# Apply filters to SQL queries

### Project description

My organization has tasked me with filtering out databases to investigate potential security issues and to update computers. In the following project, I used Structured Query Language (SQL) to filter out and query a database for various security-related tasks.

#### Retrieve after-hours failed login attempts

A potential security-related issue occurred after business hours, 6 pm. Many failed login attempts occurred following 6 pm. First, I selected all the data columns I wanted to view using the code SELECT \*. Then I used the code FROM log\_in\_attempts to select the relevant table. Finally, I used the code WHERE login\_time > '18:00' AND success = FALSE to specify all the data after 6 pm that resulted in a failed login attempt (0).

ariaDB [organization]> SELECT * -> FROM log_in_attempts -> WHERE login_time > '18:00' AND success = FALSE;									
username	login_date	login_time	country	ip_address	success				
apatel	2022-05-10	20:27:27	CAN	192.168.205.12	0				
pwashing	2022-05-11	19:28:50	US	192.168.66.142	0 1				
tshah	2022-05-12	18:56:36	MEXICO	192.168.109.50	0 1				
aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0				
drosas	2022-05-11	21:02:04	US	192.168.45.93	0				
cgriffin	2022-05-09	23:04:05	US	192.168.4.157	0				
cjackson	2022-05-10	22:07:07	CAN	192.168.58.57	0				
wjaffrey	2022-05-11	19:55:15	USA	192.168.100.17	0				
abernard	2022-05-12	23:38:46	MEX	192.168.234.49	0				
apatel	2022-05-08	22:38:31	CANADA	192.168.132.153	0				
ivelasco	2022-05-09	22:36:36	CAN	192.168.84.194	0				
asundara	2022-05-11	18:38:07	US	192.168.96.200	0 1				
bisles	2022-05-12	20:25:57	USA	192.168.116.187	0 1				
aestrada	2022-05-10	22:00:26	MEXICO	192.168.76.27	0				
abellmas	2022-05-09	21:20:51	CANADA	192.168.70.122	0				
bisles	2022-05-09	20:03:55	US	192.168.113.171	0				
cgriffin	2022-05-12	22:18:42	USA	192.168.236.176	0				
jclark	2022-05-10	20:49:00	CANADA	192.168.214.49	0				
yappiah	2022-05-11	19:34:48	MEXICO	192.168.44.232	0				
	log in atte login_time username	log in attempts login_time > '18:00' AN	log in_attempts login_time > '18:00' AND success = :	log in_attempts login_time > '18:00' AND success = FALSE;	login_time > '18:00' AND success = FALSE;				

#### Retrieve login attempts on specific dates

A suspicious event happened on May 9th, 2022. I'm tasked with retrieving all the login attempts that occurred on May 9th, 2022, and May 8th, 2022. First, I selected all the data columns I wanted to view using the code SELECT \*. Then I used the code FROM log\_in\_attempts

to select the relevant table. Finally, I used the code WHERE login\_date = '2022-05-09' or login\_date = '2022-05-08' to retrieve data in that specified time frame.

					•	
MariaDB [org	_					
	log_in_atte	-				
-> WHERE	E login_date	= '2022-05-	09' OR login_o	date = '202	22-05-08';	
+	+	+	+	+		++
event_id	username	login_date	login_time	country	ip_address	success
+		+	+	+		++
1		2022-05-09		CAN	192.168.243.140	
] 3	dkot	2022-05-09	06:47:41	USA	192.168.151.162	1 1
4	dkot	. 2022 00 00	02:00:39	USA	192.168.178.71	0
8	bisles	2022-05-08	01:30:17	US	192.168.119.173	0
12	dkot	2022-05-08	09:11:34	USA	192.168.100.158	1 1
15	lyamamot	2022-05-09	17:17:26	USA	192.168.183.51	0 1
24	arusso	2022-05-09	06:49:39	MEXICO	192.168.171.192	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 1
28	aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0
30	yappiah	2022-05-09	03:22:22	MEX	192.168.124.48	1 1
32	acook	2022-05-09	02:52:02	CANADA	192.168.142.239	0
36	asundara	2022-05-08	09:00:42	US	192.168.78.151	1 1
I 38	sbaelish	2022-05-09	14:40:01	USA	192.168.60.42	1 1
39	yappiah	2022-05-09	07:56:40	MEXICO	192.168.57.115	1 1
42	cgriffin	2022-05-09	23:04:05	US	192.168.4.157	0 1
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
47	dkot	2022-05-08	05:06:45	US	192.168.233.24	1 1
49	asundara	2022-05-08	14:00:01	US	192.168.173.213	0
53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1 1
56	acook	2022-05-08	04:56:30	CAN	192.168.209.130	1 1
58	ivelasco	2022-05-09	17:20:54	CAN	192.168.57.162	0 1
61	dtanaka	2022-05-09	09:45:18	USA	192.168.98.221	1 1
65	aalonso	2022-05-09	23:42:12	MEX	192.168.52.37	1 1
66	aestrada	2022-05-08	21:58:32	MEX	192.168.67.223	1 1
67	abernard	2022-05-09	11:53:41	MEX	192.168.118.29	1 1
l 68	mrah	2022-05-08	17:16:13	US	192.168.42.248	1 1
70	tmitchel	2022-05-09	10:55:17	MEXICO	192.168.87.199	1 1
71	mcouliba	2022-05-09	06:57:42	CAN	192.168.55.169	0 1
72	alevitsk		12:09:10	CANADA	192.168.139.176	1 1
79	abernard	2022-05-09	11:41:15	MEX	192.168.158.170	
						-

