Apply Filters to SQL queries

Project description

In this project, I query a relational database using SQL queries involving filters and conditional statements. This querying is done in a security context, investigating potential security incidents and ensuring that the company's system is kept safe.

Retrieve after hours failed login attempts

Ran the following query to view failed login attempts (success = θ) that occurred after office hours (login_time > '18:00'):

```
SELECT *
FROM log_in_attempts
WHERE login_time > '18:00' AND success = 0;
```

event_id	username	login_date	t login_time		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	บร	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	US	192.168.45.93	0
42	cgriffin	2022-05-09	23:04:05	บร	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	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	บร	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	บร	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	yappiah	2022-05-11	19:34:48	MEXICO	192.168.44.232	0

Retrieve login attempts on specific dates

Ran the following query to view login attempts that occurred on this day (login_date = '2022-05-09') and the day before (login_date = '2022-05-08'):

SELECT *

FROM log_in_attempts

WHERE login_date = '2022-05-09' OR login_date = '2022-05-08';

MariaDB [org	ganization]> log_in_atte					
-> WHERE	login_date	= '2022-05-0	09' OR login_	date = '20:	22-05-08'; +	+
event_id	username	login_date	login_time	country	ip_address	success
1 1 3	jrafael dkot	2022-05-09	04:56:27	CAN	192.168.243.140 192.168.151.162	1
4	dkot	2022-05-08	02:00:39	USA	192.168.178.71	ō
8	bisles	2022-05-08	01:30:17	US	192.168.119.173	0
12	dkot	2022-05-08 2022-05-09	09:11:34	USA	192.168.100.158	1 0
24	lyamamot arusso	2022-05-09	17:17:26 06:49:39	USA MEXICO	192.168.183.51 192.168.171.192	1
25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	î
26	apatel	2022-05-08	17:27:00	CANADA	192.168.123.105	1
28	aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0
30	yappiah acook	2022-05-09 2022-05-09	03:22:22	MEX CANADA	192.168.124.48 192.168.142.239	1 0
36	asundara	2022-05-08	09:00:42	US	192.168.78.151	1
38	sbaelish	2022-05-09	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 0
42	cgriffin mcouliba	2022-05-09 2022-05-08	23:04:05	US	192.168.4.157 192.168.16.208	0
43	daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	0
47	dkot	2022-05-08	05:06:45	US	192.168.233.24	
49	asundara	2022-05-08	14:00:01	US	192.168.173.213	1
53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1
56	acook ivelasco	2022-05-08 2022-05-09	04:56:30 17:20:54	CAN	192.168.209.130 192.168.57.162	1 0
61	dtanaka	2022-05-09	09:45:18	USA	192.168.98.221	1
65	aalonso	2022-05-09	23:42:12	MEX	192.168.52.37	1
66	aestrada	2022-05-08	21:58:32	MEX	192.168.67.223	1
67	abernard mrah	2022-05-09 2022-05-08	11:53:41	MEX	192.168.118.29 192.168.42.248	1 1
70	tmitchel	2022-05-08	10:55:17	MEXICO	192.168.42.248	1
71	mcouliba	2022-05-09 2022-05-08	06:57:42	CAN	192.168.55.169	ō
72	alevitsk		12:09:10	CANADA	192.168.139.176	1
79	abernard	2022-05-09	11:41:15	MEX CANADA	192.168.158.170	0
80	cjackson lrodriqu	2022-05-08	02:18:10 08:10:23	USA	192.168.33.140 192.168.67.69	1
87	apatel	2022-05-08	22:38:31	CANADA	192.168.132.153	ō
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
96 97	ivelasco jreckley	2022-05-09 2022-05-09	22:36:36	CAN MEXICO	192.168.84.194 192.168.32.231	0
101	sbaelish	2022-05-08	12:01:22	US	192.168.145.158	0
102	jreckley	2022-05-09	16:51:44	MEX	192.168.108.13	1
108	daquino	2022-05-09	21:30:48	CANADA	192.168.15.110	1
110	mabadi	2022-05-09	00:01:54	USA MEX	192.168.90.124 192.168.69.116	1
117	rjensen bsand	2022-05-08	00:19:11	USA	192.168.197.187	1 0
120	tmitchel	2022-05-09	02:58:17	MEXICO	192.168.134.62	ŏ
127	abellmas	2022-05-09	21:20:51	CANADA	192.168.70.122	0
128	jclark	2022-05-09	10:45:59	CANADA	192.168.122.169	0
131	bisles iuduike	2022-05-09 2022-05-09	20:03:55	US	192.168.113.171	0
135	bsand	2022-05-09	14:06:33	US	192.168.22.115 192.168.91.238	0
144	daquino	2022-05-09	11:09:32	CANADA	192.168.139.9	0
145	ivelasco	2022-05-08	09:06:02	CANADA	192.168.39.196	1
147	yappiah daquino	2022-05-08	06:04:34 06:15:55	MEX CANADA	192.168.65.245 192.168.135.6	0
148	nmason	2022-05-08	14:40:02	CANADA	192.168.135.6	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 tmitchel	2022-05-09 2022-05-08	04:51:22	MEXICO MEX	192.168.162.100 192.168.119.29	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
170 172	sbaelish mabadi	2022-05-09 2022-05-08	16:43:18 08:06:50	USA US	192.168.65.113 192.168.180.41	0
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
187 189	arusso	2022-05-09	00:36:26	MEX CANADA	192.168.77.137	0
189	nmason jsoto	2022-05-08	05:37:24 05:09:21	USA	192.168.168.117 192.168.25.60	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 s	et (0.138	sec)				

