# Apply filters to SQL queries

## Project description

This project is to understand and show how I learned the basics of SQL. The following lab is to write queries in SQL from a premade database simulation.

## Retrieve after hours failed login attempts

**Code:** SELECT *
->FROM log_in_attempts
->WHERE login_time>'17:00' AND success = FALSE
-> ORDER BY login_time ;
**Description:** Just for the SELECT * i wanted to show all of the categories of data. WHERE line needed to output data where the login time was after 5pm and they were failed attempts. For clarity reasons I added the attempts to be sorted on when the attempt at logging in was made.
**Screenshot:**

```
+----------+----------+------------+------------+---------+-----------------+---------+
| event_id | username | login_date | login_time | country | ip_address      | success |
+----------+----------+------------+------------+---------+-----------------+---------+
|        6 | arutley  | 2022-05-12 | 17:00:59   | MEXICO  | 192.168.3.24    |       0 |
|      156 | btang    | 2022-05-11 | 17:08:51   | USA     | 192.168.243.95  |       0 |
|       15 | lyamamot | 2022-05-09 | 17:17:26   | USA     | 192.168.183.51  |       0 |
|       58 | ivelasco | 2022-05-09 | 17:20:54   | CAN     | 192.168.57.162  |       0 |
|       31 | acook    | 2022-05-12 | 17:36:45   | CANADA  | 192.168.58.232  |       0 |
|       41 | apatel   | 2022-05-10 | 17:39:42   | CANADA  | 192.168.46.207  |       0 |
|       73 | zbernal  | 2022-05-10 | 17:46:45   | USA     | 192.168.80.46   |       0 |
|      104 | asundara | 2022-05-11 | 18:38:07   | US      | 192.168.96.200  |       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 |
|       18 | pwashing | 2022-05-11 | 19:28:50   | US      | 192.168.66.142  |       0 |
|      199 | yappiah  | 2022-05-11 | 19:34:48   | MEXICO  | 192.168.44.232  |       0 |
|       69 | wjaffrey | 2022-05-11 | 19:55:15   | USA     | 192.168.100.17  |       0 |
|      131 | bisles   | 2022-05-09 | 20:03:55   | US      | 192.168.113.171 |       0 |
|      107 | bisles   | 2022-05-12 | 20:25:57   | USA     | 192.168.116.187 |       0 |
|        2 | apatel   | 2022-05-10 | 20:27:27   | CAN     | 192.168.205.12  |       0 |
|      160 | jclark   | 2022-05-10 | 20:49:00   | CANADA  | 192.168.214.49  |       0 |
|       34 | drosas   | 2022-05-11 | 21:02:04   | US      | 192.168.45.93   |       0 |
|      127 | abellmas | 2022-05-09 | 21:20:51   | CANADA  | 192.168.70.122  |       0 |
|      111 | aestrada | 2022-05-10 | 22:00:26   | MEXICO  | 192.168.76.27   |       0 |
|       52 | cjackson | 2022-05-10 | 22:07:07   | CAN     | 192.168.58.57   |       0 |
|      155 | cgriffin | 2022-05-12 | 22:18:42   | USA     | 192.168.236.176 |       0 |
|       96 | ivelasco | 2022-05-09 | 22:36:36   | CAN     | 192.168.84.194  |       0 |
|       87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153 |       0 |
|       42 | cgriffin | 2022-05-09 | 23:04:05   | US      | 192.168.4.157   |       0 |
|       82 | abernard | 2022-05-12 | 23:38:46   | MEX     | 192.168.234.49  |       0 |
+----------+----------+------------+------------+---------+-----------------+---------+
26 rows in set (0.028 sec)
```

# Retrieve login attempts on specific dates

**Code:**

```
->SELECT *
->FROM log_in_attempts
 ->WHERE login_date = '2022-05-11'
->ORDER BY event_id DESC;
```

**Description**: Difference between this and the previous example is that I changed the desired output of the query to be a specific date and changing it to all of the log in attempts. I also changed the order by descending order of the event_id.

