Apply filters to SQL queries

Project description

An organization, MariaDB, wants to investigate potential security issues and find which computers need updates. Using SQL I can search and filter for the information we need.

Retrieve after hours failed login attempts

Using the following query we are able to see that there are 19 failed attempts to login after business hours.

```
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MariaDB monitor.
                                Commands end with ; or \g.
Your MariaDB connection id is 41
Server version: 10.3.39-MariaDB-0+deb10u2 Debian 10
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [organization]> clear
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> WHERE login time > '18:00' AND success = FALSE;
 event id | username | login date | login time | country | ip address
                                                                             success
        2 | apatel
                      | 2022-05-10 | 20:27:27
                                                CAN
                                                          | 192.168.205.12
                       2022-05-11 |
       18 | pwashing |
                                     19:28:50
                                                  US
                                                          | 192.168.66.142
       20
                        2022-05-12 |
                                     18:56:36
                                                  MEXICO
                                                          | 192.168.109.50
                                                                                     0
          tshah
       28 | aestrada | 2022-05-09 | 19:28:12
                                                  MEXICO
                                                          | 192.168.27.57
       34 | drosas
                        2022-05-11 | 21:02:04
                                                          | 192.168.45.93
                                                  US
       42 | cgriffin |
                                                            192.168.4.157
                       2022-05-09 | 23:04:05
                                                  US
                                                                                     0
       52 | cjackson |
                       2022-05-10 | 22:07:07
                                                  CAN
                                                           | 192.168.58.57
                                                                                     0
          | wjaffrey |
        69
                        2022-05-11 |
                                     19:55:15
                                                  USA
                                                            192.168.100.17
          | abernard |
                       2022-05-12 | 23:38:46
                                                  MEX
                                                          | 192.168.234.49
       87 | apatel
                        2022-05-08 | 22:38:31
                                                  CANADA
                                                          | 192.168.132.153
       96 | ivelasco |
                       2022-05-09 | 22:36:36
                                                            192.168.84.194
                                                  CAN
                                                                                     0
                       2022-05-11 | 18:38:07
       104 | asundara |
                                                  US
                                                            192.168.96.200
                                                                                     0
       107
          | bisles
                       2022-05-12 | 20:25:57
                                                  USA
                                                            192.168.116.187
                                                                                     0
       111
           aestrada
                       2022-05-10 | 22:00:26
                                                  MEXICO
                                                            192.168.76.27
                        2022-05-09
       127
            abellmas |
                                     21:20:51
                                                  CANADA
                                                            192.168.70.122
          | bisles
                      | 2022-05-09 | 20:03:55
                                                            192.168.113.171
                                                  US
                       2022-05-12 | 22:18:42
2022-05-10 | 20:49:00
            cgriffin |
       155
                                                  USA
                                                            192.168.236.176
       160
            jclark
                                                  CANADA
                                                            192.168.214.49
                                                                                     0
            yappiah |
       199
                       2022-05-11 | 19:34:48
                                                  MEXICO
                                                          | 192.168.44.232
19 rows in set (0.219 sec)
MariaDB [organization]>
```

Retrieve login attempts on specific dates

There was a security event on May 9th, 2022. The organization requested all logins from the date and the day before.