80   cjackson	2022-05-08   02:18:10	CANADA   192.168.33.140	1						
83   lrodriqu		USA   192.168.67.69	1						
87   apatel	2022-05-08   22:38:31	CANADA   192.168.132.153	0						
90   qesparza	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   ivelasco	2022-05-09   22:36:36	CAN   192.168.84.194	0						
97   jreckley	2022-05-09   02:49:23	MEXICO   192.168.32.231	1						
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   192.168.90.124	1						
112   rjensen	2022-05-09   09:22:05	MEX   192.168.69.116	1						
117   bsand	2022-05-08   00:19:11	USA   192.168.197.187	0						
120   tmitchel	2022-05-09   02:58:17	MEXICO   192.168.134.62	0						
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	2022-05-09   20:03:55	US   192.168.113.171	0						
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						
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	2022-05-08   06:04:34	MEX   192.168.65.245	0						
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		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		MEX   192.168.119.29	0						
165   jreckley		MEXICO   192.168.34.193	0						
168   jlansky	2022-05-08   13:25:42	USA   192.168.210.94	1						
169   alevitsk		CANADA   192.168.210.228	0						
170   sbaelish		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		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	0						
189   nmason	2022-05-08   05:37:24	CANADA   192.168.168.117	1   0						
190   jsoto	2022-05-09   05:09:21	USA							
191   cjackson		CANADA   192.168.7.187     US   192.168.125.240	0   0						
193   lrodriqu	2022-05-08   07:11:29   2022-05-08   09:05:09		0						
197   jsoto	-+	US	+						
75 rows in set (0.089 sec)									

# Retrieve login attempts outside of Mexico

I'm tasked with retrieving login data that did not originate from Mexico. First, I selected all the data columns I wanted to view using the code SELECT \*. Then I used the code FROM log\_in\_attempts to select the relevant table. Finally, I used the code WHERE NOT country LIKE 'MEX%' to filter out Mexico. The table contained both entries, such as 'MEX' and 'MEXICO', which meant I had to pair the LIKE operator with 'MEX%' to successfully filter out Mexico.

-> FROM	ganization]: log_in_atte E NOT count:		<b>'</b> ;			
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
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
4	dkot	2022-05-08	02:00:39	USA	192.168.178.71	0
5	jrafael	2022-05-11	03:05:59	CANADA	192.168.86.232	0
7	eraab	2022-05-11	01:45:14	CAN	192.168.170.243	1
8	bisles	2022-05-08	01:30:17	US	192.168.119.173	0
10	jrafael	2022-05-12	09:33:19	CANADA	192.168.228.221	0
11	sgilmore	2022-05-11	10:16:29	CANADA	192.168.140.81	0
12	dkot	2022-05-08	09:11:34	USA	192.168.100.158	1
13	mrah	2022-05-11	09:29:34	USA	192.168.246.135	1
14	sbaelish	2022-05-10	10:20:18	US	192.168.16.99	1
15	lyamamot	2022-05-09	17:17:26	USA	192.168.183.51	0
16	mcouliba	2022-05-11	06:44:22	CAN	192.168.172.189	1
17	pwashing	2022-05-11	02:33:02	USA	192.168.81.89	1
18	pwashing	2022-05-11	19:28:50	US	192.168.66.142	0
19	jhill	2022-05-12	13:09:04	US	192.168.142.245	1
21	iuduike	2022-05-11	17:50:00	US	192.168.131.147	1
25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	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
33	zbernal	2022-05-11	02:52:10	US	192.168.72.59	1
34	drosas	2022-05-11	21:02:04	US	192.168.45.93	0
36	asundara	2022-05-08	09:00:42	US	192.168.78.151	1
37	eraab	2022-05-10	06:03:41	CANADA	192.168.152.148	0
38	sbaelish	2022-05-09	14:40:01	USA	192.168.60.42	1
41	apatel	2022-05-10	17:39:42	CANADA	192.168.46.207	0
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	0
44	daquino	2022-05-08	07:02:35	CANADA	192.168.168.144	0
45	dtanaka	2022-05-11	10:28:54	US	192.168.223.157	1
46	eraab	2022-05-11	11:29:27	CAN	192.168.24.12	0
47	dkot	2022-05-08	05:06:45	US	192.168.233.24	1
48	asundara	2022-05-11	03:18:45	USA	192.168.72.10	1
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	1 0

