Apply filters to SQL queries

Project description

I will use SQL to review log-in attempts that occurred after 18:00HRS for a security incident.

Retrieve after hours failed login attempts

Here, I am using FROM and WHERE operators to look at unsuccessful log-in attempts for after 1800HRS.

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> WHERE login_time > '18:00' AND success = '0';
+----------+----------+------------+------------+---------+-----------------+---------+
| event_id | username | login_date | login_time | country | ip_address      | success |
+----------+----------+------------+------------+---------+-----------------+---------+
|        2 | apatel   | 2022-05-10 | 20:27:27   | CAN     | 192.168.205.12  |       0 |
|       18 | pwashing | 2022-05-11 | 19:28:50   | US      | 192.168.66.142  |       0 |
|       20 | tshah    | 2022-05-12 | 18:56:36   | MEXICO  | 192.168.109.50  |       0 |
|       28 | aestrada | 2022-05-09 | 19:28:12   | MEXICO  | 192.168.27.57   |       0 |
|       34 | drosas   | 2022-05-11 | 21:02:04   | US      | 192.168.45.93   |       0 |
|       42 | cgriffin | 2022-05-09 | 23:04:05   | US      | 192.168.4.157   |       0 |
|       52 | cjackson | 2022-05-10 | 22:07:07   | CAN     | 192.168.58.57   |       0 |
|       69 | wjaffrey | 2022-05-11 | 19:55:15   | USA     | 192.168.100.17  |       0 |
|       82 | abernard | 2022-05-12 | 23:38:46   | MEX     | 192.168.234.49  |       0 |
|       87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153 |       0 |
|       96 | ivelasco | 2022-05-09 | 22:36:36   | CAN     | 192.168.84.194  |       0 |
|      104 | asundara | 2022-05-11 | 18:38:07   | US      | 192.168.96.200  |       0 |
|      107 | bisles   | 2022-05-12 | 20:25:57   | USA     | 192.168.116.187 |       0 |
|      111 | aestrada | 2022-05-10 | 22:00:26   | MEXICO  | 192.168.76.27   |       0 |
|      127 | abellmas | 2022-05-09 | 21:20:51   | CANADA  | 192.168.70.122  |       0 |
|      131 | bisles   | 2022-05-09 | 20:03:55   | US      | 192.168.113.171 |       0 |
|      155 | cgriffin | 2022-05-12 | 22:18:42   | USA     | 192.168.236.176 |       0 |
|      160 | jclark   | 2022-05-10 | 20:49:00   | CANADA  | 192.168.214.49  |       0 |
|      199 | yappiah  | 2022-05-11 | 19:34:48   | MEXICO  | 192.168.44.232  |       0 |
+----------+----------+------------+------------+---------+-----------------+---------+
19 rows in set (0.156 sec)
```

Retrieve login attempts on specific dates

Here I will look at all log-in dates on 2022-05-09 and 2022-05-08