-> FROM log in atte	SELECT *				
-> WHERE login_date	mpts = '2022-05-0	9' OR login_c	date = '202	22-05-08';	
event_id username	login_date	login_time	country	ip_address	success
1 jrafael	2022-05-09	04:56:27	CAN	192.168.243.140	1
3 dkot 4 dkot	2022-05-09 2022-05-08	06:47:41 02:00:39	USA USA	192.168.151.162 192.168.178.71	1 0
8 bisles 12 dkot	2022-05-08	01:30:17 09:11:34	US USA	192.168.119.173	0 1
15 lyamamot	2022-05-09	17:17:26	USA	192.168.183.51	o i
24 arusso 25 sbaelish	2022-05-09	06:49:39 07:04:02	MEXICO US	192.168.171.192 192.168.33.137	1 1
26 apatel	2022-05-08	17:27:00	CANADA	192.168.123.105	1
28 aestrada 30 yappiah	2022-05-09 2022-05-09	19:28:12 03:22:22	MEXICO MEX	192.168.27.57 192.168.124.48	0 1
32 acook	2022-05-09	02:52:02	CANADA	192.168.142.239	0
36 asundara 38 sbaelish	2022-05-08	09:00:42 14:40:01	USA	192.168.78.151 192.168.60.42	1
39 yappiah	2022-05-09	07:56:40	MEXICO	192.168.57.115	1
42 cgriffin 43 mcouliba	2022-05-09	23:04:05 02:35:34	CANADA	192.168.4.157 192.168.16.208	0 0
44 daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	ō i
47 dkot 49 asundara	2022-05-08	05:06:45 14:00:01	us us	192.168.233.24 192.168.173.213	1 0
53 nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1 j
56 acook 58 ivelasco	2022-05-08 2022-05-09	04:56:30 17:20:54	CAN	192.168.209.130 192.168.57.162	1
61 dtanaka	2022-05-09	09:45:18	USA	192.168.98.221	1
65 aalonso 66 aestrada	2022-05-09 2022-05-08	23:42:12 21:58:32	MEX MEX	192.168.52.37 192.168.67.223	1 1
67 abernard	2022-05-09	11:53:41	MEX	192.168.118.29	1
68 mrah 70 tmitchel	2022-05-08	17:16:13 10:55:17	US MEXICO	192.168.42.248 192.168.87.199	1
71 mcouliba	2022-05-09	06:57:42	CAN	192.168.55.169	
72 alevitsk 79 abernard	2022-05-08	12:09:10 11:41:15	CANADA MEX	192.168.139.176 192.168.158.170	1
80 cjackson	2022-05-08	02:18:10	CANADA	192.168.33.140	1
83 lrodriqu 87 apatel	2022-05-08	08:10:23 22:38:31	USA CANADA	192.168.67.69 192.168.132.153	1
90 gesparza	2022-05-09	00:49:05	CANADA	192.168.87.201	
92 pwashing 96 ivelasco	2022-05-08	00:36:12 22:36:36	US CAN	192.168.247.219 192.168.84.194	0 0
97 jreckley	2022-05-09	02:49:23	MEXICO	192.168.32.231	1
101 sbaelish 102 jreckley	2022-05-08 2022-05-09	12:01:22 16:51:44	US MEX	192.168.145.158 192.168.108.13	0 1
108 daquino	2022-05-09	21:30:48	CANADA	192.168.15.110	1
110 mabadi 112 rjensen	2022-05-09 2022-05-09	00:01:54 09:22:05	USA MEX	192.168.90.124 192.168.69.116	1
IIV Mabaui	2022 03 03	00.01.31	ODA	172.100.70.127	±
			MEX	192.168.69.116	1 1
112 rjensen	2022 00 03	09:22:05			
117 bsand	2022-05-08	00:19:11	USA	192.168.197.187	i
117 bsand 120 tmitchel	2022-05-08 2022-05-09	00:19:11 02:58:17	USA MEXICO	192.168.197.187 192.168.134.62	
117 bsand 120 tmitchel 127 abellmas	2022-05-08	00:19:11	USA	192.168.197.187 192.168.134.62 192.168.70.122	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51	USA MEXICO CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.113.171	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40	USA MEXICO CANADA CANADA US	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.113.171 192.168.22.115	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33	USA MEXICO CANADA CANADA US US USA US	192.168.197.187 192.168.134.62 192.168.70.12 192.168.122.169 192.168.113.171 192.168.22.115 192.168.91.238	0 0 1 0 1 1 0 1 1 1
117 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32	USA MEXICO CANADA CANADA US USA US CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.113.171 192.168.22.115 192.168.91.238 192.168.139.9	
117 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02	USA MEXICO CANADA CANADA USA USA USA USA CANADA CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.131.171 192.168.22.115 192.168.91.238 192.168.39.9 192.168.39.196	0 0 1 0 1 0 1 1 0 1 1
117 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34	USA MEXICO CANADA CANADA US USA US CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.39.9 192.168.39.9 192.168.39.196 192.168.65.245	
