# Apply filters to SQL queries

### **Project description**

In this project I will be taking the role as a security professional on team with the task of reviewing some data tables. I will be using keywords such as AND, OR, NOT, LIKE, and % to filter the data from differing tables to achieve the task at hand.

## Retrieve after hours failed login attempts

log\_in\_attempts by failed login attempts made after 6:00 P.M.

A potential security risk was identified on failed login attempts made after business hours and needed further investigation. To do this I filtered all of the columns in the table

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 | 2022-05-10 | 20:27:27 192.168.205.12 0 2 | apatel CAN 18 | pwashing | 2022-05-11 | 0 19:28:50 US 192.168.66.142 | 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 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 192.168.58.57 192.168.100.17 69 | wjaffrey | 2022-05-11 | 19:55:15 0 USA 82 | abernard | 2022-05-12 | 23:38:46 MEX 192.168.234.49 0 2022-05-08 22:38:31 CANADA 192.168.132.153 0 apatel ivelasco | 2022-05-09 | 22:36:36 192.168.84.194 0 96 CAN US 104 asundara | 2022-05-11 | 18:38:07 192.168.96.200 0 107 bisles 2022-05-12 20:25:57 USA 192.168.116.187 0 22:00:26 111 | aestrada | 2022-05-10 | 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 | 2022-05-12 192,168,236,176 0 22:18:42 USA 2022-05-10 160 jclark 20:49:00 CANADA 192.168.214.49 0 | MEXICO 192.168.44.232 199 I yappiah 2022-05-11 | 19:34:48 rows in set (0.040 sec)

## Retrieve login attempts on specific dates

A suspicious event occurred on May 9<sup>th</sup> 2022 and to further investigate this we looked for login attempts made on this day and the day before. To do this I filtered the data within the

log\_in\_attempts tabled by those two dates.

