Apply filters to SQL queries

Project description

As a security professional at a large organization, I was tasked with identifying and investigating potential security threats involving employee login activity and device usage. This project focused on analyzing two key datasets: employees and log_in_attempts.

The objective was to use SQL queries to extract relevant data, apply filters, and identify suspicious or unauthorized login behavior that could indicate internal threats, compromised accounts, or policy violations. By performing targeted queries on login times, device identifiers, and user attributes, I was able to uncover anomalies and support the organization's efforts to maintain a secure IT environment.

Retrieve after hours failed login attempts

In this project, I investigated potential security issues within a large organization by analyzing employee login activity. Using structured queries, I examined data from the employees and log in attempts tables to identify unusual patterns and unauthorized access attempts.

The goal was to use SQL filtering techniques to detect suspicious behavior such as login attempts outside standard hours or from unrecognized machines and assist in strengthening the organization's overall security posture.

```
MariaDB [organization]> clear
MariaDB [organization]> SELECT *
    -> FROM log in attempts
    -> WHERE login time > '18:00' AND success = FALSE;
 event id |
            username | login date |
                                     login time | country | ip address
                                                                               success
                        2022-05-10 |
                                                           | 192.168.205.12
                                                                                     0
                                     20:27:27
                                                  CAN
         2 | apatel
        18 I
            pwashing |
                        2022-05-11
                                     19:28:50
                                                           | 192.168.66.142
                                                                                     0
                        2022-05-12 |
                                     18:56:36
                                                           | 192.168.109.50
                                                                                     0 |
        20 | tshah
                                                  MEXICO
        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 |
                        2022-05-09 |
                                     23:04:05
                                                                                     0 1
        42 | cgriffin |
                                                  US
                                                            192.168.4.157
        52 | cjackson |
                        2022-05-10 |
                                     22:07:07
                                                  CAN
                                                             192.168.58.57
                                                                                     0 |
                                                             192.168.100.17
        69 | wjaffrey
                        2022-05-11
                                     19:55:15
                                                  USA
                                                                                     0 |
        82
                        2022-05-12
                                                             192.168.234.49
                                                                                     0
           | abernard |
                                     23:38:46
                                                  MEX
        87
                        2022-05-08
                                                             192.168.132.153
             apatel
                                     22:38:31
                                                   CANADA
                                                                                     0
                        2022-05-09
                                     22:36:36
                                                             192.168.84.194
                                                                                     0
        96
            ivelasco
                                                   CAN
             asundara
                        2022-05-11 |
      104
                                     18:38:07
                                                  US
                                                             192.168.96.200
                                                                                     0
       107
                        2022-05-12 |
                                                             192.168.116.187
                                                                                     0
           bisles
                                     20:25:57
                                                  USA
       111 | aestrada |
                        2022-05-10 |
                                     22:00:26
                                                  MEXICO
                                                             192.168.76.27
                                                                                     0
       127
           | abellmas |
                        2022-05-09
                                     21:20:51
                                                             192.168.70.122
                        2022-05-09
                                     20:03:55
                                                             192.168.113.171
                                                                                     0
       131
           bisles
                                                  US
       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 1
       199 | yappiah
                        2022-05-11 | 19:34:48
                                                 MEXICO
                                                           | 192.168.44.232
                                                                                     0 1
19 rows in set (0.072 sec)
```

Retrieve login attempts on specific dates

As part of a security investigation into a suspicious event that occurred on May 9, 2022, our team needed to review login activity from the log_in_attempts table. The objective was to retrieve all login attempts that took place on May 9 and the preceding day, May 8, using the login date field.

Using SQL filtering techniques, I queried the data to isolate relevant login attempts for further analysis, helping the team identify potential unauthorized access or unusual login patterns around the time of the incident.

```
MariaDB [organization]> SELECT *
      FROM log_in_attempts
   -> WHERE login time > '18:00' AND success = FALSE;
 event id | username | login date | login time | country | ip address
                                                                              success
        2 | apatel
                     | 2022-05-10 | 20:27:27
                                                  CAN
                                                          1 192.168.205.12
                                                                                    0 1
                       2022-05-11 |
                                     19:28:50
                                                          | 192.168.66.142
                                                                                    0
       18 | pwashing |
                       2022-05-12 |
                                    18:56:36
                                                MEXICO
                                                          | 192.168.109.50
                                                                                    0 |
       20 | tshah
                                     19:28:12
       28
          aestrada
                       2022-05-09 |
                                                MEXICO
                                                          | 192.168.27.57
                                                                                    0
                       2022-05-11
                                     21:02:04
                                                            192.168.45.93
            drosas
                                                  US
       42
            cgriffin |
                       2022-05-09
                                     23:04:05
                                                  US
                                                            192.168.4.157
                                                                                    0
                       2022-05-10
                                                          | 192.168.58.57
                                                                                    0
       52
          | cjackson |
                                    22:07:07
                                                  CAN
          | wjaffrey |
                       2022-05-11 |
                                     19:55:15
                                                  USA
                                                          | 192.168.100.17
                                                                                    0
       82 | abernard | 2022-05-12 |
                                     23:38:46
                                                                                    0
                                                  MEX
                                                          | 192.168.234.49
       87
                       2022-05-08
                                                  CANADA
                                                                                    0
          | apatel |
                                     22:38:31
                                                          | 192.168.132.153
                       2022-05-09
                                                            192.168.84.194
                                                                                    0
       96
            ivelasco |
                                     22:36:36
                                                  CAN
      104
            asundara |
                       2022-05-11
                                                                                    0
                                     18:38:07
                                                  US
                                                            192.168.96.200
      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
                       2022-05-09
                                                                                    0
      131 | bisles |
                                     20:03:55
                                                LUS
                                                            192.168.113.171
       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
                       2022-05-11 |
      199
                                                          | 192.168.44.232
                                                                                    0
                                    19:34:48
                                                  MEXICO
            yappiah
```

Retrieve login attempts outside of Mexico

As part of an ongoing investigation into suspicious login activity, our team needed to identify login attempts that did not originate from Mexico. The country field in the log_in_attempts table includes entries such as 'MEX' and 'MEXICO'.