117 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08	00:19:11 02:58:17 21:20:51 10:45:59 10:45:59 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02	USA MEXICO CANADA CANADA USA USA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.39.9 192.168.39.196 192.168.52.45 192.168.135.6 192.168.135.6	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08 2022-05-08	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46	USA MEXICO CANADA CANADA US USA US CANADA USA USA CANADA CANADA CANADA CANADA MEX CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.39.9 192.168.39.196 192.168.65.245 192.168.35.6 192.168.204.124 192.168.30.225	
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117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi 158 smartel 161 abellmas	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32 13:25:50	USA MEXICO CANADA CANADA US USA US CANADA CANADA CANADA CANADA MEX CANADA MEX CANADA CANADA CANADA CANADA CANADA CANADA CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.91.238 192.168.91.238 192.168.39.196 192.168.35.65 192.168.30.245 192.168.30.225 192.168.190.178 192.168.180.205	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi 158 smartell 161 abellmas 162 yappiah	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32	USA MEXICO CANADA CANADA CANADA USS USA USA CANADA CANADA CANADA CANADA MEX CANADA CANADA CANADA CANADA CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.39.9 192.168.39.196 192.168.35.6 192.168.04.124 192.168.30.225 192.168.190.178 192.168.190.178 192.168.180.205 192.168.162.100	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi 158 smartel 161 abellmas	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32 13:25:50 04:51:22	USA MEXICO CANADA US US USA USA CANADA CANADA USA USA USA USA CANADA CANADA MEX CANADA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.91.238 192.168.91.238 192.168.91.238 192.168.39.196 192.168.35.65 192.168.30.245 192.168.30.225 192.168.190.178 192.168.180.205	
117 bsand	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32 13:25:50 04:51:22	USA MEXICO CANADA CANADA US USA USA CANADA CANADA CANADA CANADA MEXICO CAN MEXICO MEXICO MEXICO	192.168.197.187 192.168.70.122 192.168.70.122 192.168.122.169 192.168.123.171 192.168.22.115 192.168.39.196 192.168.39.196 192.168.39.196 192.168.35.66 192.168.30.225 192.168.100.205 192.168.180.205 192.168.180.205 192.168.180.205	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi 158 smartell 161 abellmas 162 yappiah 163 tmitchel 165 jreckley 168 jlansky 169 alevitsk 127 127 128 129 129 128 129	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32 13:25:50 04:51:22 09:21:16 15:28:43 13:25:42 08:10:43	USA MEXICO CANADA CANADA US USA USA CANADA CANADA CANADA CANADA MEXICO CAN MEXICO MEX MEXICO USA MEXICO USA MEXICO CAN MEXICO	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.133.171 192.168.22.115 192.168.39.196 192.168.39.196 192.168.39.196 192.168.35.66 192.168.135.66 192.168.135.66 192.168.10.225 192.168.10.205 192.168.19.178 192.168.19.178 192.168.19.199 192.168.19.295 192.168.19.295 192.168.19.295 192.168.34.193 192.168.210.94 192.168.210.94	
117 bsand 120 tmitchel 127 abellmas 128 jclark 131 bisles 134 iuduike 135 bsand 144 daquino 145 ivelasco 147 yappiah 148 daquino 150 nmason 151 mabadi 158 smartell 161 abellmas 162 yappiah 163 tmitchel 165 jreckley 168 jlansky 169 alevitsk 170 sbaelish	2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-09 2022-05-08 2022-05-08 2022-05-08 2022-05-08	00:19:11 02:58:17 21:20:51 10:45:59 20:03:55 06:46:40 14:06:33 11:09:32 09:06:02 06:04:34 06:15:55 14:40:02 16:29:46 19:30:32 13:25:50 04:51:22 09:21:16 15:28:43 13:25:42 08:10:43	USA MEXICO CANADA US USA USA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA MEX CANADA MEXICO CAN MEXICO MEXICO MEXICO USA MEXICO USA MEXICO USA USA USA	192.168.197.187 192.168.134.62 192.168.70.122 192.168.122.169 192.168.22.115 192.168.22.115 192.168.91.238 192.168.39.196 192.168.39.196 192.168.35.6 192.168.204.124 192.168.30.225 192.168.180.205 192.168.190.178 192.168.180.205 192.168.190.178 192.168.180.205 192.168.180.205 192.168.190.19 192.168.34.193 192.168.210.94 192.168.210.94 192.168.210.94 192.168.210.228 192.168.65.113	
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Using WHERE and OR commands, we can see there were 75 logins total on these days.

