

XAMPP (MAMP) とMySQLの課題

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

```
INSERT INTO profiles (profilesID,name,tel,age,birthday) VALUES (2,'鈴木 茂','090-1122-3344',37,'1987-08-12');
```

```
INSERT INTO profiles (profilesID,name,tel,age,birthday) VALUES (3,'鈴木 実','080-5566-7788',24,'2000-12-24');
```

```
INSERT INTO profiles (profilesID,name,tel,age,birthday) VALUES (4,'佐藤 清','012-0987-6543',19,'2005-08-01');
```

```
INSERT INTO profiles (profilesID,name,tel,age,birthday) VALUES (5,'高橋 清','090-9900-1234',24,'2000-12-24');
```

```
ca: XAMPP for Windows - MySQL -u odijor -D Challenge_db -p
MariaDB [Challenge_db]> SELECT profilesID,name,tel,age,birthday FROM profiles;
+-----+-----+-----+-----+-----+
| profilesID | name   | tel       | age | birthday |
+-----+-----+-----+-----+-----+
|          1 | 田中 実 | 012-345-6789 | 30  | 1994-02-01 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [Challenge_db]> INSERT INTO profiles (profilesID,name,tel,age,birthday)
VALUES (2,'鈴木 茂','090-1122-3344',37,'1987-08-12');
Query OK, 1 row affected (0.04 sec)

MariaDB [Challenge_db]> INSERT INTO profiles (profilesID,name,tel,age,birthday)
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 (profilesID,name,tel,age,birthday)
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 (profilesID,name,tel,age,birthday)
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
-> ;
+-----+-----+-----+-----+-----+
| 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 |
+-----+-----+-----+-----+-----+
```

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

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 (0.05 sec)

```
MariaDB [Challenge_db]> SELECT * WHERE profilesID=3 FROM profiles;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near 'WHE
RE profilesID=3 FROM profiles' at line 1
```

```
MariaDB [Challenge_db]> 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 (0.07 sec)

```
MariaDB [Challenge_db]>
```

ca: XAMPP for Windows - MySQL -u odjor -D Challenge_db -p

```
MariaDB [Challenge_db]> INSERT INTO profiles (profilesID,name,tel,age,birthday)
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
```

```
-> ;
```

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 (0.05 sec)
```

```
MariaDB [Challenge_db]> SELECT * WHERE profilesID=3 FROM profiles;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near 'WHE
RE profilesID=3 FROM profiles' at line 1
```

```
MariaDB [Challenge_db]> 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 (0.07 sec)
```

```
MariaDB [Challenge_db]> SELECT * FROM profiles WHERE name='高橋 清';
```

profilesID	name	tel	age	birthday
5	高橋 清	090-9900-1234	24	2000-12-24

```
1 row in set (0.04 sec)
```

```
MariaDB [Challenge_db]>
```

```
ca. XAMPP for Windows - MySQL -u odijor -D Challenge_db -p
+-----+-----+-----+-----+-----+
| 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 (0.05 sec)

MariaDB [Challenge_db]> SELECT * WHERE profilesID=3 FROM profiles;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MariaDB server version for the right syntax to use near 'WHE
RE profilesID=3 FROM profiles' at line 1
MariaDB [Challenge_db]> 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 (0.07 sec)

MariaDB [Challenge_db]> SELECT * FROM profiles WHERE name='高橋 清';
+-----+-----+-----+-----+-----+
| profilesID | name   | tel           | age | birthday   |
+-----+-----+-----+-----+-----+
| 5 | 高橋 清 | 090-9900-1234 | 24 | 2000-12-24 |
+-----+-----+-----+-----+
1 row in set (0.04 sec)

MariaDB [Challenge_db]> 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)

MariaDB [Challenge_db]>
```

ca: XAMPP for Windows - MySQL -u odijor -D Challenge_db -p

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'WHERE profilesID=3 FROM profiles' at line 1

MariaDB [Challenge_db]> 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 (0.07 sec)

MariaDB [Challenge_db]> SELECT * FROM profiles WHERE name='高橋 清';

profilesID	name	tel	age	birthday
5	高橋 清	090-9900-1234	24	2000-12-24

1 row in set (0.04 sec)

MariaDB [Challenge_db]> 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)

MariaDB [Challenge_db]> 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)

MariaDB [Challenge_db]>

2 rows in set (0.00 sec)

MariaDB [Challenge_db]> 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)

