

DB 기초

91714167 유재겸

CONTENTS

01

데이터베이스란?

02

실습

03

Q&A

01

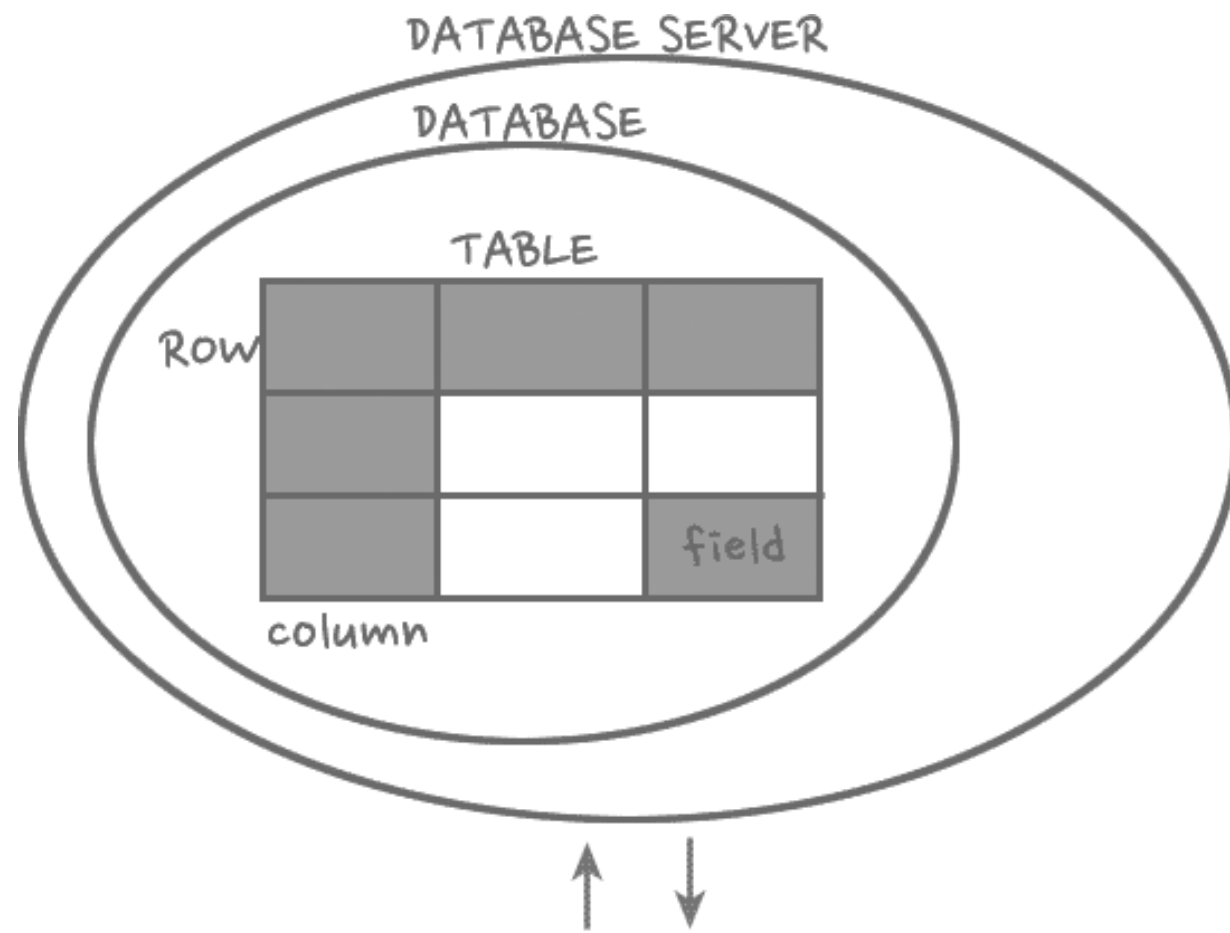
데이터베이스란??

제목 없음 - 메모장

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.

	A	B	C	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	종니	17.06.22	5:28
5	윤종신	오르막길	16.01.20	4:49



DATABASE CLIENT

mysql monitor

phpMyAdmin

Navicat

mysql query browser

02

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.

C:\Users\user>mysql -u root -p
Enter 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)

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.

C:\Users\user>mysql -u root -p
Enter 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)

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.

C:\Users\>mysql -u root -p
Enter 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)

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>
```

테이블 생성

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

1 row in set (0.02 sec)

mysql> DROP TABLE singsong

-> ;

Query OK, 0 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, 0 rows affected (0.02 sec)

mysql> desc TABLE;

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 'TABLE' at line 1

mysql> DESC singsong;

Field	Type	Null	Key	Default	Extra
singer	char(10)	NO		NULL	
music	char(20)	NO		NULL	
date	char(20)	NO		NULL	
time	char(20)	NO		NULL	

4 rows in set (0.02 sec)

mysql>

테이블 생성

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

1 row in set (0.02 sec)

mysql> DROP TABLE singsong

-> ;

Query OK, 0 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, 0 rows affected (0.02 sec)

mysql> desc TABLE;

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 'TABLE' at line 1

mysql> DESC singsong;

Field	Type	Null	Key	Default	Extra
singer	char(10)	NO		NULL	
music	char(20)	NO		NULL	
date	char(20)	NO		NULL	
time	char(20)	NO		NULL	

4 rows in set (0.02 sec)

mysql>

테이블에 데이터 삽입(첫번째 방법)

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

mysql> DESC singsong;

Field	Type	Null	Key	Default	Extra
singer	char(10)	NO		NULL	
music	char(20)	NO		NULL	
date	char(20)	NO		NULL	
time	char(20)	NO		NULL	

4 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');

Query OK, 1 row affected (0.01 sec)

mysql> select * from singsong

-> ;

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11

1 row in set (0.00 sec)

mysql>

테이블에 데이터 삽입(첫번째 방법)

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

