## DB 기초

91714167 유재겸

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01 데이터베이스란?

03 Q&A

데이터베이스란??

🥅 제목 없음 - 메모장

- 🗆 X

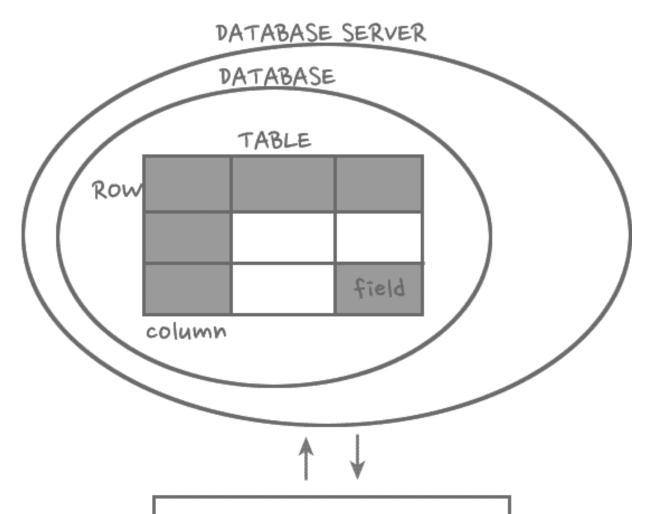
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파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

한국 아이돌중에 레드벨벳 이라는 그룹을 좋아합니다. 대표곡으로는 '빨간 맛','BAD BOY'등이 있구요, 발라드 가수중에는 윤종신을 좋아하는데, 대표곡으로는 '좋니', '오르막길'등이 있습니다.

<

	Α	В	С	D
1	가수	제목	발매일	재생시간
2	레드벨벳	빨간 맛	17.07.29	3:11
3	레드벨벳	BAD BOY	18.01.29	3:30
4	윤종신	좋니	17.06.22	5:28
5	윤종신	오르막길	16.01.20	4:49



#### DATABASE CLIENT

mysal monitor

PhpmyAdmin

Navicat

mysal query browser

실습

순서 MySQL 접속 데이터베이스 생성 테이블 생성 테이블에 데이터 삽입(2가지 방법) 데이터 변경 데이터 배열 데이터 삭제 테이블 삭제 데이터베이스 삭제

## MySQL 접속

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.17134.112]
(c) 2018 Microsoft Corporation. All rights reserved.
                 >mysql —u root —p
 nter password: *****
Welcome to the MySQL monitor. Commands end with ; or \sq.
Your MySQL connection id is 29
Server version: 5.1.41-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE `practice` CHARACTER SET utf8 COLLATE utf8_general_ci;
Query OK, 1 row affected (0.01 sec)
mysql> show databases
  Database
  information_schema
  baseball
  mysql
  phpmyadmin
  practice
5 rows in set (0.00 sec)
mysql>
```

### 데이터베이스 생성

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.17134.112]
(c) 2018 Microsoft Corporation. All rights reserved.
              ⊫mysql −u root −p
 nter password: *****
Welcome to the MySQL monitor. Commands end with ; or ₩g.
Your MySQL connection id is 29
Server version: 5.1.41-community MySQL Community Server (GPL)
[ype 'help;' or '\h' for help. Type '\c' to clear the current input statement.
nysql> CREATE DATABASE `practice` CHARACTER SET utf8 COLLATE utf8_general_ci;
Query UK, I row affected (0.01 sec)
mysql> show databases
 Database
  information_schema
 baseball
 mysql
 phpmyadmin
 practice
5 rows in set (0.00 sec)
mysql>
```

