```
//default-storage-engine = InnoBD
//department station テーブルの作成、Primary Key の付与(departmentID stationID)
[challenge db] > create table department
    -> (departmentID int not null primary key, departmentName varchar(255));
[challenge db] > create table station
    -> (stationID int not null primary key, stationName varchar(255));
MariaDB [(none)]> use challenge_db;
Database changed
MariaDB [challenge_db]> create table department
-> (departmentID int not null primary key, departmentName varchar(255));
Query OK, O rows affected (0.03 sec)
MariaDB [challenge_db]> create table station
-> (stationID int not null primary key, stationName varchar(255));
Query OK, 0 rows affected (0.05 sec)
//department station テーブルにレコードの挿入
[challenge db] > insert into department value(1, '開発部');
//以下同様にして挿入
MariaDB [challenge_db]> insert into department value(1. '開発部');
Query OK, 1 row affected (0.02 sec)
MariaDB [challenge_db]> insert into department value(2, '営業部');
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into department value(3. '総務部');
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into station value(1, '九段下');
Query OK, 1 row affected (0.02 sec)
MariaDB [challenge db]> insert into station value(2. '永田町');
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into station value(3, '渋谷');
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into station value(4, '神保町');
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into station value(5, '上井草');
Query OK, 1 row affected (0.01 sec)
```

```
//user テーブルの作成、Primary Key の付与(userID)
[challenge db] > create table user(
     -> userID int not null primary key,
     -> name varchar(255), tell varchar(255), age int. birthday date.
     -> departmentID int, stationID int
     ->);
MariaDB [challenge_db]> create table user(
     -> userID int not null primary key,
-> name varchar(255), tell varchar(255), age int, birthday date,
     -> departmentID int, stationID int
Query OK, 0 rows affected (0.06 sec)
//user テーブルの departmentID stationID に Foreign Key を付与
[challenge db] > alter table user add
     -> foreign key(departmentID) references department(departmentID);
//以下同様にして stationID にも付与
MariaDB [challenge_db]> alter table user add
     -> foreign key(departmentID) references department(departmentID);
Query OK, O rows affected (0.08 sec)
Records: O Duplicates: O Warnings: O
MariaDB [challenge_db]> alter table user add
-> foreign key(stationID) references station(stationID);
Query OK, O rows affected (0.13 sec)
Records: O Duplicates: O Warnings: O
//user テーブルにレコードを挿入
[challenge db] > insert into user value(
     -> 1, '田中 実', '012-345-6789', 30, '1994-02-01', 3, 1);
//以下同様にしてレコードを挿入
MariaDB [challenge db]> insert into user value(
-> 1, '田中 実', '012-345-6789', 30, '1994-02-01', 3, 1);
Query OK, 1 row affected (0.00 sec)
MariaDB [challenge_db]> insert into user value(
-> 2, '鈴木 茂', '090-1122-3344', 37, '1987-08-12', 3, 4);
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into user value(
-> 3, '鈴木 実', '080-5566-7788', 24, '2000-12-24', 2, 5);
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into user value(
-> 4, '佐藤 清', '012-0987-6543', 19, '2005-08-01', 1, 5);
Query OK, 1 row affected (0.01 sec)
MariaDB [challenge_db]> insert into user value(
-> 5, '高橋清', '090-9900-1234', 24, '2000-12-24', 3, 5);
Query OK, 1 row affected (0.01 sec)
```

//全件検索、確認

[challenge_db]> select * from user;

//以下同様に検索

MariaDB [challe	enge_d	b]> select * fro	om user:							
userID name	;	tell	age	birthday	department ID	stationID				
1 田中 2 命木 3 命木 4 佐藤 5 高橋	茂実清	012-345-6789 090-1122-3344 080-5566-7788 012-0987-6543 090-9900-1234	30 37 24 19 24	1994-02-01 1987-08-12 2000-12-24 2005-08-01 2000-12-24	3 3 2 1 3	1 4 5 5 5				
5 rows in set (0.00 sec)										
MariaDB [challenge_db]> select * from department;										
departmentID departmentName										
3 rows in set	(0. 02	- sec)								
MariaDB [challenge_db]> select * from station;										
stationID) stationName									
T										

[追記]

//カラムの Null 及び Key を見ると付与されているのが確認できる。

[challenge_db]> show columns from user;

Field	Type	Null	Key	Default	Extra
userID name tell age birthday departmentID stationID	int (11) varchar (255) varchar (255) int (11) date int (11) int (11)	NO YES YES YES YES YES YES	PRI MUL MUL	NULL NULL NULL NULL NULL NULL	