51	jrafael	2022-05-10	22:40:01	CANADA	192.168.148.115	1
52	cjackson	2022-05-10	22:07:07	CAN	192.168.58.57	0
53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1
55	jlansky	2022-05-11	05:15:34	US	192.168.6.170	0
56	acook	2022-05-08	04:56:30	CAN	192.168.209.130	1
57	asundara	2022-05-12	21:13:02	US	192.168.211.201	1
58	ivelasco	2022-05-09	17:20:54	CAN	192.168.57.162	0
60	acook	2022-05-11	21:46:00	CAN	192.168.54.45	1
61	dtanaka	2022-05-09	09:45:18	USA	192.168.98.221	1
64	apatel	2022-05-10	22:00:09	CANADA	192.168.172.71	1
68	mrah	2022-05-08	17:16:13	US	192.168.42.248	1
69	wjaffrey	2022-05-11	19:55:15	USA	192.168.100.17	0
71	mcouliba	2022-05-09	06:57:42	CAN	192.168.55.169	0
72	alevitsk	2022-05-08	12:09:10	CANADA	192.168.139.176	1
73	zbernal	2022-05-10	17:46:45	USA	192.168.80.46	0
74	nmason	2022-05-11	15:55:48	CAN	192.168.162.2	1
75	zbernal	2022-05-12	04:14:35	US	192.168.188.63	1
76	bmoreno	2022-05-10	10:53:55	CAN	192.168.61.200	0
77	wjaffrey	2022-05-12	08:37:59	US	192.168.106.183	1
80	cjackson	2022-05-08	02:18:10	CANADA	192.168.33.140	1
83	lrodriqu	2022-05-08	08:10:23	USA	192.168.67.69	1
84	jrafael	2022-05-11	09:26:17	CAN	192.168.243.203	1
86	dtanaka	2022-05-10	10:22:20	USA	192.168.197.135	1
87	apatel	2022-05-08	22:38:31	CANADA	192.168.132.153	0
89	dkot	2022-05-12	10:52:00	USA	192.168.128.75	1
90	gesparza	2022-05-09	00:49:05	CANADA	192.168.87.201	0
91	jhill	2022-05-11	17:46:47	US	192.168.172.74	1
92	pwashing	2022-05-08	00:36:12	US	192.168.247.219	0
96	ivelasco	2022-05-09	22:36:36	CAN	192.168.84.194	0
98	gesparza	2022-05-11	06:30:14	CANADA	192.168.148.80	0
99	mcouliba	2022-05-12	11:54:14	CANADA	192.168.218.160	1
101	sbaelish	2022-05-08	12:01:22	US	192.168.145.158	0
103	jhill	2022-05-11	09:10:54	US	192.168.60.153	0
104	asundara	2022-05-11	18:38:07	US	192.168.96.200	0
105	cjackson	2022-05-12	19:36:42	CAN	192.168.247.153	1
107	bisles	2022-05-12	20:25:57	USA	192.168.116.187	0
108	daquino	2022-05-09	21:30:48	CANADA	192.168.15.110	1
109	mcouliba	2022-05-10	04:43:15	CANADA	192.168.39.246	1
110	mabadi	2022-05-09	00:01:54	USA	192.168.90.124	1
113	gesparza	2022-05-10	00:40:00	CAN	192.168.64.133	0
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	a guada va	2022-05-12	10.51.21	IIGA	192 160 126 29	1	
	asundara		08:36:19	USA	192.168.136.29	1	
	bisles	2022-05-11   2022-05-12		US	192.168.74.9	1   1	
	jrafael   abellmas	2022-05-12   2022-05-09	18:47:52   21:20:51	CAN CANADA	192.168.22.16	1	
	jclark	2022-05-09	10:45:59	CANADA	192.168.70.122   192.168.122.169	0	
	drosas	2022-05-12	15:39:40	USA	192.168.152.200		
	mrah	2022-05-12	02:54:21	USA	192.168.102.147	0	
	bisles	2022-05-09		US	192.168.113.171	0	
	asundara	2022-05-12	05:57:04	USA	192.168.6.9	1	
	iuduike	2022-05-09		USA	192.168.22.115	1 1	
	bsand	2022-05-09	14:06:33	US	192.168.91.238		¦ .
	mabadi	2022-05-10	06:56:44	US	192.168.214.234	1	
137		2022-05-12	02:42:37	CAN	192.168.186.176	1 1	
	apatel	2022-05-11	01:54:36	CAN	192.168.95.222		i
	btang	2022-05-10	13:17:29	US	192.168.249.111		i
	btang	2022-05-12	10:12:03	USA	192.168.82.139		i
	qesparza	2022-05-11	06:31:14	CANADA	192.168.117.56	1	
	jhill	2022-05-11	00:30:22	USA	192.168.189.19		i
	daquino	2022-05-09	11:09:32	CANADA	192.168.139.9		i
	ivelasco	2022-05-08	09:06:02	CANADA	192.168.39.196	1	
	nmason	2022-05-10		CANADA	192.168.37.147	. 0	
148		2022-05-08	06:15:55	CANADA	192.168.135.6	1	
	jlansky	2022-05-11	01:07:11	USA	192.168.238.42		i
	nmason	2022-05-08	14:40:02	CAN	192.168.204.124	. 0	
151		2022-05-09		USA	192.168.30.225	1 1	
152		2022-05-12	10:24:43	USA	192.168.96.244		i
154		2022-05-12	10:57:35	US	192.168.23.63	1	
	cgriffin	2022-05-12	22:18:42	USA	192.168.236.176		i
	btang	2022-05-11	17:08:51	USA	192.168.243.95		i
	iuduike	2022-05-12	16:59:50	USA	192.168.220.115		i
	jclark	2022-05-10	20:49:00	CANADA	192.168.214.49		i
	abellmas	2022-05-09	13:25:50	CAN	192.168.180.205		i
	jclark	2022-05-12	21:15:52	CAN	192.168.18.34	1	
	jclark	2022-05-12		CAN	192.168.146.51	1	
	jlansky	2022-05-08	13:25:42	USA	192.168.210.94	1	
169		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	i
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	1
174	lyamamot	2022-05-10	12:26:27	US	192.168.228.122	0	İ
175	jhill	2022-05-10	00:17:09	USA	192.168.130.218	0	1
177	wjaffrey	2022-05-11	00:15:55	USA	192.168.144.165	0	1
	sgilmore	2022-05-08	12:27:22	CAN	192.168.52.216	0	1
179	jclark	2022-05-12	04:08:17	CAN	192.168.232.93	0	
181		2022-05-10	13:37:05	CAN	192.168.60.111	0	
		2022-05-10		USA	192.168.106.52	Ö	
		2022-05-11	05:29:36	CANADA	192.168.137.147	0	
184	alevitsk		03:09:48	CAN	192.168.33.70	0	
185	jsoto	2022-05-10	13:34:58	USA	192.168.151.91	0	
	bisles	2022-05-09	04:29:17	USA	192.168.40.72		i
188	jsoto	2022-05-11	00:39:09	USA	192.168.21.88		i
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	ĺ
	cjackson	2022-05-08	06:46:07	CANADA	192.168.7.187		ĺ
192	bisles	2022-05-10	08:32:03	USA	192.168.201.40	1	I
193	lrodriqu	2022-05-08	07:11:29	US	192.168.125.240	0	I
		2022-05-12	14:11:04	CAN	192.168.197.247		I
	alevitsk		06:59:13	CANADA	192.168.236.78	1	
196		2022-05-10	09:56:48	CAN	192.168.52.90	0	
	jsoto	2022-05-08	09:05:09	US	192.168.36.21		l
200	jclark	2022-05-12	01:11:45	CANADA	192.168.91.103	1	
144	+	+			·		+
144 rows in	set (0.016	sec)					