```
    -> WHERE login_date = '2022-05-09' OR login_date = '202-05-08';
+----------+----------+------------+------------+----------+------------------+----------+
| event_id | username | login_date | login_time | country  | ip_address       | success  |
+----------+----------+------------+------------+----------+------------------+----------+
|        1 | jrafael  | 2022-05-09 | 04:56:27   | CAN      | 192.168.243.140  |        1 |
|        3 | dkot     | 2022-05-09 | 06:47:41   | USA      | 192.168.151.162  |        1 |
|       15 | lyamamot | 2022-05-09 | 17:17:26   | USA      | 192.168.183.51   |        0 |
|       24 | arusso   | 2022-05-09 | 06:49:39   | MEXICO   | 192.168.171.192  |        1 |
|       25 | sbaelish | 2022-05-09 | 07:04:02   | US       | 192.168.33.137   |        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 |
|       32 | acook    | 2022-05-09 | 02:52:02   | CANADA   | 192.168.142.239  |        0 |
|       38 | sbaelish | 2022-05-09 | 14:40:01   | USA      | 192.168.60.42    |        1 |
|       39 | yappiah  | 2022-05-09 | 07:56:40   | MEXICO   | 192.168.57.115   |        1 |
|       42 | cgriffin | 2022-05-09 | 23:04:05   | US       | 192.168.4.157    |        0 |
|       58 | ivelasco | 2022-05-09 | 17:20:54   | CAN      | 192.168.57.162   |        0 |
|       61 | dtanaka  | 2022-05-09 | 09:45:18   | USA      | 192.168.98.221   |        1 |
|       65 | aalonso  | 2022-05-09 | 23:42:12   | MEX      | 192.168.52.37    |        1 |
|       67 | abernard | 2022-05-09 | 11:53:41   | MEX      | 192.168.118.29   |        1 |
|       70 | tmitchel | 2022-05-09 | 10:55:17   | MEXICO   | 192.168.87.199   |        1 |
|       71 | mcouliba | 2022-05-09 | 06:57:42   | CAN      | 192.168.55.169   |        0 |
|       79 | abernard | 2022-05-09 | 11:41:15   | MEX      | 192.168.158.170  |        0 |
|       90 | gesparza | 2022-05-09 | 00:49:05   | CANADA   | 192.168.87.201   |        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 |
|      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 |
|      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 |
|      151 | mabadi   | 2022-05-09 | 16:29:46   | USA      | 192.168.30.225   |        1 |
|      158 | smartell | 2022-05-09 | 19:30:32   | MEXICO   | 192.168.190.178  |        1 |
|      161 | abellmas | 2022-05-09 | 13:25:50   | CAN      | 192.168.180.205  |        0 |
|      162 | yappiah  | 2022-05-09 | 04:51:22   | MEXICO   | 192.168.162.100  |        0 |
|      170 | sbaelish | 2022-05-09 | 16:43:18   | USA      | 192.168.65.113   |        0 |
|      186 | bisles   | 2022-05-09 | 04:29:17   | USA      | 192.168.40.72    |        0 |
|      187 | arusso   | 2022-05-09 | 00:36:26   | MEX      | 192.168.77.137   |        0 |
|      190 | jsoto    | 2022-05-09 | 05:09:21   | USA      | 192.168.25.60    |        0 |
+----------+----------+------------+------------+----------+------------------+----------+
40 rows in set (0.004 sec)
```

Retrieve login attempts outside of Mexico

Here, as the suspicious logins have been determined to not originate from Mexico, I will look for log-in attempts for IPs in countries that are not Mexico.

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> WHERE NOT country LIKE 'Mex%';
+----------+----------+------------+------------+---------+-----------------+---------+
| 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 |
```

```
|      150 | nmason   | 2022-05-08 | 14:40:02   | CAN     | 192.168.204.124 |       0 |
