# Apply filters to SQL queries

## Project description

An organization recently discovered some potential security issues that involve login attempts and employee machines. The objective is to examine the organization’s data in their **employees** and **log\_in\_attempts** tables. Also to use SQL filters to retrieve records from different datasets and investigate the potential security issues.

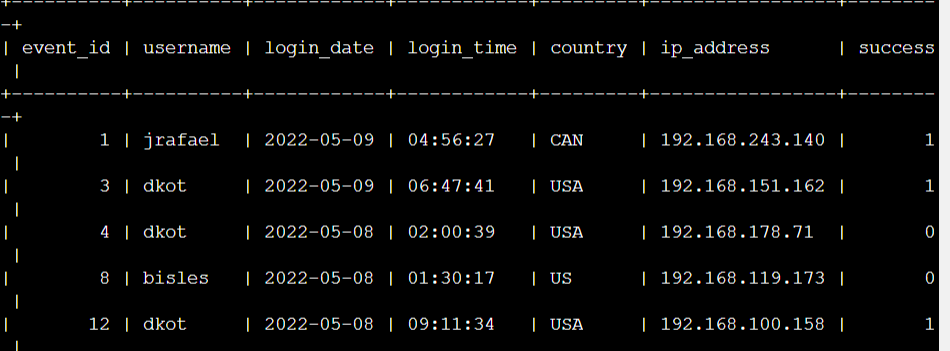
## Retrieve after hours failed login attempts

SELECT \* FROM log\_in\_attempts WHERE success=0 AND login\_time>’18:00:00’;



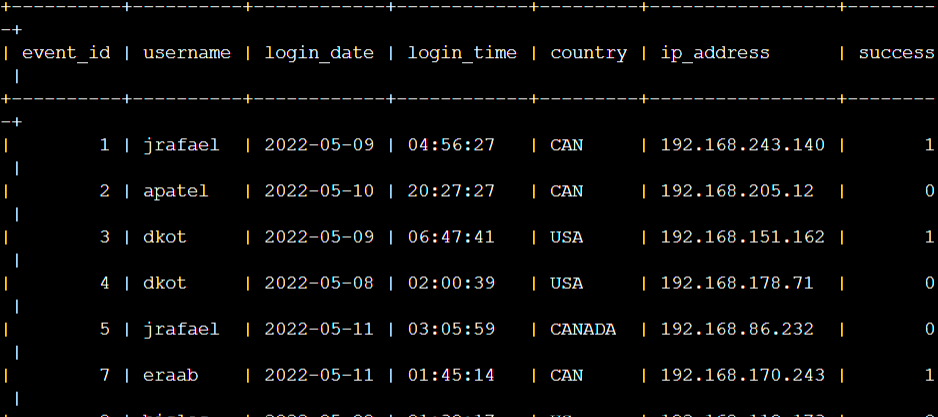
## Retrieve login attempts on specific dates

SELECT \* FROM log\_in\_attempts WHERE login\_date>=’2022-05-08’ AND login\_date<= ‘2022-05-09’;



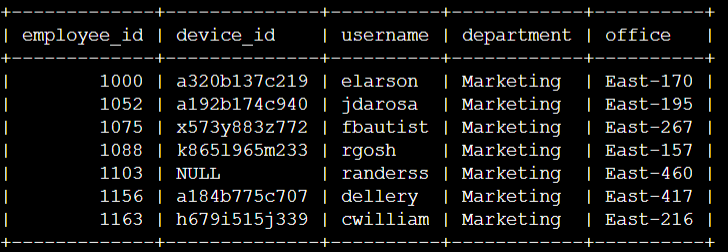
## Retrieve login attempts outside of Mexico

SELECT \* FROM log\_in\_attempts WHERE country NOT LIKE ‘MEX%’;



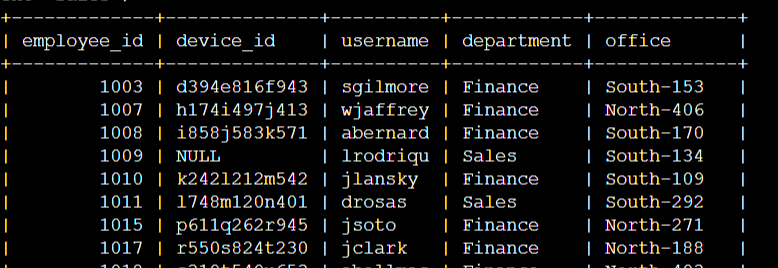
## Retrieve employees in Marketing

SELECT \* FROM employees WHERE department=’Marketing’ AND office LIKE ‘East%’;;



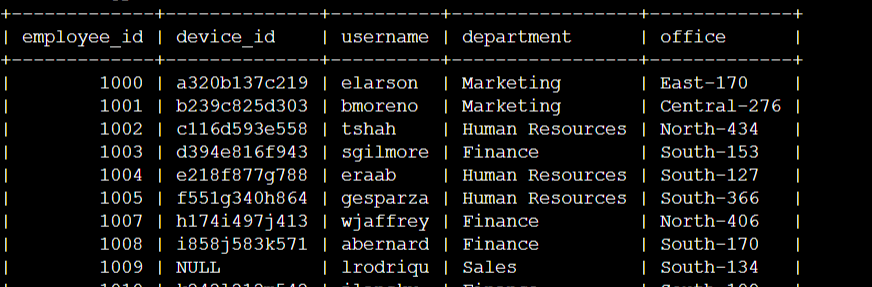
## Retrieve employees in Finance or Sales

SELECT \* FROM employees WHERE department=’Finance’ or department=’Sales’;



## Retrieve all employees not in IT

SELECT \* FROM employees WHERE department NOT LIKE ’Information Technology’;



## Summary

I applied filters to SQL queries to get specific information on login attempts and employee machines. I used two different tables, log\_in\_attempts and employees. I used the AND, OR, and NOT operators to filter for the specific information needed for each task. I also used LIKE and the percentage sign (%) wildcard to filter for patterns.