To isolate non-Mexico login attempts, I used the NOT and LIKE SQL operators with the pattern 'MEX%'. This ensured that any records beginning with 'MEX' were excluded from the results, allowing the team to focus solely on activity originating from other countries.

```
MariaDB [organization]> SELECT *
   -> FROM log_in_attempts
   -> WHERE NOT country LIKE 'MEX%';
 event id | username | login date | login time | country
                                                              | ip address
                                                                                 success
                         2022-05-09
                                       04:56:27
                                                                192.168.243.140
             jrafael
        2
                         2022-05-10
                                       20:27:27
                                                                192.168.205.12
                                                                                          0
             apatel
                                                     CAN
        3
             dkot
                                                                192.168.151.162
                         2022-05-09
                                       06:47:41
                                                     USA
         4
                         2022-05-08
                                       02:00:39
                                                                192.168.178.71
                                                                                          0
             dkot
                                                     USA
                         2022-05-11
                                       03:05:59
                                                                192.168.86.232
        5
                                                                                          0
             jrafael
                                                     CANADA
         7
                                                                192.168.170.243
192.168.119.173
                         2022-05-11
             eraab
                                       01:45:14
                                                     CAN
                                                                                          0
        8
             bisles
                         2022-05-08
                                       01:30:17
                                                     US
             jrafael
        10
                         2022-05-12
                                       09:33:19
                                                     CANADA
                                                                192.168.228.221
                                                                                          0
        11
             sqilmore
                         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
                                                                192.168.246.135
192.168.16.99
        13
                         2022-05-11
                                                     USA
                                       09:29:34
                                                                                          1
             mrah
        14
             sbaelish
                         2022-05-10
                                                     US
                                       10:20:18
                         2022-05-09
        15
             lyamamot
                                       17:17:26
                                                     USA
                                                                192.168.183.51
                                                                                          0
        16
             mcouliba
                         2022-05-11
                                       06:44:22
                                                     CAN
                                                                192.168.172.189
        17
             pwashing
                         2022-05-11
                                       02:33:02
                                                     USA
                                                                192.168.81.89
        18
                         2022-05-11
                                                                192.168.66.142
                                                                                          0
             pwashing
                                       19:28:50
                                                     US
                                                                192.168.142.245
        19
             jhill
                         2022-05-12
                                       13:09:04
                                                     US
                                                                                          1
                         2022-05-11
                                                                192.168.131.147
             iuduike
                                       17:50:00
                                                     US
        25
             sbaelish
                         2022-05-09
                                       07:04:02
                                                                192.168.33.137
                                                                                          1
                                                     US
        26
                         2022-05-08
                                       17:27:00
             apatel
                                                     CANADA
                                                                192.168.123.105
                                                                192.168.85.186
                                                                                          0
        29
             bisles
                         2022-05-11
                                       01:21:22
                                                     US
                         2022-05-12
                                       17:36:45
                                                     CANADA
                                                                192.168.58.232
                                                                                          0
             acook
        32
             acook
                         2022-05-09
                                       02:52:02
                                                     CANADA
                                                                192.168.142.239
                                                                                          0
        33
                         2022-05-11
                                       02:52:10
                                                     US
                                                                192.168.72.59
             zbernal
                         2022-05-11
                                                                192.168.45.93
        34
             drosas
                                       21:02:04
                                                     US
                                                                192.168.78.151
             asundara
                         2022-05-08
                                                     US
        36
                                       09:00:42
                                                                192.168.152.148
        37
             eraab
                         2022-05-10
                                       06:03:41
                                                     CANADA
                                                                                          0
        38
             sbaelish
                         2022-05-09
                                       14:40:01
                                                     USA
                                                                192.168.60.42
             apatel
                                       17:39:42
        41
                         2022-05-10
                                                     CANADA
                                                                192.168.46.207
                                                                                          0
             cgriffin
        42
                         2022-05-09
                                                                192.168.4.157
                                                                                          0
                                       23:04:05
                                                     US
                                                                192.168.16.208
        43
             mcouliba
                         2022-05-08
                                       02:35:34
                                                     CANADA
                                                                                          0
                                                     CANADA
        44
             daquino
                         2022-05-08
                                       07:02:35
                                                                192.168.168.144
                                                                                          0
        45
             dtanaka
                         2022-05-11
                                       10:28:54
                                                     US
                                                                192.168.223.157
        46
                         2022-05-11
                                                                                          0
             eraab
                                       11:29:27
                                                     CAN
                                                                192.168.24.12
                                                                192.168.233.24
        47
             dkot
                         2022-05-08
                                       05:06:45
                                                     US
                                                                192.168.72.10
192.168.173.213
        48
             asundara
                         2022-05-11
                                       03:18:45
                                                     USA
        49
             asundara
                         2022-05-08
                                       14:00:01
                                                     US
                                                                                          0
        50
             jclark
                         2022-05-10
                                       10:48:02
                                                     CANADA
                                                                192.168.174.117
                                                                                          0
             jrafael
                         2022-05-10
                                       22:40:01
                                                     CANADA
                                                                192.168.148.115
        52
                         2022-05-10
                                                                192.168.58.57
                                                                                          0
             cjackson
                                       22:07:07
                                                     CAN
        53
             nmason
                         2022-05-08
                                       11:51:38
                                                     CAN
                                                                192.168.133.188
        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
        57
                         2022-05-12
                                                                192.168.211.201
             asundara
                                       21:13:02
                                                     US
                                                                                          0
        58
             ivelasco
                         2022-05-09
                                       17:20:54
                                                     CAN
                                                                192.168.57.162
                                                                192.168.54.45
        60
                         2022-05-11
                                       21:46:00
                                                     CAN
             acook
        61
                         2022-05-09
                                                                192.168.98.221
             dtanaka
                                       09:45:18
                                                     TISA
             apatel
                         2022-05-10
        64
                                       22:00:09
                                                     CANADA
                                                                192.168.172.71
        68
             mrah
                         2022-05-08
                                       17:16:13
                                                     US
                                                                192.168.42.248
        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
                                                                192.168.139.176
                                                     CANADA
                                                                                          1
                         2022-05-10
                                                                192.168.80.46
                                                                                          0
        73
             zbernal
                                       17:46:45
                                                     USA
                         2022-05-11 | 15:55:48
```

