**Funciones para Cadenas de Caracteres:**

<http://dev.mysql.com/doc/refman/5.7/en/string-functions.html>

**CONCAT(*str1*,*str2*,...)**

Retorna la cadena resultado de concatenar los argumentos. Retorna **NULL** si algún argumento es **NULL**. Puede tener uno o más argumentos.

**INSERT(*str*,*pos*,*len*,*newstr*)**

Retorna la cadena ***str***, con la subcadena comenzando en la posición ***pos*** y ***len*** caracteres reemplazados por la cadena ***newstr***. Retorna la cadena original si ***pos*** no está entre la longitud de la cadena. Remplaza el resto de la cadena a partir de la posición ***pos*** si ***len*** no está dentro de la longitud del resto de la cadena. Retorna **NULL** si cualquier argumento es nulo.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [INSERT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_insert&token=33088f20ea41b5f8671baaff4c572bc6)( `Telefono Fijo Alumno` , 4, 1, '-' ) **AS** telefono  
**FROM** `alumno` ;

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**INSTR(*str*,*substr*) *similar a locate***

Retorna la posición de la primera coincidencia de la subcadena ***substr*** en la cadena ***str***. Si no hay coincidencia devuelve 0.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [INSTR](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_instr&token=33088f20ea41b5f8671baaff4c572bc6)( `Nombre Alumno` , 'carlos' )   
**FROM** `alumno` ;

**LCASE()** es sinónimo de **LOWER()**.

**LOWER(*str*)**

Retorna la cadena ***str*** con todos los caracteres cambiados a minúsculas .

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [LCASE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_lcase&token=33088f20ea41b5f8671baaff4c572bc6)( `Nombre Alumno` )   
**FROM** `alumno` ;

**LEFT(*str*,*len*)**

Retorna los ***len*** caracteres empezando por la izquierda de la cadena ***str***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [LEFT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_left&token=33088f20ea41b5f8671baaff4c572bc6)( `CodigoPostal` , 2 ) **AS** codigoprovincia  
**FROM** `alumno` ;

**LENGTH(*str*)**

Retorna la longitud de la cadena ***str***, medida en bytes y multibytes(carácteres).

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) `Nombre Alumno`, [LENGTH](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_length&token=33088f20ea41b5f8671baaff4c572bc6)(`Nombre Alumno`) **AS** caracteres  
**FROM** `alumno`;

**CHAR\_LENGTH()** es sinónimo de **LENGTH(*str*)** medida solo en carácteres.

**LOCATE(*substr*,*str*)** , **LOCATE(*substr*,*str*,*pos*)**

La primera sintaxis retorna la posición de la primera ocurrencia de la subcadena ***substr*** en la cadena ***str***. La segunda sintaxis retorna la posición de la primera ocurrencia de la subcadena ***substr*** en la cadena ***str***, comenzando en la posición ***pos***. Retorna 0 si ***substr*** no está en ***str***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) `Nombre Alumno`, [LOCATE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_locate&token=33088f20ea41b5f8671baaff4c572bc6)( 'carlos', `Nombre Alumno`  ) **AS** posición  
**FROM** `alumno`;

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) `Nombre Alumno` , [LOCATE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_locate&token=33088f20ea41b5f8671baaff4c572bc6)( 'carlos', `Nombre Alumno`, 3 ) **AS** pos  
**FROM** `alumno` ;

**LOWER(*str*) mirar lcase()**

**LTRIM(*str*)**

Retorna la cadena ***str*** con los caracteres en blanco iniciales eliminados.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [LTRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_ltrim&token=33088f20ea41b5f8671baaff4c572bc6)( ' barbar' );

* **MID(*str*,*pos*,*len*)**

**MID(*str*,*pos*,*len*)** es sinónimo de **SUBSTRING(*str*,*pos*,*len*)**.

* **POSITION(*substr* IN *str*)**

**POSITION(*substr* IN *str*)** es sinónimo de **LOCATE(*substr*,*str*)**.

**REPEAT(*str*,*count*)**

Retorna una cadena consistente de la cadena ***str*** repetida ***count*** veces. Si ***count* <= 0**, retorna una cadena vacía. Retorna **NULL** si ***str*** o ***count*** son **NULL**.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [REPEAT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_repeat&token=33088f20ea41b5f8671baaff4c572bc6)( 'MySQL', 3 );

