Apply filters to SQL queries

Google Cybersecurity Cohort 2025 Completed by Carla Jacobsen

Project description

I learned about filtering through AND, OR, NOT operators. OR means it can be one or both of the arguments. AND means it must be both arguments. NOT means it can't be the argument.

Retrieve after hours failed login attempts

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

After hours: login_time > '18:00'

```
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     | 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 (0.109 sec)
```

Retrieve login attempts on specific dates

```
SELECT *
FROM log_in_attempts
WHERE login_date = '2022-05-09' OR login_date = '2022-05-08';
```
Login attempts today or the day before: login_date = '2022-05-09' OR login_date = '2022-05-08'

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> WHERE login_date = '2022-05-09' OR login_date = '2022-05-08';
+----------+----------+------------+------------+---------+-----------------+---------+
| 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 |
|        4 | dkot     | 2022-05-08 | 02:00:39   | USA     | 192.168.178.71  |       0 |
|        8 | bisles   | 2022-05-08 | 01:30:17   | US      | 192.168.119.173 |       0 |
|       12 | dkot     | 2022-05-08 | 09:11:34   | USA     | 192.168.100.158 |       1 |
|       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 |
|       26 | apatel   | 2022-05-08 | 17:27:00   | CANADA  | 192.168.123.105 |       1 |
|       28 | aestrada | 2022-05-09 | 19:28:12   | MEXICO  | 192.168.27.57   |       0 |
|       30 | yappiah  | 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 |
|       36 | asundara | 2022-05-08 | 09:00:42   | US      | 192.168.78.151  |       1 |
|       38 | sbaelish | 2022-05-09 | 14:40:01   | USA     | 192.168.60.42   |       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 |
|       43 | mcouliba | 2022-05-08 | 02:35:34   | CANADA  | 192.168.16.208  |       0 |
|       44 | daquino  | 2022-05-08 | 07:02:35   | CANADA  | 192.168.168.144 |       0 |
|       47 | dkot     | 2022-05-08 | 05:06:45   | US      | 192.168.233.24  |       1 |
|       49 | asundara | 2022-05-08 | 14:00:01   | US      | 192.168.173.213 |       0 |
|       53 | nmason   | 2022-05-08 | 11:51:38   | CAN     | 192.168.133.188 |       1 |
|       56 | acook    | 2022-05-08 | 04:56:30   | CAN     | 192.168.209.130 |       1 |
|       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 |
|       66 | aestrada | 2022-05-08 | 21:58:32   | MEX     | 192.168.67.223  |       1 |
|       67 | abernard | 2022-05-09 | 11:53:41   | MEX     | 192.168.118.29  |       1 |
|       68 | mrah     | 2022-05-08 | 17:16:13   | US      | 192.168.42.248  |       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 |
|       72 | alevitsk | 2022-05-08 | 12:09:10   | CANADA  | 192.168.139.176 |       1 |
|       79 | abernard | 2022-05-09 | 11:41:15   | MEX     | 192.168.158.170 |       0 |
|       80 | cjackson | 2022-05-08 | 02:18:10   | CANADA  | 192.168.33.140  |       1 |
|       83 | lrodriqu | 2022-05-08 | 08:10:23   | USA     | 192.168.67.69   |       1 |
|       87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153 |       0 |
|       90 | gesparza | 2022-05-09 | 00:49:05   | CANADA  | 192.168.87.201  |       0 |
|       92 | pwashing | 2022-05-08 | 00:36:12   | US      | 192.168.247.219 |       0 |
|       96 | ivelasco | 2022-05-09 | 22:36:36   | CAN     | 192.168.84.194  |       0 |
|       97 | jreckley | 2022-05-09 | 02:49:23   | MEXICO  | 192.168.32.231  |       1 |
```

