Exécuter une requête SQL

Scénario

Dans ce scénario, vous allez identifier les appareils des employés qui doivent être mis à jour. Vous allez également analyser l'activité de connexion des utilisateurs afin de détecter toute activité inhabituelle.

Les informations dont vous avez besoin se trouvent dans les tables `machines` et `login_attempts` de la base de données `organization`.

Voici comment procéder : **tout d'abord**, récupérez les informations sur les appareils des employés qui doivent être mis à jour. **Ensuite**, examinez les tentatives de connexion pour détecter toute activité inhabituelle. **Enfin**, utilisez le mot clé `ORDER BY` pour trier les données renvoyées par vos requêtes SQL.

Tâche 1 : Récupérer les données des appareils des employés

Dans cette tâche, vous allez récupérer des informations sur les appareils des employés que votre équipe doit mettre à jour. Les informations dont vous avez besoin se trouvent dans la table `machines` de la base de données `organization`.

Tout d'abord, récupérez toutes les informations sur les appareils des employés.

1. Exécutez une requête pour sélectionner toutes les informations sur les appareils dans la table `machines`.
2. Exécutez une requête pour sélectionner uniquement les colonnes `device_id` et `email_client` de la table `machines`. Remplacez X par `device_id` et Y par `email_client`.
3. Complétez la requête pour renvoyer uniquement les colonnes `device_id`, `operating_system` et `OS_patch_date` de la table `machines`. Remplacez X, Y et Z par les colonnes que vous souhaitez renvoyer.

```
MariaDB [organization]> SELECT *
    -> FROM machines;
+--------------+------------------+----------------+---------------+-------------+
| device_id    | operating_system | email_client   | OS_patch_date | employee_id |
+--------------+------------------+----------------+---------------+-------------+
| a184b775c707 | OS 1             | Email Client 1 | 2021-09-01    |        1156 |
| a192b174c940 | OS 2             | Email Client 1 | 2021-06-01    |        1052 |
| a305b818c708 | OS 3             | Email Client 2 | 2021-06-01    |        1182 |
| a317b635c465 | OS 1             | Email Client 2 | 2021-03-01    |        1130 |
| a320b137c219 | OS 2             | Email Client 2 | 2021-03-01    |        1000 |
| a398b471c573 | OS 3             | Email Client 2 | 2021-12-01    |           0 |
| a667b270c984 | OS 1             | Email Client 1 | 2021-03-01    |        1078 |
| a821b452c176 | OS 2             | Email Client 1 | 2021-12-01    |        1104 |
| a998b568c863 | OS 3             | Email Client 1 | 2021-12-01    |        1026 |
| b157c491d493 | OS 2             | Email Client 1 | 2021-03-01    |           0 |
| b239c825d303 | OS 1             | Email Client 1 | 2021-03-01    |        1001 |
| b264c773d977 | OS 2             | Email Client 2 | 2021-03-01    |        1157 |
| b265c937d713 | OS 2             | Email Client 1 | 2021-09-01    |        1131 |
| b433c245d868 | OS 1             | Email Client 1 | 2021-06-01    |        1079 |
| b551c837d758 | OS 3             | Email Client 1 | 2021-03-01    |        1105 |
| b566c710d544 | OS 1             | Email Client 1 | 2021-06-01    |        1183 |
| b806c503d354 | OS 2             | Email Client 1 | 2021-12-01    |        1027 |
| b979c871d361 | OS 2             | Email Client 1 | 2021-03-01    |        1053 |
