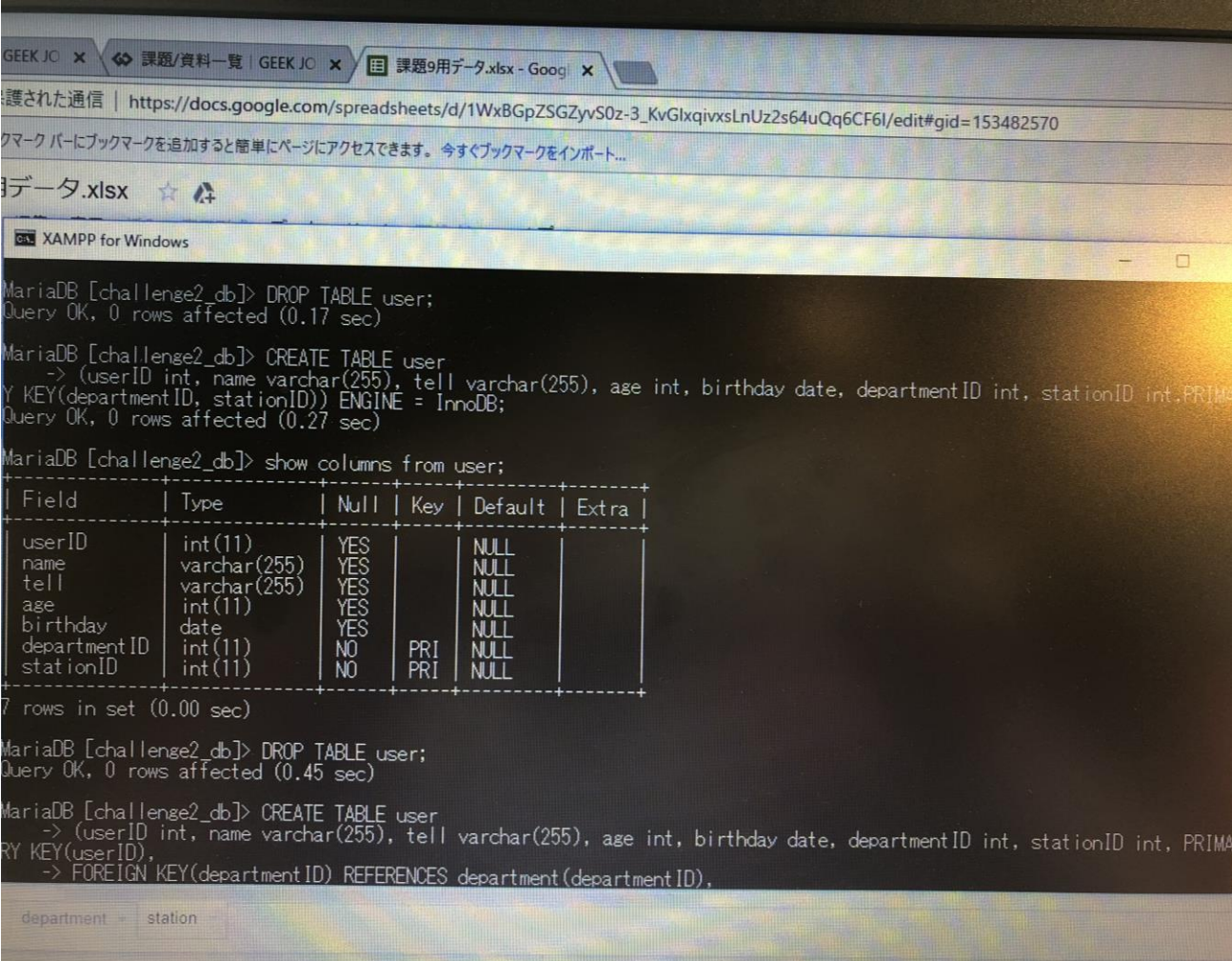


Primary KeyとForeign Keyの宣言

- CREATE TABLE user

(userID int, name varchar(255), tel varchar(255), age int, birthday date, departmentID int, stationID int, PRIMARY KEY(userID), FOREIGN KEY (departmentID) REFERENCES department (departmentID))
ENGINE = InnoDB ;

