

# データベース基礎

## 9/9

CREATE時に主キーと外部キーの指定

MariaDB [challengedb]> SELECT\*FROM profile;

Empty set (0.00 sec)

MariaDB [challengedb]> INSERT INTO profile VALUE(1,'田中実','0120-345-6789',30,'1994-02-01',3,1);

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

MariaDB [challengedb]> ALTER TABLE profile ADD tell;

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 1

MariaDB [challengedb]> ALTER TABLE profile ADD tell varchar(255);

Query OK, 0 rows affected (0.28 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [challengedb]> INSETRT INTO profile VALUE(1,'田中実',30,'1994-02-01',3,1,"0120-345-6789");

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 'INSETRT INT  
O profile VALUE(1,'田中実',30,'1994-02-01',3,1,"0120-345-6789")' at line 1

MariaDB [challengedb]> INSERT INTO profile VALUE(1,'田中実',30,'1994-02-01',3,1,"0120-345-6789");

Query OK, 1 row affected (0.05 sec)

MariaDB [challengedb]> INSERT INTO profile VALUE(2,'鈴木茂',37,'1987-08-12',3,4,"090-1122-3344");

Query OK, 1 row affected (0.07 sec)

MariaDB [challengedb]> INSERT INTO profile VALUE(3,'鈴木実',24,'2000-12-24',2,5,"080-5566-7788");

Query OK, 1 row affected (0.06 sec)

MariaDB [challengedb]> INSERT INTO profile VALUE(4,'佐藤清',19,'2005-08-01',1,5,"012-0987-6543");

Query OK, 1 row affected (0.08 sec)

MariaDB [challengedb]> INSERT INTO profile VALUE(5,'高橋清',24,'2000-12-24',3,5,"090-9900-1234");

Query OK, 1 row affected (0.08 sec)

MariaDB [challengedb]> SELECT\*FROM profile;

userID	name	age	birthday	departmentID	stationID	tell
1	田中実	30	1994-02-01	3	1	0120-345-6789
2	鈴木茂	37	1987-08-12	3	4	090-1122-3344
3	鈴木実	24	2000-12-24	2	5	080-5566-7788
4	佐藤清	19	2005-08-01	1	5	012-0987-6543
5	高橋清	24	2000-12-24	3	5	090-9900-1234

5 rows in set (0.01 sec)

MariaDB [challengedb]> \_

```
MariaDB [challengedb]> CREATE TABLE foreign(departmentID int primary key,department varchar(255));
Query OK, 0 rows affected (0.20 sec)

MariaDB [challengedb]> INSTERT INTO foreign VALUES(1,'開発');
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 'INSTERT INTO foreign VALUES(1,'開発')' at line 1
MariaDB [challengedb]> INSERT INTO foreign VALUES(1,'開発');
Query OK, 1 row affected (0.06 sec)

MariaDB [challengedb]> INSERT INTO foreign VALUE(2,'運用');
Query OK, 1 row affected (0.07 sec)

MariaDB [challengedb]> INSERT INTO foreign VALUE(3,'保守');
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 'INSERT INTO foreign VALUE(3,'保守')' at line 1
MariaDB [challengedb]> INSERT INTO foreign VALUE (3,'保守');
Query OK, 1 row affected (0.05 sec)

MariaDB [challengedb]> SERECT*FROM foreign;
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 'SERECT*FROM foreign' at line 1
MariaDB [challengedb]> SELECT*FROM foreign;
```

departmentID	department
1	開発
2	運用
3	保守

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

MariaDB [challengedb]> CREATE TABLE foreign2(stationID int primary key,staition varchar(255));  
Query OK, 0 rows affected (0.22 sec)

MariaDB [challengedb]> INSERT INTO foreign2 VALUE(1,'熊本本社');  
Query OK, 1 row affected (0.07 sec)

MariaDB [challengedb]> INSERT INTO foreign2 VALUE(2,'船橋支部');  
Query OK, 1 row affected (0.07 sec)

MariaDB [challengedb]> INSERT INTO foreign2 VALUE(3,'多摩支部');  
Query OK, 1 row affected (0.06 sec)

MariaDB [challengedb]> INSERT INTO foreign2 VALUE(4,'町田支部');  
Query OK, 1 row affected (0.06 sec)

MariaDB [challengedb]> INSERT INTO foreign2 VALUE(5,'ルルイエ支部');  
Query OK, 1 row affected (0.08 sec)

MariaDB [challengedb]> SELECT\*FROM foreign2;

stationID	staition
1	熊本本社
2	船橋支部
3	多摩支部
4	町田支部
5	ルルイエ支部

5 rows in set (0.00 sec)

```
MariaDB [challengedb]> CREATE TABLE profile(userID int PRIMARY KEY,name varchar(255),age int,birthday date,  
-> departmentID INTEGER REFERENCES foreign(departmentID) ON DELETE CASCADE,  
-> stationID INTEGER REFERENCES foreign2(stationID) ON DELETE CASCADE);  
Query OK, 0 rows affected (0.64 sec)  
  
MariaDB [challengedb]> SELECT*FROM profile;  
Empty set (0.00 sec)  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(1,'田中実','0120-345-6789',30,'1994-02-01',3,1);  
ERROR 1136 (21S01): Column count doesn't match value count at row 1  
MariaDB [challengedb]> ALTER TABLE profile ADD tell;  
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 1  
MariaDB [challengedb]> ALTER TABLE profile ADD tell varchar(255);  
Query OK, 0 rows affected (0.28 sec)  
Records: 0  Duplicates: 0  Warnings: 0  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(1,'田中実',30,'1994-02-01',3,1,"0120-345-6789");  
Query OK, 1 row affected (0.05 sec)  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(2,'鈴木茂',37,'1987-08-12',3,4,"090-1122-3344");  
Query OK, 1 row affected (0.07 sec)  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(3,'鈴木実',24,'2000-12-24',2,5,"080-5566-7788");  
Query OK, 1 row affected (0.06 sec)  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(4,'佐藤清',19,'2005-08-01',1,5,"012-0987-6543");  
Query OK, 1 row affected (0.08 sec)  
  
MariaDB [challengedb]> INSERT INTO profile VALUE(5,'高橋清',24,'2000-12-24',3,5,"090-9900-1234");  
Query OK, 1 row affected (0.08 sec)
```

MariaDB [challengedb]> SELECT\*FROM profile;

userID	name	age	birthday	departmentID	stationID	tell
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5	高橋清	24	2000-12-24	3	5	090-9900-1234

5 rows in set (0.01 sec)