Apply filters to SQL queries

Project description

Using SQL queries I have to obtain specific information about employees, their machines, and the departments so my team can investigate potential security issues and update computers with the SQL filters AND, OR, and NOT.

Retrieve after hours failed login attempts

My team is investigating failed login attempts after business hours and office hours end at 18:00:00. I need to identify failed login attempts after that time. The WHERE filter was used here in order to specify which columns we wanted to query.

```
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
                     | 2022-05-10 | 20:27:27
                                                CAN
                                                          | 192.168.205.12
       18 | pwashing | 2022-05-11 | 19:28:50
                                                US
                                                           192.168.66.142
                                                                                   0
       20 | tshah
                     | 2022-05-12 | 18:56:36
                                                MEXICO
                                                         | 192.168.109.50
                                                                                   0
          | aestrada | 2022-05-09
                                  | 19:28:12
                                                MEXICO
                                                         | 192.168.27.57
                                                US
       34 | drosas
                     | 2022-05-11 | 21:02:04
                                                          | 192.168.45.93
                                                                                   0
       42 | cgriffin | 2022-05-09 | 23:04:05
                                                US
                                                          | 192.168.4.157
                                                                                   0
           | cjackson | 2022-05-10 | 22:07:07
                                                          | 192.168.58.57
       52
                                                CAN
                                                                                   0
           | wjaffrey | 2022-05-11 | 19:55:15
       69
                                                USA
                                                           192.168.100.17
                                                                                   0
           | abernard |
       82
                       2022-05-12
                                    23:38:46
                                                 MEX
                                                           192.168.234.49
       87
            apatel
                     2022-05-08
                                  | 22:38:31
                                                CANADA
                                                           192.168.132.153
                                                                                   0
       96
           | ivelasco | 2022-05-09 | 22:36:36
                                                                                   0
                                                CAN
                                                          | 192.168.84.194
          | asundara | 2022-05-11 | 18:38:07
                                                          | 192.168.96.200
                                                                                   0
      104
                                                US
      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
                                                CANADA
           | abellmas | 2022-05-09 | 21:20:51
                                                          | 192.168.70.122
      127
                                    20:03:55
                                                                                   0
      131
           | bisles
                     2022-05-09
                                                 US
                                                           192.168.113.171
      155
            cgriffin |
                       2022-05-12
                                    22:18:42
                                                 USA
                                                           192.168.236.176
                                                                                   0
                                                 CANADA
      160
             jclark
                       2022-05-10
                                    20:49:00
                                                           192.168.214.49
                                                                                   0
      199
             yappiah
                       2022-05-11
                                    19:34:48
                                                 MEXICO
                                                           192.168.44.232
                                                                                   0
19 rows in set (0.001 sec)
```