- SHOW columns from user ;



```
MariaDB [challenge2_db]> DROP TABLE user;
Query OK, 0 rows affected (0.17 sec)

MariaDB [challenge2_db]> CREATE TABLE user
-> (userID int, name varchar(255), tel varchar(255), age int, birthday date, departmentID int, stationID int, PRIMARY KEY(userID), FOREIGN KEY (departmentID) REFERENCES department (departmentID)) ENGINE = InnoDB;
Query OK, 0 rows affected (0.27 sec)

MariaDB [challenge2_db]> show columns from user;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userID | int(11) | YES | | NULL | |
| name | varchar(255) | YES | | NULL | |
| tel | varchar(255) | YES | | NULL | |
| age | int(11) | YES | | NULL | |
| birthday | date | YES | | NULL | |
| departmentID | int(11) | NO | PRI | NULL | |
| stationID | int(11) | NO | PRI | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

MariaDB [challenge2_db]> DROP TABLE user;
Query OK, 0 rows affected (0.45 sec)

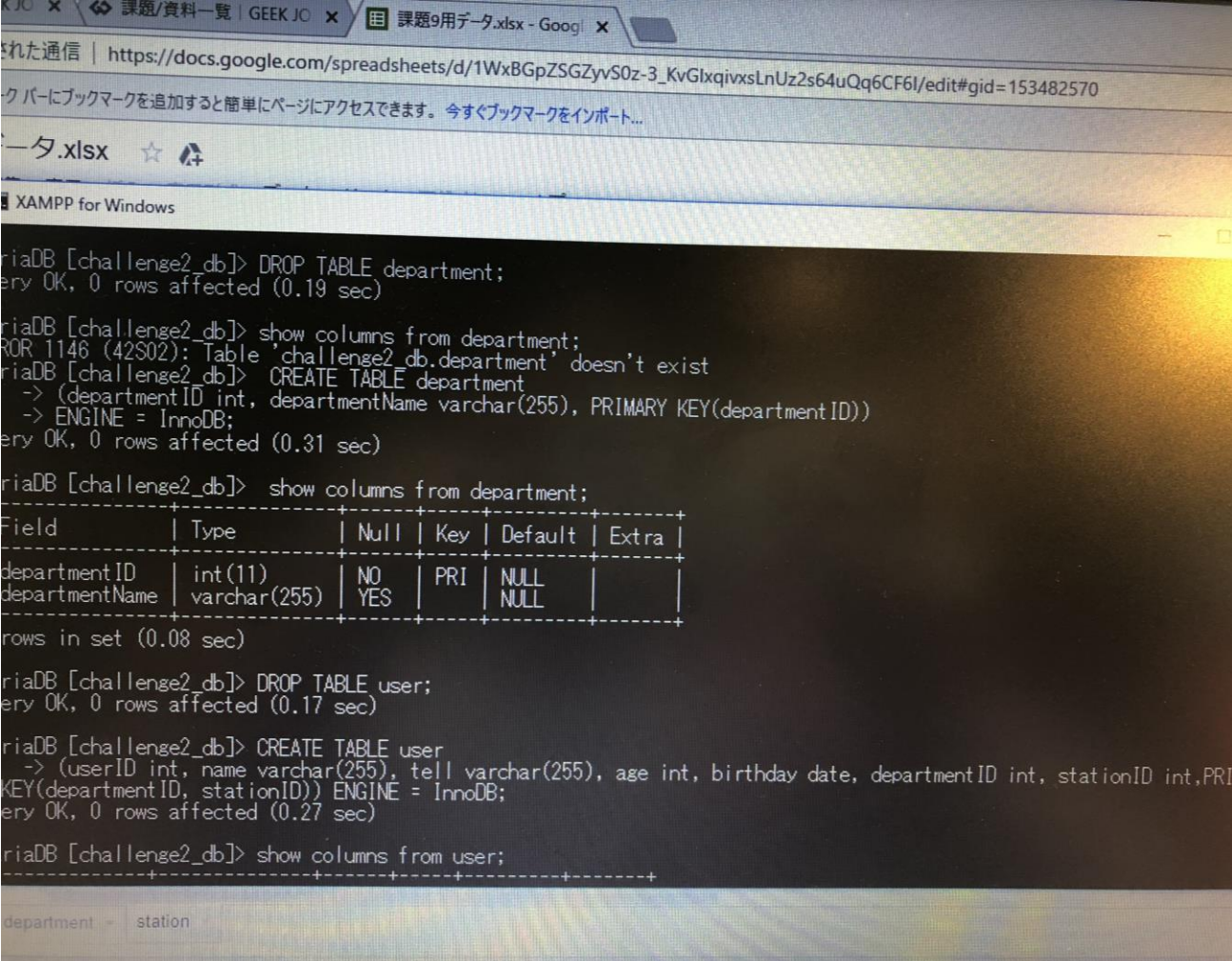
MariaDB [challenge2_db]> CREATE TABLE user
-> (userID int, name varchar(255), tel varchar(255), age int, birthday date, departmentID int, stationID int, PRIMARY KEY(userID), FOREIGN KEY (departmentID) REFERENCES department (departmentID),
-> FOREIGN KEY (stationID) REFERENCES station (stationID)) ENGINE = InnoDB;
Query OK, 0 rows affected (0.27 sec)
```