AriaDB [crganization]> SELECT * -> FROM log in attempts	9=	table a state of the state of						
event_id   username   login_date   login_time   country   ip_address   success	MariaDB [org	ganization]>	SELECT *					
event_id   username   login_date   login_time   country   ip_address   success	-> FROM	log_in_atte	empts					
1   jrafeel   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   dkot   2022-05-08   02:00:39   USA   192.168.151.162   1   dkot   2022-05-08   02:00:39   USA   192.168.151.162   1   dkot   2022-05-08   09:11:34   USA   192.168.119.173   0   12   dkot   2022-05-08   09:11:34   USA   192.168.100.158   1   15   lyamamot   2022-05-09   06:49:39   USA   192.168.183.51   0   12   dkot   2022-05-09   06:49:39   MEXICO   192.168.171.192   1   25   shaelish   2022-05-09   06:49:39   MEXICO   192.168.171.192   1   25   shaelish   2022-05-09   07:40:20   US   192.168.31.317   1   26   apatel   2022-05-09   07:40:20   US   192.168.27.57   0   1   28   acestrada   2022-05-09   09:28:12   MEXICO   192.168.27.57   0   30   yappiah   2022-05-09   09:25:202   CANADA   192.168.123.105   1   32   accok   2022-05-09   03:22:22   MEX   192.168.124.48   1   32   accok   2022-05-09   03:22:22   MEX   192.168.142.239   0   36   asundara   2022-05-09   07:56:40   US   192.168.168.142.239   0   36   asundara   2022-05-09   07:56:40   US   192.168.042   1   39   yappiah   2022-05-09   07:56:40   US   192.168.042   1   1   39   yappiah   2022-05-09   07:56:40   US   192.168.042   1   4   4   4   4   4   4   4   4   4								
3   dkot	event_id	username	login_date	login_time	country	ip_address	success	
3   dkot	1 1	irafael	2022-05-09	04:56:27	CAN	192.168.243.140	1 1	
4   dkot   2022-05-08   02:00:39   USA   192.168.178.71   0   12   dkot   2022-05-08   01:30:17   US   192.168.119.173   0   12   dkot   2022-05-08   09:11:34   USA   192.168.110.0158   1   15   lyamamot   2022-05-09   17:17:26   USA   192.168.130.151   0   24   arusso   2022-05-09   06:49:39   MEXICO   192.168.183.51   0   24   arusso   2022-05-09   07:04:02   US   192.168.33.137   1   25   sbaelish   2022-05-08   17:27:00   CANADA   192.168.123.105   1   28   aestrada   2022-05-09   07:04:02   US   192.168.123.105   1   28   aestrada   2022-05-09   03:22:22   MEXICO   192.168.27.57   0   30   yappiah   2022-05-09   03:22:22   MEXICO   192.168.123.105   1   32   acook   2022-05-09   03:22:22   CANADA   192.168.124.48   1   32   acook   2022-05-09   07:56:40   MEXICO   192.168.124.48   1   32   acook   2022-05-09   07:56:40   MEXICO   192.168.78.151   1   38   sbaelish   2022-05-09   07:56:40   MEXICO   192.168.57.115   1   39   yappiah   2022-05-09   23:04:05   US   192.168.57.115   1   42   cgriffin   2022-05-08   07:02:35   CANADA   192.168.60.42   1   42   cgriffin   2022-05-08   07:02:35   CANADA   192.168.4157   0   43   mcouliba   2022-05-08   07:02:35   CANADA   192.168.4157   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.4157   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.233.24   1   49   asundara   2022-05-08   07:06:45   US   192.168.233.24   1   49   asundara   2022-05-08   07:06:45   US   192.168.33.188   1   56   acook   2022-05-08   17:51:38   CAN   192.168.33.188   1   56   acook   2022-05-08   17:51:38   CAN   192.168.33.188   1   56   acook   2022-05-09   07:45:18   USA   192.168.33.188   1   56   acook   2022-05-08   17:16:13   US   192.168.33.188   1   56   acook   2022-05-08   17:16:13   US   192.168.33.188   1   56   acook   2022-05-08   06:57:42   USA   192.168.33.140   1   1   meouliba   2022-05-08   06:57:42   USA   192.168.33.140   1   1   68   mrah   2022-05-08   06:57:42   USA   192.168.33.140   1   1   68   mrah   2022-05-08   06:57:42   CAN   192.168	- 1	_				•		
B   bisles								
12   dkot	- 1							
15   lyamamot   2022-05-09   17:17:26								