There were 19 failed login attempts after 18:00:00

Retrieve login attempts on specific dates

My team is investigating a suspicious security event that occurred on 2022-05-09. I need to retrieve all the login attempts for that day and the day before.

```
MariaDB [organization]> SELECT *
   -> FROM log in attempts
   -> WHERE login date = '2022-05-09' OR login date = '2022-05-08';
 event_id | username | login_date | login_time | country | ip_address
                                                                           success
            jrafael
                     2022-05-09
                                  04:56:27
                                                           192.168.243.140
                                                 CAN
                                                                                   1
        3
          dkot
                       2022-05-09
                                    06:47:41
                                                 USA
                                                           192.168.151.162
                                                           192.168.178.71
          dkot
                     2022-05-08
        4
                                  02:00:39
                                                 USA
                                                                                   0
          | bisles
                     2022-05-08
                                  01:30:17
                                                 US
                                                           192.168.119.173
                                                                                   0
        8
       12 | dkot
                     2022-05-08
                                  09:11:34
                                               USA
                                                         | 192.168.100.158
                                                                                   1
       15 | lyamamot | 2022-05-09
                                               USA
                                                         | 192.168.183.51
                                  | 17:17:26
       24 | arusso
                       2022-05-09 | 06:49:39
                                               MEXICO
                                                         | 192.168.171.192
       25 | sbaelish |
                                               US
                       2022-05-09 | 07:04:02
                                                          192.168.33.137
                                  | 17:27:00
       26 | apatel
                       2022-05-08
                                               CANADA
                                                         | 192.168.123.105
                                                                                   1
                                                           192.168.27.57
       28
          aestrada
                       2022-05-09
                                  | 19:28:12
                                               MEXICO
                                                                                   0
          | yappiah
                       2022-05-09
       30
                                  03:22:22
                                               MEX
                                                           192.168.124.48
                                                                                   1
       32
          acook
                       2022-05-09
                                    02:52:02
                                                 CANADA
                                                           192.168.142.239
                                                                                   0
          | asundara | 2022-05-08
       36
                                    09:00:42
                                                 US
                                                           192.168.78.151
                                                                                   1
          | sbaelish | 2022-05-09 | 14:40:01
       38
                                               USA
                                                           192.168.60.42
                                                                                   1
          | yappiah | 2022-05-09 | 07:56:40
       39
                                               MEXICO
                                                         1 192.168.57.115
                                                                                   1
       42 | cgriffin | 2022-05-09 | 23:04:05
                                               US
                                                         | 192.168.4.157
                                                                                   0
       43 | mcouliba | 2022-05-08 | 02:35:34
                                               CANADA
                                                         | 192.168.16.208
       44 | daquino | 2022-05-08 | 07:02:35
                                               CANADA
                                                         | 192.168.168.144
                                                                                   0
                                               US
       47 | dkot
                     | 2022-05-08 | 05:06:45
                                                         | 192.168.233.24
                                                                                   1
          | asundara | 2022-05-08 | 14:00:01
                                               US
                                                                                   0
       49
                                                         | 192.168.173.213
       53
          nmason
                       2022-05-08
                                  | 11:51:38
                                               CAN
                                                         | 192.168.133.188
                                                                                   1
                       2022-05-08
                                                 CAN
       56
          acook
                                  | 04:56:30
                                                           192.168.209.130
                                                                                   1
       58
            ivelasco |
                       2022-05-09
                                    17:20:54
                                                 CAN
                                                           192.168.57.162
                                                                                   0
                       2022-05-09
                                                 USA
                                                           192.168.98.221
       61
          dtanaka
                                    09:45:18
                                                                                   1
       65
          aalonso
                     2022-05-09
                                    23:42:12
                                                 MEX
                                                         | 192.168.52.37
                                                                                   1
          | aestrada | 2022-05-08
                                                         1 192.168.67.223
       66
                                  1 21:58:32
                                               MEX
                                                                                   1
          | abernard | 2022-05-09
       67
                                  | 11:53:41
                                               MEX
                                                         | 192.168.118.29
                                                                                   1
                                  | 17:16:13
       68 | mrah
                       2022-05-08
                                               US
                                                         | 192.168.42.248
       70 | tmitchel | 2022-05-09
                                                         | 192.168.87.199
                                  | 10:55:17
                                               MEXICO
       71 | mcouliba | 2022-05-09
                                  | 06:57:42
                                               CAN
                                                          192.168.55.169
                                                                                   0
          | alevitsk | 2022-05-08
       72
                                  | 12:09:10
                                               CANADA
                                                         | 192.168.139.176
                                                                                   1
       79
          | abernard | 2022-05-09
                                  | 11:41:15
                                                 MEX
                                                           192.168.158.170
                                                                                   0
                                                 CANADA
                       2022-05-08
       80
          | cjackson |
                                  02:18:10
                                                           192.168.33.140
                                                                                   1
       83
          | lrodriqu |
                       2022-05-08
                                    08:10:23
                                                 USA
                                                           192.168.67.69
                     | 2022-05-08
                                                 CANADA
                                                           192.168.132.153
                                                                                   0
       87
          | apatel
                                    22:38:31
       90
          | gesparza | 2022-05-09 | 00:49:05
                                                 CANADA
                                                           192.168.87.201
                                                                                   0
       92
          | pwashing |
                       2022-05-08 | 00:36:12
                                                 US
                                                           192.168.247.219
                                                                                   0
                       2022-05-09 | 22:36:36
          | ivelasco |
                                                 CAN
                                                         | 192.168.84.194
                                                                                   0
       97 | jreckley |
                       2022-05-09 | 02:49:23
                                                 MEXICO
                                                         | 192.168.32.231
      101 | sbaelish | 2022-05-08 | 12:01:22
                                                         | 192.168.145.158
                                                                                   0
                                                US
```