Retrieve login attempts outside of Mexico

Ran the following query to view login attempts that occurred outside of Mexico (WHERE NOT country LIKE 'MEX%'):

SELECT * FROM log_in_attempts WHERE NOT country LIKE 'MEX%';

l)	MariaDB [organization]> SELECT * -> FROM log_in_attempts -> WHERE MOT country LIRE 'MEX*;									
ľ	event_id	username	login date	login_time	country	ip_address	++ success			
ı	1	jrafael	2022-05-09	04:56:27	CAN	192.168.243.140				
ł	2	apatel	2022-05-10	20:27:27	CAN	192.168.205.12				
ı	3	dkot	2022-05-09	06:47:41	USA	192.168.151.162	1			
ŀ	4 5	dkot jrafael	2022-05-08	02:00:39	USA CANADA	192.168.178.71 192.168.86.232	0			
ł	7	eraab	2022-05-11	01:45:14	CANADA	192.168.170.243	1 1			
ı	8	bisles	2022-05-08	01:30:17	US	192.168.119.173	j 0 j			
ı	10 11	jrafael sgilmore	2022-05-12	09:33:19 10:16:29	CANADA	192.168.228.221 192.168.140.81	0			
ł	12	dkot	2022-05-08	09:11:34	USA	192.168.100.158	1 1			
ı	13	mrah	2022-05-11	09:29:34	USA	192.168.246.135	1			
ŀ	14 15	sbaelish lyamamot	2022-05-10 2022-05-09	10:20:18 17:17:26	US USA	192.168.16.99 192.168.183.51	1 0			
ł	16	mcouliba	2022-05-11	06:44:22	CAN	192.168.172.189	1 1			
ı	17	pwashing	2022-05-11 2022-05-11	02:33:02	USA	192.168.81.89	1			
ŀ	18 19	pwashing jhill	2022-05-11	19:28:50 13:09:04	US	192.168.66.142 192.168.142.245	0			
ł	21	iuduike	2022-05-11	17:50:00	US	192.168.131.147	1			
ı	25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	1			
ŀ	26 29	apatel bisles	2022-05-08 2022-05-11	17:27:00 01:21:22	CANADA US	192.168.123.105 192.168.85.186	1 0			
ł	31	acook	2022-05-12	17:36:45	CANADA	192.168.58.232	0			
-	32 33	acook	2022-05-09	02:52:02	CANADA	192.168.142.239	0			
ı	33 34	zbernal drosas	2022-05-11	02:52:10	US	192.168.72.59 192.168.45.93	1 0			
ı	36	asundara	2022-05-08	09:00:42	US	192.168.78.151	1 0			
ı	37 38	eraab sbaelish	2022-05-10	06:03:41 14:40:01	CANADA	192.168.152.148 192.168.60.42				
ł	41	apatel	2022-05-10	17:39:42	CANADA	192.168.60.42	1 0			
ı	42	cgriffin	2022-05-09	23:04:05	US	192.168.4.157	0			
ı	43 44	mcouliba daquino	2022-05-08	02:35:34	CANADA	192.168.16.208 192.168.168.144	0			
ł	45	daquino	2022-05-08	10:28:54	US	192.168.168.144	1 1			
ı	46	eraab	2022-05-11	11:29:27	CAN	192.168.24.12	0			
ŀ	47 48	dkot asundara	2022-05-08	05:06:45	USA	192.168.233.24 192.168.72.10	1			
ı	49	asundara	2022-05-08	14:00:01	US	192.168.173.213	0			