24   arusso   2022-05-09   06:49:39   MEXICO   192.168.171.192   1   25   shaelish   2022-05-09   17:27:00   CANADA   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   MEXK   192.168.124.48   1   32   acook   2022-05-09   02:52:02   CANADA   192.168.142.239   0   36   asundara   2022-05-09   02:52:02   CANADA   192.168.142.239   0   36   asundara   2022-05-09   07:56:40   USA   192.168.60.42   1   1   39   yappiah   2022-05-09   07:56:40   MEXICO   192.168.57.115   1   42   cgriffin   2022-05-09   07:56:40   MEXICO   192.168.57.115   1   42   cgriffin   2022-05-09   07:56:40   USA   192.168.60.42   1   1   39   yappiah   2022-05-08   02:33:34   CANADA   192.168.16.208   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.16.208   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.16.208   0   44   daquino   2022-05-08   14:00:01   US   192.168.133.144   0   49   asundara   2022-05-08   14:00:01   US   192.168.173.213   0   1   49   asundara   2022-05-08   14:00:01   US   192.168.133.188   1   1   56   acook   2022-05-08   04:56:30   CAN   192.168.133.188   1   56   acook   2022-05-09   17:20:54   CAN   192.168.52.37   1   66   aestrada   2022-05-09   23:42:12   MEX   192.168.52.37   1   66   aestrada   2022-05-09   17:20:54   CAN   192.168.52.37   1   66   aestrada   2022-05-09   17:50:53   MEX   192.168.52.37   1   66   aestrada   2022-05-09   17:50:13   MEX   192.168.15.23   1     1     1     1     1     1   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   03:22:22   MEX   192.168.124.48   1   32   acook   2022-05-08   09:00:42   US   192.168.124.48   1   32   acook   2022-05-09   02:52:02   CANADA   192.168.18.151   1   1   1   1   1   1   1   1   1		_						
26   apatel   2022-05-08   17:27:00   CANADA   192.168.123.105   1   28   aestrada   2022-05-09   19:28:12   MEXTCO   192.168.27.57   0   30   yappiah   2022-05-09   03:22:22   MEXX   192.168.124.48   1   32   acook   2022-05-09   02:52:02   CANADA   192.168.124.48   1   32   acook   2022-05-09   02:52:02   CANADA   192.168.142.239   0   36   asundara   2022-05-09   14:40:01   USA   192.168.78.151   1   38   sbaelish   2022-05-09   14:40:01   USA   192.168.60.42   1   1   1   1   1   1   1   1   1								
28   aestrada   2022-05-09   19:28:12   MEXICO   192.168.27.57   0   30   yappiah   2022-05-09   03:22:22   MEX   192.168.124.48   1   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   07:56:40   MEXICO   192.168.57.115   1   42   Cgriffin   2022-05-09   02:35:34   CANADA   192.168.46.157   0   43   mcouliba   2022-05-08   07:02:35   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   14:00:01   US   192.168.173.213   0   53   nmason   2022-05-08   14:00:01   US   192.168.173.213   0   53   nmason   2022-05-08   14:00:01   US   192.168.133.188   1   56   acook   2022-05-08   04:56:30   CAN   192.168.209.130   1   58   ivelasco   2022-05-09   09:45:18   USA   192.168.52.37   1   66   aestrada   2022-05-09   13:20:54   CAN   192.168.52.37   1   66   aestrada   2022-05-09   13:20:54   CAN   192.168.52.37   1   66   aestrada   2022-05-09   13:58:32   MEX   192.168.67.223   1   67   abernard   2022-05-09   17:20:54   CAN   192.168.57.32   1   66   aestrada   2022-05-09   17:20:54   CAN   192.168.57.37   1   66   aestrada   2022-05-08   17:56:32   MEX   192.168.67.223   1   67   abernard   2022-05-09   13:51:71   MEX   192.168.57.19   1   1   mcouliba   2022-05-08   17:16:13   US   192.168.87.199   1   71   mcouliba   2022-05-08   17:16:13   US   192.168.87.199   1   71   mcouliba   2022-05-08   12:09:10   CANADA   192.168.87.199   1   71   mcouliba   2022-05-08   02:18:10   CANADA   192.168.87.199   1   71   mcouliba   2022-05-08   02:18:10   CANADA   192.168.87.199   1   1   1   1   1   1   1   1   1								
