## Retrieve after hours failed login attempts

ent_id	username	login_date	login_time	country	ip_address	success
2	apatel	2022-05-10	20:27:27	CAN	192.168.205.12	0
18	pwashing	2022-05-11	19:28:50	បន	192.168.66.142	0
20	tshah	2022-05-12	18:56:36	MEXICO	192.168.109.50	0
28	aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0
34	drosas	2022-05-11	21:02:04	បន	192.168.45.93	0
42	cgriffin	2022-05-09	23:04:05	US	192.168.4.157	0
52	cjackson	2022-05-10	22:07:07	CAN	192.168.58.57	0
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 J	apatel	2022-05-08	22:38:31	CANADA	192.168.132.153	0
96	ivelasco	2022-05-09	22:36:36	CAN	192.168.84.194	0
104	asundara	2022-05-11	18:38:07	បន	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	0
127	abellmas	2022-05-09	21:20:51	CANADA	192.168.70.122	0
131	bisles	2022-05-09	20:03:55	បន	192.168.113.171	0
155	cgriffin	2022-05-12	22:18:42	USA	192.168.236.176	0
160	jclark	2022-05-10	20:49:00	CANADA	192.168.214.49	0
199 I	yappiah	2022-05-11	19:34:48	MEXICO	192.168.44.232	0

I queried for unsuccessful login attempts after 6:00 PM. In SQL, it uses a 24 hour clock format, so 6:00 PM is translated to 18:00.

## Retrieve login attempts on specific dates

Query command: SELECT \* FROM log\_in\_attempts WHERE login\_date = '2022-05-09' OR login\_date = '202

MariaDB [oro	ganization]	> SELECT * FRO	OM log_in_atte	empts WHER	E login_date = '20	22-05-09' A	ND login_date = '2022-05-09' OR	login_date = '2022-05-08';
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	2022-05-09	06:47:41	USA	192.168.151.162	1 1		
1 4 1	dkot	2022-05-08		USA	192.168.178.71	0 1		
8 1	bisles	2022-05-08	01:30:17	US	192.168.119.173	0 1		
12     15		2022-05-08 2022-05-09		USA USA	192.168.100.158   192.168.183.51	1     0		
24	arusso	2022-05-09		MEXICO	192.168.171.192	1 1		
25	sbaelish			US	192.168.33.137	1 1		
26	apatel	2022-05-08		CANADA	192.168.123.105	1 1		
28	aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0 1		
] 30	yappiah	2022-05-09	03:22:22	MEX	192.168.124.48	1		
32	acook	2022-05-09		CANADA	192.168.142.239	0 1		
36     38	asundara sbaelish	2022-05-08 2022-05-09	09:00:42 14:40:01	US USA	192.168.78.151   192.168.60.42	1 1		
38	yappiah	2022-05-09		MEXICO	192.168.57.115	1 1		
42	cgriffin	2022-05-09		US	192.168.4.157	0 1		
43	mcouliba	2022-05-08		CANADA	192.168.16.208	i 0 i		
44	daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	0 1		
47	dkot	2022-05-08	05:06:45	US	192.168.233.24	1		
49	asundara	2022-05-08		US	192.168.173.213	0 1		
53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1 1		
56     58	acook ivelasco	2022-05-08 2022-05-09		CAN   CAN	192.168.209.130   192.168.57.162	1     0		
61	dtanaka	2022-05-09		USA	192.168.98.221			
65	aalonso	2022-05-09		MEX	192.168.52.37	. ī i		
66	aestrada	2022-05-08		MEX	192.168.67.223	1 1		
67	abernard	2022-05-09	11:53:41	MEX	192.168.118.29	1 1		
68	mrah		17:16:13	US	192.168.42.248	1 1		
70	tmitchel	2022-05-09		MEXICO	192.168.87.199	1 1		
71     72	mcouliba alevitsk	2022-05-09 2022-05-08	06:57:42   12:09:10	CAN   CANADA	192.168.55.169   192.168.139.176	0     1		
79	abernard			MEX	192.168.158.170	1 0 1		
80	cjackson	2022-05-08		CANADA	192.168.33.140	1 1		
83	lrodrigu		08:10:23	USA	192.168.67.69	1 1		
87	apatel	2022-05-08	22:38:31	CANADA	192.168.132.153	0 1		
90	gesparza			CANADA	192.168.87.201	0 1		
92	pwashing	2022-05-08	00:36:12	US	192.168.247.219	0 1		
96     97	ivelasco jreckley	2022-05-09 2022-05-09	22:36:36 02:49:23	CAN   MEXICO	192.168.84.194   192.168.32.231	0     1		
101	sbaelish	2022-05-08	12:01:22	US	192.168.145.158	1		
102	jreckley	2022-05-09	16:51:44	MEX	192.168.108.13			
108	daquino	2022-05-09	21:30:48	CANADA	192.168.15.110	1 1		
110		2022-05-09		USA	192.168.90.124	1 1		
112	rjensen	2022-05-09	09:22:05	MEX	192.168.69.116	1 1		
117     120	bsand tmitchel	2022-05-08 2022-05-09	00.13.11	USA MEXICO	192.168.197.187   192.168.134.62	0     0		
120	abellmas			CANADA	192.168.134.62	0		
128		2022-05-09	10:45:59	CANADA	192.168.122.169	. 01		
131		2022-05-09		US	192.168.113.171	0 1		
134		2022-05-09		USA	192.168.22.115	1		
135	bsand	2022-05-09	14:06:33	US	192.168.91.238	0 1		
144		2022-05-09		CANADA	192.168.139.9	0		
145		2022-05-08		CANADA	192.168.39.196	1 1 0 1		
147     148	yappiah daquino	2022-05-08 2022-05-08	06:04:34   06:15:55	MEX   CANADA	192.168.65.245   192.168.135.6	0     1		
150	nmason	2022-05-08		CAN	192.168.204.124	1 01		
151	mabadi	2022-05-09		USA	192.168.30.225	1 1		
158	<b>smartell</b>	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 1		