-	50	jclark	2022-05-10	10:48:02	CANADA	192.168.174.117	0			
ŀ	51 52	jrafael cjackson	2022-05-10 2022-05-10	22:40:01 22:07:07	CANADA CAN	192.168.148.115 192.168.58.57	1 0			
ı	53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1			
ı	55	jlansky	2022-05-11	05:15:34	US	192.168.6.170	0			
ł	56 57	acook asundara	2022-05-08	04:56:30 21:13:02	US	192.168.209.130 192.168.211.201	1			
ı	58	ivelasco	2022-05-09	17:20:54	CAN	192.168.57.162	0			
ı	60 61	acook dtanaka	2022-05-11	21:46:00 09:45:18	CAN	192.168.54.45 192.168.98.221	1			
ŀ	64	apatel	2022-05-10	22:00:09	CANADA	192.168.172.71	1 1			
- 1	68	mrah	2022-05-08	17:16:13	US	192.168.42.248	1			
ŀ	69 71	wjaffrey mcouliba	2022-05-11	19:55:15 06:57:42	USA	192.168.100.17 192.168.55.169	0			
ł	72	alevitsk	2022-05-08	12:09:10	CANADA	192.168.139.176	1 1			
ı	73	zbernal	2022-05-10	17:46:45	USA	192.168.80.46	0			
١	74 75	nmason zbernal	2022-05-11	15:55:48 04:14:35	CAN US	192.168.162.2 192.168.188.63	1 1			
ı	76	bmoreno	2022-05-10	10:53:55	CAN	192.168.61.200	1 0			
-	77 80	wjaffrey cjackson	2022-05-12 2022-05-08	08:37:59 02:18:10	US CANADA	192.168.106.183 192.168.33.140	1 1			
١	83	lrodriqu	2022-05-08	02:18:10	USA	192.168.33.140				
ı	84	jrafael	2022-05-11	09:26:17	CAN	192.168.243.203	1 1			
1	86 87	dtanaka apatel	2022-05-10 2022-05-08	10:22:20 22:38:31	USA CANADA	192.168.197.135 192.168.132.153	1 0			
١	89	dkot	2022-05-12	10:52:00	USA	192.168.128.75	1 1			
ı	90	gesparza	2022-05-09	00:49:05	CANADA	192.168.87.201				
ı	91 92	jhill pwashing	2022-05-11	17:46:47 00:36:12	us us	192.168.172.74 192.168.247.219	1 0			
1	96	ivelasco	2022-05-09	22:36:36	CAN	192.168.84.194	0			
1	98 99	gesparza mcouliba	2022-05-11	06:30:14 11:54:14	CANADA CANADA	192.168.148.80 192.168.218.160	0			
ŀ	101	sbaelish	2022-05-12 2022-05-08	12:01:22	US	192.168.218.160	1 0			
ı	103	jhill	2022-05-11	09:10:54	US	192.168.60.153	0			
١	104 105	asundara cjackson	2022-05-11 2022-05-12	18:38:07 19:36:42	US CAN	192.168.96.200 192.168.247.153	0			
ł	105	bisles	2022-05-12	20:25:57	USA	192.168.116.187	i oil			
١	108	daquino	2022-05-09	21:30:48	CANADA	192.168.15.110	1			
ı	109 110	mcouliba mabadi	2022-05-10 2022-05-09	04:43:15 00:01:54	CANADA USA	192.168.39.246 192.168.90.124	1			
ı	113	gesparza	2022-05-10	00:40:00	CAN	192.168.64.133	į ōį			
- 1	115	ivelasco	2022-05-10	23:06:01	CAN	192.168.154.1	1			