CAN

192.168.162.2

74

nmason

107	bisles	2022-05-12	20:25:57	USA	192.168.116.187	
108	-	2022-05-09		CANADA	192.168.15.110	1 1 1
109 110		2022-05-10 2022-05-09	04:43:15 00:01:54	CANADA USA	192.168.39.246	1 1
110		2022-05-10	00:01:34	CAN	192.168.90.124 192.168.64.133	1 0 1
115		2022-05-10	23:06:01	CAN	192.168.154.1	1 1
117	bsand	2022-05-08	00:19:11	USA	192.168.197.187	0 1
121	btang	2022-05-10	22:00:36	US	192.168.80.143	1 1
123	bmoreno	2022-05-10	04:43:30	CANADA	192.168.98.2	1 1 1
124		2022-05-12		USA	192.168.136.29	1 1 1
125 126	jrafael	2022-05-11 2022-05-12	08:36:19 18:47:52	US CAN	192.168.74.9 192.168.22.16	1 1
127	abellmas	2022-05-09		CANADA	192.168.70.122	
128	jclark	2022-05-09		CANADA	192.168.122.169	0 1
129		2022-05-12		USA	192.168.152.200	
130		2022-05-11		USA	192.168.102.147	0 1
131 133	bisles asundara	2022-05-09 2022-05-12	20:03:55 05:57:04	US USA	192.168.113.171 192.168.6.9	0 1
134		2022-05-09		USA	192.168.22.115	1 1
135		2022-05-09	14:06:33	US	192.168.91.238	. 0 1
136	mabadi	2022-05-10		US	192.168.214.234	1 1
137	jrafael	2022-05-12	02:42:37	CAN	192.168.186.176	
139		2022-05-11 2022-05-10	01:54:36 13:17:29	CAN	192.168.95.222	0 0
140	btang btang	2022-05-10	13:17:29 10:12:03	US USA	192.168.249.111 192.168.82.139	1 01
142	_			CANADA	192.168.117.56	1 1
143		2022-05-11	00:30:22	USA	192.168.189.19	0 1
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 1 1
146 148	nmason daquino	2022-05-10 2022-05-08	02:25:55 06:15:55	CANADA CANADA	192.168.37.147 192.168.135.6	0 1
149		2022-05-11		USA	192.168.238.42	
150	nmason	2022-05-08	14:40:02	CAN	192.168.204.124	0 1
151		2022-05-09		USA	192.168.30.225	1 1
152	mabadi	2022-05-12		USA	192.168.96.244	0 1
154 155	jlansk y cgriffin	2022-05-12 2022-05-12	10:57:35 22:18:42	US USA	192.168.23.63 192.168.236.176	1 0
	btang	2022-05-11	17:08:51	USA	192.168.243.95	. 0
159		2022-05-12	16:59:50	USA	192.168.220.115	0 1
160			20:49:00	CANADA	192.168.214.49	0
161	abellmas	2022-05-09	13:25:50	CAN	192.168.180.205	0 1
164 167	jclark jclark	2022-05-12 2022-05-12	21:15:52 15:47:45	CAN CAN	192.168.18.34 192.168.146.51	1 1
168	jlansky	2022-05-08	13:25:42	USA	192.168.210.94	1 1
169				CANADA	192.168.210.228	0 1
	sbaelish			USA	192.168.65.113	0
171		2022-05-10		USA		0 1
172 173	mabadi asundara	2022-05-08 2022-05-12		US US		1 1
173				US	192.168.228.122	
I 175 I	jhill	2022-05-10		USA	192.168.130.218	
177	wjaffrey	2022-05-11	00:15:55	USA	192.168.144.165	0 1
178	sgilmore			CAN		0 1
179 181	jclark abellmas	2022-05-12 2022-05-10		CAN CAN	192.168.232.93 192.168.60.111	0 0
182		2022-05-10		USA	192.168.106.52	1 0 1
183	_	2022-05-11		CANADA	192.168.137.147	. 0
184	alevitsk	2022-05-08	03:09:48	CAN	192.168.33.70	0
	jsoto	2022-05-10		USA	192.168.151.91	0 1
186 188	bisles	2022-05-09 2022-05-11	04:29:17 00:39:09	USA USA	192.168.40.72 192.168.21.88	0 0
	jsoto nmason	2022-05-11		CANADA	192.168.21.88	1 1 1
I 190 I	jsoto	2022-05-09		USA	192.168.25.60	1 0 1
l 191 l	cjackson		06:46:07	CANADA	192.168.7.187	0 1
	bisles	2022-05-10		USA	192.168.201.40	1 1 1
	lrodriqu			US	192.168.125.240	
194 195	jclark alevitsk	2022-05-12 2022-05-11		CAN CANADA	192.168.197.247 192.168.236.78	0 1
	acook			CANADA		1 0 1
	jsoto	2022-05-08		US	192.168.36.21	i 0 i
	jclark	2022-05-12	01:11:45	CANADA		1 1
++	+		 		+	+

