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TABLE LIST

customers

employees

offices

orderdetails

orders

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products

SQL QUERY

```
1 SELECT *
2 FROM customers
3 WHERE
4 creditlimit >= 1000000 AND customerNumber <= 200 OR country = 'USA';
5
```

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RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	address
112	Signal Gift Stores	King	Jean	7025551838	8489 S
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 S
129	Mini Wheels Co.	Murphy	Julie	6505555787	5557 P

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SQL QUERY

```
1 SELECT *, creditLimit + 2000 AS new_credit
2 FROM customers
3 ORDER BY new_credit DESC;
```

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RESULT

	state	postalCode	country	salesRepEmployeeNumber	creditLimit	new_credit
	null	28034	Spain	1370	227600.00	229600.00
fael	CA	97562	USA	1165	210500.00	212500.00
	null	1203	Switzerland	1702	141300.00	143300.00

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SQL QUERY

```
1 SELECT creditlimit
2 FROM customers
3 limit 3;
```

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RESULT

creditlimit
21000.00
71800.00
117300.00

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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.

Anchors		Sample Patterns	
^	Start of line +	([A-Za-z0-9-]+)	Letters, numbers and hyphens
\A	Start of string +	(\d{1,2}\V\d{1,2}\V\d{4})	Date (e.g. 21/3/2006)
\$	End of line +	([^\s]+(=\.(jpg gif png))\.\s2)	Jpg, gif or png image
\Z	End of string +	(^[1-9]{1}\$ ^[1-4]{1}[0-9]{1}\$ ^[50]\$)	Any number from 1 to 50 inclusive
\b	Word boundary +	(#[A-Fa-f0-9]{3}([A-Fa-f0-9]{3})?)	Valid hexadecimal colour code
\B	Not word boundary +	((?=.\d)(?=[a-z])(?=[A-Z]).{8,15})	8 to 15 character string with at least one upper case letter, one lower case letter, and one digit (useful for passwords).
\<	Start of word	(\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,6})	Email addresses
\>	End of word	(\<\/?[^\>]+\>)	HTML Tags
Character Classes		Note These patterns are intended for reference purposes and have not been extensively tested. Please use with caution and test thoroughly before use.	
\c	Control character		
\s	White space		
\S	Not white space		
\d	Digit		
\D	Not digit		
\w	Word		
\W	Not word		
\xhh	Hexadecimal character hh		
\Oxxx	Octal character xxx		
POSIX Character Classes		Quantifiers	Ranges
[[:upper:]]	Upper case letters	*	0 or more +
[[:lower:]]	Lower case letters	*?	0 or more, ungreedy +
[[:alpha:]]	All letters	+	1 or more +
[[:alnum:]]	Digits and letters	+?	1 or more, ungreedy +
[[:digit:]]	Digits	?	0 or 1 +
[[:xdigit:]]	Hexadecimal digits	??	0 or 1, ungreedy +
[[:punct:]]	Punctuation	{3}	Exactly 3 +
[[:blank:]]	Space and tab	{3,}	3 or more +
[[:space:]]	Blank characters	{3,5}	3, 4 or 5 +
[[:cntrl:]]	Control characters	{3,5}?	3, 4 or 5, ungreedy +
[[:graph:]]	Printed characters		
[[:print:]]	Printed characters and spaces		
[[:word:]]	Digits, letters and underscore		
Assertions		Special Characters	
?=	Lookahead assertion +	\	Escape Character +
?!	Negative lookahead +	\n	New line +
?<=	Lookbehind assertion +	\r	Carriage return +
?!<= or ?<!	Negative lookbehind +	\t	Tab +
?>	Once-only Subexpression	\v	Vertical tab +
?()	Condition [if then]	\f	Form feed +
?()	Condition [if then else]	\a	Alarm
?#	Comment	[\b]	Backspace
		\e	Escape
		\N{name}	Named Character
Note		String Replacement (Backreferences)	
Items marked + should work in most regular expression implementations.		\$n	nth non-passive group
		\$2	"xyz" in /^(abcxyz)\$/
		\$1	"xyz" in /^(?:abc)(xyz)\$/
		\$'	Before matched string
		\$'	After matched string
		\$+	Last matched string
		\$&	Entire matched string
		\$_	Entire input string
		\$&	Literal "\$"
Note		Pattern Modifiers	
		.	Any character except new line (\n) +
		{a b}	a or b +
		{...}	Group +
		{?...}	Passive Group +
		{abc}	Range (a or b or c) +
		{^abc}	Not a or b or c +
		{a-q}	Letter between a and q +
		{A-Q}	Upper case letter + between A and Q +
		{0-7}	Digit between 0 and 7 +
		{n}	nth group/subpattern +
		Note	Ranges are inclusive.
Metacharacters (must be escaped)			
		^	[
		\$	{
		(\
)	
		<	>

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TABLE LIST

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SQL QUERY

```

1 SELECT contactFirstName
2 FROM customers
3 WHERE contactFirstName REGEXP '^je' or '^le';

```

Execute
Clear
Beautify
Minify

RESULT

contactFirstName
Jean
Jeff
Jerry

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SQL QUERY

```

1 SELECT contactFirstName
2 FROM customers
3 WHERE contactFirstName REGEXP 'el$' or 'ie$';

```

Execute
Clear
Beautify
Minify

RESULT

contactFirstName
Veyse
Michael
Rachel

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SQL QUERY

```

1 SELECT contactFirstName
2 FROM customers
3 WHERE contactFirstName REGEXP 'bg|ba';

```

Execute
Clear
Beautify
Minify

RESULT

contactFirstName

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