**Screenshot:**

```
+----------+----------+------------+------------+---------+------------------+---------+
| event_id | username | login_date | login_time | country | ip_address       | success |
+----------+----------+------------+------------+---------+------------------+---------+
|      199 | yappiah  | 2022-05-11 | 19:34:48   | MEXICO  | 192.168.44.232   |       0 |
|      195 | alevitsk | 2022-05-11 | 06:59:13   | CANADA  | 192.168.236.78   |       1 |
|      188 | jsoto    | 2022-05-11 | 00:39:09   | USA     | 192.168.21.88    |       0 |
|      183 | nmason   | 2022-05-11 | 05:29:36   | CANADA  | 192.168.137.147  |       0 |
|      177 | wjaffrey | 2022-05-11 | 00:15:55   | USA     | 192.168.144.165  |       0 |
|      176 | cward    | 2022-05-11 | 12:00:02   | MEX     | 192.168.133.88   |       0 |
|      156 | btang    | 2022-05-11 | 17:08:51   | USA     | 192.168.243.95   |       0 |
|      149 | jlansky  | 2022-05-11 | 01:07:11   | USA     | 192.168.238.42   |       0 |
|      143 | jhill    | 2022-05-11 | 00:30:22   | USA     | 192.168.189.19   |       0 |
|      142 | gesparza | 2022-05-11 | 06:31:14   | CANADA  | 192.168.117.56   |       1 |
|      139 | apatel   | 2022-05-11 | 01:54:36   | CAN     | 192.168.95.222   |       0 |
|      130 | mrah     | 2022-05-11 | 02:54:21   | USA     | 192.168.102.147  |       0 |
|      125 | bisles   | 2022-05-11 | 08:36:19   | US      | 192.168.74.9     |       1 |
|      122 | yappiah  | 2022-05-11 | 08:27:25   | MEX     | 192.168.50.45    |       0 |
|      119 | tmitchel | 2022-05-11 | 23:07:13   | MEXICO  | 192.168.110.175  |       1 |
|      104 | asundara | 2022-05-11 | 18:38:07   | US      | 192.168.96.200   |       0 |
|      103 | jhill    | 2022-05-11 | 09:10:54   | US      | 192.168.60.153   |       0 |
|       98 | gesparza | 2022-05-11 | 06:30:14   | CANADA  | 192.168.148.80   |       0 |
|       91 | jhill    | 2022-05-11 | 17:46:47   | US      | 192.168.172.74   |       1 |
|       85 | dtarly   | 2022-05-11 | 17:35:28   | MEX     | 192.168.254.75   |       1 |
|       84 | jrafael  | 2022-05-11 | 09:26:17   | CAN     | 192.168.243.203  |       1 |
|       81 | aalonso  | 2022-05-11 | 12:50:38   | MEX     | 192.168.152.43   |       1 |
|       74 | nmason   | 2022-05-11 | 15:55:48   | CAN     | 192.168.162.2    |       1 |
|       69 | wjaffrey | 2022-05-11 | 19:55:15   | USA     | 192.168.100.17   |       0 |
|       63 | tmitchel | 2022-05-11 | 14:13:41   | MEXICO  | 192.168.110.131  |       0 |
|       60 | acook    | 2022-05-11 | 21:46:00   | CAN     | 192.168.54.45    |       1 |
|       55 | jlansky  | 2022-05-11 | 05:15:34   | US      | 192.168.6.170    |       0 |
|       48 | asundara | 2022-05-11 | 03:18:45   | USA     | 192.168.72.10    |       1 |
|       46 | eraab    | 2022-05-11 | 11:29:27   | CAN     | 192.168.24.12    |       0 |
|       45 | dtanaka  | 2022-05-11 | 10:28:54   | US      | 192.168.223.157  |       1 |
|       34 | drosas   | 2022-05-11 | 21:02:04   | US      | 192.168.45.93    |       0 |
|       33 | zbernal  | 2022-05-11 | 02:52:10   | US      | 192.168.72.59    |       1 |
|       29 | bisles   | 2022-05-11 | 01:21:22   | US      | 192.168.85.186   |       0 |
|       22 | rjensen  | 2022-05-11 | 00:59:26   | MEX     | 192.168.213.128  |       0 |
|       21 | iuduike  | 2022-05-11 | 17:50:00   | US      | 192.168.131.147  |       1 |
|       18 | pwashing | 2022-05-11 | 19:28:50   | US      | 192.168.66.142   |       0 |
|       17 | pwashing | 2022-05-11 | 02:33:02   | USA     | 192.168.81.89    |       1 |
|       16 | mcouliba | 2022-05-11 | 06:44:22   | CAN     | 192.168.172.189  |       1 |
|       13 | mrah     | 2022-05-11 | 09:29:34   | USA     | 192.168.246.135  |       1 |
|       11 | sgilmore | 2022-05-11 | 10:16:29   | CANADA  | 192.168.140.81   |       0 |
|        9 | yappiah  | 2022-05-11 | 13:47:29   | MEX     | 192.168.59.136   |       1 |
|        7 | eraab    | 2022-05-11 | 01:45:14   | CAN     | 192.168.170.243  |       1 |
|        5 | jrafael  | 2022-05-11 | 03:05:59   | CANADA  | 192.168.86.232   |       0 |
+----------+----------+------------+------------+---------+------------------+---------+
43 rows in set (0.002 sec)
```