#### Retrieve employees in Marketing

I'm tasked with retrieving all the data for the Marketing department for offices located in the East building. First, I selected all the data columns I wanted to view using the code SELECT \*. Then I used the code FROM employees to select the relevant table. Finally, I used the code WHERE department = 'Marketing' AND office LIKE 'East%' to specify the marketing department and all offices located in the East building.

```
MariaDB [organization]> SELECT *
    -> FROM employees
    -> WHERE department = 'Marketing' AND office LIKE 'East%';
 employee id | device id
                                          department |
         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
 rows in set (0.022 sec)
```

#### Retrieve employees in Finance or Sales

I'm tasked with retrieving data on employees who are a part of the finance or sales department. First, I selected all the data columns I wanted to view using the code SELECT \*. Then I used the code FROM employees to select the relevant table. Finally, I used the code WHERE department = 'Finance' OR department = 'Sales' to specify the relevant data.

```
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 | j236k303l245 | bisles | Sales
                                                 | South-171
        1039 | n253o917p623 | cjackson | Sales
                                                 | East-378
        1041 | p929q222r778 | cgriffin | Sales
                                                 | North-208
        1044 | s429t157u159 | tbarnes | Finance
                                                 | West-415
        1045 | t567u844v434 | pwashing | Finance
                                                 | East-115
        1046 | u429v921w138 | daquino | Finance
                                                 | West-280
        1047 | v109w587x644 | cward
                                     | Finance
                                                 | West-373
        1048 | w167x592y375 | tmitchel | Finance
                                                 | South-288
                           | jreckley | Finance
        1049 | NULL
                                                 | Central-295 |
```

```
1050 | y132z930a114 | csimmons | Finance
                                           North-468
1057 | f370g535h632 | mscott
                              | Sales
                                           | South-270
1062 | k3671639m697
                     redwards |
                                Finance
                                             North-180
1063 | 1686m140n569
                     lpope
                                Sales
                                             East-226
1066 | o678p794q957 |
                     ttyrell
                              Sales
                                             Central-444
1069 | NULL
                     jpark
                              Finance
                                             East-110
1071 | t244u829v723
                     zdutchma | Sales
                                             West-348
1072 | u905v920w694 | esmith
                              I 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
1085 | h339i498j269 | cperez
                              | Sales
                                             East-325
1086 | i281j129k749 | lmajumda | Sales
                                             West-499
1089 | 1358m929n154 | jpark2
                                             West-251
                              Sales
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 | f229g533h679 | nlocklea | Sales
                                             East-196
1110 | g567h376i314 | pchaudhu | Sales
                                           | Central-428
1111 | h835i179j862 | jlee
                              | Sales
                                           | West-309
1116 | m272n572o874 | nzhao
                                           | South-100
                              | Sales
1117 | n683o758p820 | dahmad
                                             West-405
                              Sales
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
                                             South-329
                     sromero
                              | Finance
1142 | m674n127o823 | lsilva
                              | Finance
                                             East-440
                                             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
                                                 | North-194
                                   | Finance
 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 | n516o853p957 | orainier
                                  Finance
```

East-346

71 rows in set (0.001 sec)

### Retrieve all employees not in IT

I'm tasked with retrieving employee data that is not part of the Information Technology department (IT). First, I selected all the data columns I wanted to view using the code SELECT

\*. Then I used the code FROM employees to select the relevant table. Finally, I used the code

WHERE NOT department = 'Information Technology' to exclude the IT department from the data.

