**Funciones matemáticas**

[https://dev.mysql.com/doc/refman/8.0/en/mathematical-functions.html]( https://dev.mysql.com/doc/refman/8.0/en/mathematical-functions.html)

Todas las funciones matemáticas retornan **NULL** en caso de error.

**ABS(*X*)**

Retorna el valor absoluto de ***X***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ABS](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_abs&token=535bb7f7b487b1faac186f0b64b0a2ea)( [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=535bb7f7b487b1faac186f0b64b0a2ea)32 ); 🡪32

**CEILING(*X*)**, **CEIL(*X*)**

Redondea a la unidad superior.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [CEILING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_ceiling&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.23) 🡪 2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [CEILING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_ceiling&token=535bb7f7b487b1faac186f0b64b0a2ea)(-1.23) 🡪 -1

**FLOOR(*X*)**

Redondea a la unidad inferior.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [FLOOR](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_floor&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.23) 🡪 1

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [FLOOR](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_floor&token=535bb7f7b487b1faac186f0b64b0a2ea)(-1.23) 🡪 -2

**MOD(*N*,*M*)** , ***N* % *M***, ***N* MOD *M***

Operación de módulo. Retorna el resto de ***N*** dividido por ***M***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [MOD](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_mod&token=535bb7f7b487b1faac186f0b64b0a2ea)( 234, 10 ) 🡪4

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) 253 [%](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_mod&token=535bb7f7b487b1faac186f0b64b0a2ea)7 🡪 1

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [MOD](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_mod&token=535bb7f7b487b1faac186f0b64b0a2ea)( 29, 9 ) 🡪2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) 29 MOD 9 🡪 2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [MOD](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_mod&token=535bb7f7b487b1faac186f0b64b0a2ea)(34.5,3) 🡪 1.5

**POW(*X*,*Y*)** , **POWER(*X*,*Y*)**

Retorna el valor de ***X*** a la potencia de ***Y***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [POW](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_pow&token=535bb7f7b487b1faac186f0b64b0a2ea)( 2, 2 ) 🡪 4

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [POW](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_pow&token=535bb7f7b487b1faac186f0b64b0a2ea)( 2 , [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=535bb7f7b487b1faac186f0b64b0a2ea)2 ) 🡪 0.25

**ROUND(*X*)**, **ROUND(*X*,*D*)**

Retorna el argumento ***X***, redondeado al entero más cercano. Con dos argumentos, retorna ***X*** redondeado a ***D*** decimales. ***D*** puede ser negativo para redondear ***D*** dígitos a la izquierda del punto decimal del valor ***X***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(-1.23) 🡪-1

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(-1.58) 🡪-2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.58) 🡪2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.298 , 1) 🡪1.3

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.298, 0) 🡪1

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(23.298, -1) 🡪20

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=bec9c1c9bda648e6ba135021d6fb6543) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=bec9c1c9bda648e6ba135021d6fb6543)( 25499.324, [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=bec9c1c9bda648e6ba135021d6fb6543)3 ) 🡪 25000

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=bec9c1c9bda648e6ba135021d6fb6543) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=bec9c1c9bda648e6ba135021d6fb6543)( 25500.324, [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=bec9c1c9bda648e6ba135021d6fb6543)3 ) 🡪 26000

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [ROUND](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.5) 🡪2

**SIGN(*X*)**

Retorna el signo del argumento como **-1**, **0**, o **1**, en función de si ***X*** es negativo, cero o positivo.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SIGN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(-32) 🡪-1

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SIGN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(0) 🡪0

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SIGN](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_round&token=535bb7f7b487b1faac186f0b64b0a2ea)(234) 🡪1

**SQRT(*X*)**

Retorna la raíz cuadrada de un número no negativo. ***X***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SQRT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_sqrt&token=535bb7f7b487b1faac186f0b64b0a2ea)( 4 ) 🡪2

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SQRT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_sqrt&token=535bb7f7b487b1faac186f0b64b0a2ea)( 20 )🡪4.47213595499958

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [SQRT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_sqrt&token=535bb7f7b487b1faac186f0b64b0a2ea)([-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=535bb7f7b487b1faac186f0b64b0a2ea)16)🡪 NULL

**TRUNCATE(*X*,*D*)**

Retorna el número ***X***, truncado a ***D*** decimales. Si ***D*** es 0, el resultado no tiene punto decimal o parte fraccional. ***D*** puede ser negativo para truncar (hacer cero) ***D*** dígitos a la izquierda del punto decimal del valor ***X***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [TRUNCATE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_truncate&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.234567,4) 🡪1.2345

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea) [TRUNCATE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_truncate&token=535bb7f7b487b1faac186f0b64b0a2ea)(1.234567,0) 🡪1

**[SELECT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=535bb7f7b487b1faac186f0b64b0a2ea" \t "mysql_doc)** [TRUNCATE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fmathematical-functions.html%23function_truncate&token=535bb7f7b487b1faac186f0b64b0a2ea)(122,[-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=535bb7f7b487b1faac186f0b64b0a2ea)2) 🡪 100