| c116d593e558 | OS 3             | Email Client 1 | 2021-09-01    |        1002 |
| c150d982e144 | OS 2             | Email Client 2 | 2021-06-01    |        1132 |
| c185d679e493 | OS 1             | Email Client 2 | 2021-09-01    |           0 |
| c406d877e950 | OS 2             | Email Client 1 | 2021-06-01    |        1158 |
| c547d140e477 | OS 2             | Email Client 1 | 2021-03-01    |        1054 |
| c568d742e974 | OS 2             | Email Client 2 | 2021-09-01    |        1080 |
| c597d792e215 | OS 2             | Email Client 1 | 2021-09-01    |        1106 |
| c603d749e374 | OS 1             | Email Client 1 | 2021-12-01    |        1028 |
| c986d200e170 | OS 2             | Email Client 2 | 2021-09-01    |        1184 |
| d168e758f876 | OS 2             | Email Client 1 | 2021-09-01    |        1107 |
| d280e557f635 | OS 3             | Email Client 1 | 2021-03-01    |           0 |
| d336e475f676 | OS 2             | Email Client 2 | 2021-06-01    |        1029 |
| d394e816f943 | OS 3             | Email Client 2 | 2021-03-01    |        1003 |
| d647e310f618 | OS 2             | Email Client 2 | 2021-06-01    |        1081 |
| d693e351f221 | OS 2             | Email Client 2 | 2021-09-01    |        1133 |
| d790e839f461 | OS 1             | Email Client 1 | 2021-06-01    |        1185 |
| d831e972f553 | OS 1             | Email Client 1 | 2021-09-01    |        1055 |
| d881e710f732 | OS 3             | Email Client 2 | 2021-03-01    |        1159 |
| e113f288g203 | OS 2             | Email Client 2 | 2021-03-01    |        1108 |
| e121f951g937 | OS 3             | Email Client 2 | 2021-06-01    |           0 |
| e127f591g924 | OS 3             | Email Client 2 | 2021-12-01    |        1160 |
| e218f877g788 | OS 2             | Email Client 1 | 2021-09-01    |        1004 |
| e281f433g404 | OS 1             | Email Client 2 | 2021-12-01    |        1186 |
| e301f659g551 | OS 3             | Email Client 2 | 2021-12-01    |        1082 |
| e391f189g913 | OS 3             | Email Client 2 | 2021-12-01    |        1030 |
```

```
MariaDB [organization]> SELECT device_id, email_client
    -> FROM machines;
+--------------+----------------+
| device_id    | email_client   |
+--------------+----------------+
| a184b775c707 | Email Client 1 |
| a192b174c940 | Email Client 1 |
| a305b818c708 | Email Client 2 |
| a317b635c465 | Email Client 2 |
| a320b137c219 | Email Client 2 |
| a398b471c573 | Email Client 2 |
| a667b270c984 | Email Client 1 |
| a821b452c176 | Email Client 2 |
| a998b568c863 | Email Client 1 |
| b157c491d493 | Email Client 1 |
| b239c825d303 | Email Client 1 |
| b264c773d977 | Email Client 2 |
| b265c937d713 | Email Client 1 |
| b433c245d868 | Email Client 1 |
| b551c837d758 | Email Client 1 |
| b566c710d544 | Email Client 1 |
| b806c503d354 | Email Client 1 |
| b979c871d361 | Email Client 1 |
| c116d593e558 | Email Client 1 |
| c150d982e144 | Email Client 2 |
| c185d679e493 | Email Client 2 |
| c406d877e950 | Email Client 1 |
| c547d140e477 | Email Client 1 |
| c568d742e974 | Email Client 2 |
| c597d792e215 | Email Client 1 |
| c603d749e374 | Email Client 1 |
| c986d200e170 | Email Client 2 |
| d168e758f876 | Email Client 1 |
| d280e557f635 | Email Client 1 |
| d336e475f676 | Email Client 2 |
| d394e816f943 | Email Client 2 |
| d647e310f618 | Email Client 2 |
| d693e351f221 | Email Client 2 |