# Retrieve login attempts outside of Mexico

**Code:**

->SELECT *

->FROM log_in_attempts

->WHERE country != 'MEXICO' AND NOT country = 'MEX' AND   event_id >= 50

 ->ORDER BY event_id AND success;

**Description:** I decided to make this query little more specific and difficult. The where condition is to not display anything from Mexico nor MEX and display the events with the id that is 50 or greater. It is also ordered by the event id's and the failed attempts.

**Screenshot:**

```
+---------+----------+------------+------------+---------+------------------+---------+
| event_id| username | login_date | login_time | country | ip_address       | success |
+---------+----------+------------+------------+---------+------------------+---------+
|     117 | bsand    | 2022-05-08 | 00:19:11   | USA     | 192.168.197.187  |       0 |
|     144 | daquino  | 2022-05-09 | 11:09:32   | CANADA  | 192.168.139.9    |       0 |
|     146 | nmason   | 2022-05-10 | 02:25:55   | CANADA  | 192.168.37.147   |       0 |
|     149 | jlansky  | 2022-05-11 | 01:07:11   | USA     | 192.168.238.42   |       0 |
|     150 | nmason   | 2022-05-08 | 14:40:02   | CAN     | 192.168.204.124  |       0 |
|     152 | mabadi   | 2022-05-12 | 10:24:43   | USA     | 192.168.96.244   |       0 |
|     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 |
|     143 | jhill    | 2022-05-11 | 00:30:22   | USA     | 192.168.189.19   |       0 |
|     141 | btang    | 2022-05-12 | 10:12:03   | USA     | 192.168.82.139   |       0 |
|     140 | btang    | 2022-05-10 | 13:17:29   | US      | 192.168.249.111  |       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 |
|     129 | drosas   | 2022-05-12 | 15:39:40   | USA     | 192.168.152.200  |       0 |
|     130 | mrah     | 2022-05-11 | 02:54:21   | USA     | 192.168.102.147  |       0 |
|     131 | bisles   | 2022-05-09 | 20:03:55   | US      | 192.168.113.171  |       0 |
|     184 | alevitsk | 2022-05-08 | 03:09:48   | CAN     | 192.168.33.70    |       0 |
|     135 | bsand    | 2022-05-09 | 14:06:33   | US      | 192.168.91.238   |       0 |
|     139 | apatel   | 2022-05-11 | 01:54:36   | CAN     | 192.168.95.222   |       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 |
|     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 |
|     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 |
|     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 |
|     196 | acook    | 2022-05-10 | 09:56:48   | CAN     | 192.168.52.90    |       0 |
|     183 | nmason   | 2022-05-11 | 05:29:36   | CANADA  | 192.168.137.147  |       0 |
