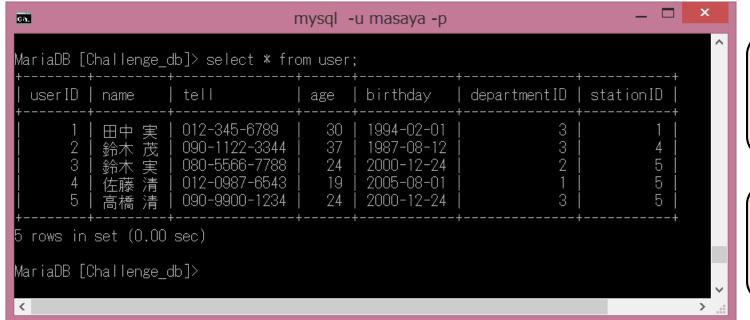
# データベース基礎

Primary key と Foreign Key の宣言



## /\*親テーブル「user」の作成(太下線で主キー制約の設定)\*/

O = create table user (userID int *not null primary key*, name varchar(255), tell varchar(255), age int, birthday date, departmentID int, stationID int);

/\*「user」テーブルにレコードを追加する\*/

Oinsert into user values(1,'田中 実','012-345-6789',30,'1994-02-01',3,1);

Oinsert into user values(5,'高橋清','090-9900-1234',24,'2000-12-24',3,5);

/\*子テーブル「department」の作成(太下線で主キー制約の設定)\*/ 〇 = create table department (departmentID int <u>not null primary key</u>, departmentName varchar(255));

/\*「department」テーブルにレコードを追加する\*/ Oinsert into department values(1,'開発部',); Oinsert into department values(3,'総務部',);

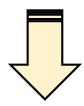
/\*子テーブル「station」の作成(太下線で主キー制約の設定)\*/〇 = create table station (stationID int <u>not null primary key</u>, stationName varchar(255));

/\*「station」テーブルにレコードを追加する\*/ Oinsert into station values(1,'九段下',); Oinsert into department values(3,'総務部',);

## /\*外部キーの設定をする\*/

Oalter table user add foreign key (departmentID) references department (departmentID) on delete cascade on update restrict;

Oalter table user add foreign key (departmentID) references department (departmentID) on delete cascade on update restrict;



<b>63.</b>	mysqi -u masaya -p				
MariaDB [Challenge_db]> select constraint_name,table_name,column_name,referenced_table_name,refere nced_column_name from information_schema.key_column_usage;					
constraint_name	table_name	column_name	referenced_table_name	referenced_column_name	
PRIMARY PRIMARY PRIMARY PRIMARY user_ibfk_1 user_ibfk_2	department   station   user   user   user	departmentID   stationID   userID   departmentID   stationID	NULL   NULL   NULL   department   station	NULL NULL NULL departmentID stationID	
5 rows in set (0.01 sec)  MariaDB [Challenge_db]>					

主キーと外部キーが設定されているかの確認画面

# /\*下記select文で情報の確認をする\*/

### Oselect

constraint\_name,table\_name,column\_name,referenced\_table\_name,referenced\_table\_name,referenced\_column\_name from information\_schema.key\_column\_usage;