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   2022-05-09   02:52:02   CANADA   192.168.142.239   0   36   asundara   2022-05-09   09:00:42   US   192.168.48.151   1   38   sbaelish   2022-05-09   14:40:01   USA   192.168.60.42   1   39   yappiah   2022-05-09   07:56:40   MEXICO   192.168.60.42   1   39   yappiah   2022-05-09   07:56:40   MEXICO   192.168.65.7.115   1   42   cgriffin   2022-05-09   23:04:05   US   192.168.45.7   0   43   mcouliba   2022-05-08   02:35:34   CANADA   192.168.16.208   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.16.208   0   44   daquino   2022-05-08   05:06:45   US   192.168.233.24   1   49   asundara   2022-05-08   14:00:01   US   192.168.233.24   1   49   asundara   2022-05-08   14:00:01   US   192.168.173.213   0   53   mmason   2022-05-08   04:56:30   CAN   192.168.173.213   0   56   acook   2022-05-08   04:56:30   CAN   192.168.209.130   1   58   ivelasco   2022-05-09   09:45:18   USA   192.168.57.162   0   61   dtanaka   2022-05-09   23:42:12   MEX   192.168.57.162   0   61   dtanaka   2022-05-09   23:42:12   MEX   192.168.67.223   1   66   acetrada   2022-05-08   17:16:13   US   192.168.67.223   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   68   mrah   2022-05-08   17:16:13   US   192.168.158.170   0   72   alevitsk   2022-05-08   02:18:10   CANADA   192.168.158.170   0   72   alevitsk   2022-05-08   02:18:10   CANADA   192.168.133.140   1   1   1   33   lrodriqu   2022-05-08   02:18:10   CANADA   192.168.133.140   1   1   1   35aelish   2022-05-09   22:36:36   CAN   192.168.84.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.84.194   0   97   jreckley   2022-05-09   10:49:23   MEXICO   192.168.84.194   0   97   jreckley   2022-05-09   12:30:48   CANADA   192.168.105.11   1   1   10   mabadi   2022-05-09   10:150:44   MEX   192.168.105.11   1   1   1   1		_						
32   acook   2022-05-09   02:52:02   CANADA   192.168.78.151   1   36   asundara   2022-05-08   09:00:42   US   192.168.78.151   1   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   2022-05-08   02:35:34   CANADA   192.168.41.57   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   192.168.133.188   1   56   acook   2022-05-08   14:50:38   CAN   192.168.133.188   1   56   acook   2022-05-08   04:56:30   CAN   192.168.293.30   1   58   ivelasco   2022-05-09   09:45:18   USA   192.168.57.162   0   61   dtanaka   2022-05-09   23:42:12   MEX   192.168.57.162   0   66   aestrada   2022-05-09   17:20:54   CAN   192.168.57.37   1   66   aestrada   2022-05-09   17:53:41   MEX   192.168.67.223   1   67   abernard   2022-05-09   17:55:17   MEXICO   192.168.77.29   1   68   mrah   2022-05-09   17:55:17   MEXICO   192.168.79.19   1   1   70   tmitchel   2022-05-09   16:55:42   CAN   192.168.153.140   1   79   abernard   2022-05-08   06:57:42   CAN   192.168.153.140   1   1   79   abernard   2022-05-08   06:57:42   CAN   192.168.153.140   1   1   79   abernard   2022-05-08   06:57:42   CAN   192.168.153.140   1   1   79   abernard   2022-05-08   08:10:23   USA   192.168.153.140   1   1   1   1   1   1   1   1   1								
36   asundara   2022-05-08   09:00:42   US								
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   192.168.57.115   1   42   cgriffin   2022-05-08   02:35:34   CANADA   192.168.16.208   0   44   daquino   2022-05-08   07:02:35   CANADA   192.168.16.208   0   47   dkot   2022-05-08   05:06:45   US   192.168.233.24   1   49   asundara   2022-05-08   14:00:01   US   192.168.168.144   0   53   nmason   2022-05-08   14:00:01   US   192.168.173.213   0   53   nmason   2022-05-08   14:51:38   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   07:20:54   CAN   192.168.57.162   0   61   dtanaka   2022-05-09   09:45:18   USA   192.168.57.162   0   61   dtanaka   2022-05-09   23:42:12   MEX   192.168.57.37   1   66   aestrada   2022-05-09   23:42:12   MEX   192.168.57.37   1   66   aestrada   2022-05-09   17:56:32   MEX   192.168.67.223   1   67   abernard   2022-05-09   17:56:13   US   192.168.67.223   1   67   abernard   2022-05-09   10:55:17   MEXICO   192.168.79.199   1   71   mcouliba   2022-05-09   10:55:17   MEXICO   192.168.139.176   1   79   abernard   2022-05-08   12:09:10   CANADA   192.168.139.176   1   79   abernard   2022-05-08   12:09:10   CANADA   192.168.33.140   