

MySQL課題

・Primary Key と Foreign Keyの宣言

//親テーブルを作成

```
mysql> CREATE TABLE department(departmentID int NOT NULL PRIMARY KEY,departmentName varchar(255))ENGINE = InnoDB;
```

```
mysql> CREATE TABLE station(stationID int NOT NULL PRIMARY KEY,stationName varchar(255))ENGINE = InnoDB;
```

//子テーブルを作成

```
mysql> 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));
```

//各レコードを追加

```
mysql> select* from department;
```

departmentID	departmentName
1	開発部
2	営業部
3	総務部

3 rows in set (0.00 sec)

```
mysql> 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)

```
mysql> 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 (0.01 sec)

//SHOW INDEXでインデックス情報を表示

```
mysql> SHOW INDEX FROM department;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
department	0	PRIMARY	1	departmentID	A	3	NULL	NULL		BTREE		

1 row in set (0.00 sec)

```
mysql> SHOW INDEX FROM station;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
station	0	PRIMARY	1	stationID	A	5	NULL	NULL		BTREE		

1 row in set (0.00 sec)

```
mysql> SHOW INDEX FROM user;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
user	0	PRIMARY	1	userID	A	5	NULL	NULL		BTREE		
user	1	departmentID	1	departmentID	A	5	NULL	NULL	YES	BTREE		
user	1	stationID	1	stationID	A	5	NULL	NULL	YES	BTREE		

3 rows in set (0.01 sec)