| d790e839f461 | Email Client 1 |
| d831e972f553 | Email Client 1 |
| d881e710f732 | Email Client 2 |
| e113f288g203 | Email Client 2 |
| e121f951g937 | Email Client 2 |
| e127f591g924 | Email Client 2 |
```

```
MariaDB [organization]> SELECT device_id, operating_system, OS_patch_date
    -> FROM machines;
+--------------+------------------+---------------+
| device_id    | operating_system | OS_patch_date |
+--------------+------------------+---------------+
| a184b775c707 | OS 1             | 2021-09-01    |
| a192b174c940 | OS 2             | 2021-06-01    |
| a305b818c708 | OS 3             | 2021-06-01    |
| a317b635c465 | OS 1             | 2021-03-01    |
| a320b137c219 | OS 2             | 2021-03-01    |
| a398b471c573 | OS 3             | 2021-12-01    |
| a667b270c984 | OS 1             | 2021-03-01    |
| a821b452c176 | OS 2             | 2021-12-01    |
| a998b568c863 | OS 3             | 2021-12-01    |
| b157c491d493 | OS 2             | 2021-03-01    |
| b239c825d303 | OS 1             | 2021-03-01    |
| b264c773d977 | OS 2             | 2021-03-01    |
| b265c937d713 | OS 2             | 2021-09-01    |
| b433c245d868 | OS 1             | 2021-06-01    |
| b551c837d758 | OS 3             | 2021-03-01    |
| b566c710d544 | OS 1             | 2021-06-01    |
| b806c503d354 | OS 2             | 2021-12-01    |
| b979c871d361 | OS 2             | 2021-03-01    |
| c116d593e558 | OS 3             | 2021-09-01    |
| c150d982e144 | OS 2             | 2021-06-01    |
| c185d679e493 | OS 1             | 2021-09-01    |
| c406d877e950 | OS 2             | 2021-06-01    |
| c547d140e477 | OS 2             | 2021-03-01    |
| c568d742e974 | OS 2             | 2021-09-01    |
| c597d792e215 | OS 2             | 2021-09-01    |
| c603d749e374 | OS 1             | 2021-12-01    |
| c986d200e170 | OS 2             | 2021-09-01    |
| d168e758f876 | OS 2             | 2021-09-01    |
| d280e557f635 | OS 3             | 2021-03-01    |
| d336e475f676 | OS 2             | 2021-06-01    |
| d394e816f943 | OS 3             | 2021-03-01    |
| d647e310f618 | OS 2             | 2021-06-01    |
| d693e351f221 | OS 2             | 2021-09-01    |
| d790e839f461 | OS 1             | 2021-06-01    |
| d831e972f553 | OS 1             | 2021-09-01    |
| d881e710f732 | OS 3             | 2021-03-01    |
| e113f288g203 | OS 2             | 2021-03-01    |
| e121f951g937 | OS 3             | 2021-06-01    |
| e127f591g924 | OS 3             | 2021-12-01    |
| e218f877g788 | OS 2             | 2021-09-01    |
| e281f433g404 | OS 1             | 2021-12-01    |
| e301f659g551 | OS 3             | 2021-12-01    |
```

Tâche 2 : Analyser l'activité de connexion

Dans cette tâche, vous allez analyser les informations de la table `log_in_attempts` pour détecter toute activité inhabituelle.

Tout d'abord, analysez l'emplacement des tentatives de connexion pour déterminer s'il se trouve dans une zone normale (États-Unis, Canada ou Mexique).

1. Écrivez une requête SQL pour sélectionner les colonnes `event_id` et `country` de la table `log_in_attempts`.
2. Écrivez une requête SQL pour sélectionner les colonnes `username`, `login_date` et `login_time` de la table `log_in_attempts`.

3. Écrivez une requête SQL pour sélectionner toutes les colonnes de la table `log_in_attempts` en utilisant un seul symbole après le mot clé `SELECT`.