Retrieve employees in Marketing

As part of a scheduled update to employee machines, our team needed to gather information on employees in the Marketing department who are located in offices within the East building. Office locations are stored in a format such as 'East-170' or 'East-320' in the employees table.

To retrieve the relevant records, I used a SQL query that filtered for employees with a department of 'Marketing' and an office location that starts with 'East-', using the LIKE 'East-%' pattern. This ensured we included all applicable employees across various office numbers in the East building.

```
MariaDB [organization]> SELECT *
    -> FROM employees
    -> WHERE department = 'Marketing'
        AND office LIKE 'East%';
  employee id | device id
                             | username | department | office
              | a320b137c219 | elarson | Marketing
         1000
                                                       East-170
         1052 | a192b174c940 | jdarosa | Marketing
         1075 | x573y883z772 | fbautist |
                                          Marketing
         1088 |
                k8651965m233 | rgosh
                                          Marketing
                                                       East-157
         1103 | NULL
                             | randerss |
                                          Marketing
                                                       East-460
         1156 | a184b775c707 | dellery
                                          Marketing
                h679i515j339 | cwilliam |
         1163 |
                                          Marketing
 rows in set (0.002 sec)
MariaDB [organization]> 🗌
```

Retrieve employees in Finance or Sales

As part of a separate system update, our team needed to identify all employees working in the Finance or Sales departments. This information was necessary to ensure their computers were included in the update process.

To retrieve this data, I used a SQL query that filtered the employees table to return records where the department field matched either 'Finance' or 'Sales'. This allowed us to generate a focused list of users requiring the update.

MariaDB [organization]> SELECT *
-> FROM employees
-> WHERE department = 'Financ

-> WHERE department = 'Finance' OR department = 'Sales';					
employee_id +	device_id	username	department	office	
1003	d394e816f943	sgilmore	Finance	South-153	
1007	h174i497j413	wjaffrey	Finance	North-406	
1008	i858j583k571	abernard	Finance	South-170	
1009	NULL	lrodriqu	Sales	South-134	
1010	k2421212m542	jlansky	Finance	South-109	
1011	1748m120n401	drosas	Sales	South-292	
1015	p611q262r945	jsoto	Finance	North-271	
1017	r550s824t230	jclark	Finance	North-188	
1018	s310t540u653	abellmas	Finance	North-403	
1022	w237x430y567	arusso	Finance	West-465	
1024	y976z753a267	iuduike	Sales	South-215	
1025	z381a365b233	jhill	Sales	North-115	
1029	d336e475f676	ivelasco	Finance	East-156	
1035	j236k3031245	bisles	Sales	South-171	
1039	n253o917p623	cjackson	Sales	East-378	
1041	p929q222r778	cgriffin	Sales	North-208	
1044	s429t157u159	tbarnes	Finance	West-415	
1045	t567u844v434	pwashing	Finance	East-115	
1046	u429v921w138	daquino	Finance	West-280	
1047	v109w587x644	cward	Finance	West-373	
1048	w167x592y375	OILL O'OILL		South-288	
1049	NULL	jreckley	- I I I I I I I I I I I I I I I I I I I	Central-295	
1050	y132z930a114	csimmons		North-468	
1057	f370g535h632	mscott	Sales	South-270	
1062	k3671639m697	redwards		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	Sales	East-421	
1076 1078	y347z204a710 a667b270c984	fgarcia sharle y	Finance Sales	Central-270 North-418	
1078	d647e310f618	qcorbit	Sales Finance	South-290	
1081	f840g812h544	qkoshi		West-165	
1085	h339i498j269	cperez		East-325	
1086	i281j129k749	lmajumda		West-499	
1089	1358m929n154	jpark2		West-251	
1091	n378o313p469	rtran	Sales	Central-230	
1092	o391p779q935	lpark	Sales	West-227	
1098	u671v146w618	tarchamb		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	Sales	South-100	
1117	n683o758p820	dahmad	Sales	West-405	
1118	o305p208q337	jpark3	Sales	South-329	
1119	p164q780r999	omubarak		West-409	
1121	r628s557t397		24160	East-288	
1122	s103t952u851	btorres	Finance	West-319	
1130	a317b635c465	tsnow	Sales	Central-451	
1136	g299h520i457	jhawes	Finance	West-416	
1138	i671j355k725			South-329	
1142	m674n127o823	lsilva	Finance	East-440	

