

Apply filters to SQL queries

Project description

In this scenario, I investigate potential security issues related to login attempts and employee machines using SQL filters. By querying the organization's data stored in the employees and log_in_attempts tables, I aim to identify anomalies and suspicious patterns, contributing to the maintenance of system security.

Retrieve after hours failed login attempts

```
SELECT * FROM log_in_attempts WHERE login_time > '18:00' AND success = 0;
```

Retrieve login attempts on specific dates

```
SELECT * FROM log_in_attempts WHERE log_in_date <= '2022-05-09' OR '2022-05-08';
```

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';
```

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 <> 'Information Technology';
```

Summary

Using SQL filters, I've successfully addressed security concerns by investigating login attempts outside of Mexico and after business hours. These queries enabled targeted analysis of potential security breaches, aligning with my role as a security professional tasked with maintaining system integrity and safeguarding sensitive data.