|      151 | mabadi   | 2022-05-09 | 16:29:46   | USA     | 192.168.30.225  |       1 |
|      152 | mabadi   | 2022-05-12 | 10:24:43   | USA     | 192.168.96.244  |       0 |
|      154 | jlansky  | 2022-05-12 | 10:57:35   | US      | 192.168.23.63   |       1 |
|      155 | cgriffin | 2022-05-12 | 22:18:42   | USA     | 192.168.236.176 |       0 |
|      156 | btang    | 2022-05-11 | 17:08:51   | USA     | 192.168.243.95  |       0 |
|      159 | iuduike  | 2022-05-12 | 16:59:50   | USA     | 192.168.220.115 |       0 |
|      160 | jclark   | 2022-05-10 | 20:49:00   | CANADA  | 192.168.214.49  |       0 |
|      161 | abellmas | 2022-05-09 | 13:25:50   | CAN     | 192.168.180.205 |       0 |
|      164 | jclark   | 2022-05-12 | 21:15:52   | CAN     | 192.168.18.34   |       1 |
|      167 | jclark   | 2022-05-12 | 15:47:45   | CAN     | 192.168.146.51  |       1 |
|      168 | jlansky  | 2022-05-08 | 13:25:42   | USA     | 192.168.210.94  |       1 |
|      169 | alevitsk | 2022-05-08 | 08:10:43   | CANADA  | 192.168.210.228 |       0 |
|      170 | sbaelish | 2022-05-09 | 16:43:18   | USA     | 192.168.65.113  |       0 |
|      171 | drosas   | 2022-05-10 | 16:32:55   | USA     | 192.168.92.218  |       0 |
|      172 | mabadi   | 2022-05-08 | 08:06:50   | US      | 192.168.180.41  |       1 |
|      173 | asundara | 2022-05-12 | 23:17:52   | US      | 192.168.58.217  |       1 |
|      174 | lyamamot | 2022-05-10 | 12:26:27   | US      | 192.168.228.122 |       0 |
|      175 | jhill    | 2022-05-10 | 00:17:09   | USA     | 192.168.130.218 |       0 |
|      177 | wjaffrey | 2022-05-11 | 00:15:55   | USA     | 192.168.144.165 |       0 |
|      178 | sgilmore | 2022-05-08 | 12:27:22   | CAN     | 192.168.52.216  |       0 |
|      179 | jclark   | 2022-05-12 | 04:08:17   | CAN     | 192.168.232.93  |       0 |
|      181 | abellmas | 2022-05-10 | 13:37:05   | CAN     | 192.168.60.111  |       0 |
|      182 | lyamamot | 2022-05-10 | 06:01:31   | USA     | 192.168.106.52  |       0 |
|      183 | nmason   | 2022-05-11 | 05:29:36   | CANADA  | 192.168.137.147 |       0 |
|      184 | alevitsk | 2022-05-08 | 03:09:48   | CAN     | 192.168.33.70   |       0 |
|      185 | jsoto    | 2022-05-10 | 13:34:58   | USA     | 192.168.151.91  |       0 |
|      186 | bisles   | 2022-05-09 | 04:29:17   | USA     | 192.168.40.72   |       0 |
|      188 | jsoto    | 2022-05-11 | 00:39:09   | USA     | 192.168.21.88   |       0 |
|      189 | nmason   | 2022-05-08 | 05:37:24   | CANADA  | 192.168.168.117 |       1 |
|      190 | jsoto    | 2022-05-09 | 05:09:21   | USA     | 192.168.25.60   |       0 |
|      191 | cjackson | 2022-05-08 | 06:46:07   | CANADA  | 192.168.7.187   |       0 |
|      192 | bisles   | 2022-05-10 | 08:32:03   | USA     | 192.168.201.40  |       1 |
|      193 | lrodriqu | 2022-05-08 | 07:11:29   | US      | 192.168.125.240 |       0 |
|      194 | jclark   | 2022-05-12 | 14:11:04   | CAN     | 192.168.197.247 |       0 |
|      195 | alevitsk | 2022-05-11 | 06:59:13   | CANADA  | 192.168.236.78  |       1 |
|      196 | acook    | 2022-05-10 | 09:56:48   | CAN     | 192.168.52.90   |       0 |
|      197 | jsoto    | 2022-05-08 | 09:05:09   | US      | 192.168.36.21   |       0 |
|      200 | jclark   | 2022-05-12 | 01:11:45   | CANADA  | 192.168.91.103  |       1 |
+----------+----------+------------+------------+---------+-----------------+---------+
144 rows in set (0.003 sec)
```

