

Java/データベース基礎(9/9)

[実行コマンド1]

- ・table:deartment 作成
- ・department(にレコード登録

```
mysql> create table department(departmentID int  
primary key, departmentName varchar(255));
```

```
mysql> insert into department values(1,'開発部'),  
-> (2,'営業部'),  
-> (3,'総務部');
```

[実行結果1]

```
bin — mysql -u user -p — 80x24

[    -> (3,'総務部');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0

[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> show columns from department;

+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| departmentID   | int(11)       | NO   | PRI | NULL    |       |
| departmentName | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> █
```

[実行コマンド2]

- table:station 作成
- station にレコード登録

```
mysql> create table station(stationID int primary key, stationName  
varchar(255));
```

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

[実行結果2]

```
bin — mysql -u user -p — 80x24
Records: 5  Duplicates: 0  Warnings: 0

[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> show columns from station;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stationID  | int(11)       | NO   | PRI | NULL    |       |
| stationName | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> █
```

[実行コマンド3]

- table:user 作成
- user にレコード登録、primal key, foreign key 設定

```
mysql> create table user(userID int 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));
```

```
mysql> insert into user values(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);
```

[実行結果3-1] select * from user;

```
bin — mysql -u user -p — 91x25

-----+
1 row in set (0.00 sec)

mysql> insert into user values(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);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

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 (0.00 sec)
[
[mysql> █
```

[実行結果3-2] show create table user;

```
bin — mysql -u user -p — 114x39
mysql> show create table user;
+-----+
| Table | Create Table |
+-----+
| user  | CREATE TABLE `user` (
  `userID` int(11) NOT NULL,
  `name` varchar(255) DEFAULT NULL,
  `tell` varchar(255) DEFAULT NULL,
  `age` int(11) DEFAULT NULL,
  `birthday` date DEFAULT NULL,
  `departmentID` int(11) DEFAULT NULL,
  `stationID` int(11) DEFAULT NULL,
  PRIMARY KEY (`userID`),
  KEY `departmentID` (`departmentID`),
  KEY `stationID` (`stationID`),
  CONSTRAINT `user_ibfk_1` FOREIGN KEY (`departmentID`) REFERENCES `department` (`departmentID`),
  CONSTRAINT `user_ibfk_2` FOREIGN KEY (`stationID`) REFERENCES `station` (`stationID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |
+-----+
```


[実行結果3-3] show columns from user;

```
bin — mysql -u user -p — 93x25
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |
+-----+
|
|
|
|
|
|
|
+-----+
1 row in set (0.00 sec)

mysql> 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 (0.00 sec)

mysql> mysql> show columns from user;
```