

Mysql-SQL&Function

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# 零 参考资料

《高性能Mysql 第三版》

官方文档：

<https://dev.mysql.com/doc/refman/5.7/en/functions.html>

<https://dev.mysql.com/doc/refman/5.7/en/sql-statements.html>

# Functions and Operators

## 概述

## 运算符

### 概述

* + - 1. 操作符 =，用于赋值（assignment）还是比较(comparison),优先级不同
      2. 如果同级别优先级，赋值时从右往左，其他情况从左往右

1. --优先级从上到下依次递减
2. INTERVAL
3. **BINARY**, **COLLATE**
4. !
5. - (unary minus), ~ (unary **bit** inversion)
6. ^
7. \*, /, DIV, %, MOD
8. -, +
9. <<, >>
10. &
11. |
12. = (comparison), <=>, >=, >, <=, <, <>, !=, **IS**, LIKE, REGEXP, IN
13. BETWEEN, CASE, **WHEN**, **THEN**, **ELSE**
14. NOT
15. AND, &&
16. XOR
17. OR, ||
18. = (assignment), :=

|  |  |
| --- | --- |
| 运算符 | 描述 |
| 位运算 | |
| & | 位运算，与 |
| >> | 右移位 |
| << | 左移位 |
| %, MOD | 取模 |
| \* | 乘法 |
| + | 加法 |
| - | 减法 |
| - |  |
| -> | 获取指定JSON column值的指定属性; equivalent to JSON\_EXTRACT(). |
| ->> | 获取指定JSON column值的指定属性; equivalent to JSON\_UNQUOTE(JSON\_EXTRACT()).在5.7.13引入 |
| / | 除法 |
| 逻辑运算符 | |
| AND, && | 逻辑，与 |
| OR | 逻辑运算，或 |
| NOT, ! | 否定运算符  默认情况下，！的优先级高于NOT  HIGH\_NOT\_PRECEDENCE启用时，两则优先级相同 |
| || | 默认情况下，位逻辑运算符或，同 OR运算符；  当PIPES\_AS\_CONCAT启用时，则为字符串连接符 |
| XOR | 逻辑运算，非或 |
| 其他 | |
| := | 赋值 |
| = | 赋值，用于SET语句 |
| = | 等于 |
| ^ | 位运算，异或 |
| BINARY | 将字符串转成二进制字符串 |
| CASE | Case |
| DIV | 整数除法 |
| REGEXP | 正则 |
| NOT REGEXP | 不匹配正则 |
| RLIKE | Whether string matches regular expression |
| SOUNDS LIKE | Compare sounds |
| | | 位运算，或 |
| ~ | 位运算，取反 |

### 比较运算符

* + - 1. 比较类运算符，结果有1(TRUE)，0(FALSE)，NULL，除了LEAST() 和 GREATEST()
      2. 会根据实际值，数值和字符串会自动转换
      3. 比较符 =,>,<,>=,<=,<>,!= 不仅能用于值比较，还可以用于row comparisons
      4. 默认情况下，字符串比较大小写不敏感