#### 데이터베이스 생성

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
Microsoft Windows [Version 10.0.17134.112]
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Your MySQL connection id is 29
Server version: 5.1.41-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> CREATE DATABASE `practice` CHARACTER SET utf8 COLLATE utf8_general_ci;
Query OK, 1 row affected (0.01 sec)
mysql> show databases
 Database
  information_schema
 baseball
 mysql
 phpmvadmin
  practice
5 rows in set (0.00 sec)
mysql>
```

#### 테이블 생성

\_\_\_\_\_

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                               \times
 row in set (0.02 sec)
mysql> DROP TABLE singsong
Query OK, O rows affected (0.01 sec)
nysql> CREATE TABLE singsong (
   -> `singer` char(10) NOT NULL,
-> `music` char(20) NOT NULL,
   -> `date` char(20) NOT NULL,
   -> `time` char(20) NOT
Juery UK, U rows affected (U.UZ sec)
mvsal> desc TABLE;
FROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near 'TABLE' at line 1
mysql> DESC singsong;
 Field | Type
                      Null | Key | Default | Extra
          char(10)
char(20)
                      NO
                                     NULL
 singer
                      NO
                                     NULL
 music
                                     NULL
           char(20)
                      NO
 date
 time
          char(20)
                                     NULL
 rows in set (0.02 sec)
mysql>
```

#### 테이블 생성

\_\_\_\_\_

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                                                     \times
  row in set (0.02 sec)
mysql> DROP TABLE singsong
Query OK, O rows affected (0.01 sec)
mysql> CREATE TABLE singsong (
-> `singer` char(10) NOT NULL,
-> `music` char(20) NOT NULL,
-> `date` char(20) NOT NULL,
-> `time` char(20) NOT NULL);
Query OK, O rows affected (0.02 sec)
RROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near 'TABLE' at line 1
mysql> DESC singsong;
  Field | Type
                          Null | Key | Default | Extra
             char(10)
char(20)
                          NO
                                           NULL
  singer
                          NO
                                           NULL
  music
                                           NULL
             char(20)
                          NO
  date
  time
             char(20)
                                           NULL
  rows in set (0.02 sec)
mysql>
```

## 테이블에 데이터 삽입(첫번째 방법)

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                               \times
mysql> DESC singsong;
                      Null | Key | Default | Extra
 Field | Type
          char(10)
                      NO
                                    NULL
 singer
           char(20)
                      NO
                                    NULL
 music
           char(20)
                      NO
                                     NULL
  date
           char(20)
                                     NULL
 time
 rows in set (0.02 sec)
mysql> INSERT INTO singsong VALUES(레드벨벳,빨간맛,17.07.29,03:11);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near '레드벨벳,빨간맛,17.07.29,03:11)' at line 1
mysql> INSERT INTO `singsong` VALUES(레드벨벳 빨간맛
     1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
              INTO singsong
Query UK, I row affected (U.UI sec)
mysql> select * from singsong
             music
                      date
                                  time
 singer
 레드벨벳 | 빨간맛 | 17.07.29 | 03:11
 row in set (0.00 sec)
mysal>
```

## 테이블에 데이터 삽입(첫번째 방법)

\_\_\_\_\_

```
    C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p

                                                                                                                                                                    X
mysal> DESC singsong;
                             Null | Key | Default | Extra
  Field | Type
             char(10)
                             NO
                                               NULL
  singer
              char(20)
                                               NULL
                             NO
  music
              char(20)
                             NO
                                                NULL
  date
              char(20)
                                               NULL
  time
  rows in set (0.02 sec)
mysql> INSERT INTO singsong VALUES(레드벨벳,빨간맛,17.07.29,03:11);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near '레드벨벳,빨간맛,17.07.29,03:11)' at line 1
mysql> INSERT INTO `singsong` VALUES(레드벨벳,빨간맛,17.07.29,03:11);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '레드벨벳,빨간맛,17.07.29,03:11)' at line 1
mysql> INSERT INTO `singsong` VALUES('레드벨벳','빨간맛','17.07.29','03;11');
Querv OK. 1 row affected (0.01 sec)
nysql> select * from singsong
                 music
                             date
                                             time
  singer
  레드벨벳 | 빨간맛 | 17.07.29 | 03:11
  row in set (0.00 sec)
mysql>
```