```
|   101 | sbaelish | 2022-05-08 | 12:01:22 | US      | 192.168.145.158 |        0 |
|   102 | jreckley | 2022-05-09 | 16:51:44 | MEX     | 192.168.108.13  |        1 |
|   108 | daquino  | 2022-05-09 | 21:30:48 | CANADA  | 192.168.15.110  |        1 |
|   110 | mabadi   | 2022-05-09 | 00:01:54 | USA     | 192.168.90.124  |        1 |
|   112 | rjensen  | 2022-05-09 | 09:22:05 | MEX     | 192.168.69.116  |        1 |
|   117 | bsand    | 2022-05-08 | 00:19:11 | USA     | 192.168.197.187 |        0 |
|   120 | tmitchel | 2022-05-09 | 02:58:17 | MEXICO  | 192.168.134.62  |        0 |
|   127 | abellmas | 2022-05-09 | 21:20:51 | CANADA  | 192.168.70.122  |        0 |
|   128 | jclark   | 2022-05-09 | 10:45:59 | CANADA  | 192.168.122.169 |        0 |
|   131 | bisles   | 2022-05-09 | 20:03:55 | US      | 192.168.113.171 |        0 |
|   134 | iuduike  | 2022-05-09 | 06:46:40 | USA     | 192.168.22.115  |        1 |
|   135 | bsand    | 2022-05-09 | 14:06:33 | US      | 192.168.91.238  |        0 |
|   144 | daquino  | 2022-05-09 | 11:09:32 | CANADA  | 192.168.139.9   |        0 |
|   145 | ivelasco | 2022-05-08 | 09:06:02 | CANADA  | 192.168.39.196  |        1 |
|   147 | yappiah  | 2022-05-08 | 06:04:34 | MEX     | 192.168.65.245  |        0 |
|   148 | daquino  | 2022-05-08 | 06:15:55 | CANADA  | 192.168.135.6   |        1 |
|   150 | nmason   | 2022-05-08 | 14:40:02 | CAN     | 192.168.204.124 |        0 |
|   151 | mabadi   | 2022-05-09 | 16:29:46 | USA     | 192.168.30.225  |        1 |
|   158 | smartell | 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 |
|   163 | tmitchel | 2022-05-08 | 09:21:16 | MEX     | 192.168.119.29  |        0 |
|   165 | jreckley | 2022-05-08 | 15:28:43 | MEXICO  | 192.168.34.193  |        0 |
|   168 | jlansky  | 2022-05-08 | 13:25:42 | USA     | 192.168.210.94  |        1 |
|   169 | alevitsk | 2022-05-08 | 08:10:43 | CANADA  | 192.168.210.228 |        0 |
|   170 | sbaelish | 2022-05-09 | 16:43:18 | USA     | 192.168.65.113  |        0 |
|   172 | mabadi   | 2022-05-08 | 08:06:50 | US      | 192.168.180.41  |        1 |
|   178 | sgilmore | 2022-05-08 | 12:27:22 | CAN     | 192.168.52.216  |        0 |
|   184 | alevitsk | 2022-05-08 | 03:09:48 | CAN     | 192.168.33.70   |        0 |
|   186 | bisles   | 2022-05-09 | 04:29:17 | USA     | 192.168.40.72   |        0 |
|   187 | arusso   | 2022-05-09 | 00:36:26 | MEX     | 192.168.77.137  |        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 |
|   193 | lrodriqu | 2022-05-08 | 07:11:29 | US      | 192.168.125.240 |        0 |
|   197 | jsoto    | 2022-05-08 | 09:05:09 | US      | 192.168.36.21   |        0 |
+---------+----------+------------+----------+---------+-----------------+----------+
75 rows in set (0.002 sec)
```

Retrieve login attempts outside of Mexico

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

Login attempts outside of mexico: NOT country LIKE 'MEX%'

```
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 |
|       29 | bisles   | 2022-05-11 | 01:21:22   | US      | 192.168.85.186  |       0 |
|       31 | acook    | 2022-05-12 | 17:36:45   | CANADA  | 192.168.58.232  |       0 |
|       32 | acook    | 2022-05-09 | 02:52:02   | CANADA  | 192.168.142.239 |       0 |
|       33 | zbernal  | 2022-05-11 | 02:52:10   | US      | 192.168.72.59   |       1 |
|       34 | drosas   | 2022-05-11 | 21:02:04   | US      | 192.168.45.93   |       0 |
|       36 | asundara | 2022-05-08 | 09:00:42   | US      | 192.168.78.151  |       1 |
|       37 | eraab    | 2022-05-10 | 06:03:41   | CANADA  | 192.168.152.148 |       0 |
|       38 | sbaelish | 2022-05-09 | 14:40:01   | USA     | 192.168.60.42   |       1 |
|       41 | apatel   | 2022-05-10 | 17:39:42   | CANADA  | 192.168.46.207  |       0 |
|       42 | cgriffin | 2022-05-09 | 23:04:05   | US      | 192.168.4.157   |       0 |
|       43 | mcouliba | 2022-05-08 | 02:35:34   | CANADA  | 192.168.16.208  |       0 |
|       44 | daquino  | 2022-05-08 | 07:02:35   | CANADA  | 192.168.168.144 |       0 |
|       45 | dtanaka  | 2022-05-11 | 10:28:54   | US      | 192.168.223.157 |       1 |
|       46 | eraab    | 2022-05-11 | 11:29:27   | CAN     | 192.168.24.12   |       0 |
|       47 | dkot     | 2022-05-08 | 05:06:45   | US      | 192.168.233.24  |       1 |
|       48 | asundara | 2022-05-11 | 03:18:45   | USA     | 192.168.72.10   |       1 |
|       49 | asundara | 2022-05-08 | 14:00:01   | US      | 192.168.173.213 |       0 |
|       50 | jclark   | 2022-05-10 | 10:48:02   | CANADA  | 192.168.174.117 |       0 |
```

Retrieve employees in Marketing

```
SELECT *
FROM employees
WHERE department = 'Marketing' AND office LIKE 'East%';
```

Offices in the east building: office LIKE 'East%'

Employees in the marketing department: department = 'Marketing'

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

SELECT *
FROM employees
WHERE department = 'Sales' OR department = 'Finance';

Employee is in either sales or finance department: department = 'Sales' OR department = 'Finance'

```
MariaDB [organization]> SELECT *
    -> FROM employees
    -> WHERE department = 'Sales' OR department = 'Finance';
+-------------+--------------+------------+------------+-------------+
| 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 | k242l212m542 | 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 | 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    |
```

Retrieve all employees not in IT

```
SELECT *
FROM employees
WHERE NOT department LIKE 'Information Technology';
```

Outside of the IT department: NOT department LIKE 'Information Technology'

```
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     |
+-------------+---------------+-----------+-------------------+---------------+
```

Summary

I used the OR, NOT, AND operators to filter the outputs from the tables. They are huge tables so it's very important to be able to only show what information I need.