

データベース基礎課題

課題1

```
create table profiles(profileID int, name varchar(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,'1987-08-01');
insert into profiles values(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');
select * from profiles;
```

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

profilesID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	鈴木 茂	090-1122-3344	37	1987-08-01
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2

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)

課題3

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)
```

課題4

```
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)
```

課題5

```
select * from profiles where age>=25;
```

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

profilesID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	鈴木 茂	090-1122-3344	37	1987-08-01

2 rows in set (0.02 sec)

課題6

```
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	012-345-6789	30	1994-02-01
3	鈴木 実	080-5566-7788	24	2000-12-24

```
2 rows in set (0.02 sec)
```

課題7

```
update profiles set name='吉田 茂' where profilesID=2;  
select name from profiles where profilesID=2;
```

```
MariaDB [challenge_db]> select name from profiles where profilesID=2;  
+-----+  
| name   |  
+-----+  
| 吉田 茂 |  
+-----+  
1 row in set (0.02 sec)
```


課題8

```
delete from profiles where birthday='2000-12-24';  
select * from profiles;
```

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

profilesID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	吉田 茂	090-1122-3344	37	1987-08-01
4	佐藤 清	012-0987-6543	19	2005-08-01

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

課題9

```
create table department(departmentID int primary key, departmentName varchar(255),index  
(departmentID)) engine=InnoDB;
```

```
create table station(stationID int primary key, stationName varchar(255),index(stationID)) engine=InnoDB;
```

```
create table user(userID int primary key, name varchar(255), tell varchar(255), age int, birthday date,  
departmentID int, stationID int,index(departmentID), index(stationID), foreign key(departmentID)  
references department(departmentID), foreign key(stationID) references station(stationID))  
engine=InnoDB;
```

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

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

```
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);
```

```
alter table user change userID userID int auto_increment;      //オートインクリメントを追加
```

課題9

```
select * from user,department,station where user.departmentID=department.departmentID AND user.stationID=station.stationID;
```

```
MariaDB [challenge_db]> select * from user,department,station where user.departmentID=department.departmentID AND user.stationID=station.stationID;
```

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

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

```
show columns from user;
```

```
MariaDB [challenge_db]> show columns from 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 (0.05 sec)
```

課題9

show columns from department;

```
MariaDB [challenge_db]> show columns from department;
```

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

```
2 rows in set (0.05 sec)
```

show columns from station;

```
MariaDB [challenge_db]> show columns from station;
```

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

```
2 rows in set (0.03 sec)
```