Retrieve employees in Marketing

Here, I look for employees in the Marketing department with an office from the East Building.

```
MariaDB [organization]> SELECT *
    ->
    -> FROM employees
    -> WHERE department LIKE "Marketing" AND office LIKE "East%"
    -> ;
+-------------+---------------+-----------+------------+-----------+
| employee_id | device_id     | username  | department | office    |
+-------------+---------------+-----------+------------+-----------+
|        1000 | a320b137c219  | elarson   | Marketing  | East-170  |
|        1052 | a192b174c940  | jdarosa   | Marketing  | East-195  |
|        1075 | x573y883z772  | fbautist  | Marketing  | East-267  |
|        1088 | k8651965m233  | rgosh     | Marketing  | East-157  |
|        1103 | NULL          | randerss  | Marketing  | East-460  |
|        1156 | a184b775c707  | dellery   | Marketing  | East-417  |
|        1163 | h679i515j339  | cwilliam  | Marketing  | East-216  |
+-------------+---------------+-----------+------------+-----------+
7 rows in set (0.002 sec)
```

Retrieve employees in Finance or Sales

Here, I look at the list of employees in either the finance department or the sales department.

```
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 | l748m120n401  | 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  | tmitchel  | Finance    | South-288   |
|        1049 | NULL          | jreckley  | Finance    | Central-295 |
|        1050 | y132z930a114  | csimmons  | Finance    | North-468   |
|        1057 | f370g535h632  | mscott    | Sales      | South-270   |
|        1062 | k3671639m697  | redwards  | Finance    | North-180   |
|        1063 | l686m140n569  | lpope     | Sales      | East-226    |
|        1066 | o678p794q957  | ttyrell   | Sales      | Central-444 |
|        1069 | NULL          | jpark     | Finance    | East-110    |
```

```
|  1062 | k367l639m697 | redwards | Finance | North-180   |
|  1063 | l686m140n569 | 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 | a667b270c984 | sharley  | Sales   | North-418   |
|  1081 | d647e310f618 | qcorbit  | Finance | South-290   |
|  1083 | f840g812h544 | gkoshi   | Finance | West-165    |
|  1085 | h339i498j269 | cperez   | Sales   | East-325    |
|  1086 | i281j129k749 | lmajumda | Sales   | West-499    |
|  1089 | l358m929n154 | jpark2   | Sales   | West-251    |
|  1091 | n378o313p469 | rtran    | Sales   | Central-230 |
|  1092 | o391p779q935 | lpark    | Sales   | West-227    |
|  1098 | u671v146w618 | tarchamb | Sales   | North-423   |
|  1099 | v283w690x104 | anaser   | Finance | West-357    |
|  1105 | b551c837d758 | kmei     | Finance | Central-232 |
|  1107 | d168e758f876 | akajwara | Sales   | North-471   |
|  1109 | 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 | 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    |
+-------+--------------+----------+---------+-------------+
71 rows in set (0.001 sec)
```

