

DB課題解答:課題1

```
create table profiles(profilesID int,name archar(255),tell varchar(255),age int,birthday date);
insert into profiles values(1,'田中 実','012-345-6789',30,'1994-02-01');
insert into profiles values(2,'鈴木 茂','090-1122-3344',37,'1987-08-12');
insert into profiles values(3,'鈴木 実','080-5566-7788',24,'2000-12-24');
insert into profiles values(4,'佐藤 清','012-0987-6543',19,'2005-08-01');
insert into profiles values(5,'高橋 清','090-9900-1234',24,'2000-12-24');
```

```
MariaDB [challenge_db]> select * from profiles;
```

```
MariaDB [challenge_db]> select * from profiles;
```

profilesID	name	tell	age	birthday
1	田中 実	012-345-6788	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)
```

DB課題解答:課題2

MariaDB [challenge_db]> select * from profiles where profilesID=3;

```
MariaDB [challenge_db]> select * from profiles where profilesID=3;
+-----+-----+-----+-----+-----+
| profilesID | name   | tell          | age  | birthday   |
+-----+-----+-----+-----+-----+
|          3 | 鈴木 実 | 080-5566-7788 | 24   | 2000-12-24 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

DB課題解答:課題3

MariaDB [challenge_db]> select * from profiles where name='高橋 清';

```
MariaDB [challenge_db]> select * from profiles where name='高橋 清';
+-----+-----+-----+-----+-----+
| profilesID | name   | tell          | age  | birthday   |
+-----+-----+-----+-----+-----+
|          5 | 高橋 清 | 090-9900-1234 | 24   | 2000-12-24 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

DB課題解答:課題4

MariaDB [challenge_db]> select * from profiles where age=24;

```
MariaDB [challenge_db]> select * from profiles where age=24;
+-----+-----+-----+-----+-----+
| profilesID | name   | tell           | 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)
```

DB課題解答:課題5

MariaDB [challenge_db]> select * from profiles where age>=25;

```
MariaDB [challenge_db]> select * from profiles where age>=25;
+-----+-----+-----+-----+-----+
| profilesID | name   | tell           | age | birthday   |
+-----+-----+-----+-----+-----+
|          1 | 田中 実 | 012-345-6788 | 30  | 1994-02-01 |
|          2 | 鈴木 茂 | 090-1122-3344 | 37  | 1987-08-12 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

DB課題解答:課題6

MariaDB [challenge_db]> select * from profiles where name like '%実';

```
MariaDB [challenge_db]> select * from profiles where name like '%実';
+-----+-----+-----+-----+-----+
| profilesID | name      | tell          | age  | birthday    |
+-----+-----+-----+-----+-----+
|          1 | 田中 実   | 012-345-6788  | 30   | 1994-02-01  |
|          3 | 鈴木 実   | 080-5566-7788 | 24   | 2000-12-24  |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

DB課題解答:課題7

MariaDB [challenge_db]> update profiles set name='吉田 茂' where profilesID=2;

MariaDB [challenge_db]> select * from profiles where profilesID=2;

```
MariaDB [challenge_db]> update profiles set name='吉田 茂' where profilesID=2;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [challenge_db]> select * from profiles where profilesID=2;
+-----+-----+-----+-----+-----+
| profilesID | name      | tell          | age  | birthday    |
+-----+-----+-----+-----+-----+
|          2 | 吉田 茂   | 090-1122-3344 | 37   | 1987-08-12  |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

DB課題解答:課題8

MariaDB [challenge_db]> delete from profiles where birthday='2000-12-24';

Query OK, 2 rows affected (0.02 sec)

MariaDB [challenge_db]> select * from profiles;

```
MariaDB [challenge_db]> delete from profiles where birthday='2000-12-24';
Query OK, 2 rows affected (0.02 sec)
```

```
MariaDB [challenge_db]> select * from profiles;
```

profilesID	name	tell	age	birthday
1	田中 実	012-345-6788	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)
```

DB課題解答: 課題9

```
create table station(stationID int,stationName varchar(255));
insert into station values(1,'九段下'),(2,'永田町'),(3,'渋谷'),(4,'神保町'),(5,'上井草');
//主キーを設定
alter table station add primary key(stationID);
```

```
create table department(departmentID int,departmentname varchar(255));
insert into department values(1,'開発部'),(2,'営業部'),(3,'総務部');
alter table department add primary key(departmentID);
```

```
alter table user add primary key(userID);
//外部キーを設定
alter table user add foreign key(stationID) references station(stationID);
alter table user add foreign key(departmentID) references department(departmentID);
MariaDB [challenge_db]> select user.*,department.departmentName,station.stationName
-> from user
-> inner join department
-> on user.departmentID = department.departmentID
-> inner join station
-> on user.stationID = station.stationID;
```

```

MariaDB [(none)]> use challenge_db
Database changed
MariaDB [challenge_db]> select user.userID,user.name,user.tell,user.age,
-> ¥c
MariaDB [challenge_db]> select user.*,department.departmentName,station.stationName
-> from user
-> inner join department
-> on user.departmentID = department.departmentID
-> inner join station
-> on user.stationID = station.stationID;

```

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

```

5 rows in set (0.00 sec)

```

見やすく表示

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

select * from user;

```
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	
2	吉田 茂	090-1122-3344	37	1987-08-12	3	
3	鈴木 実	080-5566-7788	24	2000-12-24	2	
4	佐藤 清	012-0987-6543	19	2005-08-01	1	
5	高橋 清	090-9900-1234	24	2000-12-24	3	

5 rows in set (0.09 sec)

userID	name	tell	age	birthday	departmentID	stationID
1	田中 実	012-345-6789	30	1994-02-01	3	1
2	吉田 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

desc user;

```
MariaDB [challenge_db]> desc user;
```

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

7 rows in set (0.01 sec)

select * from department;

```
MariaDB [challenge_db]> select * from department;
```

departmentID	departmentName
1	開発部
2	営業部
3	総務部

3 rows in set (0.03 sec)

desc department;

```
MariaDB [challenge_db]> desc department;
```

Field	Type	Null	Key	Default	Extra
departmentID	int(11)	NO	PRI	NULL	
departmentName	varchar(255)	YES		NULL	

2 rows in set (0.00 sec)

select * from station;

```
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 (0.02 sec)

desc station;

```
MariaDB [challenge_db]> desc station
```

-> ;

Field	Type	Null	Key	Default	Extra
stationID	int(11)	NO	PRI	NULL	
stationName	varchar(255)	YES		NULL	

2 rows in set (0.00 sec)