2-05-08

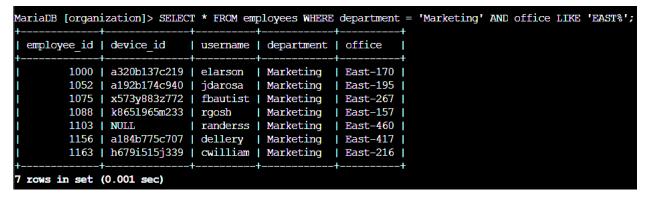
# Retrieve login attempts outside of Mexico

MariaDB [organization]> SELECT \* FROM log\_in\_attempts WHERE NOT country LIKE 'MEX%';

+							++
+	nt_1a	username 	login_date	login_time	country	ip_address +	success   tt
!	1   2	jrafael	2022-05-09 2022-05-10	04:56:27 20:27:27	CAN CAN	192.168.243.140   192.168.205.12	1     0
1	3	apatel dkot	2022-05-10	06:47:41	USA	192.168.203.12	1 1
:	4	dkot	2022-05-08	02:00:39	USA	192.168.178.71	I 0 I
i	5	jrafael	2022-05-11	03:05:59	CANADA	192.168.86.232	. 01
i	7	eraab	2022-05-11	01:45:14	CAN	192.168.170.243	1 1
İ	8	bisles	2022-05-08	01:30:17	US	192.168.119.173	0 1
I	10	jrafael	2022-05-12	09:33:19	CANADA	192.168.228.221	0
I	11	sgilmore	2022-05-11	10:16:29	CANADA	192.168.140.81	0 1
!	12	dkot	2022-05-08	09:11:34	USA	192.168.100.158	1
!	13	mrah sbaelish	2022-05-11 2022-05-10	09:29:34 10:20:18	USA US	192.168.246.135   192.168.16.99	1
	14   15	lyamamot	2022-05-10	17:17:26	USA	192.168.183.51	1    0
:	16	mcouliba	2022-05-05	06:44:22	CAN	192.168.172.189	1 1
i	17	pwashing	2022-05-11	02:33:02	USA	192.168.81.89	
i	18	pwashing	2022-05-11	19:28:50	US	192.168.66.142	0 1
1	19	jhill	2022-05-12	13:09:04	US	192.168.142.245	1 1
I .	21	iuduike	2022-05-11	17:50:00	US	192.168.131.147	1
I	25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	1
ļ.	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 1
!	31	acook	2022-05-12	17:36:45	CANADA CANADA	192.168.58.232	0
!	32   33	acook zbernal	2022-05-09     2022-05-11	02:52:02 02:52:10	US	192.168.142.239   192.168.72.59	0     1
:	34	drosas	2022-05-11	21:02:04	US	192.168.45.93	I 0 I
i	36	asundara	2022-05-08	09:00:42	US	192.168.78.151	
i	37	eraab	2022-05-10	06:03:41	CANADA	192.168.152.148	. – . I 0 I
i	38	sbaelish	2022-05-09	14:40:01	USA	192.168.60.42	1 1
I .	41	apatel	2022-05-10	17:39:42	CANADA	192.168.46.207	0 1
I .	42	cgriffin	2022-05-09	23:04:05	US	192.168.4.157	0
ļ.	43	mcouliba	2022-05-08	02:35:34	CANADA	192.168.16.208	0 1
!	44	daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	0 1
!	45	dtanaka	2022-05-11	10:28:54	US	192.168.223.157	1
	46   47	eraab dkot	2022-05-11 2022-05-08	11:29:27 05:06:45	CAN US	192.168.24.12   192.168.233.24	0     1
	48	asundara	2022-05-08	03:18:45	USA	192.168.72.10	1 1 I
i		asundara	2022-05-08		US	192.168.173.213	
i		jclark	2022-05-10		CANADA	192.168.174.117	
i e	51	jrafael	2022-05-10	22:40:01	CANADA	192.168.148.115	
I	52	cjackson	2022-05-10		CAN	192.168.58.57	0
I	53	nmason	2022-05-08		CAN	192.168.133.188	1
		jlansky	2022-05-11		US	192.168.6.170	0
		acook	2022-05-08		CAN	192.168.209.130	
		asundara ivelasco			US	192.168.211.201   192.168.57.162	1     0
	58 60		2022-05-09		CAN CAN	192.168.57.162	0     1
<u> </u>	61		2022-05-11		USA	192.168.98.221	1
	64	apatel	2022-05-10		CANADA	192.168.172.71	1
l	68	mrah	2022-05-08		US	192.168.42.248	1 1
1	69	wjaffrey	2022-05-11		USA	192.168.100.17	0 1
1		mcouliba			CAN	192.168.55.169	0 1
I		alevitsk			CANADA	192.168.139.176	1
	73				USA	192.168.80.46	0 1
	74		2022-05-11		CAN	192.168.162.2	1
	75   76		2022-05-12		US	192.168.188.63	1
	76   77	bmoreno wjaffrey	2022-05-10 2022-05-12		CAN US	192.168.61.200   192.168.106.183	0     1
		wjarrey cjackson			CANADA	192.168.106.183	
		lrodrigu			USA	192.168.67.69	1
	84		2022-05-11		CAN	192.168.243.203	1 1
	04	Jiaiaei	2022-03-11	05.20.1/	CAIN	192.100.243.203	I

- Using the '%' wildcard and the LIKE operator after 'MEX' fills in for 'MEXICO'.
- The 'NOT' operator does not filter for the string specified.

#### Retrieve employees in Marketing



Using the '%' wildcard and the LIKE operator after 'East' allows any character to fill in, in this instance, numbers.