## 테이블에 데이터 삽입(첫번째 방법)

```
    C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p

                                                                                                                                         X
for the right syntax to use near '레드벨벳,빨간맛,17.07.29,03:11)' at line 1
mysql> INSERT INTO `singsong` VALUES('레드벨벳','빨간맛','17.07.29','03;11');
Query OK, 1 row affected (0.01 sec)
mysql> select * from singsong
              music | date
                                     time
  singer
  레드벨벳 | 빨간맛 | 17.07.29 | 03:11
  row in set (0.00 sec)
mysql> INSERT INTO `singsong` VALUES('레드벨벳','BAD BOY','18.01.29','03;30');
query UN, I row attected (U.UU sec)
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','좋니','17.06.22','5:28');
Query OK, 1 row affected (0.00 sec)
mysql> select * from singsong;
              music
                          date
                                      time
  singer
              빨간맛
BAD BOY
                                       03;11
                                      03;30
                          17.06.22
                                      5:28
  rows in set (0.00 sec)
mysql>
```

### 테이블에 데이터 삽입(두번째 방법)

```
    C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p

                                                                                                                                  X
for the right syntax to use near '레드벨벳,빨간맛,17.07.29,03:11)' at line 1
mysql> INSERT INTO `singsong` VALUES('레드벨벳','빨간맛','17.07.29','03;11');
Query OK, 1 row affected (0.01 sec)
mysql> select * from singsong
             music | date
                                   time
 singer
 레드벨벳 | 빨간맛 | 17.07.29 | 03:11
 row in set (0.00 sec)
mysql> INSERT INTO `singsong` VALUES('레드벨벳','BAD BOY','18.01.29','03;30');
Query OK, 1 row affected (0.00 sec)
ysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','좋니','17.06.22','5:28')
Query UN, I row affected (0.00 sec)
mysql> select * from singsong;
             music
                        date
                                    time
 singer
             빨간맛
BAD BOY
                         17.07.29 |
                                    03;11
                               .29 | 03;30
                        17.06.22 I
                                    5:28
 rows in set (0.00 sec)
mvsal>
```

#### 데이터 변경

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                 \times
mysql> [NSERT INTO_`singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','좋니','17.06.22','5:28');
Query OK, 1 row affected (0.00 sec)
mysql> select * from singsong;
            music
                      date
                                | time
 singer
            빨간맛
BAD BOY
                      17.07.29
                                 03;11
                                 03;30
                      17.06.22 | 5:28
 rows in set (0.00 sec)
ysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('1','1','1','1');
Query ON, I TOW affected (0.02 Sec)
mysql> select * from singsong
            music
                      date
                                 time
 singer
 레드벨벳
레드벨벳
            빨간맛
BAD BOY
                      17.07.29 | 03;11
                      18.01.29
                                03;30
            좋니
                      17.06.22 | 5:28
 rows in set (0.00 sec)
mysql>
```

#### 데이터 변경

\_\_\_\_\_

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                              \times
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','좋니','17.06.22','5:28');
Query OK, 1 row affected (0.00 sec)
mysql> select * from singsong;
             music
                         date
                                    | time
 singer
             빨간맛
BAD BOY
                         17.07.29
                                     03;11
                                     03;30
                         17.06.22 | 5:28
 rows in set (0.00 sec)
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('1','1','1','1');                      
Query OK, 1 row affected (0.02 sec)
mysql> select * from singsong
             music
                         date
                                     time
 singer
                         17.07.29 | 03;11
 rows in set (0.00 sec)
mysql>
```

#### 데이터 변경

```
    C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p

                                                                                                                                      \times
Database changed
mysql> select * from singsong
              music
                          date
                                       time
  singer
 레드벨벳
레드벨벳
윤종신
              빨간맛
BAD BOY
                          17.07.29 | 03;11
18.01.29 | 03;30
                          17.06.22 | 5:28
               좋니
  rows in set (0.00 sec)
mysql> UPDATE `singsong` SET `singer`='윤종신',`music`='오르막길',`date`='16.01.20', `time`='16.01.20' WHERE `music`='1'
Query UK, I row affected (U.UU sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from singsong;
              music
  singer
                            date
                                        time
  레드벨벳
레드벨벳
              빨간맛
BAD BOY
                            17.07.29 | 03;11
                            18.01.29 | 03;30
17.06.22 | 5:28
16.01.20 | 16.01.20
               좋니
오르막길
4 rows in set (0.00 sec)
mvsal>
```