102 jreckley	2022-05-09 16:51:44	MEX	192.168.108.13	1
108 daguino	2022-05-09 21:30:48	CANADA	192.168.15.110	1 i
110 mabadi	2022-05-09 00:01:54	USA	192.168.90.124	1 i
112 rjensen	2022-05-09 09:22:05	MEX	192.168.69.116	1 i
117 bsand	2022-05-08 00:19:11	USA	192.168.197.187	o i
120 tmitchel	2022-05-09 02:58:17	MEXICO	192.168.134.62	o i
127 abellmas	2022-05-09 21:20:51	CANADA	192.168.70.122	o i
128 jclark	2022-05-09 10:45:59	CANADA	192.168.122.169	o i
131 bisles	2022-05-09 20:03:55	US	192.168.113.171	o i
134 iuduike	2022-05-09 06:46:40	USA	192.168.22.115	1
135 bsand	2022-05-09 14:06:33	US	192.168.91.238	o i
144 daquino	2022-05-09 11:09:32	CANADA	192.168.139.9	o i
145 ivelasco	2022-05-08 09:06:02	CANADA	192.168.39.196	1
147 yappiah	2022-05-08 06:04:34	MEX	192.168.65.245	0 j
148 daquino	2022-05-08 06:15:55	CANADA	192.168.135.6	1
150 nmason	2022-05-08 14:40:02	CAN	192.168.204.124	0
151 mabadi	2022-05-09 16:29:46	USA	192.168.30.225	1
158 smartell	2022-05-09 19:30:32	MEXICO	192.168.190.178	1
161 abellmas	2022-05-09 13:25:50	CAN	192.168.180.205	0
162 yappiah	2022-05-09 04:51:22	MEXICO	192.168.162.100	0
163 tmitchel	2022-05-08 09:21:16	MEX	192.168.119.29	0
165 jreckley	2022-05-08 15:28:43	MEXICO	192.168.34.193	0
168 jlansky	2022-05-08 13:25:42	USA	192.168.210.94	1
169 alevitsk	2022-05-08 08:10:43	CANADA	192.168.210.228	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
178 sgilmore	2022-05-08 12:27:22	CAN	192.168.52.216	0
184 alevitsk	2022-05-08 03:09:48	CAN	192.168.33.70	0
186 bisles	2022-05-09 04:29:17	USA	192.168.40.72	0
187 arusso	2022-05-09 00:36:26	MEX	192.168.77.137	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
193 lrodriqu	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
+	+	+	+	+
75 rows in set (0.001	sec)			

There were 75 login attemps

Retrieve login attempts outside of Mexico

	log_in_atte	empts				
-> -> WHERE	NOT countr	y LIKE 'MEX%'	;			
vent_id	username	login_date	login_time	country	+ ip_address	++ success
1	jrafael	2022-05-09	04:56:27	CAN	192.168.243.140	+ 1
2	apatel	2022-05-10	20:27:27	CAN	192.168.205.12	0
3	dkot	2022-05-09	06:47:41	USA	192.168.151.162	1
	dkot	2022-05-08	02:00:39	USA	192.168.178.71	0
	· .	2022-05-11		CANADA	192.168.86.232	0
7	eraab	2022-05-11	01:45:14	CAN	192.168.170.243	1 1
8	bisles	2022-05-08	01:30:17	US	192.168.119.173	0 1
10		2022-05-12	09:33:19	CANADA	192.168.228.221	0 1
	_	2022-05-11		CANADA	192.168.140.81	0
	dkot mrah	2022-05-08 2022-05-11		USA USA	192.168.100.158	1 1
14	mran sbaelish		09:29:34 10:20:18	USA	192.168.246.135 192.168.16.99	1 1
	lyamamot		17:17:26	USA	192.168.183.51	1
	mcouliba		06:44:22	CAN	192.168.172.189	1 1 1
17	pwashing		02:33:02	USA	192.168.81.89	1 1
		2022-05-11		US	192.168.66.142	0 1
	jhill	2022-05-12	13:09:04	US	192.168.142.245	1 1
	iuduike	2022-05-11	17:50:00	US	192.168.131.147	1 1
25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	1 1
26	apatel	2022-05-08	17:27:00	CANADA	192.168.123.105	1
29	bisles	2022-05-11	01:21:22	US	192.168.85.186	0
31	acook	2022-05-12	17:36:45	CANADA	192.168.58.232	0
32	acook	2022-05-09	02:52:02	CANADA	192.168.142.239	0
	zbernal	2022-05-11	02:52:10	US	192.168.72.59	1
	drosas	2022-05-11		US	192.168.45.93	0
	asundara		09:00:42	US	192.168.78.151	1 1
	eraab	2022-05-10	06:03:41	CANADA	192.168.152.148	0 1
	sbaelish		14:40:01	USA	192.168.60.42	1 1
	apatel	2022-05-10 2022-05-09	17:39:42	CANADA	192.168.46.207	0 1
42 43	mcouliba		23:04:05 02:35:34	US CANADA	192.168.4.157 192.168.16.208	0 0
44	daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	0 1
45		2022-05-11		US	192.168.223.157	1 1
46	eraab	2022-05-11	11:29:27	CAN	192.168.24.12	0
185	jsoto	2022-05-10	13:34:58	USA	192.168.151	.91
186	bisles	2022-05-09	9 04:29:17	USA	192.168.40.	72
188	jsoto	2022-05-11	1 00:39:09	USA	192.168.21.	88
189	nmason	2022-05-08	3 05:37:24	CANA	DA 192.168.168	.117
190	jsoto	2022-05-09	9 05:09:21	USA	192.168.25.	60
		2022-05-08	8 06:46:07	CANA	DA 192.168.7.1	87
192	bisles	2022-05-10	0 08:32:03	USA	192.168.201	.40
193	lrodriqu	2022-05-08	8 07:11:29	US	192.168.125	.240
194	jclark	2022-05-12	2 14:11:04		192.168.197	
		2022-05-11				
	acook		0 09:56:48		192.168.52.	
	jsoto		8 09:05:09		192.168.36.	
	jclark		2 01:11:45	CANA		
	+					