117	bsand	2022-05-08	00:19:11	USA	192.168.197.187	0
121	btang	2022-05-10	22:00:36	US	192.168.80.143	1
123	bmoreno	2022-05-10	04:43:30	CANADA	192.168.98.2	1
124	asundara	2022-05-12	10:51:21	USA	192.168.136.29	1
125	bisles	2022-05-11	08:36:19	US	192.168.74.9	1 1
126 127	jrafael abellmas	2022-05-12 2022-05-09	18:47:52 21:20:51	CAN CANADA	192.168.22.16 192.168.70.122	0
127	iclark	2022-05-09	10:45:59	CANADA	192.168.70.122	0
129	drosas	2022-05-12	15:39:40	USA	192.168.152.200	ŏ
130	mrah	2022-05-11	02:54:21	USA	192.168.102.147	ŏ
131	bisles	2022-05-09	20:03:55	US	192.168.113.171	ŏ
133	asundara	2022-05-12	05:57:04	USA	192.168.6.9	1
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	0
136	mabadi	2022-05-10	06:56:44	US	192.168.214.234	1
137	jrafael	2022-05-12	02:42:37	CAN	192.168.186.176	1
139	apatel	2022-05-11	01:54:36	CAN	192.168.95.222	0
140	btang	2022-05-10	13:17:29	US	192.168.249.111	0
141	btang	2022-05-12	10:12:03	USA	192.168.82.139	0
142 143	gesparza jhill	2022-05-11 2022-05-11	06:31:14	USA	192.168.117.56 192.168.189.19	1 0
144	daguino	2022-05-11	11:09:32	CANADA	192.168.139.9	0
145	ivelasco	2022-05-08	09:06:02	CANADA	192.168.39.196	1
146	nmason	2022-05-10	02:25:55	CANADA	192.168.37.147	ō
148	daquino	2022-05-08	06:15:55	CANADA	192.168.135.6	i
149	jlansky	2022-05-11	01:07:11	USA	192.168.238.42	0
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
152	mabadi	2022-05-12	10:24:43	USA	192.168.96.244	0
154	jlansky	2022-05-12	10:57:35	US	192.168.23.63	1
155	cgriffin	2022-05-12	22:18:42	USA	192.168.236.176	0
156	btang iuduike	2022-05-11	17:08:51	USA	192.168.243.95	0
159 160	jclark	2022-05-12 2022-05-10	16:59:50 20:49:00	CANADA	192.168.220.115	0
161	abellmas	2022-05-10	13:25:50	CANADA	192.168.214.49	0
164	jclark	2022-05-12	21:15:52	CAN	192.168.18.34	1
167	jclark	2022-05-12	15:47:45	CAN	192.168.146.51	î
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
171	drosas	2022-05-10	16:32:55	USA	192.168.92.218	0
172	mabadi	2022-05-08	08:06:50	US	192.168.180.41	1
173	asundara	2022-05-12	23:17:52	US	192.168.58.217	1
174	lyamamot	2022-05-10	12:26:27	US	192.168.228.122	0
175	jhill	2022-05-10	00:17:09	USA	192.168.130.218	0
177 178	wjaffrey sgilmore	2022-05-11	00:15:55	USA	192.168.144.165 192.168.52.216	0
178	jclark	2022-05-12	04:08:17	CAN	192.168.232.93	0
181	abellmas	2022-05-10	13:37:05	CAN	192.168.60.111	ŏ
182	lyamamot	2022-05-10	06:01:31	USA	192.168.106.52	ŏ
183	nmason	2022-05-11	05:29:36	CANADA	192.168.137.147	ō
184	alevitsk	2022-05-08	03:09:48	CAN	192.168.33.70	0
185	jsoto	2022-05-10	13:34:58	USA	192.168.151.91	0
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
190 191	jsoto cjackson	2022-05-09	05:09:21	USA	192.168.25.60	0
191	cjackson bisles	2022-05-08 2022-05-10	06:46:07 08:32:03	USA	192.168.7.187 192.168.201.40	1
192	lrodriqu	2022-05-08	07:11:29	USA	192.168.125.240	0
194	jclark	2022-05-12	14:11:04	CAN	192.168.123.240	0
195	alevitsk	2022-05-11	06:59:13	CANADA	192.168.236.78	1
196	acook	2022-05-10	09:56:48	CAN	192.168.52.90	ō
197	jsoto	2022-05-08	09:05:09	US	192.168.36.21	ō
200	jclark	2022-05-12	01:11:45	CANADA	192.168.91.103	1
+	+	+	+	+	+	+
144 rows in	/A AA1	606)				

