# データベース基礎課題

提出はフリップ別にし、

通し閲覧できるものはGithub上で

確認いただけます。

GithubURL:https://github.com/moois/GEE
KJOB-
Challenge/tree/master/CampChallenge_jav
a/009.%E3%83%87%E3%83%BC%E3%82%B
F%E3%83%99%E3%83%BC%E3%82%B9

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# 課題1 ～テーブルの作成とinsert～

create table profiles(profilesID int,name varchar(255),tell varchar(255),age int,birthday date);
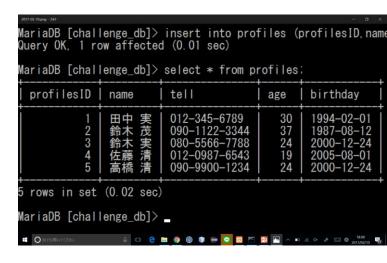
insert into profiles (profilesID,name,tell,age,birthday)values(1,'田中 実','012-345-6789',30,'1994-02-01');

insert into profiles (profilesID,name,tell,age,birthday)values(2,'鈴木 茂','090-1122-3344',37,'1987-08-12');

insert into profiles (profilesID,name,tell,age,birthday)values(3,'鈴木 実','080-5566-7788',24,'2000-12-24');

insert into profiles (profilesID,name,tell,age,birthday)values(4,'佐藤清','012-0987-6543',19,'2005-08-01');

insert into profiles (profilesID,name,tell,age,birthday)values(5,'高橋 清','090-9900-1234',24,'2000-12-24');

# 課題２　〜検索と表示〜

MYSQL –u asaki –p
--------
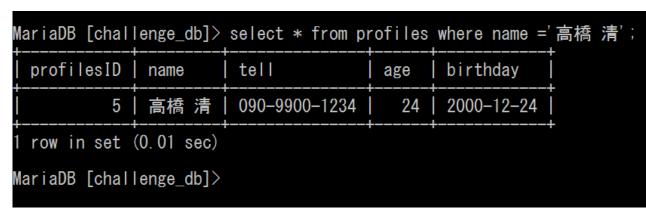use challenge_db
select * from profiles where profilesID=3;

# 課題３　〜特定のレコードのみを検索、表示１〜

MYSQL –u asaki –p
--------
use 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 (0.01 sec)

MariaDB [challenge_db]>
```

# 課題４　～特定のレコードのみを検索、表示２～

select * from profiles where name ='高橋 清';

```
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)

MariaDB [challenge_db]> _
```

# 課題５　〜特定のレコードのみを検索、表示３〜

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 | 1987-08-12 |
+-----------+-----------+---------------+------+------------+
2 rows in set (0.00 sec)

MariaDB [challenge_db]>
```

# 課題６　〜特定のレコードのみを検索、表示４〜

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 (0.01 sec)

MariaDB [challenge_db]>
```

# 課題７　～特定のレコードの更新～

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

select * from profiles where profilesID =2;

```
MariaDB [challenge_db]> update profiles set name ='吉田 茂'where profilesID = 2;
Query OK, 1 row affected (0.01 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)

MariaDB [challenge_db]>
```

# 課題８　〜特定のレコードの削除〜

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]>
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 | 1987-08-12 |
|         4 | 佐藤 清 | 012-0987-6543 |  19 | 2005-08-01 |
+-----------+--------+--------------+-----+------------+
3 rows in set (0.00 sec)

MariaDB [challenge_db]>
```

# 課題９ 〜Primary KeyとForeign Keyの宣言〜

- insert into profiles(profilesID,name,tell,age,birthday) values(3,'鈴木 実','080-5566-7788',24,'2000-12-24');

- insert into profiles(profilesID,name,tell,age,birthday) values(5,'高橋 清','090-9900-1234',24,'2000-12-24');

- update profiles set name ='鈴木 茂'where profilesID = 2;

- select * from profiles order by profilesID;

- alter table user change profilesID userID int primary key;

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

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

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

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

# ～Primary KeyとForeign Keyの宣言～

alter table user add (departmentID int,foreign key (departmentID) references department (departmentID));

alter table user add (stationID int,foreign key (stationID) references station (stationID));

update user set departmentID = 3 where userID =1;

update user set departmentID = 3 where userID =2;

update user set departmentID = 2 where userID =3;

update user set departmentID = 1 where userID =4;

update user set departmentID = 3 where userID =5;


update user set stationID = 1 where userID =1;

update user set stationID = 4 where userID =2;

update user set stationID = 5 where userID =3;

update user set stationID = 5 where userID =4;

update user set stationID = 5 where userID =5;


select * from user;

select * from department;

select * from station;

```
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]> select * from department;
+--------------+----------------+
| departmentID | departmentName |
+--------------+----------------+
|            1 | 開発部          |
|            2 | 営業部          |
|            3 | 総務部          |
+--------------+----------------+
3 rows in set (0.01 sec)

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 (0.00 sec)
```