# Apply filters to SQL queries

By Jovworie Tanshi

## Project description

**Objective**: Utilize SQL queries to investigate and retrieve specific information related to security issues involving login attempts and employee data.

### Retrieve after hours failed login attempts

**Task**: Identify failed login attempts occurring after business hours.

#### **SQL Query:**

SELECT \*

FROM log\_in\_attempts

WHERE TIME(login time) > '18:00:00' AND success = 0;

### Retrieve login attempts on specific dates

Task: Investigate login attempts on specific dates ('2022-05-08' and '2022-05-09').

#### **SQL Query**:

**SELECT\*** 

FROM log in attempts

WHERE login date IN ('2022-05-08', '2022-05-09');

### Retrieve login attempts outside of Mexico

Task: Find login attempts that did not originate in Mexico ('MEX' or 'MEXICO').

#### **SQL Query:**

**SELECT\*** 

FROM log\_in\_attempts

WHERE country NOT LIKE 'MEX%';

### Retrieve employees in Marketing

**Task**: Retrieve information about employees in the Marketing department.

#### **SQL Query:**

SELECT e.employee\_id, e.employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department name = 'Marketing';

#### Retrieve employees in Finance or Sales

Task: Retrieve information about employees in the Finance or Sales departments.

#### **SQL Query**:

SELECT e.employee\_id, e.employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department name IN ('Finance', 'Sales');

### Retrieve all employees not in IT

**Task**: Obtain information about employees who are not in the Information Technology department.

#### **SQL Query:**

SELECT e.employee\_id, e.employee\_name, d.department\_name FROM employees e JOIN departments d ON e.department\_id = d.department\_id WHERE d.department\_name != 'Information Technology';

# Summary

#### Summary

This project involves using SQL queries to:

• Investigate failed login attempts after business hours.

- Analyze login attempts on specific dates.
- Identify login attempts originating outside of Mexico.
- Retrieve employee information based on departmental criteria.

Each query is designed to extract specific data relevant to investigating potential security issues and understanding employee data across different departments.