

Mysql & MairaDB

- [\[link\]](#)



□□□□	□□□□	□□
□□□□□□	<code>mysqldump -u user -p dbname > backup.sql</code>	□□□□□□□□□□□□
□□□□□□	<code>mysqldump -u user -p dbname tablename > table.sql</code>	□□□□□□□□
□□□□□□	<code>mysqldump -u user -p --databases db1 db2 > multi.sql</code>	□□□□□□□□□□
□□□□□□	<code>mysqldump -u user -p --all-databases > all.sql</code>	□□□□ MariaDB □□□□□□□□
□□□□□□/□□	<code>mysqldump -u user -p --routines --triggers dbname > full.sql</code>	□□ Stored Procedures □ Triggers□
□□□□□□ (□□□□)	<code>mysqldump -u user -p --single-transaction dbname > backup.sql</code>	□□ InnoDB□□□□□□□□□□□□
□□□□□ (Events)	<code>mysqldump -u user -p --events dbname > events.sql</code>	□□□□□□□□

□□:

- `-u` □□□□□□□□
- `-p` □□□□□□□□□□□□□□
- □□□□□□□□
- `backup.sql` □□□□□□□□
- `--single-transaction` □□□□□□□□□□□□□□
- `--routines` □□□□□□ (Stored Procedures)□
- `--triggers` □□□□□□ (Triggers)□
- `--events` □□□□□□ (Events)□
- `[mysqldump [--databases [--all-databases [`
- `[--single-transaction [`
- □□□□□□□□□□□□□□□□□□



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

□'-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 [db].* to 'username'@'hostname';
```

[db]

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

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

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

[db]

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

[db]

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

```
mysql_secure_installation # [db]
```

select [db]

[db]

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

[db]

```
select `[db]`, `[db]` from `[db]`;
select `id`, `name` from `news`;
```

where [db]

[db] "1" [db]

```
select * from `[db]` where `[db]` = 1;
select * from `news` where `id` = 1;
```

[db]"1"[db]"10"[db]

□□□□□

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

□□□□□□□□□□□□□□(□□□□□10\~15□)

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

group □□

□□□□□□□□□□□□□□

```
SELECT * FROM `□□□□` GROUP BY `□□□`;  
SELECT * FROM `news` GROUP BY `release_date`;
```

□□□□□□□□□□□□□□(□□□□□□□□)

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

insert □□□□

□□□□□□

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

ALTER TABLE □□□□□□

```
ALTER TABLE `□□□□` ADD `□□□□□` □□□□□ □□□□□ COMMENT '□□□□□';  
ALTER TABLE `news` ADD deleted_at TIMESTAMP NULL COMMENT '□□□□';
```

update □□□□

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

5.□□□□□□□□□□

SQL □□□□□□□□□□ 'Premium' □□□□□□□□□□□□□□□□□□□□ total_purchases □□□

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

□□□□

```
update '□□□' 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 `□□□□` WHERE `□□□` = 1;
delete from `news` WHERE `id` = 1;
```

truncate ☐☐

☐☐☐☐☐☐☐☐☐☐

```
truncate table `☐☐☐☐`;  
truncate table `news`;
```

☐☐☐☐md5

```
md5('☐☐☐☐')
```