Retrieve employees in Finance or Sales

```
MariaDB [organization]> SELECT * FROM employees WHERE department = 'Sales' OR department = 'Finance';
  employee id | device id
                             username
                                          department | office
         1003 | d394e816f943 | sgilmore | Finance
                                                       South-153
              | h174i497j413 | wjaffrey
         1007
                                        Finance
                                                       North-406
         1008 | i858j583k571 | abernard | Finance
                                                       South-170
         1009 | NULL
                             | lrodrigu | Sales
                                                       South-134
         1010 | k2421212m542 | jlansky | Finance
                                                       South-109
         1011 | 1748m120n401 | drosas
                                        Sales
                                                       South-292
                                          Finance
         1015 | p611q262r945 | jsoto
                                                       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
               d336e475f676 | ivelasco |
         1029
                                          Finance
                                                       East-156
         1035 I
                j236k3031245 | bisles
                                                       South-171
                                          Sales
         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 | daquino | Finance
                                                       West-280
         1047 | v109w587x644 | cward
                                        Finance
                                                       West-373
         1048 | w167x592y375 | tmitchel | Finance
                                                       South-288
                                                       Central-295
         1049 | NULL
                             | jreckley | Finance
         1050
               y132z930a114 | csimmons | Finance
                                                       North-468
                f370g535h632 | mscott
         1057
                                        Sales
                                                       South-270
                k3671639m697 | redwards |
                                                       North-180
         1062
                                          Finance
         1063
                1686m140n569 | lpope
                                          Sales
                                                       East-226
                                                       Central-444
         1066
                o678p794q957 | ttyrell
                                          Sales
                                                       East-110
         1069
                                         Finance
                NULL
                               jpark
         1071
                t244u829v723 | zdutchma | Sales
                                                       West-348
         1072 | u905v920w694 | esmith
                                        | Sales
                                                       East-421
         1076 | v347z204a710 | fgarcia
                                        Finance
                                                       Central-270
                                                       North-418
         1078 | a667b270c984 | sharley
                                        Sales
         1081 | d647e310f618 | gcorbit
                                         Finance
                                                       South-290
                                          Finance
         1083 | f840g812h544 | gkoshi
                                                       West-165
         1085 | h339i498j269 | cperez
                                          Sales
                                                       East-325
         1086 | i281j129k749 | lmajumda | Sales
                                                       West-499
         1089 | 1358m929n154 | jpark2
                                          Sales
                                                       West-251
         1091 | n378o313p469 | rtran
                                          Sales
                                                       Central-230
         1092
               o391p779q935 | lpark
                                                       West-227
                                          Sales
         1098
                u671v146w618 | tarchamb |
                                          Sales
                                                       North-423
                                                       West-357
         1099
                v283w690x104 | anaser
                                          Finance
         1105
               b551c837d758 | kmei
                                          Finance
                                                       Central-232
                                          Sales
         1107 | d168e758f876 | akajwara |
                                                       North-471
         1109 | f229q533h679 | nlocklea |
                                          Sales
                                                       East-196
         1110 | g567h376i314 | pchaudhu |
                                         Sales
                                                       Central-428