1049 NULL	1040	ATT T		i waalal aw	l Binana	C+1 205 I
1057 f370g555h632 mscott Sales South-270 1062 k3671639m697 redwards Finance North-180 1063 1686m140n569 lpope Sales East-226 1066 o678p794q957 ttyrell Sales East-226 1066 o678p794q957 ttyrell Sales Central-444 1069 NULL ppark Finance East-110 1071 t244u829v723 zdutchma Sales West-348 1072 u905v920w694 esmith Sales East-421 1076 y347z204a710 fgarcia Finance Central-270 1078 a667b270c984 sharley Sales North-418 1081 d647e310f618 gcorbit Finance South-290 1083 f840g812h544 gkoshi Finance South-290 1083 f840g812h544 gkoshi Finance South-290 1083 f840g812h544 gkoshi Finance West-165 1085 h3391498j269 cperez Sales East-325 1086 1281j129k749 lmajumda Sales West-251 1091 n3780313p469 rtran Sales Central-230 1092 0391p779g935 lpark Sales West-251 1091 n3780313p469 rtran Sales Central-230 1092 0391p779g935 lpark Sales West-257 1105 b551c837d758 kmel Finance West-357 1105 b551c837d758 kmel Finance Central-232 1107 d168e758f876 akajwara Sales Central-232 1107 d168e758f876 akajwara Sales Central-242 1111 h8351179j662 jlee Sales East-196 1111 h835179j662 jlee Sales South-100 1116 m272n5720874 nzhao Sales South-329 1116 m272n5720874 nzhao Sales South-329 1118 0305p208g337 jpark3 Sales South-329 1119 p164q780r999 dmbarak Sales West-405 1118 0305p208g337 jpark3 Sales South-329 1119 n164q780r999 dmbarak Sales West-406 1117 r628s557t397 mrojas Sales East-196 1120 m674n127023 lsince Finance West-319 1130 a317b635c465 tsnow Sales Central-266 1147 r454s225t299 tvega Finance West-416 1144 NULL erobinso Finance South-329 1142 m674n127023 lsince Finance West-416 1144 NULL erobinso Finance South-320 1148 328t5050407 dharvey Finance North-163			ł			
1062 k367\[1639m697 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 Sales East-421 1076 y347z204a710 fgarcia Finance Central-270 1078 a667b270c944 sharley Sales North-418 1081 d647e310f618 qcorbit Finance South-290 1083 f840g812b44 qkoshi Finance West-165 1085 h33914991269 cperez Sales East-325 1086 i281j129k749 lmajumda Sales West-499 1089 i358m929n154 jpark2 Sales West-251 1091 n378o3139469 rtran Sales West-251 1091 n378o3139469 rtran Sales West-227 1098 u671v146w618 tarchamb Sales North-423 1099 v283w699x104 anaser Finance West-357 1105 b551c837d758 kmei Finance Central-232 1107 d168e758f876 akajwara Sales North-471 1109 f2229f533h679 nlocklea Sales Central-232 1111 h8351179j662 jlee Sales Sales-196 1111 n683o758p820 dahmad Sales Central-428 1111 n683o758p820 dahmad Sales West-309 1121 r628s57t397 mrojas Sales South-100 1117 n683o758p820 dahmad Sales West-405 1118 3305952w813 btorres Finance West-416 1122 s1031952w51 btorres Finance West-416 1136 g299h5201457 jhawes Finance West-416 1136 3298t505u907 dharvey Finance West-177 1148 s328t505u907 dharvey Finance South-320 1144 NULL mmitchel Sales Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-30 1159 d881e710f732 jshen Finance West-177 1148 s328t505u907 dharvey Finance South-30 1159 d881e710f732 jshen Finance South-30 1160 c281f433g404 sacosta Sales North-428 1175 d7963g637h851 bbode Finance South-275 1186			ł			
1063 1686m140n569 1pope		_	ł			
1066 0678p794q957 ttyrell Sales Central-444 1069 NULL jpark Finance East-110 1071 t244u829v723 zdutchma Sales West-348 1072 u905v920w694 esmith Sales East-421 1076 y347z204a710 fgarcia Finance Central-270 1078 a667b270c984 sharley Sales North-418 1081 d647e310f618 qcorbit Finance South-290 1083 f840g81zh544 gkoshi Finance West-165 1085 h399i498j269 cperez Sales West-499 1088 i358m929h154 jpark2 Sales West-499 1089 1358m929h154 jpark2 Sales West-251 1091 n378o313p469 creat Sales West-27 1098 u671v146w618 tarchamb Sales North-423 1092 o391p779q935 lpark Sales West-227 1098 u671v146w618 tarchamb Sales North-423 1099 v283w690x104 anaser Finance Central-230 1107 d168e758f876 akajwara Sales North-471 1109 f229g533h679 nlocklea Sales Central-428 1111 h835i179j862 jlee Sales West-309 1116 m27ch572c874 nzhao Sales South-100 1117 n683o758p820 dahmad Sales West-405 1118 o305p208g337 jpark3 Sales South-329 1119 p164q780r999 omubarak Sales East-196 1121 r628s557t397 mrojas Sales East-409 1121 r628s557t397 mrojas Sales East-409 1121 r648s25z25299 twega Finance Central-266 1147 r454s225z299 twega Finance Central-276 1164 i682j51x442 fsmeltz Finance Central-276 1174 s371t911u987 ecrtiz Finance North-163 1169 NULL erobinso Finance Central-266 1147 r454s225z299 twega Finance Central-266 1147 r454s225z299 twega Finance North-163 1169 NULL erobinso Finance North-1			ł			
1069 NULL			ł			
1071 t244u829v723 zdutchma Sales West-348 1072 u905v92w694 esmith Sales East-421 1076 y347z204a710 fgarcia Finance Central-270 1078 a667b270c984 sharley Sales North-418 1081 d647e310f618 goorbit Finance South-290 1083 f840g812b544 gkoshi Finance South-290 1083 f840g812b544 gkoshi 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 o391p779g935 lpark Sales West-251 1091 n378o313p469 rtran Sales West-251 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 g567h3761314 pchaudhu Sales Central-428 1111 h835i179j862 jlee Sales South-100 1117 n683o758p820 dahmad Sales South-100 1117 n683o758p820 dahmad Sales South-329 1119 p164q780r999 omubarak Sales West-405 1118 o305p208q337 jpark3 Sales East-288 1122 s1034952u851 btorres Finance West-319 1121 r628s557t397 mrojas Sales East-288 1122 s1034952u851 btorres Finance West-416 1138 i671j355k725 sromero Finance West-416 1138 i671j355k725 sromero Finance Central-266 1147 r454s25t299 tvega Finance Central-266 1147 r454s25t299 tvega Finance Central-266 1147 r454s25t299 tvega Finance Central-250 1174 s371t911u987 eortiz Finance North-163 1169 NULL mmitchel Sales North-480 1169 NULL mmitchel Sales North-163 1169 NULL mmitchel Sales North-480 1176 u89v569s521 nliu Sales North-480 1186 d291f33494 sacosta Sales North-160 1187 f963g637h851 bode Finance East-351 1186 d291f433g404 sacosta Sales Nor			ł			
