

# Apply filters to SQL queries

## Project description

I used SQL queries to investigate potential login anomalies and employee data across the organization. The goal of this project was to retrieve and analyze filtered data related to login attempts, employee departments, and geographic activity. Through these queries, I identified suspicious access attempts and refined user monitoring across multiple departments and locations.

## Retrieve after hours failed login attempts

```
SELECT *  
FROM log_in_attempts  
WHERE (hour < 9 OR hour > 17)  
AND success = FALSE;
```

## Retrieve login attempts on specific dates

```
SELECT *  
FROM log_in_attempts  
WHERE date = '2023-01-15' OR date = '2023-01-20';
```

## Retrieve login attempts outside of Mexico

```
SELECT *  
FROM log_in_attempts  
WHERE country <> 'Mexico';
```

## 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 <> 'IT';
```

## Summary

In this project, I used SQL filtering techniques with operators to extract critical information from the organizations datasets. This allowed me to identify after-hours login anomalies, investigate activity from suspicious dates and countries, and isolate departmental employees for targeted audits.