The LIKE filter can be used instead of an equals sign. The special character after the LIKE filter is called a wildcard and they can be placed before, after, or in both places. MEX% searches for any values that begin with MEX

There were 144 login attempts made outside of Mexico.

Retrieve employees in Marketing

We are now updating employee machines and need to obtain information about employees in the **marketing** department who are located in offices in the east building. This information will be retrieved from the **department** and **office** columns in the **employees** table.

```
MariaDB [organization] > SELECT *
    -> FROM employees
    -> WHERE department = 'Marketing' AND office LIKE
  employee id | device id
                               username | department |
         1000 | a320b137c219 | elarson
                                        | Marketing
         1052 | a192b174c940 | jdarosa
                                        | Marketing
                                                       East-195
         1075 | x573y883z772 | fbautist | Marketing
         1088 | k8651965m233 | rgosh
                                        | Marketing
         1103 | NULL
                             | randerss | Marketing
         1156 | a184b775c707 | dellery
                                        | Marketing
         1163 | h679i515j339 | cwilliam | Marketing
                                                       East-216
 rows in set (0.001 sec)
```

Retrieve employees in Finance or Sales

We are now updating employee machines and need to obtain information about employees in the **finance** and **sales** departmentThis information will be retrieved from the **department** column in the **employees** table.

```
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 | Sales
                                                   | South-134
        1010 | k2421212m542 | jlansky | Finance
                                                    South-109
        1011 | 1748m120n401 | drosas
                                       Sales
                                                    South-292
        1015 | p611q262r945 | jsoto
                                       Finance
                                                   North-271
        1017 | r550s824t230 | jclark
                                       Finance
                                                    | North-188
        1018 | s310t540u653 | abellmas | Finance
                                                   | North-403
        1022 | w237x430y567 | arusso
                                      Finance
                                                    | West-465
        1024 | y976z753a267 | iuduike | Sales
                                                    South-215
        1025 | z381a365b233 | jhill
                                      Sales
                                                    | North-115
        1029 | d336e475f676 | ivelasco | Finance
                                                    | East-156
        1035 | j236k3031245 | bisles
                                      Sales
                                                    | South-171
        1039 | n253o917p623 | cjackson | Sales
                                                    | East-378
        1041 | p929q222r778 | cgriffin | Sales
                                                   North-208
        1044 | s429t157u159 | tbarnes | Finance
                                                    | West-415
                                                    | East-115
        1045 | t567u844v434 | pwashing | Finance
        1046 | u429v921w138 | daguino | Finance
                                                    | West-280
        1047 | v109w587x644 | cward
                                       Finance
                                                    | West-373
        1048 | w167x592y375 | tmitchel | Finance
                                                   South-288
        1049 | NULL
                            | jreckley | Finance
                                                    | Central-295
        1050 | y132z930a114 | csimmons | Finance
                                                    | North-468
                                       | Sales
                                                    | South-270
        1057 | f370g535h632 | mscott
        1062 | k3671639m697 | redwards | Finance
                                                    | North-180
        1063 | 1686m140n569 | lpope
                                       Sales
                                                    | East-226
        1066 | o678p794q957 | ttyrell | Sales
                                                    | Central-444
                                                    | East-110
        1069 | NULL
                            | jpark
                                      Finance
        1071 | t244u829v723 | zdutchma | Sales
                                                    | West-348
        1072 | u905v920w694 | esmith
                                      | Sales
                                                    | East-421
        1076 | y347z204a710 | fgarcia | Finance
                                                    | Central-270
        1078 | a667b270c984 | sharley | Sales
                                                    | North-418
        1081 | d647e310f618 | gcorbit | Finance
                                                    South-290
        1083 | f840g812h544 | gkoshi
                                       Finance
                                                    | West-165
```