1072 u905v920w694 esmith Sales			ł			
1076 y347z204a710 fgarcia Finance Central-270 1078 a667b270c984 sharley Sales North-418 1081 d647e310f618 qcorbit Finance South-290 1083 f840g812h544 gkoshi Finance West-165 1085 h33914963c9 cperez Sales East-325 1086 i281j129k749 lmajumda Sales West-499 1089 1358m929n154 jpark2 Sales West-251 1091 n378o313p469 rtran Sales West-251 1091 n378o313p469 rtran Sales West-227 1098 u671v146w618 tarchamb Sales North-423 1099 v283w690x104 anaser Finance West-357 1105 b551c837d758 kmei Finance West-357 1105 b551c837d758 kmei Finance West-357 1100 f229g533h679 nlocklea Sales North-471 1109 f229g533h679 nlocklea Sales West-210 1110 g567h376i314 pchaudhu Sales West-309 1116 m272n572o874 nzhao Sales West-405 1118 o305p208g337 jpark3 Sales West-405 1118 o305p208g337 jpark3 Sales South-100 1117 n683o758p820 dahmad Sales West-409 1121 r628s557t397 mrojas Sales East-288 1122 s103+952u651 btorres Finance West-319 1130 a317b635c465 tsnow Sales Central-451 1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance South-163 1169 NULL mmitchel Sales North-163 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacota Sales North-366 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance East-351 1188 g164h566i795 noshiro Finance East-346			ł			
1078			ł			
1081 d647e310f618 qcorbit Finance South-290 1083 f840g812h544 qkoshi Finance West-165 1085 h3391498j269 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 v283w690k104 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 m272n572c874 nzhao Sales South-100 1117 n683c758p820 dahmad Sales South-209 1118 c305p208q337 jpark3 Sales South-329 1119 p164q78cry99 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 Finance South-329 1142 m674n1270823 lsilva Finance East-440 1144 NULL erobinso Finance South-181 1159 d881e710f732 jshen Finance North-163 1169 NULL mmitchel Sales North-330 1186 e281f433q04 sacosta Sales Nort			ł	_		
1083 f840g812h544 gkoshi Finance West-165 1085 h339149g1269 cperez Sales East-325 1086 1281j129x749 lmajumda Sales West-499 1089 1358m929n154 jpark2 Sales West-499 1091 n3780313p469 rtran Sales West-251 1091 n3780313p469 rtran Sales West-227 1098 u671v146w618 tarchamb Sales West-227 1098 u671v146w618 tarchamb Sales North-423 1099 v283w690x104 anaser Finance West-357 1105 b551c837d758 kmei Finance Central-232 1107 d168c758f8676 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 Sales South-100 1117 n683c758p820 dahmad Sales West-405 1118 c305p208g337 jpark3 Sales South-329 1119 p164g78cr999 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 Finance South-329 1142 m674n127o823 lsilva Finance West-416 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881c710f732 jshen Finance North-163 1169 NULL mmitchel Sales Central-250 1181 z803a233b718 sessa Finance North-428 North-330 1186 c281f433q04 sacosta Sales North-330 1186 c281f433q057 orainier Finance East-351 1188 g164h5661795 nos			ł	_		
1085 h3391498j269 cperez Sales East-325 1086 i281j129k749 lmajumda Sales West-499 1089 1358m929n154 jpark2 Sales West-251 1091 n37803139469 rtran Sales Central-230 1092 o391p779q935 lpark Sales West-227 1098 u671v146w618 tarchamb 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 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 s1034952u851 btorres Finance West-319 1130 a317b635c465 tsnow Sales Central-451 1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance West-416 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance East-440 1148 s328t505u907 dharvey Finance South-329 1164 i682j513k442 fsmeltz Finance West-177 1148 s328t505u907 dharvey Finance East-193 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-108 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f435g957 orainier Finance East-351 1188 g164h566i795 noshiro Finance East-351 1188 g164h566i795 noshiro Finance East-346			ł	•		
1086			ŀ	-		
1089 1358m929n154 jpark2 Sales			ł			
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 Sales West-405 1118 o305p208q337 jpark3 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-319 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s25t299 tvega Finance South-181 1159 d88le710f732 jshen Finance South-181 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-163 1169 NULL mmitchel Sales Central-250 1181 z803a233b718 sessa Finance North-194 1176 u849v569w521 nliu Sales West-220 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ł			
1092 o391p779q335 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 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 Finance South-329 1142 m674n127o823 lsilva Finance South-329 1144 NULL erobinso Finance South-329 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen 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-163 1169 NULL mmitchel Sales Central-250 1181 z803a233b718 sessa Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance East-351 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 oraniner Finance West-252 1195 n516o853p957			ŀ			
1098			ŀ			
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 Sales South-100 1117 n683o758p820 dahmad Sales West-405 1118 o305p208g337 jpark3 Sales West-409 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 Finance West-416 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s225t299 tvega Finance South-181 1159 d881c710f732 jshen Finance South-181 1159 d881c710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-1428 1176 u849v569w521 nliu Sales North-30 1186 e281f433g404 sacosta Sales North-30 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h5661795 noshiro Finance East-346			ŀ			