         1111 | h835i179j862 | jlee
                                                       West-309
                                          Sales
         1116 | m272n572o874 | nzhao
                                          Sales
                                                       South-100
                                        Sales
         1117 | n683o758p820 | dahmad
                                                       West-405
         1118 | o305p208q337 | jpark3
                                          Sales
                                                       South-329
         1119 | p164q780r999 | omubarak |
                                         Sales
                                                       West-409
         1121 | r628s557t397 | mrojas
                                         Sales
                                                       East-288
                                                       West-319
         1122
              | s103t952u851 | btorres
                                          Finance
               a317b635c465 | tsnow
                                          Sales
                                                       Central-451
         1130
         1136
               g299h520i457 | jhawes
                                          Finance
                                                       West-416
                                                       South-329
         1138
                i671j355k725 | sromero
                                          Finance
                                                       East-440
         1142 | m674n127o823 | lsilva
                                          Finance
         1144 | NULL
                             erobinso
                                          Finance
                                                       Central-266
         1147 | r454s225t299 | tvega
                                          Finance
                                                       West-177
```

```
1048 | w167x592y375 | tmitchel | Finance
                                             South-288
1049 | NULL
                    | jreckley | Finance
                                              Central-295
1050 | y132z930a114 | csimmons | Finance
                                              North-468
1057 | f370q535h632 | mscott
                               Sales
                                              South-270
1062 | k3671639m697 | redwards | Finance
                                              North-180
1063 | 1686m140n569 | 1pope
                                 Sales
                                              East-226
1066 | o678p794q957 | ttyrell
                                 Sales
                                              Central-444
1069 | NULL
                    | jpark
                               | Finance
                                              East-110
1071 | t244u829v723 | zdutchma | Sales
                                              West-348
1072 | u905v920w694 | esmith
                               | Sales
                                              East-421
                                              Central-270
1076 | y347z204a710 | fgarcia
                               Finance
                               Sales
1078 | a667b270c984 | sharley
                                              North-418
1081 | d647e310f618 | qcorbit
                               | Finance
                                              South-290
1083 | f840q812h544 | qkoshi
                               I Finance
                                              West-165
1085 | h339i498j269 | cperez
                                 Sales
                                              East-325
1086 | i281j129k749 | lmajumda | Sales
                                              West-499
1089 | 1358m929n154 | jpark2
                                 Sales
                                              West-251
1091 | n378o313p469 | rtran
                                 Sales
                                              Central-230
1092 | o391p779q935 | lpark
                               Sales
                                              West-227
1098 | u671v146w618 | tarchamb |
                                 Sales
                                              North-423
1099 | v283w690x104 | anaser
                               | Finance
                                              West-357
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
1118 | o305p208q337 | jpark3
                                 Sales
                                              South-329
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 | g299h520i457 | jhawes
                                 Finance
                                              West-416
1138 | i671j355k725 | sromero
                               I Finance
                                              South-329
1142 | m674n127o823 | lsilva
                               | Finance
                                              East-440
1144 | NULL
                    | erobinso | Finance
                                             | Central-266 |
                               Finance
1147 | r454s225t299 | tvega
                                              West-177
1148 | s328t505u907 | dharvey
                               Finance
                                              South-181
1159 | d881e710f732 | jshen
                               | Finance
                                              East-193
1164 | i682j513k442 | fsmeltz
                               Finance
                                             North-163
```