<pre>MariaDB [organization]&gt; SELECT *     -&gt; FROM employees     -&gt; WHERE NOT department = 'Information Technology'; +</pre>								
employee_id   dev	ice_id   use	rname   dep	artment	office	ļ			
1000   a32	0b137c219   ela	rson   Mar	keting	East-170	i			
1001   b23	9c825d303   bmo	reno   Mar	keting	Central-276	I			
1002   c11	6d593e558   tsh	ah   Hum	an Resources	North-434	I			
1003   d39	4e816f943   sgi	lmore   Fin	ance	South-153	L			
1004   e21	8f877g788   era	ab   Hum	an Resources	South-127	L			
1005   f55	1g340h864   ges	parza   Hum	an Resources	South-366	1			
1007   h17	4i497j413   wja	ffrey   Fin	ance	North-406	I			
1008   i85	8j583k571   abe	rnard   Fin	ance	South-170	I			
1009   NUL	L   lro	driqu   Sal	es	South-134	I			
1010   k24	21212m542   jla	nsk <b>y</b>   Fin	ance	South-109	I			
1011   174	8m120n401   dro	sas   Sal	es	South-292	L			
1015   p61	1q262r945   jso	to   Fin	ance	North-271	П			
1016   q79	3r736s288   sba	elish   Hum	an Resources	North-229	L			
1017   r55	0s824t230   jcl	ark   Fin	ance	North-188	L			
1018   s31	0t540u653   abe	llmas   Fin	ance	North-403	L			
1020   u89	9v381w363   aru	tley   Mar	keting	South-351	L			
1022   w23	7x430y567   aru	sso   Fin	ance	West-465	I			
1024   y97	6z753a267   iud	uike   Sal	es	South-215	L			
1025   z38	1a365b233   jhi	ll   Sal	es	North-115	L			
1026   a99	8b568c863   apa	tel   Hum	an Resources	West-320	L			
1027   b80	6c503d354   mra	h   Mar	keting	West-246	L			
1028   c60	3d749e374   aes	trada   Hum	an Resources	West-121	L			
1029   d33	6e475f676   ive	lasco   Fin	ance	East-156	L			
1030   e39	1f189g913   mab	adi   Mar	keting	West-375	I			
1031   f41	9g188h578   dko	t   Mar	keting	West-408	I			
1034   i67	9j565k940   bsa	nd   Hum	an Resources	East-484	I			
1035   j23	6k3031245   bis	les   Sal	es	South-171	I			
1036   k55	01533m205   rje	nsen   Mar	keting	Central-239	I			
1038   m87	3n636o225   bta	ng   Hum	an Resources	Central-260	I			
1039   n25	3o917p623   cja	ckson   Sal	es	East-378	I			
1040   o78	3p832q294   dta	rly   Hum	an Resources	East-237	I			
1041   p92	9q222r778   cgr	iffin   Sal	es	North-208	1			
1042   q17	5r338s833   aco	ok   Hum	an Resources	West-381	I			
1044   s42	9t157u159   tba	rnes   Fin	ance	West-415	I			
1045   t56	7u844v434   pwa	shing   Fin	ance	East-115	1			

```
1046 | u429v921w138 | daquino | Finance
1047 | v109w587x644 | cward | Finance
                                                | West-373
1048 | w167x592y375 | tmitchel | Finance
                                                 | South-288
                                               | Central-295
1049 | NULL | jreckley | Finance
                                               | North-468
1050 | y132z930a114 | csimmons | Finance
1051 | z451a308b518 | itraora | Marketing
                                               | Central-134
1052 | a192b174c940 | jdarosa | Marketing
                                               | East-195
1053 | b979c871d361 | nemmanue | Human Resources | Central-259
1055 | d831e972f553 | awilliam | Marketing | Central-256 |
1056 | e782f537g683 | ankala | Marketing
                                                North-139
1057 | f370g535h632 | mscott | Sales
                                               | South-270
1058 | q264h852i697 | madebowa | Marketing
                                               | South-119
1059 | h832i322j795 | jnguyen | Marketing | South-255
1061 | j255k2811925 | nhersh | Human Resources | East-163
1062 | k3671639m697 | redwards | Finance | North-180
1063 | 1686m140n569 | 1pope | Sales
                                                 | East-226
             | ejones | Marketing | South-477
1064 | NULL
1065 | n428o322p522 | imoore | Human Resources | West-490
1066 | o678p794q957 | ttyrell | Sales | Central-444
1067 | p288g432r721 | lwhite | Marketing
                                               North-277
                                               | East-110
1069 | NULL | jpark | Finance
1070 | s772t175u409 | tbailey | Human Resources | North-204
1071 | t244u829v723 | zdutchma | Sales | West-348
1072 | u905v920w694 | esmith | Sales | East-421
1073 | v135w241x773 | srobinso | Marketing
                                               | Central-494 |
1075 | x573y883z772 | fbautist | Marketing
                                               | East-267
1076 | y347z204a710 | fgarcia | Finance | Central-270 |
1077 | z654a154b259 | ldavis | Human Resources | East-241
1078 | a667b270c984 | sharley | Sales | North-418
1079 | b433c245d868 | gmedina | Marketing
                                               | North-456
1080 | c568d742e974 | gmoon | Marketing
                                               | North-156
1081 | d647e310f618 | qcorbit | Finance
1083 | f840g812h544 | gkoshi | Finance
                                               South-290
                                               | West-165
1084 | g950h972i991 | nhuynh | Human Resources | South-155
1085 | h339i498j269 | cperez | Sales | East-325
1086 | i281j129k749 | lmajumda | Sales
                                                | West-499
1088 | k8651965m233 | rgosh | Marketing
                                               | East-157
1089 | 1358m929n154 | jpark2 | Sales
                                               | West-251
1091 | n378o313p469 | rtran | Sales
1092 | o391p779q935 | lpark | Sales
                                               | Central-230
                                             | West-227
1093 | p765q957r699 | etargary | Human Resources | Central-247 |
1097 | t363u179v368 | jlee | Human Resources | South-254
1098 | u671v146w618 | tarchamb | Sales
                                                | North-423
1099 | v283w690x104 | anaser | Finance
                                             | West-357
```

