# Applying filters to SQL queries

Project description: Using SQL to perform security tasks.

1. Retrieving failed login attempts outside of business hours

2. Retrieving login attempts on specific dates

```
MariaDB [organization]> SELECT *
-> FROM log_in_attempts
-> WHERE login_date = '2022-05-09' OR login_date = '2022-05-08';

+----+
| event_id | username | login_date | login_time | country | ip_address | success |
+----+
| 1 | jrafael | 2022-05-09 | 04:56:27 | CAN | 192.168.243.140 | 0 |
| 3 | dkot | 2022-05-09 | 06:47:41 | USA | 192.168.151.162 | 0 |
| 4 | dkot | 2022-05-08 | 02:00:39 | USA | 192.168.178.71 | 0 |
```

3. Retrieving login attempts outside of Mexico

```
MariaDB [organization]> SELECT
   -> FROM log_in_attempts
   -> WHERE NOT country LIKE 'MEX%';
 event_id | username | login_date | login_time | country | ip_address
        1 | jrafael | 2022-05-09 | 04:56:27
                                                          192.168.243.140
                                                                                   0
        2 |
           apatel
                     | 2022-05-10 | 20:27:27
                                               CAN
                                                           192.168.205.12
                                                                                   0
                       2022-05-09 |
                                                 USA
                                                           192.168.151.162
                                   06:47:41
```

#### 4. Retrieving employees in the marketing department

#### 5. Retrieving employees in finance or sales departments

### 6. Retrieving all employees not in the IT department

## Summary

By using the correct filters in SQL it is possible to obtain detailed knowledge regarding different security events such as time of login attempts, and have a clear overview of the organisation's situation in order to proceed to effective measures.