▪ CREATE TABLE department

(departmentID int, departmentName varchar(255),

PRIMARY KEY(departmentID), ENGINE
= InnoDB ;

▪ SHOW columns from department ;



The screenshot shows a terminal window with the following content:

```
riaDB [challenge2_db]> DROP TABLE department;
Very OK, 0 rows affected (0.19 sec)

riaDB [challenge2_db]> show columns from department;
ERROR 1146 (42S02): Table 'challenge2_db.department' doesn't exist

riaDB [challenge2_db]> CREATE TABLE department
  -> (departmentID int, departmentName varchar(255), PRIMARY KEY(departmentID))
  -> ENGINE = InnoDB;
Very OK, 0 rows affected (0.31 sec)

riaDB [challenge2_db]> show columns from department;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| departmentID   | int(11)       | NO   | PRI | NULL    |       |
| departmentName | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
rows in set (0.08 sec)

riaDB [challenge2_db]> DROP TABLE user;
Very OK, 0 rows affected (0.17 sec)

riaDB [challenge2_db]> CREATE TABLE user
  -> (userID int, name varchar(255), tell varchar(255), age int, birthday date, departmentID int, stationID int, PRI
KEY(departmentID, stationID)) ENGINE = InnoDB;
Very OK, 0 rows affected (0.27 sec)

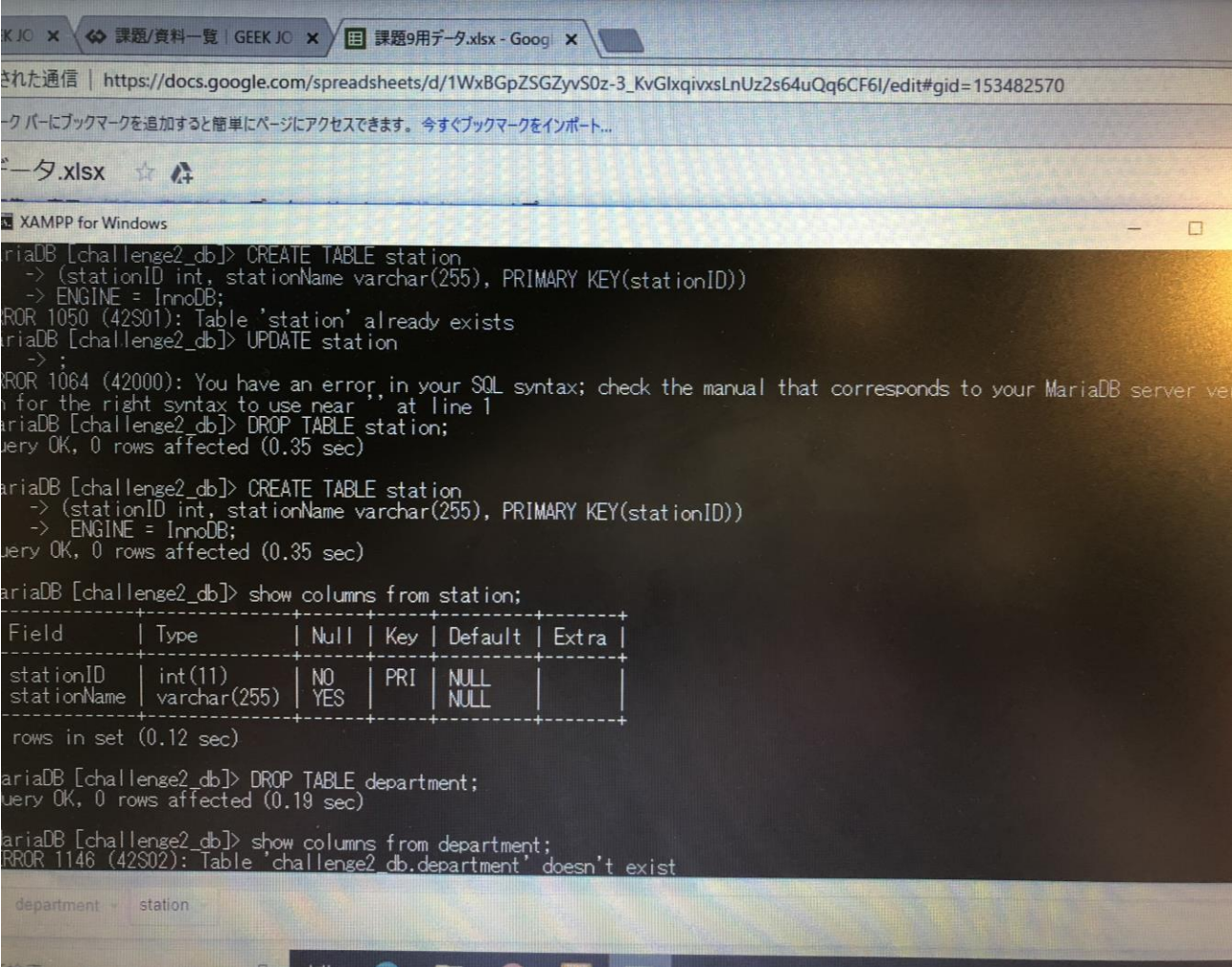
riaDB [challenge2_db]> show columns from user;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| userID         | int(11)       | NO   | PRI | NULL    |       |
| name           | varchar(255)  | YES  |     | NULL    |       |
| tell           | varchar(255)  | YES  |     | NULL    |       |
| age            | int(11)       | YES  |     | NULL    |       |
| birthday       | date          | YES  |     | NULL    |       |
| departmentID   | int(11)       | NO   | PRI | NULL    |       |
| stationID      | int(11)       | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

At the bottom of the terminal, there is a tab labeled "department - station".

- CREATE TABLE station

(stationID int, stationName varchar(255), PRIMARY KEY(stationID), ENGINE = InnoDB ;

- SHOW columns from station ;



The screenshot shows a web browser window at the top with a Google Docs URL. Below it is a terminal window titled 'XAMPP for Windows'. The terminal displays the following SQL commands and their outputs:

```
MariaDB [challenge2_db]> CREATE TABLE station
-> (stationID int, stationName varchar(255), PRIMARY KEY(stationID))
-> ENGINE = InnoDB;
ERROR 1050 (42S01): Table 'station' already exists
MariaDB [challenge2_db]> UPDATE station
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 1
MariaDB [challenge2_db]> DROP TABLE station;
Query OK, 0 rows affected (0.35 sec)

MariaDB [challenge2_db]> CREATE TABLE station
-> (stationID int, stationName varchar(255), PRIMARY KEY(stationID))
-> ENGINE = InnoDB;
Query OK, 0 rows affected (0.35 sec)

MariaDB [challenge2_db]> show columns from station;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stationID | int(11) | NO | PRI | NULL | |
| stationName | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
rows in set (0.12 sec)

MariaDB [challenge2_db]> DROP TABLE department;
Query OK, 0 rows affected (0.19 sec)

MariaDB [challenge2_db]> show columns from department;
ERROR 1146 (42S02): Table 'challenge2_db.department' doesn't exist
```

At the bottom of the terminal, there is a dropdown menu showing 'department' and 'station'.

・INSERT INTO user VALUES

(1, '田中 実', '012-345-6789', 30, '1994-02-01', 3, 1),

(2, '鈴木 茂', '090-1122-3344', 37, '1987-08-12', 3, 4),

(3, '鈴木 実', '080-5566-7788', 24, '2000-12-24', 2, 5),

(4, '佐藤 清', '012-0987-6543', 19, '2005-08-01', 1, 5),

(5, '高橋 清', '090-9900-1234', 24, '2000-12-24', 3, 5);

・ SELECT * FROM user ;

```
XAMPP for Windows - mysql -u mikan -p
departmentID | departmentName |
+-----+
1 | 開発部
2 | 営業部
3 | 総務部
+-----+
rows in set (0.03 sec)

MariaDB [challenge2_db]> SELECT * FROM station;
stationID | stationName |
+-----+
1 | 九段下
2 | 永田町
3 | 渋谷
4 | 神保町
5 | 上井草
+-----+
rows in set (0.00 sec)

MariaDB [challenge2_db]> SELECT * FROM user;
userID | name | tell | age | birthday | departmentID | stationID |
+-----+
1 | 田中 実 | 012-345-6789 | 30 | 1994-02-01 | 3 | 1 |
2 | 鈴木 茂 | 090-1122-3344 | 37 | 1987-08-12 | 3 | 4 |
3 | 鈴木 実 | 080-5566-7788 | 24 | 2000-12-24 | 2 | 5 |
4 | 佐藤 清 | 012-0987-6543 | 19 | 2005-08-01 | 1 | 5 |
5 | 高橋 清 | 090-9900-1234 | 24 | 2000-12-24 | 3 | 5 |
+-----+
```



```
XAMPP for Windows - mysql -u mikan -p
MariaDB [challenge2_db]> INSERT INTO user VALUES
-> (1, '田中 実', '012-345-6789', 30, '1994-02-01', 3, 1),
-> (2, '鈴木 茂', '090-1122-3344', 37, '1987-08-12', 3, 4),
-> (3, '鈴木 実', '080-5566-7788', 24, '2000-12-24', 2, 5),
-> (4, '佐藤 清', '012-0987-6543', 19, '2005-08-01', 1, 5),
-> (5, '高橋 清', '090-9900-1234', 24, '2000-12-24', 3, 5);
Query OK, 5 rows affected (0.13 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [challenge2_db]> SELECT * FROM user;
+----+-----+-----+-----+-----+-----+-----+
| userID | name  | tell      | age | birthday | departmentID | stationID |
+----+-----+-----+-----+-----+-----+-----+
| 1      | 田中 実 | 012-345-6789 | 30  | 1994-02-01 | 3             | 1          |
| 2      | 鈴木 茂 | 090-1122-3344 | 37  | 1987-08-12 | 3             | 4          |
| 3      | 鈴木 実 | 080-5566-7788 | 24  | 2000-12-24 | 2             | 5          |
| 4      | 佐藤 清 | 012-0987-6543 | 19  | 2005-08-01 | 1             | 5          |
| 5      | 高橋 清 | 090-9900-1234 | 24  | 2000-12-24 | 3             | 5          |
+----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.05 sec)