```
MariaDB [organization]> SELECT event_id, country
    -> FROM log_in_attempts;
+----------+----------+
| event_id | country  |
+----------+----------+
|        1 | CAN      |
|        2 | CAN      |
|        3 | USA      |
|        4 | USA      |
|        5 | CANADA   |
|        6 | MEXICO   |
|        7 | CAN      |
|        8 | US       |
|        9 | MEX      |
|       10 | CANADA   |
|       11 | CANADA   |
|       12 | USA      |
|       13 | USA      |
|       14 | US       |
|       15 | USA      |
|       16 | CAN      |
|       17 | USA      |
|       18 | US       |
|       19 | US       |
|       20 | MEXICO   |
|       21 | US       |
|       22 | MEX      |
|       23 | MEXICO   |
|       24 | MEXICO   |
|       25 | US       |
|       26 | CANADA   |
|       27 | MEX      |
|       28 | MEXICO   |
|       29 | US       |
|       30 | MEX      |
|       31 | CANADA   |
|       32 | CANADA   |
|       33 | US       |
|       34 | US       |
|       35 | MEX      |
|       36 | US       |
|       37 | CANADA   |
|       38 | USA      |
|       39 | MEXICO   |
|       40 | MEX      |
|       41 | CANADA   |
|       42 | US       |
```

```
FROM log_in_attempts' at line 5
MariaDB [organization]> SELECT username, login_date, login_time
    -> FROM log_in_attempts;
+----------+------------+------------+
| username | login_date | login_time |
+----------+------------+------------+
| jrafael  | 2022-05-09 | 04:56:27   |
| apatel   | 2022-05-10 | 20:27:27   |
| dkot     | 2022-05-09 | 06:47:41   |
| dkot     | 2022-05-08 | 02:00:39   |
| jrafael  | 2022-05-11 | 03:05:59   |
| arutley  | 2022-05-12 | 17:00:59   |
| eraab    | 2022-05-11 | 01:45:14   |
| bisles   | 2022-05-08 | 01:30:17   |
| yappiah  | 2022-05-11 | 13:47:29   |
| jrafael  | 2022-05-12 | 09:33:19   |
| sgilmore | 2022-05-11 | 10:16:29   |
| dkot     | 2022-05-08 | 09:11:34   |
| mrah     | 2022-05-11 | 09:29:34   |
| sbaelish | 2022-05-10 | 10:20:18   |
| lyamamot | 2022-05-09 | 17:17:26   |
| mcouliba | 2022-05-11 | 06:44:22   |
| pwashing | 2022-05-11 | 02:33:02   |
| pwashing | 2022-05-11 | 19:28:50   |
| jhill    | 2022-05-12 | 13:09:04   |
| tshah    | 2022-05-12 | 18:56:36   |
| iuduike  | 2022-05-11 | 17:50:00   |
| rjensen  | 2022-05-11 | 00:59:26   |
| yappiah  | 2022-05-10 | 18:11:53   |
| arusso   | 2022-05-09 | 06:49:39   |
| sbaelish | 2022-05-09 | 07:04:02   |
| apatel   | 2022-05-08 | 17:27:00   |
| aalonso  | 2022-05-10 | 01:55:35   |
| aestrada | 2022-05-09 | 19:28:12   |
| bisles   | 2022-05-11 | 01:21:22   |
| yappiah  | 2022-05-09 | 03:22:22   |
| acook    | 2022-05-12 | 17:36:45   |
| acook    | 2022-05-09 | 02:52:02   |
| zbernal  | 2022-05-11 | 02:52:10   |
| drosas   | 2022-05-11 | 21:02:04   |
| tshah    | 2022-05-10 | 15:26:08   |
| asundara | 2022-05-08 | 09:00:42   |
| eraab    | 2022-05-10 | 06:03:41   |
| sbaelish | 2022-05-09 | 14:40:01   |
| yappiah  | 2022-05-09 | 07:56:40   |
| aalonso  | 2022-05-12 | 15:15:46   |
| apatel   | 2022-05-10 | 17:39:42   |
| cgriffin | 2022-05-09 | 23:04:05   |
```

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts;
+----------+----------+------------+------------+---------+-----------------+---------+
| event_id | username | login_date | login_time | country | ip_address      | success |
+----------+----------+------------+------------+---------+-----------------+---------+
|        1 | jrafael  | 2022-05-09 | 04:56:27   | CAN     | 192.168.243.140 |       1 |
|        2 | apatel   | 2022-05-10 | 20:27:27   | CAN     | 192.168.205.12  |       0 |