|     182 | lyamamot | 2022-05-10 | 06:01:31   | USA     | 192.168.106.52   |       0 |
|     181 | abellmas | 2022-05-10 | 13:37:05   | CAN     | 192.168.60.111   |       0 |
|     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 |
|     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 |
|     197 | jsoto    | 2022-05-08 | 09:05:09   | US      | 192.168.36.21    |       0 |
|     103 | jhill    | 2022-05-11 | 09:10:54   | US      | 192.168.60.153   |       0 |
|      73 | zbernal  | 2022-05-10 | 17:46:45   | USA     | 192.168.80.46    |       0 |
|     104 | asundara | 2022-05-11 | 18:38:07   | US      | 192.168.96.200   |       0 |
|      58 | ivelasco | 2022-05-09 | 17:20:54   | CAN     | 192.168.57.162   |       0 |
|      71 | mcouliba | 2022-05-09 | 06:57:42   | CAN     | 192.168.55.169   |       0 |
|     101 | sbaelish | 2022-05-08 | 12:01:22   | US      | 192.168.145.158  |       0 |
|      90 | gesparza | 2022-05-09 | 00:49:05   | CANADA  | 192.168.87.201   |       0 |
|      69 | wjaffrey | 2022-05-11 | 19:55:15   | USA     | 192.168.100.17   |       0 |
|      98 | gesparza | 2022-05-11 | 06:30:14   | CANADA  | 192.168.148.80   |       0 |
|      96 | ivelasco | 2022-05-09 | 22:36:36   | CAN     | 192.168.84.194   |       0 |
|      87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153  |       0 |
|     107 | bisles   | 2022-05-12 | 20:25:57   | USA     | 192.168.116.187  |       0 |
|      76 | bmoreno  | 2022-05-10 | 10:53:55   | CAN     | 192.168.61.200   |       0 |
|      50 | jclark   | 2022-05-10 | 10:48:02   | CANADA  | 192.168.174.117  |       0 |
|      52 | cjackson | 2022-05-10 | 22:07:07   | CAN     | 192.168.58.57    |       0 |
|     113 | gesparza | 2022-05-10 | 00:40:00   | CAN     | 192.168.64.133   |       0 |
|      55 | jlansky  | 2022-05-11 | 05:15:34   | US      | 192.168.6.170    |       0 |
|      92 | pwashing | 2022-05-08 | 00:36:12   | US      | 192.168.247.219  |       0 |
|     173 | asundara | 2022-05-12 | 23:17:52   | US      | 192.168.58.217   |       1 |
|      72 | alevitsk | 2022-05-08 | 12:09:10   | CANADA  | 192.168.139.176  |       1 |
|     172 | mabadi   | 2022-05-08 | 08:06:50   | US      | 192.168.180.41   |       1 |
```

Note: there is more to this photo but the output is so large I cut out the rest.

# Retrieve employees in Marketing

**Code:**
```
->SELECT *
 ->FROM employees
->WHERE department = 'Marketing'
->ORDER BY employee_id ;
```

**Description:** This query is to display all the categories from the employee table. I changed the output to be only the Marketing department and ordered by employee id.

