

データベース基礎課題

課題1 出力画面

```
MariaDB [challenge_db]> INSERT INTO profiles VALUES(1,'田中 実','012-345-6789',30,'1994-02-01');
Query OK, 1 row affected (0.01 sec)
```

```
MariaDB [challenge_db]> INSERT INTO profiles VALUES(2,'鈴木 茂','090-1122-3344',37,'1987-08-12');
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO profiles VALUES(3,'鈴木 実','080-5566-7788',24,'2000-12-24');
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO profiles VALUES(4,'佐藤 清','012-0987-6543',19,'2005-08-01');
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO profiles VALUES(5,'高橋 清','090-9900-1234',24,'2000-12-24');
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> SELECT *FROM profiles;
```

profileID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	鈴木 茂	090-1122-3344	37	1987-08-12
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1 テキスト

```
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,'1987-08-12');
```

```
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');
```

```
SELECT *FROM profiles ;
```

課題2

SELECT *FROM profiles WHERE profileID=3;

```
MariaDB [challenge_db]> SELECT *FROM profiles WHERE profileID=3;
+-----+-----+-----+-----+-----+
| profileID | 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';
+-----+-----+-----+-----+-----+
| profileID | 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;
```

profileID	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;
```

profileID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	鈴木 茂	090-1122-3344	37	1987-08-12

2 rows in set (0.00 sec)

課題6

SELECT *FROM profiles WHERE name LIKE '%実%';

```
MariaDB [challenge_db]> SELECT *FROM profiles WHERE name LIKE '%実%';
```

profileID	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 (0.00 sec)

課題7

UPDATE profiles SET name = '吉田茂' WHERE profileID=2;

SELECT *FROM profiles WHERE profileID=2;

```
MariaDB [challenge_db]> UPDATE profiles SET name = '吉田茂' WHERE profileID=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [challenge_db]> SELECT *FROM profiles WHERE profileID=2;
```

profileID	name	tell	age	birthday
2	吉田茂	090-1122-3344	37	1987-08-12

1 row in set (0.00 sec)

課題8

DELETE FROM profiles WHERE birthday = '2000-12-24';

SELECT *FROM profiles ;

```
MariaDB [challenge_db]> DELETE FROM profiles WHERE birthday = '2000-12-24';  
Query OK, 2 rows affected (0.01 sec)
```

```
MariaDB [challenge_db]> SELECT *FROM profiles ;
```

profileID	name	tell	age	birthday
1	田中 実	012-345-6789	30	1994-02-01
2	吉田茂	090-1122-3344	37	1987-08-12
4	佐藤 清	012-0987-6543	19	2005-08-01

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

データベース応用課題

親テーブル1 department

```
CREATE TABLE department(departmentID int,departmentName varchar(255), index (departmentID))  
ENGINE=InnoDB ;
```

```
INSERT INTO department VALUES(1,'開発部');
```

```
INSERT INTO department VALUES(2,'営業部');
```

```
INSERT INTO department VALUES(3,'総務部');
```

```
MariaDB [challenge_db]> CREATE TABLE department(departmentID int,departmentName varchar(255), index (departmentID)) ENGINE=InnoDB ;  
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [challenge_db]> INSERT INTO department VALUES(1,'開発部');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO department VALUES(2,'営業部');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO department VALUES(3,'総務部');  
Query OK, 1 row affected (0.02 sec)
```

親テーブル2 station

```
CREATE TABLE station(stationID int,stationName varchar(255), index (stationID)) ENGINE=InnoDB ;  
INSERT INTO station VALUES(1,'九段下');  
INSERT INTO station VALUES(2,'永田町');  
INSERT INTO station VALUES(3,'渋谷');  
INSERT INTO station VALUES(4,'神保町');  
INSERT INTO station VALUES(5,'上井草');
```

```
MariaDB [challenge_db]> CREATE TABLE station(stationID int,stationName varchar(255), index (stationID)) ENGINE=InnoDB ;  
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [challenge_db]> INSERT INTO station VALUES(1,'九段下');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO station VALUES(2,'永田町');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO station VALUES(3,'渋谷');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO station VALUES(4,'神保町');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [challenge_db]> INSERT INTO station VALUES(5,'上井草');  
Query OK, 1 row affected (0.00 sec)
```


子テーブル user

```
CREATE TABLE user(userID int not null primary key,name varchar(255),  
tell varchar(255),age int,birthday date  
,departmentID int,index (departmentID),foreign key(departmentID) references department(departmentID)  
,stationID int,index (stationID),foreign key(stationID) references station(stationID)  
) ENGINE=InnoDB ;
```

```
INSERT INTO user VALUES(1,'田中 実','012-345-6789',30,'1994-02-01',3,1);
```

```
INSERT INTO user VALUES(2,'鈴木 茂','090-1122-3344',37,'1987-08-12',3,4);
```

```
INSERT INTO user VALUES(3,'鈴木 実','080-5566-7788',24,'2000-12-24',2,5);
```

```
INSERT INTO user VALUES(4,'佐藤 清','012-0987-6543',19,'2005-08-01',1,5);
```

```
INSERT INTO user VALUES(5,'高橋 清','090-9900-1234',24,'2000-12-24',3,5);
```

出力結果↓

```
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	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)
```

```
MariaDB [challenge_db]> CREATE TABLE user(userID int not null primary key,name varchar(255),  
-> tell varchar(255),age int,birthday date  
-> ,departmentID int,index (departmentID),foreign key(departmentID) references department(departmentID)  
-> ,stationID int,index (stationID),foreign key(stationID) references station(stationID)  
-> ) ENGINE=InnoDB ;  
Query OK, 0 rows affected (0.04 sec)  
  
MariaDB [challenge_db]> INSERT INTO user VALUES(1,'田中 実','012-345-6789',30,'1994-02-01',3,1);  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [challenge_db]> INSERT INTO user VALUES(2,'鈴木 茂','090-1122-3344',37,'1987-08-12',3,4);  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [challenge_db]> INSERT INTO user VALUES(3,'鈴木 実','080-5566-7788',24,'2000-12-24',2,5);  
Query OK, 1 row affected (0.02 sec)  
  
MariaDB [challenge_db]> INSERT INTO user VALUES(4,'佐藤 清','012-0987-6543',19,'2005-08-01',1,5);  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [challenge_db]> INSERT INTO user VALUES(5,'高橋 清','090-9900-1234',24,'2000-12-24',3,5);  
Query OK, 1 row affected (0.00 sec)
```