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Numeric functions

EQL supports the following numeric functions.

Function	Description and Example
addition	The addition operator (+).
	SELECT NortheastSales + SoutheastSales AS EastTotalSales
subtraction	The subtraction operator (-).
	SELECT SalesRevenue - TotalCosts AS Profit
multiplication	The multiplication operator (*).
	SELECT Price * 0.7 AS SalePrice
division	The division operator (/).
	SELECT YearTotal / 4 AS QuarterAvg
ABS	Returns the absolute value of n.
	If n is 0 or a positive integer, returns n.
	Otherwise, n is multiplied by -1.
	SELECT ABS(-1) AS one
	RESULT: one = 1
CEIL	Returns the smallest integer value not less than n.
	SELECT CEIL(123.45) AS x, CEIL(32) AS y, CEIL(-123.45) AS z
	RESULT : $x = 124$, $y = 32$, $z = -123$
EXP	Exponentiation, where the base is e.
	Returns the value of e (the base of natural logarithms) raised to the power n.
	SELECT EXP(1.0) AS baseE
	RESULT : baseE = e^1.0 = 2.71828182845905
FLOOR	Returns the largest integer value not greater than n.
	SELECT FLOOR(123.45) AS x, FLOOR(32) AS y, FLOOR(-123.45) AS z
	RESULT : $x = 123$, $y = 32$, $z = -124$

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Function	Description and Example
LN	Natural logarithm. Computes the logarithm of its single argument, the base of which is e.
	SELECT LN(1.0) AS baseE
	RESULT : baseE = e^1.0 = 0
LOG	Logarithm. log(n, m) takes two arguments, where n is the base, and m is the value you are taking the logarithm of.
	Log(10,1000) = 3
MOD	Modulo. Returns the remainder of n divided by m.
	Mod(10,3) = 1
	EQL uses the fmod floating point remainder, as defined in the C/POSIX standard.
ROUND	Returns a number rounded to the specified decimal place.
	The unary (one argument) version takes only one argument (the number to be rounded) and drops the decimal (non-integral) portion of the input. For example:
	ROUND(8.2) returns 8 ROUND(8.7) returns 9
	The binary (two argument) version takes two arguments (the number to be rounded and a positive or negative integer that allows you to set the number of spaces at which the number is rounded). The binary version always returns a double:
	Positive second arguments correspond to the number of places that must be returned after the decimal point. For example:
	ROUND(123.4567, 3) returns 123.457
	Negative second arguments correspond to the number of places that must be returned before the decimal point. For example:
	ROUND(123.4, -3) returns 0 ROUND(1234.56, -3) returns 1000
SIGN	Returns the sign of the argument as -1, 0, or 1, depending on whether n is negative, zero, or positive. The result is always a double.
	SELECT SIGN(-12) AS x, SIGN(0) AS y, SIGN(12) AS z
	RESULT : $x = -1$, $y = 0$, $z = 1$
SQRT	Returns the nonnegative square root of n.
	SELECT SQRT(9) AS x
	RESULT: x = 3

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Returns the number n truncated to m decimal places. If m is 0, the result has no decimal point or ractional part. The unary (one argument) version drops the decimal (non-integral) portion of the input. For xample: SELECT TRUNC(3.14159265) AS x
ractional part. The unary (one argument) version drops the decimal (non-integral) portion of the input. For xample:
xample:
SELECT TRUNC(3.14159265) AS x
RESULT: x = 3
The binary (two argument) version allows you to set the number of spaces at which the number is truncated. The binary version always returns a double. For example:
SELECT TRUNC(3.14159265, 3) AS y
RESULT : y = 3.141
he sine of n, where the angle of n is in radians.
SIN(3.14159/6) = 0.499999616987256
he cosine of n, where the angle of n is in radians.
COS(3.14159/3) = 0.500000766025195
he tangent of n, where the angle of n is in radians.
TAN(3.14159/4) = 0.999998673205984
Returns the value (as a double) of n raised to the power of m.
Power(2,8) = 256
Casts a string representation of a timestamp into a number of milliseconds so that it can be sed as a duration.
Casts a string representation of an integer as a double.
Casts TRUE/FALSE to 1/0.
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