

# Java/データベース基礎

## 課題 9

Setting environment for using XAMPP for Windows.

maiko@LAPTOP-7HTFBB7H c:\xampp

# mysql -u maiko.saito -p

Enter password: \*\*\*\*\*

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 21

Server version: 10.1.21-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use challenge\_db;

Database changed

MariaDB [challenge\_db]> create table station (stationID int unique not null primary key, stationName varchar(255));

Query OK, 0 rows affected (0.36 sec)

MariaDB [challenge\_db]> insert into station value (1, '九段下'),2 永田町 3 渋谷

-> 4 神保町

-> ;

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 '2 永田町 3 渋谷

4 神保町' at line 1

MariaDB [challenge\_db]> insert into station value (1, '九段下'),(2,'永田町'),(3,'渋谷');

Query OK, 3 rows affected (0.13 sec)

Records: 3 Duplicates: 0 Warnings: 0

MariaDB [challenge\_db]> insert into station value (4,'神保町'),(5,'上井草');

Query OK, 2 rows affected (0.10 sec)

Records: 2 Duplicates: 0 Warnings: 0

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]> create table department (departmentID int unique not null primary key,  
departmentName varchar(255));  
Query OK, 0 rows affected (0.23 sec)

MariaDB [challenge\_db]> insert into department value (1,'開発部'),(2,'営業部'),(3,'総務部');  
Query OK, 3 rows affected (0.08 sec)  
Records: 3 Duplicates: 0 Warnings: 0

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]> create table user (userID int unique not null primary key,  
-> name varchar(255), tell varchar(255), age int, birthday date,  
-> foreign key (departmentID) references department (departmentID),  
-> foreign key (stationID) references station (stationID));

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 " at line 4

MariaDB [challenge\_db]> create table user (userID int unique not null primary key,  
-> name varchar(255), tell varchar(255), age int, birthday date;

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 " at line 2

MariaDB [challenge\_db]> create table user (userID int unique not null primary key,  
-> name varchar(255), tell varchar(255), age int, birthday date);

Query OK, 0 rows affected (0.29 sec)

```
MariaDB [challenge_db]> alter table user add foreign key (departmentID) references department (departmentID);
```

ERROR 1072 (42000): Key column 'departmentID' doesn't exist in table

```
MariaDB [challenge_db]> alter table user add foreign key (departmentID int) references department (departmentID);
```

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 'int) references department (departmentID)' at line 1

```
MariaDB [challenge_db]> alter table user add departmentID int;
```

Query OK, 0 rows affected (0.57 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [challenge_db]> alter table user add foreign key (departmentID) references department (departmentID);
```

Query OK, 0 rows affected (0.88 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [challenge_db]> alter table user add stationID int;
```

Query OK, 0 rows affected (0.92 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [challenge_db]> alter table user add foreign key (stationID) references station (stationID);
```

Query OK, 0 rows affected (0.90 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MariaDB [challenge_db]> insert into user value (1,'田中 実','012-345-6789',30,'1994-02-0131'),(2,'鈴木 茂','090-1122-3344',37,'1987-08-1234');
```

ERROR 1136 (21S01): Column count doesn't match value count at row 1

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

Empty set (0.00 sec)

```
MariaDB [challenge_db]> insert into user values (1,'田中 実','012-345-6789',30,'1994-02-0131'),(2,'鈴木 茂','090-1122-3344',37,'1987-08-1234');
```

ERROR 1136 (21S01): Column count doesn't match value count at row 1

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

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 'columns from user' at line 1

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 (0.13 sec)

MariaDB [challenge\_db]> insert into user values (1,'田中 実','012-345-6789',30,'1994-02-0131',3,4);

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 '3,4)' at line 1

MariaDB [challenge\_db]> insert into user values (1,'田中 実','012-345-6789',30,'1994-02-0131',3,4);

Query OK, 1 row affected, 1 warning (0.08 sec)

MariaDB [challenge\_db]> insert into user values (2,'鈴木 茂','090-1122-3344',37,'1987-08-1234',3,4);

Query OK, 1 row affected, 1 warning (0.08 sec)

MariaDB [challenge\_db]> update user set stationID=1 where userID=1;

Query OK, 1 row affected (0.11 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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 (0.11 sec)

MariaDB [challenge\_db]> insert into user values (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);

Query OK, 2 rows affected (0.08 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [challenge\_db]> update user set birthday='1994-02-01' where userID=1;

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [challenge\_db]> update user set birthday='1987-08-12' where userid=2;

Query OK, 1 row affected (0.10 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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]>

```
cat mysql -u maiko.saito -p
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
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 (0.11 sec)
```

```
MariaDB [challenge_db]> insert into user values (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);
```

```
Query OK, 2 rows affected (0.08 sec)
```

```
Records: 2 Duplicates: 0 Warnings: 0
```

```
MariaDB [challenge_db]> update user set birthday='1994-02-01' where userID=1;
```

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

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [challenge_db]> update user set birthday='1987-08-12' where userID=2;
```

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

```
Rows matched: 1 Changed: 1 Warnings: 0
```

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

userID	name	tel	age	birthday	departmentID	stationID
1	田中 実	012-345-6789	30	1994-02-01	3	1
2	鈴木 茂	080-1122-3344	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]> -
```

Search Windows

19:34  
2017/04/18