1   83   1rodriqu   2022-05-08   08:10:23   USA   192.168.67.69   1   1   83   1rodriqu   2022-05-08   08:10:23   USA   192.168.79.201   0   96   yesparza   2022-05-08   00:36:12   US   192.168.87.201   0   96   ivelasco   2022-05-08   10:36:36   CAN   192.168.87.201   0   96   ivelasco   2022-05-09   10:49:05   CANADA   192.168.87.201   0   97   preckley   2022-05-08   12:01:22   US   192.168.87.201   0   1   96   ivelasco   2022-05-09   10:49:05   CANADA   192.168.87.201   0   1   96   ivelasco   2022-05-08   22:36:36   CAN   192.168.132.153   0   1   1   1   1   1   2021-05-09   10:51:44   MEX   192.168.151.10   1   1   1   1   1   1   1   1   1					US			
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   192.168.233.24   1   49   asundara   2022-05-08   14:00:01   US   192.168.173.213   0   53   masson   2022-05-08   14:51:38   CAN   192.168.233.188   1   56   acook   2022-05-08   04:56:30   CAN   192.168.209.130   1   58   ivelasco   2022-05-09   04:56:30   CAN   192.168.209.130   1   58   ivelasco   2022-05-09   09:45:18   USA   192.168.57.162   0   61   dtanaka   2022-05-09   23:42:12   MEX   192.168.57.162   0   66   aestrada   2022-05-09   23:42:12   MEX   192.168.67.223   1   66   aestrada   2022-05-08   21:58:32   MEX   192.168.67.223   1   67   abernard   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   10:55:17   MEXICO   192.168.55.169   0   72   alevitsk   2022-05-08   12:09:10   CANADA   192.168.55.169   0   72   alevitsk   2022-05-08   06:57:42   CAN   192.168.55.169   0   72   alevitsk   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   Irodriqu   2022-05-08   02:18:10   CANADA   192.168.58.170   0   80   cjackson   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   Irodriqu   2022-05-08   02:18:10   CANADA   192.168.33.140   1   87   apatel   2022-05-08   22:38:31   CANADA   192.168.87.201   0   96   ivelasco   2022-05-08   02:49:23   MEXICO   192.168.87.201   0   97   jreckley   2022-05-08   10:36:44   MEX   192.168.132.153   0   10   10   mabadi   2022-05-09   10:51:44   MEX   192.168.15.151   1   1   10   mabadi   2022-05-09   10:51:44   MEX   192.168.15.151   1   1   10   mabadi   2022-05-09   10:01:54   USA   192.168.90.124   1	1 38 i	sbaelish	2022-05-09	14:40:01	USA		1 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   192.168.173.213   0   56   acook   2022-05-08   04:56:30   CAN   192.168.299.130   1   58   ivelasco   2022-05-09   17:20:54   CAN   192.168.299.130   1   58   ivelasco   2022-05-09   09:45:18   USA   192.168.52.37   1   65   aalonso   2022-05-09   21:58:32   MEX   192.168.52.37   1   66   aestrada   2022-05-09   21:58:32   MEX   192.168.67.223   1   66   aestrada   2022-05-09   11:53:41   MEX   192.168.67.223   1   68   mrah   2022-05-09   10:55:17   MEXICO   192.168.87.199   1   70   tmitchel   2022-05-09   10:55:17   MEXICO   192.168.87.199   1   71   mcouliba   2022-05-09   12:58:32   CAN   192.168.133.176   1   79   abernard   2022-05-09   12:58:10   CANADA   192.168.139.176   1   79   abernard   2022-05-09   12:58:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-09   12:05:17   MEXICO   192.168.53.3140   1   83   lrodriqu   2022-05-08   22:38:31   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   02:38:31   CANADA   192.168.87.201   0   90   geaparza   2022-05-08   02:38:31   CANADA   192.168.87.201   0   90   geaparza   2022-05-08   12:09:10   CANADA   192.168.87.201   0   90   geaparza   2022-05-08   22:38:31   CANADA   192.168.87.201   0   90   geaparza   2022-05-08   12:09:22   US   192.168.87.201   0   90   geaparza   2022-05-08   12:09:22   US   192.168.87.201   0   90   geaparza   2022-05-09   12:36:36   CAN   192.168.87.201   0   90   geaparza   2022-05-09   12:36:36   CAN   192.168.80.33   1   1   101   sbaelish   2022-05-09   16:55:144   MEX   192.168.108.13   1   1	39 i				MEXICO			
43								
44   daquino					CANADA		0 1	
47   dkot		daquino			CANADA			
49   asundara   2022-05-08   14:00:01   US	47	_	2022-05-08		US		1 1	