**Screenshot:**

```
+------------+--------------+------------+------------+--------------+
| employee_id | device_id    | username   | department | office       |
+------------+--------------+------------+------------+--------------+
|       1000 | a320b137c219 | elarson    | Marketing  | East-170     |
|       1001 | b239c825d303 | bmoreno    | Marketing  | Central-276  |
|       1020 | u899v381w363 | arutley    | Marketing  | South-351    |
|       1027 | b806c503d354 | mrah       | Marketing  | West-246     |
|       1030 | e391f189g913 | mabadi     | Marketing  | West-375     |
|       1031 | f419g188h578 | dkot       | Marketing  | West-408     |
|       1036 | k550l533m205 | rjensen    | Marketing  | Central-239  |
|       1051 | z451a308b518 | itraora    | Marketing  | Central-134  |
|       1052 | a192b174c940 | jdarosa    | Marketing  | East-195     |
|       1055 | d831e972f553 | awilliam   | Marketing  | Central-256  |
|       1056 | e782f537g683 | ankala     | Marketing  | North-139    |
|       1058 | g264h852i697 | madebowa   | Marketing  | South-119    |
|       1059 | h832i322j795 | jnguyen    | Marketing  | South-255    |
|       1064 | NULL         | ejones     | Marketing  | South-477    |
|       1067 | p288q432r721 | lwhite     | Marketing  | North-277    |
|       1073 | v135w241x773 | srobinso   | Marketing  | Central-494  |
|       1075 | x573y883z772 | fbautist   | Marketing  | East-267     |
|       1079 | b433c245d868 | gmedina    | Marketing  | North-456    |
|       1080 | c568d742e974 | gmoon      | Marketing  | North-156    |
|       1088 | k8651965m233 | rgosh      | Marketing  | East-157     |
|       1102 | y943z930a241 | kselassi   | Marketing  | South-378    |
|       1103 | NULL         | randerss   | Marketing  | East-460     |
|       1106 | c597d792e215 | jcohen     | Marketing  | South-395    |
|       1114 | NULL         | xgreene    | Marketing  | North-335    |
|       1120 | q912r119s313 | rbradsha   | Marketing  | Central-200  |
|       1125 | v491w553x421 | mrodgers   | Marketing  | South-490    |
|       1129 | z566a147b347 | plopez     | Marketing  | West-326     |
|       1133 | d693e351f221 | pfrey      | Marketing  | Central-164  |
|       1150 | u554v512w139 | lmarin     | Marketing  | Central-364  |
|       1152 | NULL         | nwilliam   | Marketing  | Central-170  |
|       1153 | x677y330z296 | ncardena   | Marketing  | Central-363  |
|       1154 | y765z123a548 | obryand    | Marketing  | North-182    |
|       1156 | a184b775c707 | dellery    | Marketing  | East-417     |
|       1160 | e127f591g924 | spham      | Marketing  | West-353     |
|       1163 | h679i515j339 | cwilliam   | Marketing  | East-216     |
|       1165 | j713k893l832 | nwords     | Marketing  | South-128    |
|       1166 | k4951234m708 | nyoung     | Marketing  | Central-397  |
|       1167 | l738m922n515 | tblackwe   | Marketing  | North-443    |
|       1172 | q372r826s628 | akhan      | Marketing  | Central-360  |
|       1173 | r537s849t690 | ialcazar   | Marketing  | South-429    |
|       1178 | w986x187y885 | nlannist   | Marketing  | North-196    |
|       1190 | NULL         | kcarter    | Marketing  | Central-270  |
|       1191 | NULL         | shakimi    | Marketing  | Central-366  |
|       1198 | q308r573s459 | jmartine   | Marketing  | South-117    |
+------------+--------------+------------+------------+--------------+
```

# Retrieve employees in Finance or Sales

**Code:**

```
->SELECT *
 ->FROM employees
->WHERE department = 'Finance' OR department = 'Sales'
 ->ORDER BY  department ;
```

