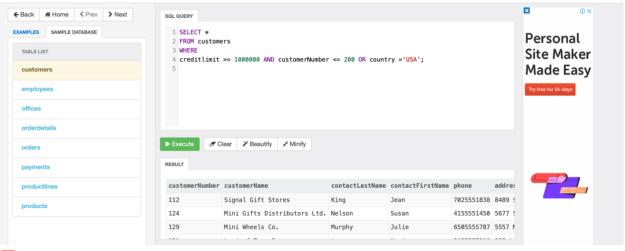
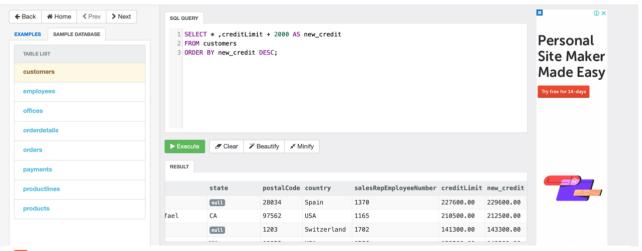
#### Fatima Alzahraa B5 4211229

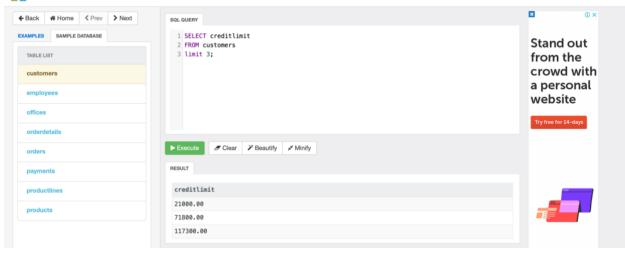












## What is Regex?

Regex, or Regular Expressions, is a sequence of characters, used to search and locate specific sequences of characters that match a pattern.

- MySQL supports another type of pattern matching operation based on the regular expressions and the REGEXP operator.
- 1. It provide a powerful and flexible pattern match that can help us implement power search utilities for our database systems.
- 2. REGEXP is the operator used when performing regular expression pattern matches. RLIKE is the synonym.
- 3. It also supports a number of metacharacters which allow more flexibility and control when performing pattern matching.
- 4. The backslash is used as an escape character. It's only considered in the pattern match if double backslashes have used.
- 5. Not case sensitive.

# regular expressions

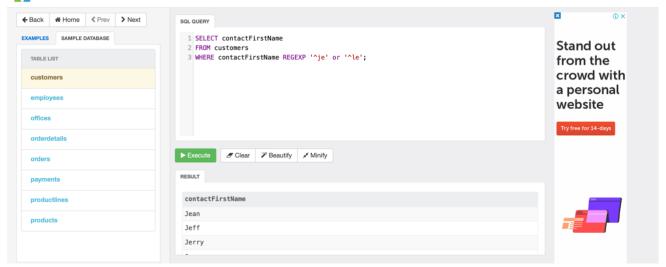
Note Items marked + should work in most regular expression implementations.

Anchors		Sample Patterns					
^	Start of line +	([A-Za-z0-9-	1+)	Letters, nu	mbers and hyphens		
VA.	Start of string +	MANAGEMENT AND ADDRESS.	(1,2)\/\d(4))	Date (e.g. 21/3/2006)			
	End of line +		([pg gif png))\.\2)	Jpg, gif or png image			
z	End of string +	SERVICE STREET, STREET	^[1-4]{1}[0-9]{1}\$ ^50\$)	Any number from 1 to 50 inclusive			
b	Word boundary +		1-9]){3}{([A-Fa-f0-9]){3}}?)	Valid hexadecimal colour code			
В	Not word boundary +	((?=.*\d)(?=.*[a-z])(?=.*[A-Z]).(8,15})		8 to 15 character string with at least on			
<	Start of word	11 20 20 20 20 20 20 20 20 20 20 20 20 20		upper case letter, one lower case letter,			
>	End of word			and one digit (useful for passwords).			
		(\w+@[a-zA-Z_]+?\.[a-zA-Z](2,6))		Email addresses			
Character Classes		(\<(/?[^\>]+)\>)		HTML Tags			
c	Control character	The	se patterns are intended for referen	or auraoses and	have not been exten	sivoly teste	
5	White space	Note Please use with caution and test thoroughly before use.					
S	Not white space						
d	Digit			Danasa			
D	Not digit	Quantifiers		Ranges			
W	Word		0 or more +		Any character	except	
W	Not word	*7	0 or more, ungreedy +	100	new line (\n) +		
xhh	Hexadecimal character hh		1 or more +	(a b)	a or b +		
\Oxxx	Octal character xxx	+7	1 or more, ungreedy +	()	Group +		
	7.777. 2.71. 2007. 0007.	7	0 or 1 +	(7:)	Passive Group		
		77	0 or 1, ungreedy +	[abc]	Range (a or b		
POSIX Character Classes		{3}	Exactly 3 +	[^abc]	Not a or b or c	District Control	
:upper:]	Upper case letters	(3,)	3 or more +	[a-q]	Letter between		
:lower:]	Lower case letters	{3,5}	3, 4 or 5 +	[A-Q]	Upper case let	AND RESIDENCE AND RESIDENCE	
:alpha:]	All letters	(3,5)7	3, 4 or 5, ungreedy +	4	between A and		
:alnum:]	Digits and letters	111879778		[0-7]	Digit between		
:digit:]	Digits	The same of the same		\n	nth group/sub		
:xdigit:}	Hexadecimal digits	Special Cha	racters				
:punct:]	Punctuation	1	Escape Character +	Note Ranges are inclusive.			
:blank:]	Space and tab	\n	New line +				
:space:]	Blank characters	\r	Carriage return +				
:cntrl:]	Control characters	\t	Tab +				
:graph:]	Printed characters	\v	Vertical tab +	Pattern Modifiers			
:print:)	Printed characters and	V	Form feed +	g	Global match		
	spaces	\a	Alarm	1	Case-insensitiv	/e	
[:word:]	Digits, letters and	[\b]	Backspace	m	Multiple lines	Min.	
	underscore	\e	Escape	5	Treat string as	single line	
		\N{name}	Named Character	×	Allow commen	-	
and the same					white space in		
ssertions				e	Evaluate repla		
-	Lookahead assertion +	String Repli	acement (Backreferences)	U	Ungreedy patt		
1	Negative lookahead +	\$n	nth non-passive group	100		10.00	
<=	Lookbehind assertion +	\$2	"xyz" in /^(abc(xyz))\$/			and the same of	
1= or ?<1	Negative lookbehind +	\$1	"xyz" in /^(?:abc)(xyz)\$/	Metachara	cters (must be es	caped	
>	Once-only Subexpression	\$	Before matched string	^	r		
O	Condition [if then]	5"	After matched string	\$	-		
10	Condition [if then else]	5+	Last matched string	i i	1	+	
	THE CONTRACTOR SALES	58	Entire matched string	)	- 1	7	
	Comment						

Literal "\$"

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