MariaDB [challenge2_db]> INSERT INTO department VALUES
-> (1, '開発部'), (2, '営業部'), (3, '総務部');
ERROR 1054 (42S22): Unknown column '開発部' in 'field list'
MariaDB [challenge2_db]> INSERT INTO department VALUES
-> (1, '開発部'),
-> (2, '営業部'),
-> (3, '総務部');
ERROR 1054 (42S22): Unknown column '開発部' in 'field list'
MariaDB [challenge2_db]>
```

- INSERT INTO department
VALUES

- (1, ' 開発部'),

- (2, ' 営業部'),

- (3, ' 総務部');

- SELECT *
FROM department ;

- INSERT INTO station
VALUES

- (1, '九段下'),

- (2, '永田町'),

- (3, '渋谷'),

- (4, '神保町'),

- (5, '上井草');

- SELECT * FROM station;

```
XAMPP for Windows - mysql -u mikan -p
MariaDB [challenge2_db]> SELECT * FROM department;
+-----+-----+
| departmentID | departmentName |
+-----+-----+
| 1 | 開発部 |
| 2 | 営業部 |
| 3 | 総務部 |
+-----+-----+
3 rows in set (0.03 sec)

MariaDB [challenge2_db]> SELECT * FROM station;
+-----+-----+
| stationID | stationName |
+-----+-----+
| 1 | 九段下 |
| 2 | 永田町 |
| 3 | 渋谷 |
| 4 | 神保町 |
| 5 | 上井草 |
+-----+-----+
5 rows in set (0.00 sec)

MariaDB [challenge2_db]> SELECT * FROM user;
+-----+-----+-----+-----+-----+-----+-----+
| userID | name | tell | age | birthday | departmentID | stationID |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | 田中 実 | 012-345-6789 | 30 | 1994-02-01 | 3 | 1 |
| 2 | 鈴木 茂 | 090-1122-3344 | 37 | 1987-08-12 | 3 | 4 |
| 3 | 鈴木 実 | 080-5566-7788 | 24 | 2000-12-24 | 2 | 5 |
| 4 | 佐藤 清 | 012-0987-6543 | 19 | 2005-08-01 | 1 | 5 |
| 5 | 高橋 清 | 090-9900-1234 | 24 | 2000-12-24 | 3 | 5 |
+-----+-----+-----+-----+-----+-----+-----+
```

```
XAMPP for Windows - mysql -u mikan -p
MariaDB [challenge2_db]> INSERT INTO department VALUES
-> (1, '開発部'),
-> (2, '営業部'),
-> (3, '総務部');
Query OK, 3 rows affected (0.06 sec)
Records: 3 Duplicates: 0 Warnings: 0

MariaDB [challenge2_db]> INSERT INTO VALUES
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'VALUES' at line 1

MariaDB [challenge2_db]> INSERT INTO station VALUES
-> (1, '九段下'),
-> (2, '永田町'),
-> (3, '渋谷'),
-> (4, '神保町'),
-> (5, '上井草');
Query OK, 5 rows affected (0.05 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [challenge2_db]> INSERT INTO user VALUES
-> (1, '田中 実', '012-345-6789', 30, '1994-02-01', 3, 1),
-> (2, '鈴木 茂', '090-1122-3344', 37, '1987-08-12', 3, 4),
-> (3, '鈴木 実', '080-5566-7788', 24, '2000-12-24', 2, 5),
-> (4, '佐藤 清', '012-0987-6543', 19, '2005-08-01', 1, 5),
-> (5, '高橋 清', '090-9900-1234', 24, '2000-12-24', 3, 5);
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0

MariaDB [challenge2_db]>
department station
```