# Apply filters to SQL queries

## Project description

Our organization recently discovered some potential security issues that involve login attempts and employee machines. My task is to examine the organization’s data in their employees and log\_in\_attempts tables. I’ll need 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 login\_time > ‘18:00:00’ AND success = 0;

This query retrieves all failed login attempts which happened after 18:00.

## Retrieve login attempts on specific dates

SELECT \* FROM log\_in\_attempts WHERE login\_date = '2022-05-08' OR login\_date = '2022-05-09';

This query returns all login attempts that happened on the 8th or the 9th of may.

## Retrieve login attempts outside of Mexico

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

This query returns all login attempts where the country does not start with ‘MEX’.

## Retrieve employees in Marketing

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

This query selects all employees that work in the marketing department and are located in the east office.

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## Retrieve employees in Finance or Sales

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

This query returns all employees who work in the finance or sales department.

## Retrieve all employees not in IT

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

This query selects all employees except the ones that work in the IT department.

## Summary

These queries address various scenarios: examining login attempts, sorting employees by department and location, and pinpointing suspicious activities based on specific criteria. In summary, these SQL queries target security-related investigations by filtering log data for suspicious login attempts, querying employee information for targeted updates, and ensuring security measures for specific departments.