

## Primary Key と Foreign Keyの宣言

ソースコード

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

```
insert into user(userID,name,tel,age,birthday,departmentID,stationID) 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);
```

```
CREATE TABLE department(departmentID int, departmentNAME varchar(255));
```

```
CREATE TABLE station(stationID int, stationNAME varchar(255));
```

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

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

```
alter table user add primary key(userID);
```

```
ALTER TABLE department ADD PRIMARY KEY(departmentID);
```

```
alter table station add primary key(stationID);
```

```
alter table user add foreign key (departmentID) references department (departmentID);
```

```
mysql> select*from user;
```

userID	name	tel	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)
```

```
mysql> select*from department;
```

departmentID	departmentNAME
1	開発部
2	営業部
3	総務部

```
3 rows in set (0.00 sec)
```

```
mysql> 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)
```

```
alter table user add foreign key (stationID) references station (stationID);
```