```
mysql> DESC singsong;
```

Field	Type	Null	Key	Default	Extra
singer	char(10)	NO		NULL	
music	char(20)	NO		NULL	
date	char(20)	NO		NULL	
time	char(20)	NO		NULL	

4 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');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from singsong  
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11

1 row in set (0.00 sec)

```
mysql>
```

테이블에 데이터 삽입(첫번째 방법)

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

```
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
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11

1 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)
```

```
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;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	좋니	17.06.22	5:28

3 rows in set (0.00 sec)

```
mysql>
```


테이블에 데이터 삽입(두번째 방법)

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

```
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
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11

1 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)
```

```
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','좋은날','17.06.22','5:28');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from singsong;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	좋은날	17.06.22	5:28

3 rows in set (0.00 sec)

```
mysql>
```

데이터 변경

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

```
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','줄니','17.06.22','5:28');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from singsong;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	줄니	17.06.22	5:28

3 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  
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	줄니	17.06.22	5:28
1	1	1	1

4 rows in set (0.00 sec)

```
mysql>
```

데이터 변경

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

```
mysql> INSERT INTO `singsong` (`singer`,`music`,`date`,`time`) VALUES ('윤종신','줄니','17.06.22','5:28');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from singsong;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03;11
레드벨벳	BAD BOY	18.01.29	03;30
윤종신	줄니	17.06.22	5:28

3 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  
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03;11
레드벨벳	BAD BOY	18.01.29	03;30
윤종신	줄니	17.06.22	5:28
1	1	1	1

4 rows in set (0.00 sec)

```
mysql>
```

데이터 변경

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

Database changed

```
mysql> select * from singsong  
-> ;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	줄니	17.06.22	5:28
1	1	1	1

4 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 OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from singsong;
```

singer	music	date	time
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
윤종신	줄니	17.06.22	5:28
윤종신	오르막길	16.01.20	16.01.20

4 rows in set (0.00 sec)

```
mysql>
```

데이터 배열

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

4 rows in set (0.00 sec)

```
mysql> select * from singsong order by date desc  
-> ;
```

singer	music	date	time
레드벨벳	BAD BOY	18.01.29	03:30
레드벨벳	빨간맛	17.07.29	03:11
아이유	좋은날	17.06.22	5:28
아이유	오르막길	16.01.20	16.01.20

4 rows in set (0.22 sec)

```
mysql> select * from singsong order by date asc;  
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 'asc' at line 1
```

```
mysql> select * from singsong order by date asc;
```

singer	music	date	time
아이유	오르막길	16.01.20	16.01.20
아이유	좋은날	17.06.22	5:28
레드벨벳	빨간맛	17.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30

4 rows in set (0.02 sec)

mysql>

데이터 삭제

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

```
mysql> select * from singsong;
```

singer	music	date	time
레드벨벳	빨간맛	18.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
아이유	좋은날	17.06.22	5:28
아이유	오르막길	16.01.20	16.01.20

4 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;
```

singer	music	date	time
레드벨벳	BAD BOY	18.01.29	03:30
아이유	좋은날	17.06.22	5:28
아이유	오르막길	16.01.20	16.01.20

3 rows in set (0.00 sec)

```
mysql>
```

테이블 삭제

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

singer	music	date	time
레드벨벳	빨간맛	18.07.29	03:11
레드벨벳	BAD BOY	18.01.29	03:30
아이유	좋은날	17.06.22	5:28
방탄소년단	오르막길	16.01.20	16.01.20

4 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;
```

singer	music	date	time
레드벨벳	BAD BOY	18.01.29	03:30
아이유	좋은날	17.06.22	5:28
방탄소년단	오르막길	16.01.20	16.01.20

3 rows in set (0.00 sec)

```
mysql> TRUNCATE singsong;  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select * from singsong;  
Empty set (0.00 sec)
```

```
mysql>
```

순서 : 데이터베이스 생성

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

singer	music	date	time
레드벨벳	BAD BOY	18.01.29	03:30
아이유	좋은날	17.06.22	5:28
전지현	오르막길	16.01.20	16.01.20

3 rows in set (0.00 sec)

mysql> TRUNCATE singsong;

Query OK, 0 rows affected (0.02 sec)

mysql> select * from singsong;

Empty set (0.00 sec)

mysql> show tables;

Tables_in_practice
singsong

1 row in set (0.00 sec)

mysql> drop table singsong;

Query OK, 0 rows affected (0.01 sec)

mysql> show tables;

Empty set (0.00 sec)

mysql>

데이터베이스 삭제

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

```
mysql>  
mysql>  
mysql>  
mysql> show databases;
```

Database
information_schema
baseball
mysql
phpmyadmin
practice

5 rows in set (0.00 sec)

```
mysql> drop database practice;  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> show databases;
```

Database
information_schema
baseball
mysql
phpmyadmin

4 rows in set (0.00 sec)

```
mysql>
```

Q & A



Thank you

나눔스퀘어