MariaDB [Challenge_db]> 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 (0.00 sec)

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

-> ;

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
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 (0.03 sec)

MariaDB [Challenge_db]>

課題:特定レコードの削除

```
XAMPP for Windows - MySQL -u odijor -D Challenge_db -p
+-----+-----+-----+-----+-----+
| 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 (0.00 sec)

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
-> ;
+-----+-----+-----+-----+-----+
| 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 |
| 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 (0.03 sec)

MariaDB [Challenge_db]> DELETE FROM profiles WHERE birthday='2000-12-24';
Query OK, 2 rows affected (0.20 sec)

MariaDB [Challenge_db]> 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)

MariaDB [Challenge_db]>
```


課題:primary keyとforeign keyの宣言

```
XAMPP for Windows - mysql -u odijor Challenge_db -p
MAY KEY,departmentName varchar(255)) ENGINE=InnoDB' at line 2
MariaDB [Challenge_db]> CREATE TABLE department(departmentID int NOT NULL
-> PRIMARY KEY,departmentName varchar(255)) ENGINE=InnoDB;
Query OK, 0 rows affected (0.23 sec)

MariaDB [Challenge_db]> CREATE TABLE station(stationID int NOT NULL
-> PRIMARY KEY,stationName varchar(255)) ENGINE=InnoDB;
Query OK, 0 rows affected (0.11 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,stationID int,foreign key(departmentID) references
-> department(departmentID),foreign key(stationID) references
-> station(stationID)) engine=InnoDB;
Query OK, 0 rows affected (0.10 sec)

MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
-> values (1,'開発部');
Query OK, 1 row affected (0.24 sec)

MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
-> values (2,'営業部');
Query OK, 1 row affected (0.05 sec)

MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
```

```
MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
-> values (1,'開発部');
```

```
Query OK, 1 row affected (0.24 sec)
```

```
MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
-> values (2,'営業部');
```

```
Query OK, 1 row affected (0.05 sec)
```

```
MariaDB [Challenge_db]> insert into department (departmentID,departmentName)
-> values (3,'総務部');
```

```
Query OK, 1 row affected (0.07 sec)
```

```
MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (1,'九段下');
```

```
Query OK, 1 row affected (0.09 sec)
```

```
MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (2,'永田町');
```

```
Query OK, 1 row affected (0.04 sec)
```

```
MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (3,'渋谷');
```

```
Query OK, 1 row affected (0.05 sec)
```

```
MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (1,'九段下');
Query OK, 1 row affected (0.09 sec)

MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (2,'永田町');
Query OK, 1 row affected (0.04 sec)

MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (3,'渋谷');
Query OK, 1 row affected (0.05 sec)

MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (4,'神保町');
Query OK, 1 row affected (0.05 sec)

MariaDB [Challenge_db]> insert into station (stationID,stationName)
-> values (5,'上井草');
Query OK, 1 row affected (0.04 sec)

MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,
-> departmentID,stationID) values (1,'田中 実','012-345-6789,30,
-> '1994-02-01',;
-> ;
```

```
select * from station;
```

```
'' at line 2
```

```
MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,  
-> departmentID,stationID) values (1,'田中 実','012-345-6789',30,  
-> '1994-02-01',3,1);
```

```
Query OK, 1 row affected (0.10 sec)
```

```
MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,  
-> departmentID,stationID) values (2,'鈴木 茂','090-1122-3344',37,  
-> '1987-08-12',3,4);
```

```
Query OK, 1 row affected (0.05 sec)
```

```
MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,  
-> departmentID,stationID) values (3,'鈴木 実','080-5566-7788',37,  
-> '2000-12-24',2,5);
```

```
Query OK, 1 row affected (0.03 sec)
```

```
MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,  
-> departmentID,stationID) values (4,'佐藤 清','012-0987-6543',19,  
-> '2005-08-01',1,5);
```

```
Query OK, 1 row affected (0.02 sec)
```

```
MariaDB [Challenge_db]> insert into user (userID,name,tell,age,birthday,  
-> departmentID,stationID) values (5,'高橋 清','090-9900-1234',24,  
-> '2000-12-24',3,5);
```

```
Query OK, 1 row affected (0.04 sec)
```

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	鈴木 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)

MariaDB [Challenge_db]> select * from department;

departmentID	departmentName
1	開発部
2	営業部

--+

5 rows in set (0.09 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 (0.00 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)

MariaDB [Challenge_db]>