**Description:** I changed the output to only be finance or sales department and ordered it by the department.

**Screenshot:**

```
+-------------+---------------+------------+------------+--------------+
| employee_id | device_id     | username   | department | office       |
+-------------+---------------+------------+------------+--------------+
|        1195 | n516o853p957  | orainier   | Finance    | East-346     |
|        1136 | g299h520i457  | jhawes     | Finance    | West-416     |
|        1122 | s103t952u851  | btorres    | Finance    | West-319     |
|        1105 | b551c837d758  | kmei       | Finance    | Central-232  |
|        1099 | v283w690x104  | anaser     | Finance    | West-357     |
|        1174 | s371t911u987  | eortiz     | Finance    | North-428    |
|        1083 | f840g812h544  | gkoshi     | Finance    | West-165     |
|        1081 | d647e310f618  | qcorbit    | Finance    | South-290    |
|        1076 | y347z204a710  | fgarcia    | Finance    | Central-270  |
|        1069 | NULL          | jpark      | Finance    | East-110     |
|        1138 | i671j355k725  | sromero    | Finance    | South-329    |
|        1142 | m674n127o823  | lsilva     | Finance    | East-440     |
|        1188 | g164h566i795  | noshiro    | Finance    | West-252     |
|        1187 | f963g637h851  | bbode      | Finance    | East-351     |
|        1181 | z803a233b718  | sessa      | Finance    | South-207    |
|        1175 | t959u687v394  | jclark2    | Finance    | North-194    |
|        1164 | i682j513k442  | fsmeltz    | Finance    | North-163    |
|        1159 | d881e710f732  | jshen      | Finance    | East-193     |
|        1148 | s328t505u907  | dharvey    | Finance    | South-181    |
|        1147 | r454s225t299  | tvega      | Finance    | West-177     |
|        1144 | NULL          | erobinso   | Finance    | Central-266  |
|        1062 | k367l639m697  | redwards   | Finance    | North-180    |
|        1050 | y132z930a114  | csimmons   | Finance    | North-468    |
|        1044 | s429t157u159  | tbarnes    | Finance    | West-415     |
|        1022 | w237x430y567  | arusso     | Finance    | West-465     |
|        1018 | s310t540u653  | abellmas   | Finance    | North-403    |
|        1017 | r550s824t230  | jclark     | Finance    | North-188    |
|        1015 | p611q262r945  | jsoto      | Finance    | North-271    |
|        1029 | d336e475f676  | ivelasco   | Finance    | East-156     |
|        1010 | k242l212m542  | jlansky    | Finance    | South-109    |
|        1045 | t567u844v434  | pwashing   | Finance    | East-115     |
|        1046 | u429v921w138  | daquino    | Finance    | West-280     |
|        1008 | i858j583k571  | abernard   | Finance    | South-170    |
|        1007 | h174i497j413  | wjaffrey   | Finance    | North-406    |
|        1049 | NULL          | jreckley   | Finance    | Central-295  |
|        1003 | d394e816f943  | sgilmore   | Finance    | South-153    |
|        1047 | v109w587x644  | cward      | Finance    | West-373     |
|        1048 | w167x592y375  | tmitchel   | Finance    | South-288    |
|        1025 | z381a365b233  | jhill      | Sales      | North-115    |
|        1039 | n253o917p623  | cjackson   | Sales      | East-378     |
|        1024 | y976z753a267  | iuduike    | Sales      | South-215    |
|        1130 | a317b635c465  | tsnow      | Sales      | Central-451  |
|        1176 | u849v569w521  | nliu       | Sales      | West-220     |
|        1186 | e281f433g404  | sacosta    | Sales      | North-460    |
|        1011 | l748m120n401  | drosas     | Sales      | South-292    |
|        1169 | NULL          | mmitchel   | Sales      | Central-250  |
|        1086 | i281j129k749  | lmajumda   | Sales      | West-499     |
|        1072 | u905v920w694  | esmith     | Sales      | East-421     |
|        1009 | NULL          | lrodriqu   | Sales      | South-134    |
|        1185 | d790e839f461  | revens     | Sales      | North-330    |
```

# Retrieve all employees not in IT

**Code:**
```
->SELECT *
->FROM employees
->WHERE department != 'Information Technology'
->ORDER BY username;
```

**Description:** This query is asking for all the employees that are not in IT department and it is ordered by username for clarity.

