

Apply filters to SQL queries

Project description

Our organization has discovered that some potential threats like login attempts and employee machines have been breached. Our job is to investigate security issues to help keep the system secure.

Retrieve after hours failed login attempts

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

Retrieve login attempts on specific dates

```
SELECT *  
FROM log_in_attempts  
WHERE login_date = '2022-05-09' OR login_date > '2022-05-09';
```

Retrieve login attempts outside of Mexico

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

Retrieve employees in Marketing

```
SELECT *  
FROM employees  
WHERE department = 'marketing';
```

Retrieve employees in Finance or Sales

```
SELECT *  
FROM employees  
WHERE department = 'finances' OR department = 'sales';
```

Retrieve all employees not in IT

```
SELECT *  
FROM employees  
WHERE NOT department = IT;
```

Summary

In this project, I applied SQL filters to investigate suspicious login activity and identify specific employee groups that may require attention. I used the WHERE clause with comparison operators, logical operators (AND, OR, NOT), and pattern matching using LIKE. These filters helped isolate failed login attempts after business hours, logins from outside of Mexico, and department-specific employee data. This kind of filtering is essential for identifying threats and securing organizational systems.