Retrieve employees in Marketing

Ran the following query to identify employees in the Marketing department (department = 'Marketing') who work in the East office (office LIKE 'East%').

SELECT *

FROM employees

WHERE department = 'Marketing' AND office LIKE 'East%';

-> FROM emp	zation]> SELECT ployees partment = 'Mar		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	Marketing	East-157	
1103	NULL	randerss	Marketing	East-460	
1156	a184b775c707	dellery	Marketing	East-417	
1163	h679i515j339	cwilliam	Marketing	East-216	

Retrieve employees in Finance or Sales

Ran the following query to identify employees that are either in the Finance or Sales departments (WHERE department = 'Finance' OR department = 'Sales').

SELECT *

FROM employees

WHERE department = 'Finance' OR department = 'Sales';



Retrieve all employees not in IT

Ran the following query to view all employees not in the IT department (WHERE NOT department = 'Information Technology').

SELECT *

FROM employees

WHERE NOT department = 'Information Technology';

FROM emp					1089 1091	1358m929n154 n378o313p469	jpark2 rtran	Sales Sales	West-251 Central-2
> WHERE NO	T department =	'Informatio	on Technology';		1092	o391p779a935	lpark	Sales	West-227
Loyee_id	device_id	username	department	office	1093	p765q957r699 t363u179v368	etargary jlee	Human Resources	Central-24
					1098	u671v146w618	tarchamb	Sales	North-423
1000	a320b137c219	elarson	Marketing	East-170	1099	v283w690x104	anaser	Finance	West-357
1001	b239c825d303	bmoreno	Marketing	Central-276 North-434	1100	w326x611y598 x701y250z303	mjin ichowdhu	Human Resources	Central-37 East-233
1002 1003	c116d593e558 d394e816f943	tshah sgilmore	Human Resources Finance	North-434 South-153	1102	y943z930a241	kselassi	Marketing	South-378
1003	e218f877g788	eraab	Human Resources	South-133	1103	NULL b551c837d758	randerss kmei	Marketing Finance	East-460 Central-23
1005	f551g340h864	gesparza	Human Resources	South-366	1105	c597d792e215	jcohen	Marketing	South-395
1007	h174i497j413	wjaffrey	Finance	North-406	1107	d168e758f876	akajwara	Sales	North-471
1008	i858j583k571	abernard	Finance	South-170	1108	e113f288g203 f229g533h679	jwashing nlocklea	Human Resources Sales	North-226 East-196
1009	NULL	lrodriqu	Sales	South-134	1110	q567h376i314	pchaudhu	Sales	Central-428
1010	k2421212m542	jlansky	Finance	South-109	1111	h835i179j862	jlee	Sales	West-309
1011 1015	1748m120n401 p611q262r945	drosas jsoto	Sales Finance	South-292 North-271	1113 1114	j781k4201510 NULL	pjaimes xgreene	Human Resources Marketing	East-366 North-335
1015	q793r736s288	jsoto sbaelish	Human Resources	North-271	1116	m272n572o874	nzhao	Sales	South-100
1017	r550s824t230	jclark	Finance	North-188	1117	n683o758p820	dahmad	Sales	West-405
1018	s310t540u653	abellmas	Finance	North-403	1118 1119	o305p208q337 p164q780r999	jpark3 omubarak	Sales Sales	South-329 West-409
1020	u899v381w363	arutley	Marketing	South-351	1120	q912r119s313	rbradsha	Marketing	Central-200
1022	w237x430y567	arusso	Finance	West-465	1121	r628s557t397	mrojas	Sales	East-288