|        3 | dkot     | 2022-05-09 | 06:47:41   | USA     | 192.168.151.162 |       1 |
|        4 | dkot     | 2022-05-08 | 02:00:39   | USA     | 192.168.178.71  |       0 |
|        5 | jrafael  | 2022-05-11 | 03:05:59   | CANADA  | 192.168.86.232  |       0 |
|        6 | arutley  | 2022-05-12 | 17:00:59   | MEXICO  | 192.168.3.24    |       0 |
|        7 | eraab    | 2022-05-11 | 01:45:14   | CAN     | 192.168.170.243 |       1 |
|        8 | bisles   | 2022-05-08 | 01:30:17   | US      | 192.168.119.173 |       0 |
|        9 | yappiah  | 2022-05-11 | 13:47:29   | MEX     | 192.168.59.136  |       1 |
|       10 | jrafael  | 2022-05-12 | 09:33:19   | CANADA  | 192.168.228.221 |       0 |
|       11 | sgilmore | 2022-05-11 | 10:16:29   | CANADA  | 192.168.140.81  |       0 |
|       12 | dkot     | 2022-05-08 | 09:11:34   | USA     | 192.168.100.158 |       1 |
|       13 | mrah     | 2022-05-11 | 09:29:34   | USA     | 192.168.246.135 |       1 |
|       14 | sbaelish | 2022-05-10 | 10:20:18   | US      | 192.168.16.99   |       1 |
|       15 | lyamamot | 2022-05-09 | 17:17:26   | USA     | 192.168.183.51  |       0 |
|       16 | mcouliba | 2022-05-11 | 06:44:22   | CAN     | 192.168.172.189 |       1 |
|       17 | pwashing | 2022-05-11 | 02:33:02   | USA     | 192.168.81.89   |       1 |
|       18 | pwashing | 2022-05-11 | 19:28:50   | US      | 192.168.66.142  |       0 |
|       19 | jhill    | 2022-05-12 | 13:09:04   | US      | 192.168.142.245 |       1 |
|       20 | tshah    | 2022-05-12 | 18:56:36   | MEXICO  | 192.168.109.50  |       0 |
|       21 | iuduike  | 2022-05-11 | 17:50:00   | US      | 192.168.131.147 |       1 |
|       22 | rjensen  | 2022-05-11 | 00:59:26   | MEX     | 192.168.213.128 |       0 |
|       23 | yappiah  | 2022-05-10 | 18:11:53   | MEXICO  | 192.168.200.48  |       1 |
|       24 | arusso   | 2022-05-09 | 06:49:39   | MEXICO  | 192.168.171.192 |       1 |
|       25 | sbaelish | 2022-05-09 | 07:04:02   | US      | 192.168.33.137  |       1 |
|       26 | apatel   | 2022-05-08 | 17:27:00   | CANADA  | 192.168.123.105 |       1 |
|       27 | aalonso  | 2022-05-10 | 01:55:35   | MEX     | 192.168.103.210 |       0 |
|       28 | aestrada | 2022-05-09 | 19:28:12   | MEXICO  | 192.168.27.57   |       0 |
|       29 | bisles   | 2022-05-11 | 01:21:22   | US      | 192.168.85.186  |       0 |
|       30 | yappiah  | 2022-05-09 | 03:22:22   | MEX     | 192.168.124.48  |       1 |
|       31 | acook    | 2022-05-12 | 17:36:45   | CANADA  | 192.168.58.232  |       0 |
|       32 | acook    | 2022-05-09 | 02:52:02   | CANADA  | 192.168.142.239 |       0 |
|       33 | zbernal  | 2022-05-11 | 02:52:10   | US      | 192.168.72.59   |       1 |
|       34 | drosas   | 2022-05-11 | 21:02:04   | US      | 192.168.45.93   |       0 |
|       35 | tshah    | 2022-05-10 | 15:26:08   | MEX     | 192.168.92.147  |       0 |
|       36 | asundara | 2022-05-08 | 09:00:42   | US      | 192.168.78.151  |       1 |
|       37 | eraab    | 2022-05-10 | 06:03:41   | CANADA  | 192.168.152.148 |       0 |
|       38 | sbaelish | 2022-05-09 | 14:40:01   | USA     | 192.168.60.42   |       1 |
|       39 | yappiah  | 2022-05-09 | 07:56:40   | MEXICO  | 192.168.57.115  |       1 |
```

Tâche 3 : Trier les données sur les tentatives de connexion

Dans cette tâche, vous allez utiliser le mot clé ORDER BY. Vous allez séquencer les données renvoyées par la requête en fonction de la date et de l'heure de connexion.

