Apply filters to SQL queries

Project description

Use SQL queries to obtain information about employees and investigate potential security threats by analyzing login attempts.

Retrieve after hours failed login attempts

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

Used AND to create a complex conditions, where both the login time and succes are used and to return all the failed login attempts after 18:00.

Retrieve login attempts on specific dates

SELECT * FROM log_in_attempts WHERE login_date = '2022-05-09' OR login_date = '2022-05-08';

This query retrieves login attempts on the specified dates '2022-05-09' and '2022-05-08' using the OR operator, since those conditions cannot be met simultaneously.

Retrieve login attempts outside of Mexico

SELECT * FROM log_in_attempts WHERE country NOT LIKE 'MEX%';

Useing the NOT LIKE operator, this query filters out login attempts originating from Mexico

Retrieve employees in Marketing

SELECT * FROM employees WHERE department = 'Marketing' AND office LIKE 'East%';

This query fetches information about employees in the 'Marketing' department located in offices in the East building, using AND to filter multiple conditions.

Retrieve employees in Finance or Sales

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

This query fetches information about employees in either the 'Finance' or 'Sales' department

Retrieve all employees not in IT

SELECT * FROM employees WHERE NOT department = 'Information Technology';

Using the NOT operator, this query fetches information on employees outside the 'Information Technology' department.

Summary

Investigated and analyzed failed login attempts after business hours, identified suspicious login activities on specific dates and retrieved employee data.