|  |  |
| --- | --- |
| 运算符 | 描述 |
| > | 大于  支持row comparisons即：  (a, b) > (x, y)  等价于  (a > x) OR ((a = x) AND (b > y)) |
| >= | 大于等于  支持row comparisons即：  (a, b) >= (x, y)  等价于  (a > x) OR ((a = x) AND (b >= y)) |
| < | 小于  支持row comparisons即：  (a, b) < (x, y)  等价于  (a < x) OR ((a = x) AND (b < y)) |
| <>, != | 不等于  支持row comparisons即：  (a, b) <> (x, y) 或者(a, b) != (x, y)  等价于  (a <> x) OR (b <> y) |
| <= | 小于等于  支持row comparisons即：  (a, b) <= (x, y)  等价于  (a < x) OR ((a = x) AND (b <= y)) |
| <=> | NULL-safe equal.  具体效果如下   1. **SELECT** 1 <=> 1, NULL <=> NULL, 1 <=> NULL; 2. -> 1, 1, 0 3. **SELECT** 1 = 1, NULL = NULL, 1 = NULL; 4. -> 1, NULL, NULL   支持row comparisons即：  (a, b) <=> (x, y)  等价于  (a <=> x) AND (b <=> y) |
| = | 等于 |
| ***expr*** BETWEEN ***A*** AND ***B*** | 大于等于A，小于等于B之间的值, |
| ***expr*** NOT BETWEEN ***A*** AND ***B*** | 不在大于等于A，小于等于B之间的值 |
| ***expr*** IN() | 1. 值是否在指定集合内，实际判断，通过二进制值判断 2. IN的元素个数由max\_allowed\_packet参数限制，默认4MB 3. 比较结果返回NULL情况   a ***expr***为 NULL  b IN中元素没有匹配值，且其中一个元素为NULL   1. 支持row comparisons即 2. **SELECT** (3,4) IN ((1,2), (3,4)); 3. -> 1 4. **SELECT** (3,4) IN ((1,2), (3,5)); 5. -> 0   5.隐式转换的坑：   1. --这里字符会被转为浮点型0.0,所以结果都为1(TRUE) 2. **SELECT** 'a' IN (0), 0 IN ('b'); 3. -> 1, 1 |
| ***expr*** NOT IN() | 不在指定集合，其他同IN |
| ***A*** IS ***B*** | 判断值是否符合，B的结果值可以是1(TRUE)，0(FALSE)，UNKNOWN   1. **SELECT** 1 **IS** **TRUE**, 0 **IS** **FALSE**, NULL **IS** UNKNOWN; 2. -> 1, 1, 1 |
| IS NULL | 1判断值是否NULL  2对于自增字段：  2.1 如果sql\_auto\_is\_null参数为1，则下面语句会返回最后插入的记录  **SELECT** \* **FROM** tbl\_name **WHERE** auto\_col **IS** NULL  2.2 如果sql\_auto\_is\_null参数为0，则不返回数据  3 对于DATE和DATETIME的非空字段，对应的0值数据，可以通过下面方式查找：  SELECT \* FROM tbl\_name WHERE date\_column IS NULL |
| IS NOT | 判断值是否不符合，其他与IS 相同 |
| IS NOT NULL | 判断值是否非NULL，其他与IS NULL相同 |
| LIKE | 简单的模式匹配 |
| NOT LIKE | 不符合简单的模式匹配 |
| COALESCE(...) | 返回集合中第一个非NULL值，如果集合中都是NULL，则返回NULL |
| GREATEST(...) | 返回集合中最大的值；  如果是字符串，则按照指定的字符集排序规则获取最大值；  如果集合中都是NULL，则返回NULL |
| INTERVAL(N，N1，N2...) | 通过二进制比较，在N1，N2，N3。。。集合中找到第一个大于N的值下标  下标从0开始，即如果N1>N，则返回0，如果N2>N返回1  如果N为NULL或找不到，返回-1 |
| ISNULL(expr) | 如果expr结果值异常或为NULL，则返回1，其他情况返回0   1. **SELECT** ISNULL(1+1); 2. -> 0 3. **SELECT** ISNULL(1/0); 4. -> 1   因为值与NULL比较，结果总为NULL，所以，可以用ISNULL代替  其他大部分行为跟IS NULL 相同 |
| LEAST(v1,v2,v3...) | 获取集合中最小的值  如果集合元素都是NULL，返回NULL  如果元素都是整数，按整数比较  如果元素有一个是双精度浮点型，都转为转双精度浮点型比较  如果元素有一个是DECIMAL，都转为转DECIMAL比较  如果元素是数值和字符混合，则都按数值比较  如果元素都是非二进制字符串，则都按非二进制字符串比较  如果其他情况，都按对应的二进制字符串比较 |

## Control Flow Functions

|  |  |
| --- | --- |
| **Name** | **Description** |
| CASE | Case operator |
| IF() | If/else construct |
| IFNULL() | Null if/else construct |
| NULLIF() | Return NULL if expr1 = expr2 |

