# Apply filters to SQL queries

# Project description

Applied SQL queries to search specific content/information. I also applied filters to help focus my search through the data base to make my hunt for info less time consuming and more precise

## Retrieve after hours failed login attempts

```
MariaDB [organization] > SELECT *
    -> FROM log in attempts
     > WHERE login time > '18:00' AND success = 0;
  event id | username | login date | login time | country | ip address
  success
         2 | apatel
                      | 2022-05-10 | 20:27:27
                                                CAN
                                                          | 192.168.205.12
        0 1
        18 | pwashing | 2022-05-11 | 19:28:50
                                                | US
                                                          | 192.168.66.142
                      | 2022-05-12 | 18:56:36
                                                          | 192.168.109.50
        20 | tshah
                                                MEXICO
        28 | aestrada | 2022-05-09 | 19:28:12
                                                          | 192.168.27.57
                                                MEXICO
        34 | drosas
                      | 2022-05-11 | 21:02:04
                                                          | 192.168.45.93
                                                US
        0 |
        42 | cgriffin | 2022-05-09 | 23:04:05
                                                US
                                                          | 192.168.4.157
```

```
69 | wjaffrey | 2022-05-11 | 19:55:15 | USA
                                                      | 192.168.100.17
       0 |
       82 | abernard | 2022-05-12 | 23:38:46 | MEX
                                                      | 192.168.234.49
       0 |
       87 | apatel | 2022-05-08 | 22:38:31 | CANADA | 192.168.132.15
       0 1
       96 | ivelasco | 2022-05-09 | 22:36:36 | CAN
                                                      | 192.168.84.194
      104 | asundara | 2022-05-11 | 18:38:07 | US
                                                      | 192.168.96.200
      107 | bisles | 2022-05-12 | 20:25:57 | USA | 192.168.116.18
       0 |
      111 | aestrada | 2022-05-10 | 22:00:26
                                            | MEXICO | 192.168.76.27
      127 | abellmas | 2022-05-09 | 21:20:51 | CANADA | 192.168.70.122
       0 |
      131 | bisles | 2022-05-09 | 20:03:55 | US
                                                      | 192.168.113.17
       0 |
      155 | cgriffin | 2022-05-12 | 22:18:42 | USA
                                                      | 192.168.236.17
       0 |
      160 | jclark | 2022-05-10 | 20:49:00 | CANADA | 192.168.214.49
       0 |
      199 | yappiah | 2022-05-11 | 19:34:48 | MEXICO | 192.168.44.232
       0 1
19 rows in set (0.143 sec)
MariaDB [organization] > clear
MariaDB [organization] > clear
MariaDB [organization]>
```

#### Retrieve login attempts on specific dates

```
193 | 1rodriqu | 2022-05-08 | 07:11:29 | US
                                            | 192.
168.125.240 | 0 |
| 197 | jsoto | 2022-05-08 | 09:05:09 | US | 192.
168.36.21 | 0 |
35 rows in set (0.001 sec)
MariaDB [organization] > SELECT * FROM log in attempts WHERE
login date = '2022-05-08' OR login_date = '2022-05-09';
| event id | username | login date | login time | country | ip a
ddress | success |
1 | jrafael | 2022-05-09 | 04:56:27 | CAN | 192.
168.243.140 | 1 |
| 3 | dkot | 2022-05-09 | 06:47:41 | USA | 192.
168.151.162 | 1 |
| 4 | dkot | 2022-05-08 | 02:00:39 | USA | 192.
168.178.71 | 0 |
8 | bisles | 2022-05-08 | 01:30:17 | US | 192.
168.119.173 | 0 |
| 12 | dkot | 2022-05-08 | 09:11:34 | USA | 192.
| 15 | lyamamot | 2022-05-09 | 17:17:26 | USA | 192.
168.183.51 | 0 |
```

170   sbaelish	2022-05-09   16:43:18	USA	192.			
168.65.113   0						
172   mabadi	2022-05-08   08:06:50	US	192.			
168.180.41   1						
	2022-05-08   12:27:22	CAN	192.			
168.52.216   0						
	2022-05-08   03:09:48	CAN	192.			
168.33.70   0						
	2022-05-09   04:29:17	USA	192.			
168.40.72   0						
	2022-05-09   00:36:26	MEX	192.			
168.77.137   0	0000 05 00 1 05 07 04		1 100			
	2022-05-08   05:37:24	CANADA	192.			
168.168.117   1		LIGA	1 100			
168.25.60   0	2022-05-09   05:09:21	USA	192.			
	2022-05-08   06:46:07		1 102			
168.7.187   0		CANADA	132.			
	2022-05-08   07:11:29	LIIS	I 192			
168.125.240   0		1 05	152.			
	2022-05-08   09:05:09	LUS	I 192.			
168.36.21   0	2022 00 00   00100100	1 32	, 252.			
+		-+	-+			
75 rows in set (0.001 s	sec)					
MariaDB [organization]>						

