



**char(size)**

255

varchar(size)

tinytext(size)

255

binary(size)

255

text(size)

65535

mediumtext(size)

16777215

longtext(size)

longtext 4GB 4,294,967,295



**bit**

0 1

tinyint

\-128 127 0 255

smallint

-32768 32767 0 65535

mediumint

-8388608 8388607 0 16777215

int(integer)

\-2147483648 2147483647 0 4294967295

bigint

-9223372036854775808 9223372036854775807 0 18446744073709551615

float

4

double

float 8

Signed

Unsigned

Length

ZeroFill

ZeroFill

0 ZeroFill Unsigned

AUTO\_INCREMENT

## date

"1000-01-01" "9999-12-31" 'yyyy-mm-dd'

datetime

"1000-01-01 00:00:00" "9999-12-31 23:59:59" 'yyyy-mm-dd hh:mm:ss'

timestamp(m)

"1970-01-01 00:00:01" utc "2038-01-19 03:14:07" utc 'yyyy-mm-dd hh:mm:ss'

time

"-83859" "83859" 'hh:mm:ss'

year[(2/4)]

24

(LOB)

## tinyblob

255

blob(size)

65535

mediumblob

16777215

longtext

4GB 4,294,967,295

INET6

IPv6 MAC

JSON

json\_valid JSON

ENUM

65,535

SET

64

```
create database ; #  
show databases; #
```

```
SELECT VERSION(); #  
SELECT USER(); #  
SHOW
```

```
use ; #
```

```
create table table (  
->  
->  
->  
-> );
```

```
MariaDB [(none)]> use demo;  
Database changed  
MariaDB [demo]> create table result (  
->     event_id MEDIUMINT NOT NULL AUTO_INCREMENT,  
->     status varchar(30),  
->     date datetime,  
->     primary key (event_id)  
-> );
```

```
drop database ; #  
drop table ;  
alter table drop column ;
```

add

```
show columns from from ; #
```

```
describe ;  
desc ;
```

```
select user,host from mysql.user; #[] [] [] [] [] [] [] [] [] []
```

```
rename user 'root'@'127.0.0.1' to 'imaghost'@'127.0.0.1'; #[] [] [] [] [] []
```

```
create user 'username'@'hostname' identified by '[]'; #[] [] [] []
```

[] [] hostname[] [] %[] [] [] [] [] []

```
grant all on [] [] [] *. * to 'username'@'localhost';  
or  
grant SELECT,INSERT,UPDATE,DELETE on [] [] [] *. * to 'username'@'hostname';
```

[] [] [] [] [] [] [] [] [] []

```
show grants for 'user'@'hostname'; #[] [] [] [] [] []
```

```
show grants; #[] [] [] [] [] []
```

```
revoke all privileges on [] [] [] .table from 'username'@'hostname';
```

[] [] [] [] [] [] [] []

```
revoke all privileges,grant option from 'username'@'hostname';
```

[] [] [] [] [] [] [] []

```
drop user 'username'@'hostname'; #[] [] [] []
```

```
mysql_secure_installation #[] [] [] []
```

## select [] []

[] [] [] [] [] [] [] [] [] [] [] []

```
select * from `[] [] [] []`;  
select * from `news`;
```

[] [] [] [] [] [] [] []

```
select `id`, `name` from `news`;  
select `id`, `name` from `news`;
```

## where 1

1

```
select * from `news` where `id` = 1;  
select * from `news` where `id` = 1;
```

110

```
select * from `news` where `id` = 1 and `pageviews` > 10;  
select * from `news` where `id` = 1 and `pageviews` > 10;
```

## where in 1 2 3

1 2 3

```
select * from `news` where `id` in (1, 2, 3);  
select * from `news` where `id` in (1, 2, 3);
```

## where is null 1 2 null

1 2 null

```
select * from `news` where `id` is null;  
select * from `news` where `id` is null;
```

## where is not null 1 2 3 null

1 2 3 null

```
select * from `news` where `id` is not null;  
select * from `news` where `id` is not null;
```

## order by 1

1

```
select * from `news` order by `id` asc;  
select * from `news` order by `id` asc;
```

[illegible]

```
select * from `news` order by `id` desc;
```

```
select * from `news` order by binary(CONVERT(`name` using big5))
select * from news order by binary(CONVERT(`name` using big5))
```

limit 

--	--	--	--

--	--	--	--	--	--

```
SELECT * FROM `news` LIMIT 5
```

□□□□□□□□□□(□□□□□10\~15□)

```
SELECT * FROM `news` LIMIT 5,10
```

group ☐ ☐

```
SELECT * FROM `news` GROUP BY `release date`;
```

```
SELECT COUNT(*) FROM `news` GROUP BY `release_date`;
```

insert 

--	--	--	--

--	--	--	--	--	--	--

```
insert into `news` (`title`,`release_date`) VALUES ('[REDACTED]', '[REDACTED]');
insert into `news` (`title`,`release_date`) VALUES ('[REDACTED]', '1990-05-09');
```

## ALTER TABLE [table]

```
ALTER TABLE `users` ADD `password` VARCHAR(255) COMMENT '密码';
ALTER TABLE `news` ADD deleted_at TIMESTAMP NULL COMMENT '删除时间';
```

## update 用户

```
UPDATE `users` SET `name` = '张三', `age` = '25';
UPDATE `news` SET `title` = 'MySQL入门!', `release_date` = '2020-02-02';
```

## 5. 更新用户信息

SQL 更新 'Premium' 用户的 total\_purchases 值

```
UPDATE customers
SET total_purchases = (
    SELECT SUM(amount)
    FROM orders
    WHERE orders.customer_id = customers.customer_id
)
WHERE customer_type = 'Premium';
```

更新密码

```
update 'users' pwd=md5(pwd);
```

```
1 | UPDATE `testmd5` SET pwd=MD5(pwd);
```

运行后刷新得到结果

1 信息 2 表数据 3 信息			
<input type="checkbox"/>	id	name	pwd
<input type="checkbox"/>	1	张三	1f32aa4c9ald2ea010adcf2348166a04
<input type="checkbox"/>	4	小陈	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	2	李四	e10adc3949ba59abbe56e057f20f883e
<input type="checkbox"/>	3	王五	fcea920f7412b5da7be0cf42b8c93759
<input type="checkbox"/>	*	(NULL)	(NULL)

```
1 | UPDATE `testmd5` SET pwd=MD5(pwd);
```

运行后刷新得到结果

1 信息		
2 表数据		
3 信息		
id	name	pwd
1	张三	1f32aa4c9ald2ea010adcf2348166a04
4	小陈	25d55ad283aa400af464c76d713c07ad
2	李四	e10adc3949ba59abbe56e057f20f883e
3	王五	fcea920f7412b5da7be0cf42b8c93759
*	(NULL)	(NULL)

delete

删除id为1的记录

```
delete from `testmd5` WHERE `id` = 1;  
delete from `news` WHERE `id` = 1;
```

truncate

清空表数据

```
truncate table `testmd5`;  
truncate table `news`;
```

md5

```
md5('1234')
```

Revision #1

Created 18 September 2024 14:00:15 by Ron

Updated 18 September 2024 14:29:09 by Ron