Tout d'abord, triez les informations par date.

1. Exécutez une requête qui permet de trier les données log_in_attempts en fonction de login_date :
2. Modifiez la requête de l'étape précédente en ajoutant l'heure de connexion à la clause ORDER BY.

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> ORDER BY login_date;
+----------+----------+------------+------------+---------+-----------------+---------+
| event_id | username | login_date | login_time | country | ip_address      | success |
+----------+----------+------------+------------+---------+-----------------+---------+
|      145 | ivelasco | 2022-05-08 | 09:06:02   | CANADA  | 192.168.39.196  |       1 |
|      163 | tmitchel | 2022-05-08 | 09:21:16   | MEX     | 192.168.119.29  |       0 |
|       36 | asundara | 2022-05-08 | 09:00:42   | US      | 192.168.78.151  |       1 |
|      165 | jreckley | 2022-05-08 | 15:28:43   | MEXICO  | 192.168.34.193  |       0 |
|      168 | jlansky  | 2022-05-08 | 13:25:42   | USA     | 192.168.210.94  |       1 |
|      169 | alevitsk | 2022-05-08 | 08:10:43   | CANADA  | 192.168.210.228 |       0 |
|       72 | alevitsk | 2022-05-08 | 12:09:10   | CANADA  | 192.168.139.176 |       1 |
|      101 | sbaelish | 2022-05-08 | 12:01:22   | US      | 192.168.145.158 |       0 |
|      172 | mabadi   | 2022-05-08 | 08:06:50   | US      | 192.168.180.41  |       1 |
|      150 | nmason   | 2022-05-08 | 14:40:02   | CAN     | 192.168.204.124 |       0 |
|       68 | mrah     | 2022-05-08 | 17:16:13   | US      | 192.168.42.248  |       1 |
|       66 | aestrada | 2022-05-08 | 21:58:32   | MEX     | 192.168.67.223  |       1 |
|       53 | nmason   | 2022-05-08 | 11:51:38   | CAN     | 192.168.133.188 |       1 |
|      147 | yappiah  | 2022-05-08 | 06:04:34   | MEX     | 192.168.65.245  |       0 |
|      148 | daquino  | 2022-05-08 | 06:15:55   | CANADA  | 192.168.135.6   |       1 |
|       49 | asundara | 2022-05-08 | 14:00:01   | US      | 192.168.173.213 |       0 |
|       47 | dkot     | 2022-05-08 | 05:06:45   | US      | 192.168.233.24  |       1 |
|       44 | daquino  | 2022-05-08 | 07:02:35   | CANADA  | 192.168.168.144 |       0 |
|       43 | mcouliba | 2022-05-08 | 02:35:34   | CANADA  | 192.168.16.208  |       0 |
|       56 | acook    | 2022-05-08 | 04:56:30   | CAN     | 192.168.209.130 |       1 |
|       80 | cjackson | 2022-05-08 | 02:18:10   | CANADA  | 192.168.33.140  |       1 |
|      117 | bsand    | 2022-05-08 | 00:19:11   | USA     | 192.168.197.187 |       0 |
|       12 | dkot     | 2022-05-08 | 09:11:34   | USA     | 192.168.100.158 |       1 |
|      189 | nmason   | 2022-05-08 | 05:37:24   | CANADA  | 192.168.168.117 |       1 |
|      191 | cjackson | 2022-05-08 | 06:46:07   | CANADA  | 192.168.7.187   |       0 |