1024	y976z753a267	iuduike	Sales	South-215	1122 1123	s103t952u851 t479u468v151	btorres ekonya	Finance Human Resources	West-319 South-445
1025	z381a365b233	jhill	Sales	North-115	1124	u340v931w764	claw	Human Resources	Central-172
1026 1027	a998b568c863 b806c503d354	apatel mrah	Human Resources Marketing	West-320 West-246	1125	v491w553x421	mrodgers	Marketing	South-490
1027	c603d749e374	mran aestrada	Human Resources	West-121	1128 1129	y103z561a649 z566a147b347	mpirato plopez	Human Resources	West-205 West-326
1028	d336e475f676	ivelasco	Finance	East-156	1130	a317b635c465	tsnow	Sales	Central-451
1030	e391f189g913	mabadi	Marketing	West-375	1132	c150d982e144 d693e351f221	creddy	Human Resources	Central-210 Central-164
1031	f419g188h578	dkot	Marketing	West-408	1133	e395f616g566	pfrey akhatri	Marketing Human Resources	West-159
1034	i679j565k940	bsand	Human Resources	East-484	1136	g299h520i457	jhawes	Finance	West-416
1035	j236k3031245	bisles	Sales	South-171	1137 1138	h165i539j638 i671j355k725	mwood sromero	Human Resources	South-166 South-329
1036	k5501533m205 m873n636o225	rjensen	Marketing Human Resources	Central-239 Central-260	1138	i637k9861199	emorton	Human Resources	North-300
1038	n253o917p623	btang cjackson	Sales	East-378	1140	k9821199m839	apatel2	Human Resources	East-385
1040	o783p832q294	dtarly	Human Resources	East-237	1141 1142	1282m821n717 m674n127o823	cochuba lsilva	Human Resources	South-282 East-440
1041	p929q222r778	cgriffin	Sales	North-208	1144	NULL	erobinso	Finance	Central-266
1042	q175r338s833	acook	Human Resources	West-381	1145	p752q137r169	msosa	Human Resources	South-345
1044	s429t157u159	tbarnes	Finance	West-415	1146 1147	q228r135s755 r454s225t299	ulemere tvega	Human Resources	Central-171 West-177
1045	t567u844v434	pwashing	Finance	East-115 West-280	1148	s328t505u907	dharvey	Finance	South-181
1046	u429v921w138 v109w587x644	daquino cward	Finance Finance	West-280	1150	u554v512w139	lmarin	Marketing	Central-364
1048	w167x592y375	tmitchel	Finance	South-288	1151 1152	v852w513x954 NULL	sshah nwilliam	Human Resources Marketing	North-272 Central-170
1049	NULL	jreckley	Finance	Central-295	1153	x677y330z296 y765z123a548	ncardena	Marketing	Central-363
1050	y132z930a114	csimmons	Finance	North-468	1154 1155	y765z123a548 z942a966b589	obryand zjones	Marketing Human Resources	North-182 East-122
1051	z451a308b518	itraora	Marketing	Central-134	1156	a184b775c707	dellery	Marketing	East-122
1052	a192b174c940	jdarosa	Marketing	East-195	1157	b264c773d977	lstein	Human Resources	Central-343
1053 1055	b979c871d361	nemmanue awilliam	Human Resources	Central-259	1158 1159	c406d877e950 d881e710f732	bnaser jshen	Human Resources Finance	Central-243 East-193
1055	d831e972f553 e782f537g683	awilliam	Marketing Marketing	Central-256 North-139	1160	e127f591g924	spham	Marketing	West-353
1056	f370g535h632	mscott	Sales	South-270	1163	h679i515j339	cwilliam	Marketing	East-216
1058	g264h852i697	madebowa	Marketing	South-119	1164 1165	i682j513k442 j713k8931832	fsmeltz nwords	Finance Marketing	North-163 South-128
