	A <i>date</i> is a three-part value representing a year, month, and day in the range of 0001-01-01 to 9999-12-31.
TIME HH.DD.SS	8	T	A <i>time</i> is a three-part value representing a time of day in hours, minutes, and seconds, in the range of 00.00.00 to 24.00.00.
TIMESTAMP YYYY-MM-DD-HH.MM.SS.xxxxxx	26	Z	A <i>timestamp</i> is a seven-part value representing a date and time by year, month, day, hour, minute, second, and microsecond, in the range of 0001-01-01-00.00.00.000000000 to 9999-12-31-24.00.00.000000000 with nanosecond precision. Timestamps can also hold timezone information.

AGE CALCULATION Example – Years, Months, Days

TODAY	current (date)	Current
		Date
DOB	SUBSTR(DIGITS(BTDATE),1,2) '/'	Date of
	SUBSTR(DIGITS(BTDATE),3,2) '/'	Birth
	SUBSTR(DIGITS(BRTHYR),1,4)	
AGE	(DATE(TODAY)) - (DATE(DOB))	Age
		Yrs/MM/Dys
#YRS	SUBSTR(DIGITS(AGE),1,4)	Age
		(Years)

Line+.....1.....+.....2.....+.....3.....+.....4.....+				
	Current	Date of	Age	Age	
	Date	Birth	Yrs/MM/Dys	(Years)	
000001	03/15/18	04/24/1927	901,021	0090	
000002	03/15/18	01/24/1969	490,122	0049	
000003	03/15/18	11/11/1946	710,404	0071	
000004	03/15/18	12/31/1967	500,215	0050	
000005	03/15/18	12/31/1967	500,215	0050	
000006	03/15/18	02/28/1963	550,015	0055	
000007	03/15/18	07/01/1926	910,814	0091	