|        8 | bisles   | 2022-05-08 | 01:30:17   | US      | 192.168.119.173 |       0 |
|      193 | lrodriqu | 2022-05-08 | 07:11:29   | US      | 192.168.125.240 |       0 |
|        4 | dkot     | 2022-05-08 | 02:00:39   | USA     | 192.168.178.71  |       0 |
|      197 | jsoto    | 2022-05-08 | 09:05:09   | US      | 192.168.36.21   |       0 |
|       26 | apatel   | 2022-05-08 | 17:27:00   | CANADA  | 192.168.123.105 |       1 |
|       92 | pwashing | 2022-05-08 | 00:36:12   | US      | 192.168.247.219 |       0 |
|      178 | sgilmore | 2022-05-08 | 12:27:22   | CAN     | 192.168.52.216  |       0 |
|       83 | lrodriqu | 2022-05-08 | 08:10:23   | USA     | 192.168.67.69   |       1 |
|      184 | alevitsk | 2022-05-08 | 03:09:48   | CAN     | 192.168.33.70   |       0 |
|       87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153 |       0 |
|       70 | tmitchel | 2022-05-09 | 10:55:17   | MEXICO  | 192.168.87.199  |       1 |
|       61 | dtanaka  | 2022-05-09 | 09:45:18   | USA     | 192.168.98.221  |       1 |
|       96 | ivelasco | 2022-05-09 | 22:36:36   | CAN     | 192.168.84.194  |       0 |
|       58 | ivelasco | 2022-05-09 | 17:20:54   | CAN     | 192.168.57.162  |       0 |
|      120 | tmitchel | 2022-05-09 | 02:58:17   | MEXICO  | 192.168.134.62  |       0 |
|       97 | jreckley | 2022-05-09 | 02:49:23   | MEXICO  | 192.168.32.231  |       1 |
|       79 | abernard | 2022-05-09 | 11:41:15   | MEX     | 192.168.158.170 |       0 |
```

```
MariaDB [organization]> SELECT *
    -> FROM log_in_attempts
    -> ORDER BY login_date, login_time;
+----------+----------+------------+------------+---------+-----------------+---------+
| event_id | username | login_date | login_time | country | ip_address      | success |
+----------+----------+------------+------------+---------+-----------------+---------+
|      117 | bsand    | 2022-05-08 | 00:19:11   | USA     | 192.168.197.187 |       0 |
|       92 | pwashing | 2022-05-08 | 00:36:12   | US      | 192.168.247.219 |       0 |
|        8 | bisles   | 2022-05-08 | 01:30:17   | US      | 192.168.119.173 |       0 |
|        4 | dkot     | 2022-05-08 | 02:00:39   | USA     | 192.168.178.71  |       0 |
|       80 | cjackson | 2022-05-08 | 02:18:10   | CANADA  | 192.168.33.140  |       1 |
|       43 | mcouliba | 2022-05-08 | 02:35:34   | CANADA  | 192.168.16.208  |       0 |
|      184 | alevitsk | 2022-05-08 | 03:09:48   | CAN     | 192.168.33.70   |       0 |
|       56 | acook    | 2022-05-08 | 04:56:30   | CAN     | 192.168.209.130 |       1 |
|       47 | dkot     | 2022-05-08 | 05:06:45   | US      | 192.168.233.24  |       1 |
|      189 | nmason   | 2022-05-08 | 05:37:24   | CANADA  | 192.168.168.117 |       1 |