1105 b551c837d758 kmei Finance Central-232 1107 d168c758f876 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 Sales West-405 1118 o305p208g337 jpark3 Sales West-405 1118 o305p208g337 jpark3 Sales West-405 1118 o305p208g337 jpark3 Sales West-409 1121 r628s557t397 mrojas 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 Finance West-416 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s25t299 twega Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t91lu987 eortiz Finance North-163 1169 NULL mmitchel Sales Central-250 1181 z803a233b718 sessa Finance North-194 1176 u849v569w521 nliu Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance East-346			ŀ			
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 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 Finance South-329 1142 m674n127o823 lsilva Finance South-329 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s25t2599 tvega Finance South-181 1159 d881e710f732 jshen 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-163 1175 t959u687v394 jclark2 Finance North-128 1175 t959u687v394 jclark2 Finance North-128 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance East-346			ŀ			
1109 f229g533h679 nlocklea Sales East-196 1110 g567h376i314 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 Finance West-416 1144 NULL erobinso Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance Central-266 1147 r454s25t25299 tvega Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-428 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance West-252			ŀ			
1110 g567h376i314 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 Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance North-163 1164 i682j513k442 fsmeltz Finance North-163 1167 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-428 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-330 1186 e281f433g404 sacosta Sales North-360 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ			
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 West-409 1122 s103t952u851 btorres Finance West-319 1130 a317b635c465 tsnow Sales Central-451 1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance South-329 1144 NULL erobinso Finance Central-266 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-128 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ŀ			
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 g299h5201457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance South-329 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance South-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ	-		
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 Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance West-177 1148 s328t505u907 dharvey Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h5661795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ	_		
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 Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance North-163 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ			
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 Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance East-356			Ţ			
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 Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 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-194 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ			
1122 s103t952u851 btorres Finance West-319 1130 a317b635c465 tsnow Sales Central-451 1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance South-181 1159 d881e710f732 jshen Finance North-163 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346		-	Ţ			
1130 a317b635c465 tsnow Sales Central-451 1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ			
1136 g299h520i457 jhawes Finance West-416 1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ			
1138 i671j355k725 sromero Finance South-329 1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ			
1142 m674n127o823 lsilva Finance East-440 1144 NULL erobinso Finance Central-266 1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ	_		
1144 NULL			Ţ			
1147 r454s225t299 tvega Finance West-177 1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			Ţ			
1148 s328t505u907 dharvey Finance South-181 1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			1			
1159 d881e710f732 jshen Finance East-193 1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			I			
1164 i682j513k442 fsmeltz Finance North-163 1169 NULL mmitchel Sales Central-250 1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ			
1169 NULL			ļ	_		
1174 s371t911u987 eortiz Finance North-428 1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346		_	ļ			
1175 t959u687v394 jclark2 Finance North-194 1176 u849v569w521 nliu Sales West-220 1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ			
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 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346		50,10311430,	Ţ	COLUIZ	- I III III I	
1181 z803a233b718 sessa Finance South-207 1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			I			
1185 d790e839f461 revens Sales North-330 1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			ļ			
1186 e281f433g404 sacosta Sales North-460 1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			I			
1187 f963g637h851 bbode Finance East-351 1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			I			
1188 g164h566i795 noshiro Finance West-252 1195 n516o853p957 orainier Finance East-346			I			
1195 n516o853p957 orainier Finance East-346			1			
+			I	noshiro		
	1195	n516o853p957	I	orainier	Finance	East-346
	 	·	+		 	+