1059	h832i322j795	jnguyen	Marketing	South-255	1166	k4951234m708	nyoung	Marketing	Central-397
1061	j255k2811925	nhersh	Human Resources	East-163	1167	1738m922n515 NULL	tblackwe mmitchel	Marketing Sales	North-443
1062	k3671639m697	redwards	Finance	North-180	1169 1170	NULL o156p302q359	lalvarez	Sales Human Resources	Central-250 North-278
1063 1064	1686m140n569 NULL	lpope ejones	Sales Marketing	East-226 South-477	1172	q372r826s628	akhan	Marketing	Central-360
1064	n428o322p522	imoore	Human Resources	West-490	1173 1174	r537s849t690 s371t911u987	ialcazar eortiz	Marketing Finance	South-429 North-428
1066	o678p794q957	ttyrell	Sales	Central-444	1175	t959u687v394	jclark2	Finance	North-194
1067	p288q432r721	lwhite	Marketing	North-277	1176	u849v569w521	nliu	Sales	West-220
1069	NULL	jpark	Finance	East-110	1177 1178	v691w183x928 w986x187y885	aezra nlannist	Human Resources Marketing	East-190 North-196
1070	s772t175u409	tbailey	Human Resources	North-204	1179	x174y934z376	asalas	Human Resources	North-445
1071	t244u829v723	zdutchma	Sales	West-348	1180	y131z211a578	medwards	Human Resources	Central-340
1072	u905v920w694 v135w241x773	esmith srobinso	Sales	East-421 Central-494	1181	z803a233b718 b566c710d544	sessa lquraish	Finance Human Resources	South-207
1073 1075	v135w241x773 x573y883z772	fbautist	Marketing Marketing	Central-494 East-267	1184	c986d200e170	ptsosie	Human Resources	Central-247
1075	y347z204a710	fgarcia	Finance	Central-270	1185	d790e839f461	revens	Sales	North-330
1077	z654a154b259	ldavis	Human Resources	East-241	1186 1187	e281f433g404 f963g637h851	sacosta bbode	Sales Finance	North-460 East-351
1078	a667b270c984	sharley	Sales	North-418	1188	g164h566i795	noshiro	Finance	West-252
1079	b433c245d868	gmedina	Marketing	North-456	1189	h784i120j837	slefkowi	Human Resources	West-342
1080	c568d742e974	gmoon	Marketing	North-156	1190 1191	NULL NULL	kcarter	Marketing Marketing	Central-270 Central-366
1081	d647e310f618	qcorbit	Finance	South-290	1194	m340n287o441	zwarren	Human Resources	West-212
1083	f840g812h544	gkoshi	Finance	West-165	1195	n516o853p957	orainier	Finance	East-346
1084 1085	g950h972i991 h339i498j269	nhuynh cperez	Human Resources	South-155 East-325	1198 1199	q308r573s459 r520s571t459	jmartine areyes	Marketing Human Resources	South-117 East-100
					+				100
1086	i281j129k749	lmajumda	Sales	West-499	161 rows in set				

Summary

Through a series of SQL queries involving filters and conditional statements, we reviewed failed login attempts that occurred after hours, on specific dates, and outside of a specific

country. Within the employees table, we retrieved a list of those who work in Marketing and are located in a specific building, those who work in Finance OR Sales, and those NOT in the IT department. Everything was accomplished by stringing together filters on the WHERE line of the query, using LIKE to find matches to the provided search term, and occasionally using the '%' wildcard sign to expand our returned results.