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   192.168.57.162   1   65   aalonso   2022-05-09   23:42:12   MEX   192.168.52.37   1   66   aestrada   2022-05-08   21:58:32   MEX   192.168.52.37   1   67   abernard   2022-05-09   11:53:41   MEX   192.168.67.223   1   68   mrah   2022-05-08   17:16:13   US   192.168.118.29   1   68   mrah   2022-05-09   10:55:17   MEXICO   192.168.42.248   1   70   tmitchel   2022-05-09   10:55:17   MEXICO   192.168.87.199   1   71   mcouliba   2022-05-09   10:55:17   MEXICO   192.168.55.169   0   72   alevitsk   2022-05-09   11:41:15   MEX   192.168.139.176   1   79   abernard   2022-05-09   11:41:15   MEX   192.168.139.176   1   79   abernard   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   02:18:10   CANADA   192.168.70:09   1   87   apatel   2022-05-08   02:38:31   CANADA   192.168.70:01   0   92   pwashing   2022-05-08   00:36:12   US   192.168.87.201   0   96   ivelasco   2022-05-09   00:49:05   CANADA   192.168.87.201   0   97   jreckley   2022-05-09   12:49:23   MEXICO   192.168.84.194   0   97   jreckley   2022-05-09   12:49:23   MEXICO   192.168.132.153   0   101   sbaelish   2022-05-09   12:49:23   MEXICO   192.168.145.158   0   102   jreckley   2022-05-09   16:51:44   MEX   192.168.108.13   1   108   daquino   2022-05-09   16:51:44   MEX   192.168.108.13   1   108   daquino   2022-05-09   16:51:44   MEX   192.168.90.124   1	49	asundara	2022-05-08		US		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   66   aestrada   2022-05-08   21:58:32   MEX   192.168.67.223   1   67   abernard   2022-05-09   11:53:41   MEX   192.168.67.223   1   68   mrah   2022-05-09   11:53:41   MEX   192.168.418.29   1   68   mrah   2022-05-09   10:55:17   MEXICO   192.168.47.199   1   70   tmitchel   2022-05-09   10:55:17   MEXICO   192.168.47.199   1   71   mcouliba   2022-05-09   06:57:42   CAN   192.168.55.169   0   72   alevitsk   2022-05-08   12:09:10   CANADA   192.168.55.169   0   72   alevitsk   2022-05-08   12:09:10   CANADA   192.168.139.176   1   79   abernard   2022-05-08   02:18:10   CANADA   192.168.139.176   1   80   cjackson   2022-05-08   08:10:23   USA   192.168.33.140   1   83   Irodriqu   2022-05-08   08:10:23   USA   192.168.67.69   1   87   apatel   2022-05-08   22:38:31   CANADA   192.168.33.140   1   83   Irodriqu   2022-05-08   08:10:23   USA   192.168.7.201   0   90   gesparza   2022-05-08   00:49:05   CANADA   192.168.87.201   0   92   pwashing   2022-05-08   00:36:12   US   192.168.87.201   0   96   ivelasco   2022-05-09   02:49:23   MEXICO   192.168.84.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.32.231   1   101   sbaelish   2022-05-09   16:51:44   MEX   192.168.15.110   1   108   daquino   2022-05-09   21:30:48   CANADA   192.168.15.110   1	53	nmason	2022-05-08	11:51:38	CAN		1	
61    dtanaka	56	acook	2022-05-08	04:56:30	CAN	192.168.209.130	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   192.168.57.169   0   72   alevitsk   2022-05-08   12:09:10   CANADA   192.168.139.176   1   79   abernard   2022-05-09   11:41:15   MEX   192.168.139.176   1   79   abernard   2022-05-08   02:18:10   CANADA   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   192.168.67.69   1   87   apatel   2022-05-08   00:49:05   CANADA   192.168.87.201   0   92   pwashing   2022-05-08   00:36:12   US   192.168.87.201   0   92   pwashing   2022-05-08   00:36:12   US   192.168.247.219   0   96   ivelasco   2022-05-09   02:49:23   MEXICO   192.168.84.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.84.194   0   97   jreckley   2022-05-09   02:49:23   MEXICO   192.168.84.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.132.158   0   102   jreckley   2022-05-09   16:51:44   MEX   192.168.13.13   1   108   daquino   2022-05-09   16:51:44   MEX   192.168.108.13   1   108   daquino   2022-05-09   16:51:44   MEX   192.168.15.110   1   108   daquino   2022-05-09   16:51:44   MEX   192.168.90.124   1	58	ivelasco	2022-05-09	17:20:54	CAN	192.168.57.162	0	
