

## 課題「Primary Key と Foreign Key の宣言」

### ①SQL 文

```
CREATE TABLE user(userID int Primary Key, name varchar(255), tell varchar(255),  
age int, birthday date, departmentID int, stationID int);
```

```
insert into user values(1, '田中 実', '012-345-6789', 30, 19940201, 3, 1);  
insert into user values(2, '鈴木 茂', '090-1122-3344', 37, 19870812, 3, 4);  
insert into user values(3, '鈴木 実', '080-5566-7788', 24, 20001224, 2, 5);  
insert into user values(4, '佐藤 清', '012-0987-6543', 19, 20050801, 1, 5);  
insert into user values(5, '高橋 清', '090-9900-1234', 24, 20001224, 3, 5);
```

```
CREATE TABLE department(departmentID int Primary Key, departmentName  
varchar(255));
```

```
insert into department values(1, '開発部');  
insert into department values(2, '営業部');  
insert into department values(3, '総務部');
```

```
CREATE TABLE station(stationID int Primary Key, stationName varchar(255));
```

```
insert into station values(1, '九段下');  
insert into station values(2, '永田町');  
insert into station values(3, '渋谷');  
insert into station values(4, '神保町');  
insert into station values(5, '上井草');
```

```
alter table user add foreign key(stationID) references station(stationID);  
select * from user;  
select * from department;  
select * from station;
```

```
select * from user, department, station where user.departmentID =  
department.departmentID and user.stationID = station.stationID;
```

## ②結果

MariaDB [Challenge\_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 (0.01 sec)

MariaDB [Challenge\_db]> select \* from department;

departmentID	departmentName
1	開発部
2	営業部
3	総務部

3 rows in set (0.00 sec)

MariaDB [Challenge\_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 [Challenge\_db]> select \* from user, department, station where user.departmentID = department.departmentID and user.stationID = station.stationID;

userID	name	tell	age	birthday	departmentID	stationID	departmentID	departmentName	stationID	stationName
1	田中 実	012-345-6789	30	1994-02-01	3	1	3	総務部	1	九段下
2	鈴木 茂	090-1122-3344	37	1987-08-12	3	4	3	総務部	4	神保町
3	鈴木 実	080-5566-7788	24	2000-12-24	2	5	2	営業部	5	上井草
4	佐藤 清	012-0987-6543	19	2005-08-01	1	5	1	開発部	5	上井草
5	高橋 清	090-9900-1234	24	2000-12-24	3	5	3	総務部	5	上井草