#### Retrieve login attempts outside of Mexico

```
MariaDB [organization] > SELECT *
   -> FROM log in attempts
   -> WHERE not country LIKE 'MEX%';
| event id | username | login date | login time | country | ip addre
       success
        1 | jrafael | 2022-05-09 | 04:56:27
                                            CAN
                                                     | 192.168.
243.140
           1 1
        2 | apatel | 2022-05-10 | 20:27:27 | CAN | 192.168.
205.12
              0 |
                    | 2022-05-09 | 06:47:41 | USA | 192.168.
        3 | dkot
151.162 |
                    | 2022-05-08 | 02:00:39
        4 | dkot
                                            USA
                                                     | 192.168.
178.71
              0 |
        5 | jrafael | 2022-05-11 | 03:05:59 | CANADA | 192.168.
              0 |
                    | 2022-05-11 | 01:45:14 | CAN
                                                     | 192.168.
       7 | eraab
170.243
        8 | bisles | 2022-05-08 | 01:30:17 | US
                                                     | 192.168.
119.173 |
       10 | jrafael | 2022-05-12 | 09:33:19 | CANADA
                                                     | 192.168.
228.221
              0 |
       11 | sgilmore | 2022-05-11 | 10:16:29 | CANADA | 192.168.
```

186   bisles	2022-05-09	04:29:17	USA	192.168.		
40.72   0						
188   jsoto	2022-05-11	00:39:09	USA	192.168.		
21.88   0						
189   nmason	2022-05-08	05:37:24	CANADA	192.168.		
168.117   1						
190   jsoto	2022-05-09	05:09:21	USA	192.168.		
25.60   0						
191   cjackson	2022-05-08	06:46:07	CANADA	192.168.		
7.187   0				100 160		
192   bisles	2022-05-10	08:32:03	USA	192.168.		
201.40   1		07 11 00 1		100 160		
193   lrodriqu	2022-05-08	07:11:29	US	192.168.		
125.240   0	I 2022 OF 12 I	14-11-04	CAN	100 160		
194   jclark 197.247   0	2022-05-12	14:11:04	CAN	192.168.		
197.247   0     195   alevitsk	1 2022-05-11 1	06.50.12	CAMADA	102 160		
236.78   1	2022-05-11	06.59.15	CANADA	132.100.		
196   acook	1 2022-05-10 1	09.56.48	CAN	192 168		
52.90   0	2022 05 10	03.30.40	CAIV	132.100.		
197   jsoto	1 2022-05-08 1	09:05:09	us I	192.168.		
36.21   0	2022 00 00	7	1	132.100.		
200   jclark	2022-05-12	01:11:45	CANADA I	192.168.		
91.103   1						
	-++	+	+			
+						
144 rows in set (0.024 sec)						

## Retrieve employees in Marketing

```
FROM employees
MariaDB [organization]> SELECT *
                                                  where department
like 'marketing' and office like 'east%';
 employee id | device id
                             | username | department
                                                      office
        1000 | a320b137c219 | elarson
                                        | Marketing
                                                     | East-170
        1052 | a192b174c940 | jdarosa
                                        | Marketing
                                                     | East-195
        1075 | x573y883z772 | fbautist | Marketing
                                                     | East-267 |
        1088 | k8651965m233 | rgosh
                                                     | East-157
                                        Marketing
        1103 | NULL
                            | randerss | Marketing
                                                     | East-460 |
        1156 | a184b775c707 | dellery
                                        | Marketing
                                                     | East-417 |
         1163 | h679i515j339 | cwilliam | Marketing
                                                     | East-216 |
 rows in set (0.001 sec)
```

## Retrieve employees in Finance or Sales

#### Retrieve all employees not in IT

# Summary

SQL Queries are used to retrieve data from off/on premises databases/servers. This allows Security professionals to collect company or customer data and ensure the availability and integrity of logs and system information. Also applying filters to SQL queries allows sec professionals to quickly locate precise data/info if need be. Which, as a result, saves time and relieves the stress of sifting through unrelated data to find exactly what you are looking for.