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Section:B1

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A regular expression (shortened as regex or regexp1 also referred to as rational expression is a sequence of characters that specifies a search pattern in text. Usually such patterns are used by string-searching algorithms for "find" or "find and replace" operations on strings, or for input validation. It is a technique developed in theoretical computer science and formal language theory.

ⁱLook ahead regular expressions not supported in Emacs style.

For example, "Identifier" is represented with 0, "Assignment operator" with 1, "Addition operator" with 2, etc. Tokens are defined often by regular expressions, which are understood by a lexical analyzer generator such as lex.

Regular expressions are used in search engines, search and replace dialogs of word processors and text editors, in text processing utilities such as sed and AWK and in lexical analysis. Many programming languages provide regex capabilities either built-in or via libraries, as it has uses in many situations.

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EXAMPLES   **SAMPLE DATABASE**

#1
```
SELECT lastName
FROM employees;
```

#2
```
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;
```

#3
```
SELECT * FROM employees;
```

SQL QUERY
```
1  SELECT *
2  FROM customers
3  WHERE creditlimit>=10000 AND customerNumber<200 OR country='USA';
4
```

▶ Execute   ✏ Clear   ✏ Beautify   ✏ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phor
103	Atelier graphique	Schmitt	Carine	40.3
112	Signal Gift Stores	King	Jean	7025
114	Australian Collectors, Co.	Ferguson	Peter	03 9

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EXAMPLES   SAMPLE DATABASE

#1
SELECT lastName
FROM employees;

#2
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;

#3
SELECT * FROM employees;

SQL QUERY

```sql
1  SELECT creditlimit+2000 AS new_credit
2  FROM customers
3  ORDER BY new_credit DESC ;
4
```

▶ Execute   ✎ Clear   ⚒ Beautify   ✦ Minify

RESULT

new_credit
229600.00
212500.00
143300.00

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MPLES   SAMPLE DATABASE

```
#1
SELECT lastName
FROM employees;
```

```
#2
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;
```

```
#3
SELECT * FROM employees;
```

SQL QUERY

```sql
1 SELECT creditlimit
2 FROM customers
3 ORDER BY creditlimit DESC
4 LIMIT 3 ;
5
6
```

▶ Execute   ✂ Clear   ✏ Beautify   ✗ Minify

RESULT

creditlimit
227600.00
210500.00
141300.00

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MPLES | **SAMPLE DATABASE**

```
#1
SELECT lastName
FROM employees;
```

```
#2
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;
```

```
#3
SELECT * FROM employees;
```

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE contactfirstname REGEXP 'el$' OR 'ie?' ;
4
5
6
```

▶ Execute | ✐ Clear | ✏ Beautify | ✐ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstNam
167	Herkku Gifts	Oeztan	Veysel
181	Vitachrome Inc.	Frick	Michael
187	AV Stores, Co.	Ashworth	Rachel

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MPLES | SAMPLE DATABASE

#1
SELECT lastName
FROM employees;

#2
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;

#3
SELECT * FROM employees;

SQL QUERY

```sql
1 SELECT *
2 FROM customers
3 WHERE contactfirstname REGEXP 'bg?' OR 'ba?' ;
4
5
6
```

▶ Execute   ✎ Clear   ✎ Beautify   ✎ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName
125	Havel & Zbyszek Co	Piestrzeniewicz	Zbyszek
169	Porto Imports Co.	de Castro	Isabel
201	UK Collectables, Ltd.	Devon	Elizabeth

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EXAMPLES   SAMPLE DATABASE

#1
SELECT lastName
FROM employees;

#2
SELECT
    lastname,
    firstname,
    jobtitle
FROM
    employees;

#3
SELECT * FROM employees;

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE contactfirstname REGEXP '^je' OR '^Ie' ;
4
5
6
```

▶ Execute   ✏ Clear   🖋 Beautify   ✂ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
112	Signal Gift Stores	King	Jean	7025
151	Muscle Machine Inc	Young	Jeff	2125
173	Cambridge Collectables Co.	Tseng	Jerry	6175

الممسوحة ضوئيا بـ CamScanner

EXAMPLES   SAMPLE DATABASE

TABLE LIST

customers

employees

offices

orderdetails

orders

payments

productlines

products

SQL QUERY

```sql
SELECT customerNumber,
customerName,
phone,
creditLimit
,creditLimit + 20 AS new_creditLimit

FROM customers;
```

▶ Execute   ✎ Clear   ✎ Beautify   ✎ Minify

RESULT

customerNumber	customerName	phone	creditLimit	new_creditLimit
103	Atelier graphique	40.32.2555	21000.00	21020.00
112	Signal Gift Stores	7025551838	71800.00	71820.00
114	Australian Collectors, Co.	03 9520 4555	117300.00	117320.00

EXAMPLES SAMPLE DATABASE

TABLE LIST

customers

employees

offices

orderdetails

orders

payments

productlines

products

SQL QUERY

```
1 SELECT *
2 FROM customers
3 WHERE country = 'USA' ;
```

▶ Execute   ✄ Clear   ✏ Beautify   ✗ Minify

RESULT

:Line1	addressLine2	city	state	postalCode	country	salesRepEmployeeNumber	creditLimit
rong St.	null	Las Vegas	NV	83030	USA	1166	71800.00
rong St.	null	San Rafael	CA	97562	USA	1165	210500.00
rth Pendale Street	null	San Francisco	CA	94217	USA	1165	64600.00

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EXAMPLES | SAMPLE DATABASE

TABLE LIST

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

SQL QUERY

```sql
1 SELECT *
2 FROM orders
3 WHERE orderDate >='2003-01-01' ;
```

▶ Execute | ✎ Clear | ✎ Beautify | ↗ Minify

RESULT

orderNumber	orderDate	requiredDate	shippedDate	status	comments
10100	2003-01-06	2003-01-13	2003-01-10	Shipped	null
10101	2003-01-09	2003-01-18	2003-01-11	Shipped	check on availability.
10102	2003-01-10	2003-01-18	2003-01-14	Shipped	null

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EXAMPLES | SAMPLE DATABASE

TABLE LIST

customers

employees

offices

orderdetails

orders

payments

productlines

products

SQL QUERY

```
1  SELECT *
2  FROM customers
3  WHERE addressLine2 IS NOT NULL;
```

▶ Execute | ✎ Clear | ✎ Beautify | ✎ Minify

RESULT

contactFirstName	phone	addressLine1	addressLine2	city	sta
Peter	03 9520 4555	636 St Kilda Road	Level 3	Melbourne	Vic
Eric	+65 221 7555	Bronz Sok.	Bronz Apt. 3/6 Tesvikiye	Singapore	mi1
Jeff	2125557413	4092 Furth Circle	Suite 400	NYC	NY

EXAMPLES | SAMPLE DATABASE

TABLE LIST

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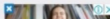- orderdetails
- orders
- payments
- productlines
- products

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE customerNumber IN (141,131,321,286);
```

▶ Execute | ✎ Clear | ✏ Beautify | ✏ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	addressLine1
131	Land of Toys Inc.	Lee	Kwai	2125557818	897 Long Airport A
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/ Moralzarzal, 86
286	Marta's Replicas Co.	Hernandez	Marta	6175558555	39323 Spinnaker Dr