Retrieve all employees not in IT

Here I look for employees who are not from the "Information Technology" department.

```
MariaDB [organization]> SELECT *
    -> FROM employees
    -> WHERE NOT department LIKE 'Information Technology';
+-------------+--------------+-----------+-----------------+--------------+
| employee_id | device_id    | username  | department      | office       |
+-------------+--------------+-----------+-----------------+--------------+
|        1000 | a320b137c219 | elarson   | Marketing       | East-170     |
|        1001 | b239c825d303 | bmoreno   | Marketing       | Central-276  |
|        1002 | c116d593e558 | tshah     | Human Resources | North-434    |
|        1003 | d394e816f943 | sgilmore  | Finance         | South-153    |
|        1004 | e218f877g788 | eraab     | Human Resources | South-127    |
|        1005 | f551g340h864 | gesparza  | Human Resources | South-366    |
|        1007 | h174i497j413 | wjaffrey  | Finance         | North-406    |
|        1008 | i858j583k571 | abernard  | Finance         | South-170    |
|        1009 | NULL         | lrodriqu  | Sales           | South-134    |
|        1010 | k2421212m542 | jlansky   | Finance         | South-109    |
|        1011 | l748m120n401 | drosas    | Sales           | South-292    |
|        1015 | p611q262r945 | jsoto     | Finance         | North-271    |
|        1016 | q793r736s288 | sbaelish  | Human Resources | North-229    |
|        1017 | r550s824t230 | jclark    | Finance         | North-188    |
|        1018 | s310t540u653 | abellmas  | Finance         | North-403    |
|        1020 | u899v381w363 | arutley   | Marketing       | South-351    |
|        1022 | w237x430y567 | arusso    | Finance         | West-465     |
|        1024 | y976z753a267 | iuduike   | Sales           | South-215    |
|        1025 | z381a365b233 | jhill     | Sales           | North-115    |
|        1026 | a998b568c863 | apatel    | Human Resources | West-320     |
|        1027 | b806c503d354 | mrah      | Marketing       | West-246     |
|        1028 | c603d749e374 | aestrada  | Human Resources | West-121     |
|        1029 | d336e475f676 | ivelasco  | Finance         | East-156     |
|        1030 | e391f189g913 | mabadi    | Marketing       | West-375     |
|        1031 | f419g188h578 | dkot      | Marketing       | West-408     |
|        1034 | i679j565k940 | bsand     | Human Resources | East-484     |
|        1035 | j236k3031245 | bisles    | Sales           | South-171    |
|        1036 | k5501533m205 | rjensen   | Marketing       | Central-239  |
|        1038 | m873n636o225 | btang     | Human Resources | Central-260  |
|        1039 | n253o917p623 | cjackson  | Sales           | East-378     |
|        1040 | o783p832q294 | dtarly    | Human Resources | East-237     |
|        1041 | p929q222r778 | cgriffin  | Sales           | North-208    |
|        1042 | q175r338s833 | acook     | Human Resources | West-381     |
|        1044 | s429t157u159 | tbarnes   | Finance         | West-415     |
|        1045 | t567u844v434 | pwashing  | Finance         | East-115     |
|        1046 | u429v921w138 | daquino   | Finance         | West-280     |
|        1047 | v109w587x644 | cward     | Finance         | West-373     |
|        1048 | w167x592y375 | tmitchel  | Finance         | South-288    |
|        1049 | NULL         | jreckley  | Finance         | Central-295  |
|        1050 | y132z930a114 | csimmons  | Finance         | North-468    |
|        1051 | z451a308b518 | itraora   | Marketing       | Central-134  |
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| 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   |
| 1152 | NULL         | nwilliam | Marketing       | Central-170 |
| 1153 | x677y330z296 | ncardena | Marketing       | Central-363 |
| 1154 | y765z123a548 | obryand  | Marketing       | North-182   |
| 1155 | z942a966b589 | zjones   | Human Resources | East-122    |
| 1156 | a184b775c707 | dellery  | Marketing       | East-417    |
| 1157 | b264c773d977 | lstein   | Human Resources | Central-343 |
| 1158 | c406d877e950 | bnaser   | Human Resources | Central-243 |
| 1159 | d881e710f732 | jshen    | Finance         | East-193    |
| 1160 | e127f591g924 | spham    | Marketing       | West-353    |
| 1163 | h679i515j339 | cwilliam | Marketing       | East-216    |
| 1164 | i682j513k442 | fsmeltz  | Finance         | North-163   |
| 1165 | j713k893l832 | nwords   | Marketing       | South-128   |
| 1166 | k495l234m708 | nyoung   | Marketing       | Central-397 |
| 1167 | l738m922n515 | tblackwe | Marketing       | North-443   |
| 1169 | NULL         | mmitchel | Sales           | Central-250 |
| 1170 | o156p302q359 | lalvarez | Human Resources | North-278   |
| 1172 | q372r826s628 | akhan    | Marketing       | Central-360 |
| 1173 | r537s849t690 | ialcazar | Marketing       | South-429   |
| 1174 | s371t911u987 | eortiz   | Finance         | North-428   |
| 1175 | t959u687v394 | jclark2  | Finance         | North-194   |
| 1176 | u849v569w521 | nliu     | Sales           | West-220    |
| 1177 | v691w183x928 | aezra    | Human Resources | East-190    |
| 1178 | w986x187y885 | nlannist | Marketing       | North-196   |
| 1179 | x174y934z376 | asalas   | Human Resources | North-445   |
| 1180 | y131z211a578 | 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    |
+------+--------------+----------+-----------------+-------------+
161 rows in set (0.001 sec)
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Summary

I used SQL queries to locate log-in attempts made after 1800HRS, on dates of 2022-05-08 and 2022-05-09, and outside of Mexico. I have then used SQL queries to gather a list of names of employees from the Marketing department to do a security update. Then, I did the same queries to gather a list of employees from both the Finance and Sales departments to do a separate security update. Afterwards, I do a SQL query to identify employees that are not in the IT department as that department already has the update.