1106   c597d792e215   jcohen											
1102   y943z930a241   kselassi   Marketing   South-378   1103   NULL   randerss   Marketing   East-460   1105   b551c837d758   kmei   Finance   Central-232   1106   c597d792e215   jcohen   Marketing   South-395   1107   d168e758f876   akajwara   Sales   North-471   1108   e113f288g203   jwashing   Human Resources   North-471   1108   e113f288g203   jwashing   Human Resources   North-476   1109   f229g533h679   nlocklea   Sales   East-196   1110   g567h376i314   pchaudhu   Sales   East-196   1111   h835i179j862   jlee   Sales   West-309   1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   xgreene   Marketing   North-335   1116   m272n572o874   nzhao   Sales   South-100   1117   n683o758p820   dahmad   Sales   West-405   1118   o305p208q37   jpark3   Sales   West-405   1118   o305p208q37   jpark3   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s557t397   mrojas   Sales   East-288   1122   s103t952w851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-450   1128   y103z561a649   mpirato   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d9g2e144   creddy   Human Resources   West-319   1133   d693a351f221   pfrey   Marketing   West-326   1133   d693a351f221   pfrey   Marketing   West-326   1138   i671j355k725   sromero   Finance   West-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1146   q228r135s755   ulemere   Human Resources   Central-266   1148   s328t505u907   dharvey   Fina	I	1100	I			_					1
1103   NULL	I	1101	I	x701y250z303	I	ichowdhu	I	Human Resources	l	East-233	1
1105   b551c837d758   kmei   Finance   Central-232   1106   c597d792e215   joohen   Marketing   South-395   1107   d168e758f876   akajwara   Sales   North-471   1108   e113f288g203   jwashing   Human Resources   North-226   1109   f229g533h679   nlocklea   Sales   East-196   1110   g567h376i314   pchaudhu   Sales   Central-428   1111   h835i179j862   jlee   Sales   West-309   1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   xgreene   Marketing   North-335   1116   m272n572o874   nzhao   Sales   South-100   1117   n683o758p820   dahmad   Sales   South-100   1117   n683o758p820   dahmad   Sales   South-329   1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-405   1118   o305p208q337   jmark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s55rt397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1130   a317b635c465   tsnow   Sales   Central-161   1134   e395f616g566   akhatri   Human Resources   West-219   1136   g299h5201457   jhawes   Finance   West-199   1136   g299h5201457   jhawes   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   South-282   1141   128zm821n717   cochuba   Human Resources   South-328   1141   128zm821n717   cochuba   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   twega   Finance   West-177   1148   s328t505u907   dharvey   Finance   West-177   1148   s328t505u907   dharvey   Finance   W	l	1102	I	y943z930a241	I	kselassi	I	Marketing	l	South-378	1
1106   c597d792e215   jcohen   Marketing   South-395   1107   d168e758f876   akajwara   Sales   North-471   1108   e113f288g203   jwashing   Human Resources   North-226   1109   f229g533h679   nlocklea   Sales   East-196   1110   g567h376i314   pchaudhu   Sales   Central-428   1111   h835i179j862   jlee   Sales   West-309   1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   kgreene   Marketing   North-335   1116   m272n572o874   nzhao   Sales   South-100   1117   n683o758p820   dahmad   Sales   West-405   1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s557t397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1134   e395f616g566   akhatri   Human Resources   West-416   1137   h1651539j638   mwood   Human Resources   West-169   1138   i671j355k725   sromero   Finance   West-300   1140   k9821199m39   apatel2   Human Resources   North-300   1140   k9821199m39   apatel2   Human Resources   North-300   1140   k9821199m39   apatel2   Human Resources   North-300   1140   k9821199m39   apatel2   Human Resources   South-166   1138   i671j355k725   sromero   Finance   East-440	l	1103	I	NULL	I	randerss	I	Marketing	l	East-460	1
1107   d168e758f876   akajwara   Sales	l	1105	I	b551c837d758	I	kmei.	I	Finance	l	Central-232	1
1108   e113f288g203   jwashing   Human Resources   North-226   1109   f229g533h679   nlocklea   Sales   East-196   1110   g567h376i314   pchaudhu   Sales   Central-428   1111   h835i179j862   jlee   Sales   West-309   1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   xgreene   Marketing   North-335   1116   m272n572o874   nzhao   Sales   West-405   1117   n683o758p820   dahmad   Sales   West-405   1118   o305p208g337   jpark3   Sales   South-100   1117   n683o758p820   dahmad   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s5574397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   Central-712   1125   v491w553x421   mrodgers   Marketing   Central-210   1120   a317b635c465   tsnow   Sales   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-215   1129   z566a147b347   jhopez   Marketing   Central-164   1134   e395f61g5565   tsnow   Sales   Central-164   1134   e395f61g5565   snower   Finance   West-159   1136   g299h5201457   jhawes   Finance   West-159   1136   g299h5201457   jhawes   Finance   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-320   1140   k9821199m339   apatel2   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1142   m674n127o823   Isilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-77   1148   s328t505u907   dharv	l	1106	I	c597d792e215	I	jcohen	I	Marketing	l	South-395	1
1109   f229g533h679   nlocklea   Sales	I	1107	I	d168e758f876	I	akajwara	I	Sales	l	North-471	1
1110	l	1108	I	e113f288g203	I	jwashing	I	Human Resources	l	North-226	1
1111   h8351179]862   jlee   Sales   West-309   1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   xgreene   Marketing   North-335   1116   m272n5720874   nzhao   Sales   South-100   1117   n6830758p820   dahmad   Sales   West-405   1118   0305p208q337   jpark3   Sales   West-405   1118   0305p208q337   jpark3   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s557t397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-451   1134   e395f616g566   akhatri   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-210   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h5201457   jhawes   Finance   West-166   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   South-282   1141   1282m821n717   cochuba   Human Resources   South-282   1141   1282m821n717   cochuba   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   South-181   1150   u554v512w139   lmarin   Marketing   Central-171   1147   r454s225t2w199   twega   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1109	I	f229g533h679	I	nlocklea	I	Sales	l	East-196	1