**REPLACE(*str*,*from\_str*,*to\_str*)**

Retorna la cadena ***str*** con todas las ocurrencias de la cadena ***from\_str*** reemplazadas con la cadena ***to\_str***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [REPLACE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_replace&token=33088f20ea41b5f8671baaff4c572bc6)( 'www.mysql.com', 'w', 'Ww' );

**REVERSE(*str*)**

Retorna la cadena ***str*** con el orden de los caracteres invertido.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [REVERSE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_reverse&token=33088f20ea41b5f8671baaff4c572bc6)( 'abc' );

**RIGHT(*str*,*len*)**

Retorna los ***len*** caracteres de la derecha de la cadena ***str***.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [RIGHT](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_right&token=33088f20ea41b5f8671baaff4c572bc6)( 'foobarbar', 4 );

**RTRIM(*str*)**

Retorna la cadena ***str*** con los espacios finales eliminados.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [RTRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_rtrim&token=33088f20ea41b5f8671baaff4c572bc6)( 'barbar ' ) , [RTRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_rtrim&token=33088f20ea41b5f8671baaff4c572bc6)( ' barbar ' );

**SPACE(*N*)**

Retorna la cadena consistente en ***N*** caracteres blancos.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SPACE](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_space&token=33088f20ea41b5f8671baaff4c572bc6)( 6 );

**SUBSTRING(*str*,*pos*)** , **SUBSTRING(*str* FROM *pos*)**, **SUBSTRING(*str*,*pos*,*len*)** ,

**SUBSTRING(*str* FROM *pos* FOR *len*)**

Las formas sin el arguemnto ***len*** retornan una subcadena de la cadena ***str*** comenzando en la posición ***pos***. Las formas con el argumento ***len*** retornan una subcadena de longitud ***len*** a partir de la cadena ***str***, comenzando en la posición ***pos***.Las formas que usan **FROM** son sintaxis SQL estándard. En MySQL 5.0, es posible usar valores negativos para ***pos***. En este caso, el inicio de la subcadena son ***pos*** caracteres a partir del final de la cadena, en lugar del principio. Un valor negativo puede usarse para ***pos*** en cualquier de las formas de esta función.

Tenga en cuenta que si usa un valor menor a 1 para ***len***, el resultado siempre es una cadena vacía.

**SUBSTR()** es sinónimo de **SUBSTRING()**.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'Quadratically', 5 ) àratically

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'foobarbar') àerror

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'Quadratically', 5, 6 ) à ratica

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'Sakila', [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=33088f20ea41b5f8671baaff4c572bc6)3 )àila

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'Sakila', [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=33088f20ea41b5f8671baaff4c572bc6)5, 3 ) àaki

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [SUBSTRING](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_substring&token=33088f20ea41b5f8671baaff4c572bc6)( 'Sakila' **FROM** [-](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Farithmetic-functions.html%23operator_minus&token=33088f20ea41b5f8671baaff4c572bc6)4 **FOR** 2 ) àki

**TRIM(str)**

Retorna la cadena ***str*** con todos los prefijos y/o sufijos ***remstr*** eliminados.

Es decir elimina espacios por la izquierda y por la derecha.

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [TRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_trim&token=33088f20ea41b5f8671baaff4c572bc6)( ' bar ' ) à’bar’

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [RTRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_rtrim&token=33088f20ea41b5f8671baaff4c572bc6)( ' barbar ' )   
**UNION** **ALL**   
[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [LTRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_ltrim&token=33088f20ea41b5f8671baaff4c572bc6)( ' barbar ' )   
**UNION** **ALL**   
[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [TRIM](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_trim&token=33088f20ea41b5f8671baaff4c572bc6)( ' barbar ' )

* **UCASE(*str*)**

**UCASE()** es sinónimo de **UPPER()**.

**UPPER(*str*)**

Retorna la cadena ***str*** con todos los caracteres cambiados a mayúsculas

[**SELECT**](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fselect.html&token=33088f20ea41b5f8671baaff4c572bc6) [UPPER](http://localhost/phpmyadmin/url.php?url=http%3A%2F%2Fdev.mysql.com%2Fdoc%2Frefman%2F5.5%2Fen%2Fstring-functions.html%23function_upper&token=33088f20ea41b5f8671baaff4c572bc6)( `Nombre Alumno` )   
**FROM** `alumno` ;