The OR filter connects 2 conditions but specifies that either condition can be met. It will return a result if the first, second or both conditions are met. The conditions for this query are Sales and Finance.

```
1085 | h339i498j269 | cperez
                                          Sales
                                                        East-325
         1086 | i281j129k749 | lmajumda
                                           Sales
                                                        West-499
         1089 | 1358m929n154 | jpark2
                                          Sales
                                                        West-251
         1091 | n378o313p469 | rtran
                                                       Central-230
                                          Sales
         1092 | o391p779q935 | lpark
                                          Sales
                                                        West-227
         1098
             | u671v146w618
                             tarchamb
                                          Sales
                                                        North-423
         1099 | v283w690x104 | anaser
                                                       West-357
                                         | Finance
         1105 | b551c837d758 | kmei
                                         | Finance
                                                      | Central-232
         1107
             | d168e758f876 | akajwara |
                                          Sales
                                                        North-471
         1109 | f229q533h679 | nlocklea | Sales
                                                        East-196
         1110 | q567h376i314 | pchaudhu | Sales
                                                       Central-428
         1111 | h835i179j862 | jlee
                                          Sales
                                                        West-309
         1116 | m272n572o874 | nzhao
                                          Sales
                                                      | South-100
         1117 | n683o758p820 | dahmad
                                          Sales
                                                        West-405
                                                        South-329
         1118 | o305p208q337 | jpark3
                                         Sales
         1119 | p164q780r999 | omubarak | Sales
                                                        West-409
         1121 | r628s557t397 | mrojas
                                         | Sales
                                                        East-288
         1122 | s103t952u851 | btorres
                                         | Finance
                                                       West-319
         1130 | a317b635c465 | tsnow
                                         | Sales
                                                      | Central-451
         1136 | q299h520i457
                             | jhawes
                                          Finance
                                                        West-416
         1138 | i671j355k725 | sromero
                                         Finance
                                                      | South-329
         1142 | m674n127o823 | lsilva
                                                        East-440
                                         | Finance
                                                       Central-266
         1144 | NULL
                             | erobinso | Finance
         1147 | r454s225t299 | tvega
                                         Finance
                                                      | West-177
         1148 | s328t505u907 | dharvey
                                         Finance
                                                        South-181
         1159 | d881e710f732 | jshen
                                         | Finance
                                                        East-193
         1164 | i682j513k442 | fsmeltz
                                         | Finance
                                                        North-163
         1169 | NULL
                             | mmitchel | Sales
                                                        Central-250
         1174 | s371t911u987
                             eortiz
                                         Finance
                                                       North-428
         1175 | t959u687v394 | jclark2
                                         | Finance
                                                      | North-194
         1176 | u849v569w521 | nliu
                                          Sales
                                                        West-220
         1181 | z803a233b718 | sessa
                                          Finance
                                                        South-207
         1185 | d790e839f461 | revens
                                         | Sales
                                                        North-330
         1186 | e281f433g404 | sacosta
                                         Sales
                                                        North-460
         1187 | f963q637h851 | bbode
                                         | Finance
                                                      | East-351
         1188 | g164h566i795 | noshiro
                                         | Finance
                                                        West-252
         1195 | n5160853p957 | orainier
                                         | Finance
                                                        East-346
71 rows in set (0.001 sec)
```