1113   j781k4201510   pjaimes   Human Resources   East-366   1114   NULL   xgreene   Marketing   North-335   1116   m272n5720874   nzhao   Sales   South-100   1117   n6830758p820   dahmad   Sales   West-405   1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628557t397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-451   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1140   k9821199m839   apatel2   Human Resources   South-329   1140   k9821199m839   apatel2   Human Resources   South-329   1141   1282m821n717   cochuba   Human Resources   South-326   1144   NULL   erobinso   Finance   East-440   1144   NULL   erobinso   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   Central-271   1147   r454s225t299   tvega   Finance   Central-771   1148   s328t505u907   dharvey   Finance   South-36   Central-771   1148   s328t505u907   dharvey   Finance   South-36   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l	1110	I	g567h376i314	I				l	Central-428	1
1114   NULL	I	1111	I	h835i179j862	I	jlee	I	Sales	l	West-309	1
1116   m272n572o874   nzhao   Sales   South-100   1117   n683o758p820   dahmad   Sales   West-405   1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s55rt397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-210   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-385   1141   1282m821n717   cochuba   Human Resources   South-385   1141   NULL   erobinso   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   Central-270   1148   s328t505u907   dharvey   Finance   South-385   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   South-381   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l	1113	I	j781k4201510	I	pjaimes	I	Human Resources	I	East-366	1
1117   n683o758p820   dahmad   Sales   West-405   1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s557t397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1131   c150d982e144   creddy   Human Resources   Central-451   1132   c150d982e144   creddy   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-166   1137   h1651539j638   mwood   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   South-329   1140   k9821199m839   apatel2   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   South-384   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l	1114	I	NULL	I	xgreene	I	Marketing	l	North-335	1
1118   o305p208q337   jpark3   Sales   South-329   1119   p164q780r999   omubarak   Sales   West-409   1120   q912r119s313   rbradsha   Marketing   Central-200   1121   r628s557t397   mrojas   Sales   East-288   1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v93lw764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-451   1133   d699e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apate12   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-771   1147   r454s225t299   tvega   Finance   Central-171   1147   r454s225t299   tvega   Finance   Central-771   1148   s328t505u907   dharvey   Finance   South-272	l	1116	I	m272n572o874	I	nzhao	I	Sales	l	South-100	1
1119	I	1117	I	n683o758p820	I	dahmad	I	Sales	l	West-405	1
1120	I	1118	I	o305p208q337	I	jpark3	I	Sales	I	South-329	1
1121   r628s557t397   mrojas   Sales	I	1119	I	p164q780r999	I	omubarak	I	Sales	l	West-409	1
1122   s103t952u851   btorres   Finance   West-319   1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   South-282   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l .	1120	I	q912r119s313	I	rbradsha	I	Marketing	I	Central-200	1
1123   t479u468v151   ekonya   Human Resources   South-445   1124   u340v931w764   claw   Human Resources   Central-172   1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   South-282   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   East-440   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1121	I	r628s557t397	I	mrojas	I	Sales	l	East-288	1
1124   u340v93lw764   claw	l .	1122	I	s103t952u851	I	btorres	I	Finance	l	West-319	1
1125   v491w553x421   mrodgers   Marketing   South-490   1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1123	I	t479u468v151	I	ekonya	I	Human Resources	l	South-445	1
1128   y103z561a649   mpirato   Human Resources   West-205   1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l .	1124	I	u340v931w764	I	claw	I	Human Resources	l	Central-172	1
1129   z566a147b347   plopez   Marketing   West-326   1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l	1125	I	v491w553x421	I	mrodgers	I	Marketing	l	South-490	1
1130   a317b635c465   tsnow   Sales   Central-451   1132   c150d982e144   creddy   Human Resources   Central-210   1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l	1128	I	y103z561a649	I	mpirato	I	Human Resources	l	West-205	1
1132   c150d982e144   creddy	l	1129	I	z566a147b347	I	plopez	I	Marketing	l	West-326	1
1133   d693e351f221   pfrey   Marketing   Central-164   1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	l .	1130	I	a317b635c465	I	tsnow	I	Sales	l	Central-451	1
1134   e395f616g566   akhatri   Human Resources   West-159   1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I		I		I	-	I	Human Resources	I	Central-210	1
1136   g299h520i457   jhawes   Finance   West-416   1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1133	I	d693e351f221	I	pfrey	I	Marketing	l	Central-164	1
1137   h165i539j638   mwood   Human Resources   South-166   1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1134	I	e395f616g566	I	akhatri	I	Human Resources	I	West-159	1
1138   i671j355k725   sromero   Finance   South-329   1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1136	I	g299h520i457	I	jhawes	I	Finance	l	West-416	1
1139   j637k9861199   emorton   Human Resources   North-300   1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1137	I	h165i539j638	I	mwood	I	Human Resources	I	South-166	1
1140   k9821199m839   apatel2   Human Resources   East-385   1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1138	I	i671j355k725	I	sromero	I	Finance	l	South-329	1
1141   1282m821n717   cochuba   Human Resources   South-282   1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1139	I	j637k9861199	I	emorton	I	Human Resources	I	North-300	1
1142   m674n127o823   lsilva   Finance   East-440   1144   NULL   erobinso   Finance   Central-266   1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1140	I	k9821199m839	I	apate12	I	Human Resources	l	East-385	1
1144   NULL	I	1141	I	1282m821n717	I	cochuba	I	Human Resources	I	South-282	1
1145   p752q137r169   msosa   Human Resources   South-345   1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1142	I	m674n127o823	I	lsilva	I	Finance	l	East-440	1
1146   q228r135s755   ulemere   Human Resources   Central-171   1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1144	I	NULL	I	erobinso	I	Finance	I	Central-266	1
1147   r454s225t299   tvega   Finance   West-177   1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1145	I	p752q137r169	I	msosa	I	Human Resources	l	South-345	1
1148   s328t505u907   dharvey   Finance   South-181   1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I	1146	I	q228r135s755	I	ulemere	I	Human Resources	I	Central-171	1
1150   u554v512w139   lmarin   Marketing   Central-364   1151   v852w513x954   sshah   Human Resources   North-272	I		I	r454s225t299	I	tvega	I	Finance	I	West-177	1
1151   v852w513x954   sshah   Human Resources   North-272	I	1148	I	s328t505u907	I	dharvey	I		I	South-181	1
	I	1150	I		I		I	Marketing	I	Central-364	1
	I	1151	I	v852w513x954	I	sshah	I				1
1152   NULL   nwilliam   Marketing   Central-170		1152	I	NULL	I	nwilliam	I	Marketing	I	Central-170	I

