

데이터베이스 MYSQL

MYSQL - alter : modify | drop | add | change

```
C:\Users\TJ>mysql -u root -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.3.8-MariaDB mariadb.org binary distribution
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]> show databases;
```

```
+-----+
| Database          |
+-----+
| information_schema |
| member            |
| mysql             |
| performance_schema |
+-----+
4 rows in set (0.023 sec)
```

```
MariaDB [(none)]> use member;
Database changed
MariaDB [member]> show tables;
```

```
+-----+
| Tables_in_member |
+-----+
| notice           |
+-----+
1 row in set (0.000 sec)
```

```
////////////////////////////////////
//테이블 구조 보기
////////////////////////////////////
```

```
MariaDB [member]> describe notice;
```

```
+-----+-----+-----+-----+-----+-----+
| Field  | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| idx    | int(11)   | NO   | PRI | NULL    | auto_increment |
| wclass | varchar(10) | NO   |     | NULL    |                |
| wsubject | varchar(250) | NO   |     | NULL    |                |
| wdate  | date      | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.029 sec)

```
////////////////////////////////////  
//테이이블 내용 보기  
////////////////////////////////////
```

```
MariaDB [member]> select * from notice;  
Empty set (0.001 sec)
```

```
////////////////////////////////////  
//테이이블 필드 삭제하기  
//alter table notice drop idx;  
////////////////////////////////////
```

```
MariaDB [member]> alter table notice drop idx;  
Query OK, 0 rows affected, 2 warnings (0.683 sec)  
Records: 0 Duplicates: 0 Warnings: 2
```

```
////////////////////////////////////  
//삭제 후 테이이블 구조 보기  
////////////////////////////////////
```

```
MariaDB [member]> desc notice;
```

Field	Type	Null	Key	Default	Extra
wclass	varchar(10)	NO		NULL	
wsubject	varchar(250)	NO		NULL	
wdate	date	YES		NULL	

3 rows in set (0.007 sec)

```
////////////////////////////////////  
//Primary key 추가  
//alter table notice add primary key(idx);  
////////////////////////////////////
```

```
MariaDB [member]> alter table notice add primary key(idx);  
Query OK, 0 rows affected (0.433 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
////////////////////////////////////  
//Primary key 추가 후 확인  
////////////////////////////////////
```

MariaDB [member]> desc notice;

```
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| wclass     | varchar(10)   | NO   |     | NULL    |       |
| wsubject   | varchar(250)  | NO   |     | NULL    |       |
| wdate      | date          | YES  |     | NULL    |       |
| idx        | int(11)       | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.006 sec)
```

```
////////////////////////////////////
//Primary key 추가 후 자동 증가번호(auto_increment) 추가
//alter table notice modify idx int not null auto_increment;
////////////////////////////////////
```

MariaDB [member]> alter table notice modify idx int not null auto_increment;
Query OK, 0 rows affected, 2 warnings (0.528 sec)
Records: 0 Duplicates: 0 Warnings: 2

```
////////////////////////////////////
//자동 증가번호(auto_increment) 추가 후 확인
////////////////////////////////////
```

MariaDB [member]> desc notice;

```
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+
| wclass     | varchar(10)   | NO   |     | NULL    |               |
| wsubject   | varchar(250)  | NO   |     | NULL    |               |
| wdate      | date          | YES  |     | NULL    |               |
| idx        | int(11)       | NO   | PRI | NULL    | auto_increment |
+-----+-----+-----+-----+-----+
4 rows in set (0.007 sec)
```

```
////////////////////////////////////
//필드 위치 바꾸기 idx 맨위로
//alter table notice modify idx int not null auto_increment first;
////////////////////////////////////
```

MariaDB [member]> alter table notice modify idx int not null auto_increment first;
Query OK, 0 rows affected (0.348 sec)
Records: 0 Duplicates: 0 Warnings: 0

```
////////////////////////////////////
//필드 위치 바꾸기 idx 맨위로 이동 후 확인
////////////////////////////////////
```

MariaDB [member]> desc notice;

```
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+
| idx        | int(11)        | NO   | PRI | NULL     | auto_increment |
| wclass     | varchar(10)    | NO   |     | NULL     |                |
| wsubject   | varchar(250)   | NO   |     | NULL     |                |
| wdate      | date           | YES  |     | NULL     |                |
+-----+-----+-----+-----+-----+
4 rows in set (0.005 sec)
```

```
////////////////////////////////////
//필드 위치 바꾸기 wclass 맨 아래로 이동
//alter table notice modify wclass varchar(10) not null after wdate;
////////////////////////////////////
```

MariaDB [member]> alter table notice modify wclass varchar(10) not null after wdate;
Query OK, 0 rows affected (0.350 sec)
Records: 0 Duplicates: 0 Warnings: 0

```
////////////////////////////////////
//필드 위치 바꾸기 wclass 맨 아래로 이동 후 확인
////////////////////////////////////
```

MariaDB [member]> desc notice;

```
+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+
| idx        | int(11)        | NO   | PRI | NULL     | auto_increment |
| wsubject   | varchar(250)   | NO   |     | NULL     |                |
| wdate      | date           | YES  |     | NULL     |                |
| wclass     | varchar(10)    | NO   |     | NULL     |                |
+-----+-----+-----+-----+-----+
4 rows in set (0.006 sec)
```

```
////////////////////////////////////
//필드 위치 바꾸기 wdate 위에서 두번째 위치로 이동
//alter table notice modify wdate date after idx;
```


////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

MariaDB [member]> alter table notice modify idx int not null auto_increment;
Query OK, 0 rows affected, 2 warnings (0.458 sec)
Records: 0 Duplicates: 0 Warnings: 2

MariaDB [member]> desc notice;

Field	Type	Null	Key	Default	Extra
idx	int(11)	NO	PRI	NULL	auto_increment
wclass	varchar(10)	NO		NULL	
wsubject	varchar(250)	NO		NULL	
wdate	date	YES		NULL	
wname	varchar(50)	NO		NULL	

5 rows in set (0.007 sec)

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
//Primary key 추가
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

MariaDB [member]> alter table notice add primary key(idx);
Query OK, 0 rows affected (0.344 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [member]> desc notice;

Field	Type	Null	Key	Default	Extra
idx	int(11)	NO	PRI	NULL	
wclass	varchar(10)	NO		NULL	
wsubject	varchar(250)	NO		NULL	
wdate	date	YES		NULL	
wname	varchar(50)	NO		NULL	

5 rows in set (0.005 sec)

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
//필드 이름 변경
//alter table notice change wname name varchar(100) not null;
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

MariaDB [member]> alter table notice change wname name varchar(100) not null;
Query OK, 0 rows affected, 2 warnings (0.536 sec)
Records: 0 Duplicates: 0 Warnings: 2

MariaDB [member]> desc notice;

Field	Type	Null	Key	Default	Extra
idx	int(11)	NO	PRI	NULL	auto_increment
wclass	varchar(10)	NO		NULL	
wsubject	varchar(250)	NO		NULL	
wdate	date	YES		NULL	
name	varchar(100)	NO		NULL	

5 rows in set (0.008 sec)

MariaDB [member]>