

課題17-1 テーブルの作成とinsert

・コマンド

```
mysql> create database Challenge_db;
```

```
mysql> use Challenge_db;
```

```
mysql> create table profiles(profilesID int, name varchar(255), age int, birthday date);
```

```
mysql> alter table profiles add tel varchar(255) after name;
```

```
mysql> INSERT INTO profiles (profilesID, name, tel, age, birthday) VALUES (1, '田中 実', '012-345-6789', 30, '1994-02-01');
```

```
mysql> INSERT INTO profiles VALUES (2, '鈴木 茂', '090-1122-3344', 37, '1987-08-12');
```

```
mysql> INSERT INTO profiles VALUES (3, '鈴木 実', '080-5566-7788', 24, '2000-12-24');
```

```
mysql> INSERT INTO profiles VALUES (4, '佐藤 清', '012-0987-6543', 19, '2005-08-01');
```

```
mysql> INSERT INTO profiles VALUES (5, '高橋 清', '090-9900-1234', 24, '2000-12-24');
```

・実行結果

```
[mysql> select * from profiles;
```

```
+-----+-----+-----+-----+-----+
| profilesID | name      | tel      | age | birthday |
+-----+-----+-----+-----+-----+
| 1 | 田中 実 | 012-345-6789 | 30 | 1994-02-01 |
| 2 | 鈴木 茂 | 090-1122-3344 | 37 | 1987-08-12 |
| 3 | 鈴木 実 | 080-5566-7788 | 24 | 2000-12-24 |
| 4 | 佐藤 清 | 012-0987-6543 | 19 | 2005-08-01 |
| 5 | 高橋 清 | 090-9900-1234 | 24 | 2000-12-24 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

課題17-2 検索と表示

```
[mysql> select * from profiles where profilesID = 3;
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age | birthday |
+-----+-----+-----+-----+-----+
|          3 | 鈴木 実   | 080-5566-7788 | 24  | 2000-12-24 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

課題17-3 特定のレコードのみを検索, 表示2

```
[mysql> select * from profiles where age = 24;
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age | birthday |
+-----+-----+-----+-----+-----+
|          3 | 鈴木 実   | 080-5566-7788 | 24  | 2000-12-24 |
|          5 | 高橋 清   | 090-9900-1234 | 24  | 2000-12-24 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

課題17-4 特定のレコードのみを検索, 表示3

```
[mysql> select * from profiles where age >= 25;
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age | birthday |
+-----+-----+-----+-----+-----+
|          1 | 田中 実   | 012-345-6789 | 30  | 1994-02-01 |
|          2 | 鈴木 茂   | 090-1122-3344 | 37  | 1987-08-12 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

課題17-5 特定のレコードのみを検索, 表示4

```
[mysql> select * from profiles where name like '%実%';
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age | birthday |
+-----+-----+-----+-----+-----+
|          1 | 田中 実   | 012-345-6789 | 30  | 1994-02-01 |
|          3 | 鈴木 実   | 080-5566-7788 | 24  | 2000-12-24 |
+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

課題17-6 特定のレコードの更新

```
[mysql> update profiles set name='吉田 茂' where profilesID=2;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

[mysql> select * from profiles where profilesID=2;
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age  | birthday   |
+-----+-----+-----+-----+-----+
|          2 | 吉田 茂   | 090-1122-3344 | 37   | 1987-08-12 |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

課題17-7 特定のレコードの削除

```
[mysql> delete from profiles where birthday = '2000-12-24';
Query OK, 1 row affected (0.02 sec)

[mysql> select* from profiles;
+-----+-----+-----+-----+-----+
| profilesID | name      | tel          | age  | birthday   |
+-----+-----+-----+-----+-----+
|          1 | 田中 実   | 012-345-6789 | 30   | 1994-02-01 |
|          2 | 吉田 茂   | 090-1122-3344 | 37   | 1987-08-12 |
|          4 | 佐藤 清   | 012-0987-6543 | 19   | 2005-08-01 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

課題17-8 Primary KeyとForeign Keyの宣言

・コマンド

```
mysql> create table department (  
    -> departmentID int primary key,  
    -> departmentName varchar(255)  
    -> );
```

```
mysql> create table station (  
    -> stationID int primary key,  
    -> stationName varchar(255)  
    -> );
```

```
mysql> create table user (  
    -> userID int, name varchar(255),  
    -> tell varchar(255),  
    -> age int,  
    -> birthday date,  
    -> departmentID int,  
    -> stationID int,  
    -> foreign key(departmentID) references department(departmentID),  
    -> foreign key(stationID) references station(stationID));
```

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

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

```
mysql> 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);
```

・実行結果

```
[mysql> 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 (0.00 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)
```