1153   x677y330z296		ncardena	Marketing	Central-363
_	ŀ			
1154   y765z123a548   1155   z942a966b589	ŀ	obryand	Marketing	North-182
1100   1311143000003	ŀ	zjones	Human Resources	
1156   a184b775c707	ŀ	dellery	Marketing	East-417
1157   b264c773d977	ŀ	lstein	Human Resources	Central-343
1158   c406d877e950	ŀ	bnaser	Human Resources	Central-243
1159   d881e710f732	ŀ	jshen	Finance	East-193
1160   e127f591g924	ŀ	spham	Marketing	West-353
1163   h679i515j339	ŀ	cwilliam	Marketing	East-216
1164   i682j513k442	ļ	fsmeltz	Finance	North-163
1165   j713k8931832	ļ	nwords	Marketing	South-128
1166   k4951234m708	ļ	nyoung	Marketing	Central-397
1167   1738m922n515	ļ	tblackwe	Marketing	North-443
1169   NULL	I	mmitchel	Sales	Central-250
1170   o156p302q359	I	lalvarez	Human Resources	North-278
1172   q372r826s628	I	akhan	Marketing	Central-360
1173   r537s849t690	I	ialcazar	Marketing	South-429
1174   s371t911u987	I	eortiz	Finance	North-428
1175   t959u687 <b>v</b> 394	I	jclark2	Finance	North-194
1176   u849v569w521	I	nliu	Sales	West-220
1177   v691w183x928	I	aezra	Human Resources	
1178   w986x187y885	I	nlannist	Marketing	North-196
1179   x174y934z376	I	asalas	Human Resources	North-445
1180   <b>y</b> 131z211a578		medwards	Human Resources	Central-340
1181   z803a233b718		sessa	Finance	South-207
1183   b566c710d544		lquraish	Human Resources	East-400
1184   c986d200e170		ptsosie	Human Resources	Central-247
1185   d790e839f461		revens	Sales	North-330
1186   e281f433g404		sacosta	Sales	North-460
1187   f963g637h851		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
+	+	+	+	+

# Summary

Throughout this activity, I applied a variety of SQL queries to filter a database. I used two tables: log\_in\_attempts and employees. I used a variety of operators, including LIKE, NOT, OR, and AND. Additionally, I used the wildcard (%) to filter out patterns.