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   2022-05-08   12:09:10   CANADA   192.168.139.176   1   79   abernard   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   08:10:23   USA   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   2022-05-08   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   2022-05-09   16:51:44   MEX   192.168.145.158   0   102   jreckley   2022-05-09   21:30:48   CANADA   192.168.15.110   1   108   daquino   2022-05-09   21:30:48   CANADA   192.168.15.110   1	61	dtanaka	2022-05-09	09:45:18	USA	192.168.98.221	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   192.168.139.176   1   80   cjackson   2022-05-08   02:18:10   CANADA   192.168.33.140   1   83   lrodriqu   2022-05-08   08:10:23   USA   192.168.67.69   1   87   apatel   2022-05-08   22:38:31   CANADA   192.168.33.140   1   90   gesparza   2022-05-08   02:49:05   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   02:49:23   MEXICO   192.168.34.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.34.194   0   97   jreckley   2022-05-08   12:01:22   US   192.168.145.158   0   102   jreckley   2022-05-09   16:51:44   MEX   192.168.145.158   0   102   jreckley   2022-05-09   21:30:48   CANADA   192.168.15.110   1   108   daquino   2022-05-09   00:01:54   USA   192.168.90.124   1	65	aalonso	2022-05-09	23:42:12	MEX	192.168.52.37	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   192.168.67.69   1   90   gesparza   2022-05-08   22:38:31   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   02:49:23   MEXICO   192.168.32.231   1   101   sbaelish   2022-05-09   16:51:44   MEX   192.168.108.13   1   108   daquino   2022-05-09   21:30:48   CANADA   192.168.90.124   1	66	aestrada	2022-05-08	21:58:32	MEX	192.168.67.223	1	
To   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   192.168.67.69   1   90   gesparza   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   192.168.90.124   1	67	abernard	2022-05-09	11:53:41	MEX	192.168.118.29	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   192.168.67.69   1   90   gesparza   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   192.168.90.124   1	68	mrah	2022-05-08	17:16:13	US	192.168.42.248	1	
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   192.168.90.124   1	70	tmitchel	2022-05-09	10:55:17	MEXICO	192.168.87.199	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   192.168.90.124   1	71	mcouliba	2022-05-09	06:57:42	CAN	192.168.55.169	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	72	alevitsk	2022-05-08	12:09:10	CANADA	192.168.139.176	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	79	abernard	2022-05-09	11:41:15	MEX	192.168.158.170	0	
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	80	cjackson	2022-05-08	02:18:10	CANADA	192.168.33.140	1	
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	83	lrodriqu	2022-05-08	08:10:23	USA	192.168.67.69	1	
92   pwashing   2022-05-08   00:36:12   US   192.168.247.219   0   96   ivelasco   2022-05-09   22:36:36   CAN   192.168.84.194   0   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	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   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	90	gesparza	2022-05-09	00:49:05	CANADA	192.168.87.201	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	92	pwashing	2022-05-08	00:36:12	US	192.168.247.219	0	
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	96	ivelasco	2022-05-09	22:36:36	CAN	192.168.84.194	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	97	jreckley	2022-05-09	02:49:23	MEXICO	192.168.32.231	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	101	sbaelish	2022-05-08	12:01:22	US	192.168.145.158	0	
110   mabadi   2022-05-09   00:01:54   USA   192.168.90.124   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	
112   rjensen   2022-05-09   09:22:05   MEX   192.168.69.116   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	