71 rows in set (0.002 sec)

Retrieve all employees not in IT

The team has completed updates for employees in the Information Technology department. Now, they need to obtain information about all employees not in that department to plan further updates or investigations.

To accomplish this, I used a SQL query with the NOT operator to filter out employees belonging to the Information Technology department.

```
MariaDB [organization] > SELECT *
   -> FROM employees
   -> WHERE NOT department = 'Information Technology'
   -> ;
 employee_id | device_id
                             | username | department
                                                            | office
        1000 | a320b137c219
                               elarson
                                         | Marketing
                                                             East-170
        1001
               b239c825d303
                               bmoreno
                                           Marketing
                                                             Central-276
        1002
               c116d593e558
                               tshah
                                           Human Resources
                                                             North-434
               d394e816f943
        1003
                               sgilmore
                                           Finance
                                                             South-153
        1004
               e218f877g788
                               eraab
                                          Human Resources
                                                             South-127
               f551g340h864
        1005
                                          Human Resources
                                                             South-366
                               gesparza
               h174i497j413
                               wjaffrey
        1007
                                           Finance
                                                             North-406
        1008
               i858j583k571
                               abernard
                                           Finance
                                                             South-170
        1009
               NULL
                               lrodriqu
                                                             South-134
                                           Sales
                k2421212m542
        1010
                               jlansky
                                           Finance
                                                             South-109
        1011
               1748m120n401
                               drosas
                                          Sales
                                                             South-292
                                                             North-271
               p611q262r945
                                           Finance
        1015
                               jsoto
                                          Human Resources
        1016
                q793r736s288
                               sbaelish
                                                             North-229
                r550s824t230
                               jclark
        1017
                                           Finance
                                                             North-188
        1018
               s310t540u653
                               abellmas
                                           Finance
                                                             North-403
        1020
               u899v381w363
                               arutley
                                           Marketing
                                                             South-351
               w237x430y567
                                                             West-465
        1022
                                           Finance
                               arusso
               y976z753a267
        1024
                               iuduike
                                           Sales
                                                             South-215
        1025
                z381a365b233
                               jhill
                                           Sales
                                                             North-115
                               apatel
        1026
               a998b568c863
                                           Human Resources
                                                             West-320
               b806c503d354
        1027
                               mrah
                                           Marketing
                                                             West-246
        1028
               c603d749e374
                               aestrada
                                           Human Resources
                                                             West-121
               d336e475f676
        1029
                               ivelasco
                                           Finance
                                                             East-156
               e391f189g913
                               mabadi
                                          Marketing
        1030
                                                             West-375
        1031
               f419g188h578
                               dkot
                                          Marketing
                                                             West-408
        1034
               i679j565k940
                               bsand
                                           Human Resources
                                                             East-484
        1035
                j236k3031245
                               bisles
                                           Sales
                                                             South-171
        1036
                k5501533m205
                               rjensen
                                           Marketing
                                                             Central-239
               m873n636o225
                                                             Central-260
        1038
                               btang
                                           Human Resources |
               n253o917p623
        1039
                               cjackson
                                           Sales
                                                             East-378
               o783p832q294
                               dtarly
        1040
                                           Human Resources |
                                                             East-237
        1041
               p929q222r778
                               cgriffin
                                           Sales
                                                             North-208
                                           Human Resources
        1042
               q175r338s833
                               acook
                                                             West-381
        1044
               s429t157u159
                                                             West-415
                               tbarnes
                                           Finance
               t567u844v434
                               pwashing
                                                             East-115
        1045
                                           Finance
               u429v921w138
        1046
                               daquino
                                           Finance
                                                             West-280
        1047
               v109w587x644
                               cward
                                           Finance
                                                             West-373
        1048
               w167x592y375
                               tmitchel
                                                             South-288
                                           Finance
        1049
               NULL
                               jreckley
                                           Finance
                                                             Central-295
               y132z930a114
        1050
                                                             North-468
                               csimmons
                                           Finance
               z451a308b518
                                           Marketing
        1051
                               itraora
                                                             Central-134
        1052
               a192b174c940
                               jdarosa
                                          Marketing
                                                             East-195
               b979c871d361
        1053
                               nemmanue
                                           Human Resources
                                                             Central-259
        1055
               d831e972f553
                               awilliam
                                           Marketing
                                                             Central-256
        1056
               e782f537q683
                               ankala
                                           Marketing
                                                             North-139
               f370g535h632
        1057
                                           Sales
                                                             South-270
                               mscott
               g264h852i697
                                          Marketing
                                                             South-119
        1058
                               madehowa
                                           Marketing
        1059
                                                             South-255
               h832i322j795
                               jnguyen
                j255k2811925
        1061
                               nhersh
                                           Human Resources
                                                             East-163
                k3671639m697
        1062
                               redwards
                                           Finance
                                                             North-180
        1063
                1686m140n569
                                           Sales
                                                             East-226
                               lpope
                                           Marketing
                                                             South-477
        1064
               NULL
                               ejones
               n428o322p522
        1065
                               imoore
                                           Human Resources
                                                             West-490
        1066
               o678p794q957
                               ttyrell
                                           Sales
                                                             Central-444
        1067
               p288q432r721
                               lwhite
                                           Marketing
                                                             North-277
        1069
               NULL
                               jpark
                                           Finance
                                                             East-110
                               tbailey
        1070
               s772t175u409
                                           Human Resources
                                                             North-204
               t244u829v723
        1071
                               zdutchma
                                           Sales
                                                             West-348
               u905v920w694
        1072
                               esmith
                                           Sales
                                                             East-421
                               srobinso
        1073
                v135w241x773
                                           Marketing
                                                             Central-494
        1075
               x573y883z772
                               fbautist
                                           Marketing
                                                             East-267
                                                             Central-270
        1076
               y347z204a710
                               fgarcia
                                           Finance
        1077
                z654a154b259
                                                             East-241
                               ldavis
                                           Human Resources
                                                             North-418
        1078
               a667b270c984
                               sharley
                                           Sales
```