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Groub: A

Write a small research about REGEXP :

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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator:

SCHEMAS

classicmodels

Tables

- customers
- employees
- offices
- orderdetails
- orders
- payments
- productlines
- products
- student

Views

Administration Schemas

Information

No object selected

Query 1 SQL File 6* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

1 • SELECT *

2

3 FROM customers

4 WHERE contactFirstName LIKE 'je%'

5 OR contactfirstName LIKE 'le%

6

7

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid Form Editor

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	NULL	Las Vegas	NV	83030	USA
151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Cirde	Suite 400	NYC	NY	10022	USA
173	Cambridge Collectables Co.	Tseng	Jerry	6175555555	4658 Baden Av.	NULL	Cambridge	MA	51247	USA
198	Auto-Moto Classics Inc.	Taylor	Leslie	6175558428	16780 Pompton St.	NULL	Brickhaven	MA	58339	USA
233	Québec Home Shopping Network	Fresnière	Jean	(514) 555-8054	43 rue St. Laurent	NULL	Montréal	Québec	H1J 1C3	CANADA
344	CAF Imports	Fernandez	Jesus	+34 913 728 555	Merchants House	27-30 Merchant's Quay	Madrid	NULL	28023	Spain

customers 1

Output Action Output

Duration / Fetch

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQl

Navigator

SCHEMAS

classicmodels

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- customers
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Views

Administration Schemas

Information

No object selected

Query 1 SQL File 6* SQL File 6* SQL File 7* SQL File 8* SQL File 9*

1 • SELECT *

2

3 FROM customers

4 WHERE contactFirstName LIKE 'je%'

5 OR contactfirstName LIKE 'le%'

6

7

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor |

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country
173	Cambridge Collectables Co.	Tseng	Jerry	6175555555	4658 Baden Av.	NULL	Cambridge	MA	51247	United States
198	Auto-Moto Classics Inc.	Taylor	Leslie	6175558428	16780 Pompton St.	NULL	Brickhaven	MA	58339	United States
233	Québec Home Shopping Network	Fresnière	Jean	(514) 555-8054	43 rue St. Laurent	NULL	Montréal	Québec	H1J 1C3	Canada
344	CAF Imports	Fernandez	Jesus	+34 913 728 555	Merchants House	27-30 Merchant's Quay	28023	SPAIN		
455	Super Scale Inc.	Murphy	Leslie	2035559545	567 North Pendale Street	NULL	New Haven	CT	97823	United States
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

customers 1

Action Output

Time Action

Message

Duration / Fetch

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

SQl SQL Databases Tables Scripts Reports Navigator

SCHEMAS classicmodels

Tables customers employees offices orderdetails orders payments productlines products student Views

Administration Schemas Information

No object selected

Query 1 SQL File 6* SQL File 6* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 11* SQL File 12*

1
2 • SELECT * FROM Customers
3 WHERE CustomerName LIKE '%el';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid

	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber
▶	141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/Moralzarzal, 86	NULL	Madrid	NULL	28034	Spain	1370
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Customers 1

Output

Apply Revert

The screenshot shows the MySQL Workbench interface with the 'classicmodels' schema selected. A query is run on the 'Customers' table using the condition 'CustomerName LIKE '%el';'. The result grid displays one row of data: customer number 141, name 'Euro+ Shopping Channel', contact 'Freyre', first name 'Diego', phone '(91) 555 94 44', address 'C/Moralzarzal, 86', city 'Madrid', state 'NULL', postal code '28034', country 'Spain', and sales rep employee number '1370'. The 'Result Grid' tab is active, and the 'Form Editor' tab is visible on the right.

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

SQl SQL Scripts Database Editor Help

Navigator: Local instance MySQL80

Query 1 SQL File 6* SQL File 6* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 11* SQL File 12* ×

SCHEMAS

Filter objects

classicmodels

Tables

- customers
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Views

Administration Schemas

Information

No object selected

1

2 • SELECT * FROM Customers

3 WHERE CustomerName LIKE '%el' OR '%ie'

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber
▶	141	Euro + Shopping Channel	Freyre	P.	(91) 555 94 44	C/ Moralzarzal, 86	NULL	Madrid	NULL	28034	Spain	1370
*	NULL	NULL	NULL	Edit current row	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor

Customers 2 ×

Output

Apply Revert

The screenshot shows the MySQL Workbench interface with a query results grid. The grid displays data from the 'Customers' table, specifically for rows where the customer name starts with 'el' or 'ie'. The columns include customerNumber, customerName, contactLastName, contactFirstName, phone, addressLine1, addressLine2, city, state, postalCode, country, and salesRepEmployeeNumber. The first row is highlighted with a blue background, indicating it is the current row for editing. The 'Edit current row' button is visible in the grid. The 'Result Grid' tab is selected at the top of the results panel. The 'Form Editor' tab is also present but not selected. The bottom section shows the output of the query, which includes the same data as the grid.