#### 데이터 배열

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                     rows in set (0.00 sec)
nysql> select * from singsong order by date desc
            music
                        date
                                    time
 singer
 레드벨벳
레드벨벳
            BAD BOY
                         18.01.29
                                   03;30
            빨간맛
좋니
                        17.07.29
                                    03;11
                        17.06.22
                                    5:28
             호르막길
                        16.01.20 | 16.01.20
 rows in set (0.22 sec)
mysql> select * from singsong order by date isc;
     1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
ysql> select * from singsong order by date asc;
            music
                                   time
                        date
 singer
                        16.01.20 | 16.01.20
17.06.22 | 5:28
 표당한
레드벨벳
레드벨벳
            빨간맛
BAD BOY
                                    03;11
                        18.01.29
                                   03;30
 rows in set (0.02 sec)
mysql>
```

#### 데이터 삭제

```
C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p
                                                                                                                    \times
mysgl> select * from singsong;
            music
                        date
                                   time
 singer
 레드벨벳
레드벨벳
렝듲켍벳
            빨간맛
BAD BOY
                        18.07.29
                                   03:11
                        18.01.29
17.06.22
                                   03;30
             좋니
오르막길
                        16.01.20
                                   16.01.20
 rows in set (0.00 sec)
nysql> DELETE FROM `singsong` WHERE `music`='빨간맛';
Query UK, I row affected (U.UU sec)
mysql> select * from singsong;
                                   time
 singer
            music
                        date
            BAD BOY
                        18.01.29 | 03;30
            좋니
오르막길
                        17.06.22
                                   5:28
                        16.01.20 İ
                                   16.01.20
 rows in set (0.00 sec)
mysql>
```

#### 테이블 삭제

```
C:₩WINDOWS₩system32₩cmd.exe - mysql -u root -p
                                                                                                                                                       \times
               music
                             date
                                           time
  singer
 레드벨벳
레드벨벳
                              18.07.29 | 03:11
18.01.29 | 03;30
               빨간맛
BAD BOY
               좋니
오르막길
                              17.06.22
                                           5:28
                              16.01.20 | 16.01.20
  rows in set (0.00 sec)
mysql> DELETE FROM `singsong` WHERE `music`='빨간맛';
Query OK, 1 row affected (0.00 sec)
mysql> select * from singsong;
               music
                             date
                                           time
 singer
                             18.01.29 | 03;30
17.06.22 | 5:28
16.01.20 | 16.01.20
               BAD BOY
               좋니
오르막길
  rows in set (0.00 sec)
mysql> TRUNCATE singsong;
Query OK, O rows attected (0.02 sec)
mysql> select * from singsong;
Empty set (U.UU sec)
mysql>
```

### 순서: 데이터베이스 생성

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                                \times
              music
                          date
                                       time
 singer
                          18.01.29 | 03;30
17.06.22 | 5:28
              BAD BOY
              좋니
오르막길
                          16.01.20 | 16.01.20
 rows in set (0.00 sec)
mysql> TRUNCATE singsong;
Query OK, O rows affected (0.02 sec)
mysql> select * from singsong;
Empty set (0.00 sec)
mysql> show tables;
  Tables_in_practice
 singsong
  row in set (0.00 sec)
mysql> drop table singsong;
Query UK, U rows affected (U.01 sec)
mysql> show tables;
Liipty set (0.00 sec)
mysql>
```

### 데이터베이스 삭제

```
C:₩WINDOWS\system32\cmd.exe - mysql -u root -p
                                                                                                                             X
mysql>
mysql>
mvsal>
mysql> show databases;
 Database
  information_schema
  baseball
  mysql
  phpmyadmin
  practice
  rows in set (0.00 sec)
mysql> drop database practice;
Query OK, O rows affected (0.03 sec)
mysql> show databases;
 Database
  information_schema
  baseball
  mysql
 phpmyadmin
 rows in set (0.00 sec)
mysql>
```

# Q & A

## Thank you

나눔스퀘어