

SQL数据类型-DEMO

一、int(M)、tinyint(M)[需要设置填充零]

```
1 CREATE TABLE int_test (
2     `id` INT ( 11 ) NOT NULL AUTO_INCREMENT,
3     `state1` TINYINT ( 1 ) UNSIGNED ZEROFILL DEFAULT NULL,
4     `state2` TINYINT ( 2 ) , /*有符号数*/
5     `state3` TINYINT ( 3 ) UNSIGNED ZEROFILL DEFAULT NULL,
6     `state4` INT ( 1 ) UNSIGNED ZEROFILL DEFAULT NULL,
7     `state5` INT ( 2 ) , /*有符号数*/
8     `state6` INT ( 3 ) UNSIGNED ZEROFILL DEFAULT NULL,
9     PRIMARY KEY ( `id` )
10 ) ENGINE = MyISAM DEFAULT CHARSET = utf8;
11
12 insert into int_test (state1,state2,state3,state4,state5,state6)
13 values
14 (6,6,6,6,6,6),
15 (66,66,66,66,66,66),
16 (255,255,255,255,255,255),
17 (256,256,256,256,256,256);
```

- TINYINT(M)

```
1 select state1,state2,state3 from int_test;
```

state1	state2	state3
6	6	006
66	66	066
255	127	255
255	127	255

- INT(M)

```
1 select state4,state5,state6 from int_test;
```

state4	state5	state6
6	6	006
66	66	066
255	255	255
256	256	256

- INT(1)&TINYINT(3)

```
1 | select state3,state4 from int_test;
```

state3	state4
006	6
066	66
255	255
255	256

二、decimal、float、double

```
1 | create table decimal_test(  
2 |     float_col float,  
3 |     double_col double,  
4 |     dec1_col decimal(5,0),  
5 |     dec2_col decimal(5,2)  
6 | );  
7 |  
8 | insert into decimal_test values  
9 | (0.999001,0.999001,1.5,1.5),  
10 | (0.9990001,0.9990001,2.4,2.4),  
11 | (0.9990011,0.9990011,9.9,9.9),  
12 | (0.9990015,0.9990015,1000,1000),  
13 | (100000,100000,100000,100000);
```

- FLOAT&DOUBLE

```
1 | select float_col,double_col from decimal_test;
```

float_col	double_col
0.999001	0.999001
0.999	0.9990001
0.999001	0.9990011
0.999002	0.9990015
100000	100000

- DECIMAL(length, precision)

```
1 | select dec1_col,dec2_col from decimal_test;
```

dec1_col	dec2_col
2	1.50
2	2.40
10	9.90
1000	999.99
99999	999.99

三、char、varchar、nvarchar、text

```
1 create table char_test(  
2     char_col CHAR(10), /*默认为1*/  
3     varchar_col varchar(10) /*必须注明位数*/  
4 );  
5 /*nvarchar_col nvarchar(5) (必须注明位数)*/  
6  
7 insert into char_test values  
8 ('string1','string1'),  
9 (' string2',' string2'),  
10 ('string3 ','string3 ');
```

- CHAR&VARCHAR

```
1 select concat('','',char_col,''),concat('','',varchar_col,'') from  
   char_test;
```

concat('','',char_col,'')	concat('','',varchar_col,'')
'string1'	'string1'
' string2'	' string2'
'string3 '	'string3 '

```
1 select * from char_test where char_col='string3' and  
   length(char_col)=length('string3');
```

char_col	varchar_col
string3	string3

```
1 select * from char_test where varchar_col='string3' and  
   length(varchar_col)=length('string3');
```

char_col	varchar_col
(N/A)	(N/A)

四、datetime、timestamp

```
1 create table time_test(  
2     datetime_col datetime,  
3     timestamp_col timestamp  
4 );  
5  
6 insert into time_test values (null,null);
```

```
1 select * from time_test;
```

datetime_col	timestamp_col
(Null)	2023-03-12 12:42:33

五、enum、set

```

1 create table enum_test(
2     e enum('fish','apple','dog') NOT NULL,
3     s enum('fish','apple','dog') NOT NULL
4 );
5
6 insert into enum_test(e,s) values
7 ('fish','fish'),
8 ('dog','dog'),
9 ('god','god'),
10 ('lv','lv'),
11 ('fish','fish');
```

```
1 select * from enum_test;
```

e	s
fish	fish
dog	dog
fish	fish

```
1 select e+1,s+1 from enum_test;
```

e+1	s+1
2	2
4	4
1	1
1	1
2	2

六、binary、varbinary、bit、blob

```

1 CREATE TABLE bin_test (
2     `bin_col` binary(3), /*默认为1*/
3     `varbin_col` varbinary(3), /*必须注明位数*/
4     `bit_col` bit(3), /*默认为1*/
5     `blob_col` blob
6 ) ;
7
8 insert into bin_test (bin_col,varbin_col,bit_col,blob_col) values
9 (1212,1212,1,1),
10 (2121,2121,2,222222222222);
```

- binary&varbinary

```
1 | select bin_col,varbin_col from bin_test;
```

bin_col	varbin_col
121	121
212	212

- bit(M)

```
1 | select bit_col from bin_test;
```

bit_col
001
010

- blob

```
1 | select blob_col from bin_test;
```

blob_col
(BLOB) 1 bytes
(BLOB) 12 bytes