Retrieve login attempts outside of Mexico

The organization requested information about login attempts from outside of their base of operations, Mexico. Using WHERE NOT and the wildcard sign % we can see there were 144 attempts made from outside of Mexico.

```
MariaDB [organization] > SELECT
    -> FROM log_in_attempts
   -> WHERE NOT country LIKE 'MEX%';
 event_id | username | login_date | login_time | country | ip_address
                                                                        success
            jrafael
                      2022-05-09 | 04:56:27
                                               CAN
                                                         192.168.243.140
            apatel
                      2022-05-10
                                  20:27:27
                                               CAN
                                                         192.168.205.12
            dkot
                      2022-05-09 | 06:47:41
                                               USA
                                                         192.168.151.162
                      2022-05-08
                                                         192.168.178.71
                                  02:00:39
                                               USA
                                                       CANADA
       195
           | alevitsk | 2022-05-11 |
                                         06:59:13
                                                                  192.168.236.78
           acook
                          2022-05-10 | 09:56:48
                                                       CAN
                                                                  192.168.52.90
                                                                                             0 |
                        | 2022-05-08 | 09:05:09
       197 | jsoto
                                                                | 192.168.36.21
                                                                                             0 |
                                                       US
                        | 2022-05-12 | 01:11:45
       200 |
              jclark
                                                       CANADA
                                                                | 192.168.91.103
                                                                                             1 |
144 rows in set (0.000 sec)
```

Retrieve Computer Update Information for Marketing

The organization requested to know which computers in the Marketing department in the East wing need updates. Using the following query we are able to find this information.

```
MariaDB [organization] > SELECT *
    > FROM employees
   -> WHERE department = 'Marketing' AND office LIKE 'East%';
 employee_id | device_id
                             | username | department | office
        1000 | a320b137c219 | elarson |
                                         Marketing
                                                     | East-170
        1052 | a192b174c940 |
                              idarosa
                                          Marketing
                                                       East-195
        1075 | x573y883z772 | fbautist |
                                         Marketing
                                                       East-267
                                                       East-157
        1088 |
               k8651965m233 |
                              rgosh
                                          Marketing
                               randerss |
        1103 |
               NULL
                                          Marketing
                                                       East-460
        1156
               a184b775c707 |
                              dellery |
                                          Marketing
                                                       East-417
        1163 | h679i515j339 |
                              cwilliam |
                                          Marketing
                                                       East-216
 rows in set (0.019 sec)
MariaDB [organization]>
```

Retrieve Computer Update Information for Finance or Sales

The computers in the Finance and Sales department need updates as well, using the following query we are able to see which computers from both departments need to be updated.

```
MariaDB [organization] > SELECT *
    -> FROM employees
    -> WHERE department = 'Finance' OR department = 'Sales';
 employee id | device id
                              | username | department | office
         1003 | d394e816f943 | sgilmore | Finance
                                                        | South-153
         1007 | h174i497j413 | wjaffrey | Finance
                                                        | North-406
         1008 | i858j583k571 | abernard | Finance
                                                        | South-170
         1009 | NULL | lrodriqu |
1010 | k2421212m542 | jlansky |
                                            Sales
                                                          South-134
                                            Finance
                                                          South-109
         1011 | 1748m120n401 | drosas
                                                          South-292
                                            Sales
                p611q262r945
```

Retrieve all employees not in IT

The organization also requested a list of the employees not in the IT department. Using the following query we are able to filter out those employees and have a list of everyone else.

```
MariaDB [organization]> SELECT *
    -> FROM employees
   -> WHERE NOT department = 'Information Technology';
 employee_id | device_id
                             | username | department
                                                           | office
        1000 | a320b137c219 | elarson |
                                          Marketing
                                                            East-170
        1001 | b239c825d303 |
                                                            Central-276
                              bmoreno
                                          Marketing
        1002 | c116d593e558 | tshah
                                          Human Resources
                                                            North-434
        1003 | d394e816f943 |
                              sgilmore |
                                                            South-153
                                          Finance
               e218f877g788
```

Summary

I applied filters to SQL queries to obtain specific login attempts and employee computer information using LIKE AND OR and NOT while also using % for wildcards to find patterns.