Retrieve all employees not in IT

MariaDB [organi	ization]> SELECT	* FROM emp	oloyees WHERE NOT	department = 'I	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	sgilmore	Finance	South-153	
	e218f877g788		Human Resources	South-127	
	f551g340h864		Human Resources	South-366	
	h174i497j413			North-406	
	i858j583k571			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	
1016	q793r736s288	sbaelish	Human Resources	North-229	
1017	r550s824t230	jclark	Finance	North-188	
	s310t540u653			North-403	
	u899v381w363		Marketing	South-351	
1022	w237x430y567	arusso	Finance	West-465	
	y976z753a267		Sales	South-215	
	z381a365b233		Sales	North-115	
	a998b568c863		Human Resources	West-320	
	b806c503d354		Marketing	West-246	
1028	c603d749e374	aestrada	Human Resources	West-121	
1029	d336e475f676	ivelasco	Finance	East-156	
1030	e391f189g913	mabadi	Marketing	West-375	
	f419g188h578		Marketing	West-408	
	i679j565k940		Human Resources	East-484	
	j236k3031245		Sales	South-171	
1036			Marketing	Central-239	
1038	m873n636o225	btang	Human Resources	Central-260	
1039	n253o917p623	cjackson	Sales	East-378	
1040	o783p832g294	dtarly	Human Resources	East-237	
1041	p929q222r778	cgriffin	Sales	North-208	
1042	g175r338s833	acook	Human Resources	West-381	
1044	s429t157u159	tbarnes	Finance	West-415	
1045	t567u844v434	pwashing	Finance	East-115	
1046	u429v921w138	daguino	Finance	West-280	
1047	v109w587x644	cward	Finance	West-373	
1048	w167x592y375	tmitchel	Finance	South-288	
		jreckley		Central-295	
1050	y132z930a114			North-468	
1051	z451a308b518	itraora	Marketing	Central-134	
1052	a192b174c940	jdarosa	Marketing	East-195	
•	b979c871d361			Central-259	
1055	d831e972f553	awilliam	Marketing	Central-256	
1056	e782f537g683	ankala	Marketing	North-139	
1057	f370g535h632	mscott	Sales	South-270	
	g264h852i697		Marketing	South-119	
1059	h832i322j795	jnguyen	Marketing	South-255	
1061	j255k2811925	nhersh	Human Resources	East-163	
1062	k3671639m697	redwards	Finance	North-180	
1063	1686m140n569	lpope	Sales	East-226	
	NULL	ejones	Marketing	South-477	
1065	n428o322p522	imoore	Human Resources	West-490	
1066	o678p794q957	ttyrell	Sales	Central-444	
1067	p288q432r721	lwhite	Marketing	North-277	
	NULL	jpark	Finance	East-110	
	s772t175u409		Human Resources	North-204	
	t244u829v723			West-348	
1072	u905v920w694	esmith	Sales	East-421	

## Summary

There's been a series of failed login attempts occurring after business hours on 05-09-2022. The suspicious activity was originating from every country other than Mexico, so we had performed security updates on each department that required it.