Apply filters to SQL queries

Project description

In this scenario, there seems to have been a security breach during business hours, and I was tasked with using SQL queries to check the after hours login activity.

Retrieve after hours failed login attempts

```
select * from log_in_attempts where success = FALSE and login_time >
"18:00";
```

This line of code will select all columns from the log_in_attempts table, and only present the entries that have the login time greater than 18:00 and where the login attempt was unsuccessful.

Retrieve login attempts on specific dates

```
select * from log_in_attempts where login_date = "2022-05-09" or
login date = "2022-05-08";
```

This code will select all the columns from the log_in_attempts table, and only return the entries where the login date is 2022-05-09 or 2022-05-08.

Retrieve login attempts outside of Mexico

```
SELECT * FROM log_in_attempts WHERE NOT country LIKE 'MEX%'; This line of code will do the same as above, but will only return all entries that do not contain the "MEX". The % is a wildcard indicating that there will be characters after the string.
```

Retrieve employees in Marketing

```
SELECT * FROM employees where department = "Marketing" and office
LIKE "East%";
```

This will select all columns from the employees table and return only the entries where their department is Marketing and the office is in the east.

Retrieve employees in Finance or Sales

```
SELECT * FROM employees where department = "Finance" OR department =
"Sales";
```

This will select all columns from the employees table and only return the entries where the department is Finance or Sales.

Retrieve all employees not in IT

```
SELECT * FROM employees where NOT department = "Information
Technology";
```

This will select all columns from the employees table and only return the entries where the department is not IT.

Summary

Each of these scenarios help with the understanding on how to query a database. These operators help with narrowing down searches and finding information that is useful to the user.