**Screenshot:**

```
+-------------+--------------+-----------------+----------------------+----------------+
| employee_id | device_id    | username        | department           | office         |
+-------------+--------------+-----------------+----------------------+----------------+
|        1018 | s310t540u653 | abellmas        | Finance              | North-403      |
|        1008 | i858j583k571 | abernard        | Finance              | South-170      |
|        1042 | q175r338s833 | acook           | Human Resources      | West-381       |
|        1028 | c603d749e374 | aestrada        | Human Resources      | West-121       |
|        1177 | v691w183x928 | aezra           | Human Resources      | East-190       |
|        1107 | d168e758f876 | akajwara        | Sales                | North-471      |
|        1172 | q372r826s628 | akhan           | Marketing            | Central-360    |
|        1134 | e395f616g566 | akhatri         | Human Resources      | West-159       |
|        1099 | v283w690x104 | anaser          | Finance              | West-357       |
|        1056 | e782f537g683 | ankala          | Marketing            | North-139      |
|        1026 | a998b568c863 | apatel          | Human Resources      | West-320       |
|        1140 | k982l199m839 | apatel2         | Human Resources      | East-385       |
|        1199 | r520s571t459 | areyes          | Human Resources      | East-100       |
|        1022 | w237x430y567 | arusso          | Finance              | West-465       |
|        1020 | u899v381w363 | arutley         | Marketing            | South-351      |
|        1179 | x174y934z376 | asalas          | Human Resources      | North-445      |
|        1055 | d831e972f553 | awilliam        | Marketing            | Central-256    |
|        1187 | f963g637h851 | bbode           | Finance              | East-351       |
|        1035 | j236k303l245 | bisles          | Sales                | South-171      |
|        1001 | b239c825d303 | bmoreno         | Marketing            | Central-276    |
|        1158 | c406d877e950 | bnaser          | Human Resources      | Central-243    |
|        1034 | i679j565k940 | bsand           | Human Resources      | East-484       |
|        1038 | m873n636o225 | btang           | Human Resources      | Central-260    |
|        1122 | s103t952u851 | btorres         | Finance              | West-319       |
|        1041 | p929q222r778 | cgriffin        | Sales                | North-208      |
|        1039 | n253o917p623 | cjackson        | Sales                | East-378       |
|        1124 | u340v931w764 | claw            | Human Resources      | Central-172    |
|        1141 | l282m821n717 | cochuba         | Human Resources      | South-282      |
|        1085 | h339i498j269 | cperez          | Sales                | East-325       |
|        1132 | c150d982e144 | creddy          | Human Resources      | Central-210    |
|        1050 | y132z930a114 | csimmons        | Finance              | North-468      |
|        1047 | v109w587x644 | cward           | Finance              | West-373       |
|        1163 | h679i515j339 | cwilliam        | Marketing            | East-216       |
|        1117 | n683o758p820 | dahmad          | Sales                | West-405       |
|        1046 | u429v921w138 | daquino         | Finance              | West-280       |
|        1156 | a184b775c707 | dellery         | Marketing            | East-417       |
|        1148 | s328t505u907 | dharvey         | Finance              | South-181      |
|        1031 | f419g188h578 | dkot            | Marketing            | West-408       |
|        1011 | l748m120n401 | drosas          | Sales                | South-292      |
|        1040 | o783p832q294 | dtarly          | Human Resources      | East-237       |
|        1064 | NULL         | ejones          | Marketing            | South-477      |
|        1123 | t479u468v151 | ekonya          | Human Resources      | South-445      |
|        1000 | a320b137c219 | elarson         | Marketing            | East-170       |
|        1139 | j637k986l199 | emorton         | Human Resources      | North-300      |
|        1174 | s371t911u987 | eortiz          | Finance              | North-428      |
|        1004 | e218f877g788 | eraab           | Human Resources      | South-127      |
|        1144 | NULL         | erobinso        | Finance              | Central-266    |
|        1072 | u905v920w694 | esmith          | Sales                | East-421       |
|        1093 | p765q957r699 | etargary        | Human Resources      | Central-247    |
|        1075 | x573y883z772 | fbautist        | Marketing            | East-267       |
|        1076 | y347z204a710 | fgarcia         | Finance              | Central-270    |
|        1164 | i682j513k442 | fsmeltz         | Finance              | North-163      |
|        1005 | f551g340h864 | gesparza        | Human Resources      | South-366      |
```

# Summary

This lab was to display my knowledge of SQL and how to form the query. I also used two different tables and used different types of filters and different ordering of the outputs.