



char(size)

255

varchar(size)

4

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

'-838 59 59' '838 59 59' 'hh:mm:ss'

year[(2/4)]

2 4 4

(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

where

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

where

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

where in

where in

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

where is null

where is null

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

where is not null

where is not null

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

order by

order by

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



```
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` = '18';
UPDATE `news` SET `title` = 'MySQL!', `release_date` = '2020-02-02';
```

5. 更新用户信息

SQL 更新用户 'Premium' 的 total_purchases 值

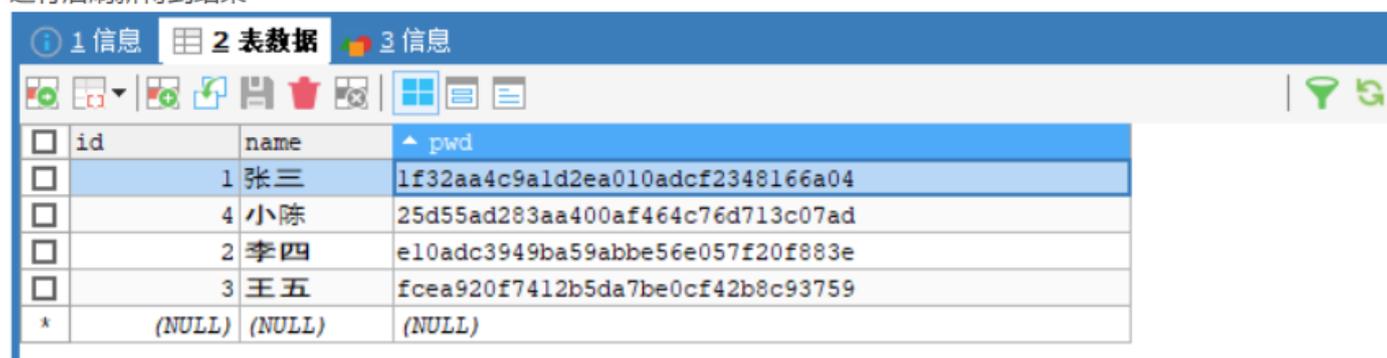
```
UPDATE customers
SET total_purchases = (
    SELECT SUM(amount)
    FROM orders
    WHERE orders.customer_id = customers.customer_id
)
WHERE customer_type = 'Premium';
```

更新密码

```
update 'testmd5' pwd=md5(pwd);
```

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

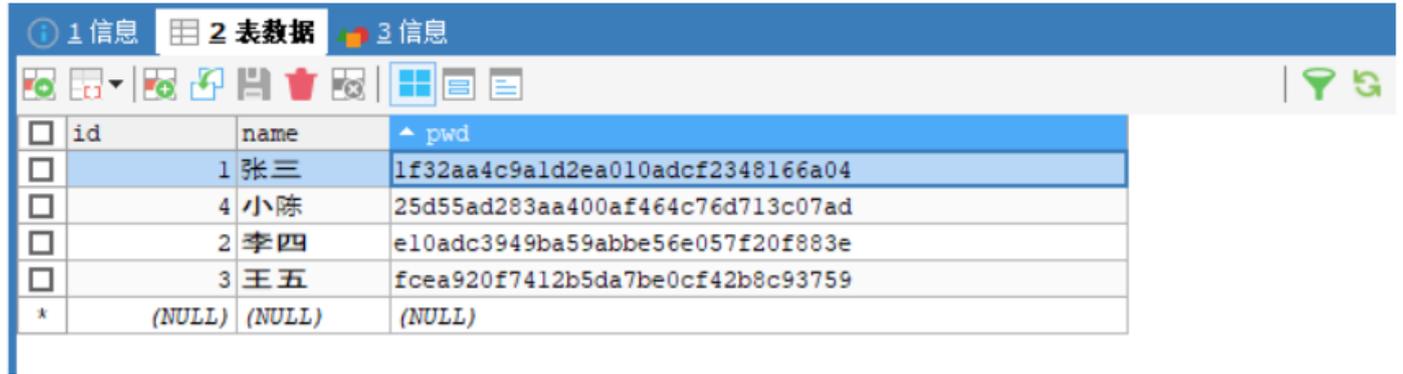
运行后刷新得到结果



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

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

运行后刷新得到结果



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

delete

"1"

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

truncate

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

md5

```
md5('test')
```

Revision #1

Created 18 September 2024 14:00:15 by Ron

Updated 18 September 2024 14:29:09 by Ron