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas

classicmodels

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- products

Views

Stored Procedures

Administration Schemas

Information

Table: customers

Columns:

- customerNumber
- customerName
- contactLastName
- contactFirstName
- phone
- addressLine1
- addressLine2
- city

Query 1 SQL File 6* SQL File 6*

1 • SELECT CustomerNumber, CustomerName, phone, creditLimit, creditLimit+2000 As creditLimit FROM Customers;

Result Grid

	CustomerNumber	CustomerName	phone	creditLimit	creditLimit
▶	103	Atelier graphique	40.32.2555	21000.00	23000.00
▶	112	Signal Gift Stores	7025551838	71800.00	73800.00
▶	114	Australian Collectors, Co.	03 9520 4555	117300.00	119300.00
▶	119	La Rochelle Gifts	40.67.8555	118200.00	120200.00
▶	121	Baane Mini Imports	07-98 9555	81700.00	83700.00
▶	124	Mini Gifts Distributors Ltd.	4155551450	210500.00	212500.00

Result 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	20:00:34	SELECT * FROM Customers LIMIT 0, 1000	122 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor Read Only

MySQL Workbench

Local instance MySQL80

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Schemas

classicmodels

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Stored Procedures

Administration Schemas

Information

Table: customers

Columns:

- customerNumber
- customerName
- contactLastName
- contactFirstName
- phone
- addressLine1
- addressLine2
- city

Query 1 SQL File 6* SQL File 6*

1 • SELECT CustomerNumber,
2 CustomerName,
3 phone,
4 creditLimit,
5 creditLimit+2000 As creditLimit
6 FROM Customers;

Result Grid | Filter Rows: Export: Wrap Cell Content: Result 2 x

CustomerNumber	CustomerName	phone	creditLimit	creditLimit
103	Atelier graphique	40.32.2555	21000.00	23000.00
112	Signal Gift Stores	7025551838	71800.00	73800.00
114	Australian Collectors, Co.	03 9520 4555	117300.00	119300.00
119	La Rochelle Gifts	40.67.8555	118200.00	120200.00
121	Baane Mini Imports	07-98 9555	81700.00	83700.00
124	Mini Gifts Distributors Ltd.	4155551450	210500.00	212500.00

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	20:00:34	SELECT * FROM Customers LIMIT 0, 1000	122 row(s) returned	0.000 sec / 0.000 sec

Result Grid Form Editor Read Only

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas

classicmodels

Tables

- customers
- employees
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- payments
- productlines
- products

Views

Stored Procedures

Administration Schemas

Information

Table: customers

Columns:

- customerNumber
- customerName
- contactLastName
- contactFirstName
- phone
- addressLine1
- addressLine2
- city
- state
- postalCode
- country
- salesRep

Query 1 SQL File 6* SQL File 6*

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

Result Grid

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1	addressLine2	city	state	postalCode	country	salesRep
112	Signal Gift Stores	King	Jean	7025551838	8489 Strong St.	NULL	Las Vegas	NV	83030	USA	1166
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	5677 Strong St.	NULL	San Rafael	CA	97562	USA	1165
129	Mini Wheels Co.	Murphy	Julie	6505555787	5557 North Pendale Street	NULL	San Francisco	CA	94217	USA	1165
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport Avenue	NULL	NYC	NY	10022	USA	1323
151	Muscle Machine Inc	Young	Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY	10022	USA	1286

Form Editor

Action Output

#	Time	Action
7	20:02:31	SELECT CustomerName,City FROM Customers LIMIT 0, 1000

Message

122 row(s) returned

Duration / Fetch

0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

classicmodels

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Views

Stored Procedures

Administration Schemas

Information

Table: customers

Columns:

- customerNumber**
- customerName
- contactLastName
- contactFirstName
- phone
- addressLine1

Query 1 SQL File 6* SQL File 6* SQL File 6* SQL File 7* SQL File 8* ×

1 • SELECT customerNumber, customerName, creditLimit FROM customers ORDER BY creditLimit DESC LIMIT 3;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows: | Result Grid | Form Editor |

	customerNumber	customerName	creditLimit
▶	141	Euro + Shopping Channel	227600.00
▶	124	Mini Gifts Distributors Ltd.	210500.00
▶	298	Vida Sport, Ltd	141300.00
*	NULL	NULL	NULL

customers 3 ×

Output

Apply Revert

Result Grid

Form Editor