# Retrieve login attempts outside of Mexico

Suspicious login attempts have been made and were determined to not originate from Mexico. To investigate further I filtered all of the data in the <code>log\_in\_attempts</code> table where

the country was not Mexico by using the NOT operator and % wildcard.

MariaDB [org	ranization1	> SELECT *				
	log in atte					
		ry LIKE "MEX%'	•			
-> ;		7				
++		+			+	+
event_id	username	login_date	login_time	country	ip_address	success
+		+			<b>!</b>	
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		2022-05-08	09:11:34	USA	192.168.100.158	1
13		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		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
51	jrafael	2022-05-10	22:40:01	CANADA	192.168.148.115	1
52	cjackson	2022-05-10	22:07:07	CAN	192.168.58.57	0
53	nmason	2022-05-08	11:51:38	CAN	192.168.133.188	1
55	jlansky	2022-05-11	05:15:34	US	192.168.6.170	0

# Retrieve employees in Marketing

My team wants to perform security updates for specific employees in the Marketing Department. To begin this process, I filtered all of the data from the employees table by the Marketing department and who were a part of the East building. I did this by using a combination of the AND, LIKE, and % operators.

```
MariaDB [organization] > SELECT *
    -> FROM employees
    -> WHERE department = "Marketing" and office LIKE "East%";
  employee id | device id
                             | username | department | office
         1000 | a320b137c219 | elarson
                                       | Marketing
         1052 | a192b174c940 | jdarosa
                                        | Marketing
                                                      | East-195
         1075 | x573y883z772 | fbautist | Marketing
         1088 | k8651965m233 | rgosh
                                        | Marketing
         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

Continuing from the last request, my team now needs to perform security detailing on employees in the Sales and Finance department. To do this I filtered the data from the employees table by using the OR operator to find employees from both the Finance and 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
                                                    | South-292
        1011 | 1748m120n401 | drosas | Sales
        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
                                      Finance
        1047 | v109w587x644 | cward
                                                    | West-373
        1048 | w167x592y375 | tmitchel | Finance
                                                    South-288
        1049 | NULL
                      | jreckley | Finance
                                                    | Central-295
        1050 | y132z930a114 | csimmons | Finance
                                                    | North-468
        1057 | f370q535h632 | mscott | Sales
                                                    | South-270
        1062 | k3671639m697 | redwards | Finance
                                                    | North-180
        1063 | 1686m140n569 | 1pope | Sales
                                                    | East-226
        1066 | o678p794q957 | ttyrell | Sales
                                                    | Central-444
        1069 | NULL | jpark | Finance
1071 | t244u829v723 | zdutchma | Sales
                                                    | East-110
                                                    West-348
        1072 | u905v920w694 | esmith | Sales
1076 | y347z204a710 | fgarcia | Finance
                                                    East-421
                                                    | 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 | 1358m929n154 | jpark2 | Sales
                                                    | West-251
        1091 | n378o313p469 | rtran | Sales
                                                    | Central-230 |
        1092 | o391p779q935 | lpark
                                      Sales
                                                    | West-227
                                                    | North-423
        1098 | u671v146w618 | tarchamb | Sales
        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
```

### Retrieve all employees not in IT

Finally, my team needs to make one more update to employee machines, however the IT department staff have already gotten this update. To find the employees who need this update I filtered the data from the employees table by those who are not in 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
        1003 | d394e816f943 | sgilmore | Finance
                                                          | South-153
             | e218f877g788 | eraab | Human Resources | South-127 | f551g340h864 | gesparza | Human Resources | South-366
        1004
        1005 |
        1007 | h174i497j413 | wjaffrey | Finance
                                                          | North-406
        1008 | i858j583k571 | abernard | Finance
                                                          | South-170
        1009 | NULL
                             | lrodriqu | Sales
                                                          | South-134
        1010 | k2421212m542 | jlansky | Finance
                                                         | South-109
                                                         | South-292
        1011 | 1748m120n401 | drosas
                                        | Sales
                                                          | North-271
        1015 | p611q262r945 | jsoto
                                         Finance
        1016 | q793r736s288
                            | sbaelish |
                                          Human Resources | North-229
        1017
               r550s824t230 |
                                          Finance
                                                          | North-188
                              jclark
        1018 | s310t540u653 |
                              abellmas |
                                         Finance
                                                          | North-403
        1020 | u899v381w363 | arutley | Marketing
                                                         | South-351
        1022 | w237x430y567 | arusso
                                        Finance
                                                         | West-465
        1024 | y976z753a267 | iuduike | Sales
                                                         South-215
                                      | Sales
        1025 | z381a365b233 | jhill
1026 | a998b568c863 | apatel
                                                          | North-115
                                      | 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
        1031 | f419g188h578 | dkot | Marketing
                                                          | West-408
                                      | Human Resources | East-484
        1034 | i679j565k940 | bsand
             | j236k3031245 |
                                                         | South-171
        1035
                              bisles
                                        Sales
        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
               u429v921w138 | daquino
                                         Finance
                                                            West-280
        1046
                                         Finance
        1047
               v109w587x644 | cward
                                                          | West-373
               w167x592y375 | tmitchel | Finance
        1048 |
                                                          | South-288
        1049 |
               NULL
                              jreckley |
                                         Finance
                                                            Central-295
        1050 |
               y132z930a114 |
                              csimmons |
                                          Finance
                                                            North-468
        1051 | z451a308b518 | itraora | Marketing
                                                          | Central-134
```

#### Summary

In this project I've successfully practiced more hands on work with filtering data from large data tables in order to get what I need from them.