|      147 | yappiah  | 2022-05-08 | 06:04:34   | MEX     | 192.168.65.245  |       0 |
|      148 | daquino  | 2022-05-08 | 06:15:55   | CANADA  | 192.168.135.6   |       1 |
|      191 | cjackson | 2022-05-08 | 06:46:07   | CANADA  | 192.168.7.187   |       0 |
|       44 | daquino  | 2022-05-08 | 07:02:35   | CANADA  | 192.168.168.144 |       0 |
|      193 | lrodriqu | 2022-05-08 | 07:11:29   | US      | 192.168.125.240 |       0 |
|      172 | mabadi   | 2022-05-08 | 08:06:50   | US      | 192.168.180.41  |       1 |
|       83 | lrodriqu | 2022-05-08 | 08:10:23   | USA     | 192.168.67.69   |       1 |
|      169 | alevitsk | 2022-05-08 | 08:10:43   | CANADA  | 192.168.210.228 |       0 |
|       36 | asundara | 2022-05-08 | 09:00:42   | US      | 192.168.78.151  |       1 |
|      197 | jsoto    | 2022-05-08 | 09:05:09   | US      | 192.168.36.21   |       0 |
|      145 | ivelasco | 2022-05-08 | 09:06:02   | CANADA  | 192.168.39.196  |       1 |
|       12 | dkot     | 2022-05-08 | 09:11:34   | USA     | 192.168.100.158 |       1 |
|      163 | tmitchel | 2022-05-08 | 09:21:16   | MEX     | 192.168.119.29  |       0 |
|       53 | nmason   | 2022-05-08 | 11:51:38   | CAN     | 192.168.133.188 |       1 |
|      101 | sbaelish | 2022-05-08 | 12:01:22   | US      | 192.168.145.158 |       0 |
|       72 | alevitsk | 2022-05-08 | 12:09:10   | CANADA  | 192.168.139.176 |       1 |
|      178 | sgilmore | 2022-05-08 | 12:27:22   | CAN     | 192.168.52.216  |       0 |
|      168 | jlansky  | 2022-05-08 | 13:25:42   | USA     | 192.168.210.94  |       1 |
|       49 | asundara | 2022-05-08 | 14:00:01   | US      | 192.168.173.213 |       0 |
|      150 | nmason   | 2022-05-08 | 14:40:02   | CAN     | 192.168.204.124 |       0 |
|      165 | jreckley | 2022-05-08 | 15:28:43   | MEXICO  | 192.168.34.193  |       0 |
|       68 | mrah     | 2022-05-08 | 17:16:13   | US      | 192.168.42.248  |       1 |
|       26 | apatel   | 2022-05-08 | 17:27:00   | CANADA  | 192.168.123.105 |       1 |
|       66 | aestrada | 2022-05-08 | 21:58:32   | MEX     | 192.168.67.223  |       1 |
|       87 | apatel   | 2022-05-08 | 22:38:31   | CANADA  | 192.168.132.153 |       0 |
|      110 | mabadi   | 2022-05-09 | 00:01:54   | USA     | 192.168.90.124  |       1 |
|      187 | arusso   | 2022-05-09 | 00:36:26   | MEX     | 192.168.77.137  |       0 |
|       90 | gesparza | 2022-05-09 | 00:49:05   | CANADA  | 192.168.87.201  |       0 |
|       97 | jreckley | 2022-05-09 | 02:49:23   | MEXICO  | 192.168.32.231  |       1 |
|       32 | acook    | 2022-05-09 | 02:52:02   | CANADA  | 192.168.142.239 |       0 |
|      120 | tmitchel | 2022-05-09 | 02:58:17   | MEXICO  | 192.168.134.62  |       0 |
```