Apply filters to SQL queries

Project description

In this project I am using operators to filter my return results.

Retrieve after hours failed login attempts

I selected to return all login attempts with the filters of 18:00 and success of 0, indicating that it was a failed attempt. I was then displayed 19 rows of failed login attempts.

Retrieve login attempts on specific dates

```
ariaDB [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
                         | 2022-05-08 | 02:00:39
| 2022-05-08 | 01:30:17
           bisles
             lyamamot
              sbaelish
              aestrada
                                                            MEX
CANADA
              yappiah
acook
              sbaelish
              yappiah |
cgriffin |
                                                            CANADA
                                                           CAN
                                                            CAN
USA
              dtanaka
```

I used the command "where login_date =" plus "or login_date= " to filter between 2 dates, 2022-05-09 and 2022-05-08.

Retrieve login attempts outside of Mexico

	log_in_atte not countr	ry = 'mex%';		+	+	+	
nt_id	username	login_date	login_time	country	ip_address +	success	
1	jrafael	2022-05-09	04:56:27	CAN	192.168.243.140	1 1	
2	apatel	2022-05-10	20:27:27	CAN	192.168.205.12	0 1	1
3	dkot	2022-05-09	06:47:41	USA	192.168.151.162	1 1	
4	dkot	2022-05-08	02:00:39	USA	192.168.178.71	0 1	
5	jrafael	2022-05-11	03:05:59	CANADA	192.168.86.232	0	
6	arutley	2022-05-12		MEXICO	192.168.3.24	0	
7	eraab	2022-05-11		CAN	192.168.170.243		
8	bisles	2022-05-08	01:30:17	US	192.168.119.173		
9	yappiah	2022-05-11	13:47:29	MEX	192.168.59.136	1 1	
10	jrafael	2022-05-12	09:33:19	CANADA	192.168.228.221	. 0 1	
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 1	
13	mrah	2022-05-11	09:29:34	USA	192.168.246.135	1 1	·
14	sbaelish	2022-05-10	10:20:18	US	192.168.16.99	1 1	
15	lyamamot	2022-05-09	17:17:26	USA	192.168.183.51	. 0 1	
16	mcouliba	2022-05-11	06:44:22	CAN	192.168.172.189	1 1	
17	pwashing	2022-05-11	02:33:02	USA	192.168.81.89	1 1	
18	pwashing	2022-05-11	19:28:50	US	192.168.66.142	0 1	
19	jhill	2022-05-12	13:09:04	US	192.168.142.245	1 1	
20	tshah	2022-05-12	18:56:36	MEXICO	192.168.109.50	0 1	
21	iuduike	2022-05-11	17:50:00	US	192.168.131.147	1 1	
22	rjensen	2022-05-11	00:59:26	MEX	192.168.213.128	0 1	
23	yappiah	2022-05-10	18:11:53	MEXICO	192.168.200.48	1 1	
24	arusso	2022-05-09	06:49:39	MEXICO	192.168.171.192	1 1	
25	sbaelish	2022-05-09	07:04:02	US	192.168.33.137	1 1	
26	apatel	2022-05-08	17:27:00	CANADA	192.168.123.105	1 1	
27	aalonso	2022-05-10	01:55:35	MEX	192.168.103.210	0 1	
28	aestrada	2022-05-09	19:28:12	MEXICO	192.168.27.57	0 1	

In this one I used the command "not" to return all primary keys that do not include "mex". I filtered it by using Where not country = 'mex%'

Retrieve employees in Marketing

Here I filtered for department and office location. Using, Where department = 'marketing' and office like 'East%'

Retrieve employees in Finance or Sales

```
MariaDB [organization] > select *
                   -> from employees
-> where department= 'finance' or department= 'sales';
          employee_id | device_id | username | department | office
                                              1003 | d394e816f943 | sgilmore | Finance
1007 | h174i497j413 | wjaffrey | Finance
1008 | 1858j583k571 | abernard | Finance
1009 | NULL | lrodriqu | Sales
                                                                                                                                                                                                                                                                                                | South-170
| South-134
                                            | Finance
| Sales
                                                                                                                                                                                                                                                                                                 South-109
South-292
                                                                                                                                                                                                                        | Finance
| Finance
                                                                                                                                                                                                                                                                                                     North-271
North-188
                                                                                                                                                                                                                        | Finance
| Finance
                                                                                                                                                                                                                                                                                                      North-403
West-465
                                                                                                                                                                                                                                 Sales
                                                                                                                                                                                                                                                                                                      South-215
North-115
                                                                                                                                                                                                                                 Sales
                                                                                                                                                                                                                                Finance
Sales
                                                                                                                                                                      ivelasco
                                                                                                                                                                                                                                                                                                      East-156
                                        | Disles | D
                                                                                                                                                                                                                                                                                                       South-171
                                                                                                                                                                                                                                 Sales
                                                                                                                                                                                                                                                                                                | East-378
| North-208
                                                                                                                                                                                                                                Finance
Finance
                                                                                                                                                                                                                                                                                                      West-415
East-115
                                                                                                                                                                                                                         Finance
                                                                                                                                                                                                                                                                                                      West-280
                                                                                                                                                                   tmitchel | Finance
jreckley | Finance
                                                                                                                                                                                                                                                                                                      South-288
                                                                                    y132z930a114 |
f370g535h632 |
                                                                                                                                                                                                                                                                                                       North-468
                                                                                                                                                                      csimmons |
                                                                                                                                                                                                                                Finance
```

Here I used filters to return all that had finance or sales consisted in their "departments". Using the filter where department = 'finance' or department = 'sales'

Retrieve all employees not in IT

```
ariaDB [organization]> select
     -> from employees
-> where not department = 'Information technology';
 employee id | device id | username | department
                                                                                                                         | office
               | Marketing | Central-276
| Human Resources | North-434
                                                             | Human Resources
| Gesparsa | Human Resources
| Wjaffrey | Finance
| abernard | Finance
| Irodriqu | Sales
| Jlansky
                1008 | 1858j583k571 |
1009 | NULL
                                                                                                                         | South-170
| South-134
                1010 | k2421212m542
1011 | 1748m120n401
                                                                                      Finance
Sales
                                                                                                                         | South-109
| South-292
                                                               drosas
               1011 | 1748m120n401 | drosas

1015 | p611q262r945 | jsoto

1016 | q793r736s288 | sbaelis

1017 | r550s824t230 | jclark

1018 | s310t540u653 | abellma

1020 | u899v381w363 | arutley

1022 | w237x430y567 | arusso

1024 | y976z753a267 | iuduik

1025 | z381a365b233 | bill
                                                               jsoto
sbaelish
                                                                                      Finance | North-271
Human Resources | North-229
                                                               jclark
abellmas
                                                                                                                         | North-188
| North-403
                                                                                      Finance
                                                                                      Marketing
Finance
                                                                                                                         | South-351
| West-465
                                                              iuduike
jhill
                                                                                    | Sales
| Sales
                                                                                                                         | South-215
| North-115
                | 1026 | a998b568c863 | apatel | Human Resources | West-220 | 1027 | b806c503d354 | mrah | Marketing | West-246 | 1028 | c603d749e374 | aestrada | Human Resources | West-211 | 1029 | d336e475f676 | ivelasco | Finance | East-156 |
```

Using the filter, where not department = 'information technology'; filters out all employees that are included in the IT department.

Summary

Using filters when searching for data in the database will help find the information needed. It shortens the time to search for each individual thing and piece.