Retrieve all employees not in IT

```
MariaDB [organization]> SELECT *
   -> FROM employees
   \rightarrow
   -> WHERE NOT department = 'Information Technology';
 employee id | device id
                           | username | department
                                                       | office
        1000 | a320b137c219 | elarson | Marketing
                                                       | East-170
        1001 | b239c825d303 | bmoreno | Marketing
                                                       | Central-276
        1002 | c116d593e558 | tshah | Human Resources | North-434
        1003 | d394e816f943 | sqilmore | Finance | South-153
        1004 | e218f877g788 | eraab | Human Resources | South-127
        1005 | f551g340h864 | gesparza | Human Resources | South-366
        1007 | h174i497j413 | wjaffrey | Finance
                                                      North-406
        1008 | i858j583k571 | abernard | Finance
                                                      | South-170
                           | lrodriqu | Sales
        1009 | NULL
                                                      | South-134
        1010 | k2421212m542 | jlansky | Finance
                                                      South-109
        1011 | 1748m120n401 | drosas | Sales
                                                      South-292
                                    | Finance
        1015 | p611q262r945 | jsoto
                                                      | North-271
        1016 | q793r736s288 | sbaelish | Human Resources | North-229
        1017 | r550s824t230 | jclark | Finance
                                                      North-188
                                                      North-403
        1018 | s310t540u653 | abellmas | Finance
        1020 | u899v381w363 | arutley | Marketing
                                                      South-351
        1022 | w237x430y567 | arusso | Finance
                                                      | West-465
        1024 | y976z753a267 | iuduike | Sales
                                                       | South-215
                                    | Sales
        1025 | z381a365b233 | jhill
                                                       | North-115
        1026 | a998b568c863 | apatel | Human Resources | West-320
        1027 | b806c503d354 | mrah | Marketing | West-246
        1028 | c603d749e374 | aestrada | Human Resources | West-121
        1029 | d336e475f676 | ivelasco | Finance
                                                      | East-156
        1030 | e391f189g913 | mabadi | Marketing
                                                      | West-375
        1031 | f419g188h578 | dkot | Marketing | West-408
        1034 | i679j565k940 | bsand
                                     | Human Resources | East-484
                                                      South-171
        1035 | j236k3031245 | bisles | Sales
        1035 | 3236k3031243 | Bisles | Sales | South-171 | 1036 | k5501533m205 | rjensen | Marketing | Central-239 |
        1038 | m873n636o225 | btang | Human Resources | Central-260 |
        1039 | n253o917p623 | cjackson | Sales
                                                       | East-378
        1040 | o783p832q294 | dtarly | Human Resources | East-237
        1041 | p929q222r778 | cgriffin | Sales | North-208
        1042 | q175r338s833 | acook | Human Resources | West-381
        1044 | s429t157u159 | tbarnes | Finance
                                                       | West-415
        1045 | t567u844v434 | pwashing | Finance
                                                       | East-115
        1046 | u429v921w138 | daquino | Finance
                                                      | West-280
        1047 | v109w587x644 | cward
                                     Finance
                                                      | West-373
```

Here I used the NOT filter which only works on a single condition. SQL returned all the records that did not match the condition which was Information Technology.

```
1186 | e281f433g404 | sacosta
                                          Sales
                                                            North-460
        1187 | f963q637h851 |
                               bbode
                                          Finance
                                                            East-351
         1188 | g164h566i795 | noshiro
                                          Finance
                                                            West-252
        1189 | h784i120j837 | slefkowi | Human Resources | West-342
        1190 | NULL
                               kcarter
                                        | Marketing
                                                           | Central-270
        1191 | NULL
                             | shakimi
                                        | Marketing
                                                           | Central-366
        1194 | m340n287o441 | zwarren
                                          Human Resources | West-212
         1195 | n516o853p957
                             | orainier
                                          Finance
                                                            East-346
         1198 | q308r573s459 |
                               jmartine |
                                          Marketing
                                                            South-117
         1199 | r520s571t459 | areyes
                                        Human Resources
                                                           | East-100
161 rows in set (0.001 sec)
```

Summary

All computers were successfully updated and all the information needed to conduct our security investigation have been retrieved using AND, OR, NOT, and a wildcard character (%).