## Numeric Functions and Operator

|  |  |
| --- | --- |
| Name | **Description** |
| %, MOD | Modulo operator |
| \* | Multiplication operator |
| + | Addition operator |
| - | Minus operator |
| - | Change the sign of the argument |
| / | Division operator |
| ABS() | Return the absolute value |
| ACOS() | Return the arc cosine |
| ASIN() | Return the arc sine |
| ATAN() | Return the arc tangent |
| ATAN2(), ATAN() | Return the arc tangent of the two arguments |
| CEIL() | Return the smallest integer value not less than the argument |
| CEILING() | Return the smallest integer value not less than the argument |
| CONV() | Convert numbers between different number bases |
| COS() | Return the cosine |
| COT() | Return the cotangent |
| CRC32() | Compute a cyclic redundancy check value |
| DEGREES() | Convert radians to degrees |
| DIV | Integer division |
| EXP() | Raise to the power of |
| FLOOR() | Return the largest integer value not greater than the argument |
| LN() | Return the natural logarithm of the argument |
| LOG() | Return the natural logarithm of the first argument |
| LOG10() | Return the base-10 logarithm of the argument |
| LOG2() | Return the base-2 logarithm of the argument |
| MOD() | Return the remainder |
| PI() | Return the value of pi |
| POW() | Return the argument raised to the specified power |
| POWER() | Return the argument raised to the specified power |
| RADIANS() | Return argument converted to radians |
| RAND() | Return a random floating-point value |
| ROUND() | Round the argument |
| SIGN() | Return the sign of the argument |
| SIN() | Return the sine of the argument |
| SQRT() | Return the square root of the argument |
| TAN() | Return the tangent of the argument |
| TRUNCATE() | Truncate to specified number of decimal places |

## Date and Time function

|  |  |
| --- | --- |
| Name | **Description** |
| ADDDATE() | Add time values (intervals) to a date value |
| ADDTIME() | Add time |
| CONVERT\_TZ() | Convert from one time zone to another |
| CURDATE() | Return the current date |
| CURRENT\_DATE(), CURRENT\_DATE | Synonyms for CURDATE() |
| CURRENT\_TIME(), CURRENT\_TIME | Synonyms for CURTIME() |
| CURRENT\_TIMESTAMP(), CURRENT\_TIMESTAMP | Synonyms for NOW() |
| CURTIME() | Return the current time |
| DATE() | Extract the date part of a date or datetime expression |
| DATE\_ADD() | Add time values (intervals) to a date value |
| DATE\_FORMAT() | Format date as specified |
| DATE\_SUB() | Subtract a time value (interval) from a date |
| DATEDIFF() | Subtract two dates |
| DAY() | Synonym for DAYOFMONTH() |
| DAYNAME() | Return the name of the weekday |
| DAYOFMONTH() | Return the day of the month (0-31) |
| DAYOFWEEK() | Return the weekday index of the argument |
| DAYOFYEAR() | Return the day of the year (1-366) |
| EXTRACT() | Extract part of a date |
| FROM\_DAYS() | Convert a day number to a date |
| FROM\_UNIXTIME() | Format Unix timestamp as a date |
| GET\_FORMAT() | Return a date format string |
| HOUR() | Extract the hour |
| LAST\_DAY | Return the last day of the month for the argument |
| LOCALTIME(), LOCALTIME | Synonym for NOW() |
| LOCALTIMESTAMP, LOCALTIMESTAMP() | Synonym for NOW() |
| MAKEDATE() | Create a date from the year and day of year |
| MAKETIME() | Create time from hour, minute, second |
| MICROSECOND() | Return the microseconds from argument |
| MINUTE() | Return the minute from the argument |
| MONTH() | Return the month from the date passed |
| MONTHNAME() | Return the name of the month |
| NOW() | Return the current date and time |
| PERIOD\_ADD() | Add a period to a year-month |
| PERIOD\_DIFF() | Return the number of months between periods |
| QUARTER() | Return the quarter from a date argument |
| SEC\_TO\_TIME() | Converts seconds to 'hh:mm:ss' format |
| SECOND() | Return the second (0-59) |
| STR\_TO\_DATE() | Convert a string to a date |
| SUBDATE() | Synonym for DATE\_SUB() when invoked with three arguments |
| SUBTIME() | Subtract times |
| SYSDATE() | Return the time at which the function executes |
| TIME() | Extract the time portion of the expression passed |
| TIME\_FORMAT() | Format as time |
| TIME\_TO\_SEC() | Return the argument converted to seconds |
| TIMEDIFF() | Subtract time |
| TIMESTAMP() | With a single argument, this function returns the date or datetime expression; with two arguments, the sum of the arguments |
| TIMESTAMPADD() | Add an interval to a datetime expression |
| TIMESTAMPDIFF() | Subtract an interval from a datetime expression |
| TO\_DAYS() | Return the date argument converted to days |
| TO\_SECONDS() | Return the date or datetime argument converted to seconds since Year 0 |
| UNIX\_TIMESTAMP() | Return a Unix timestamp |
| UTC\_DATE() | Return the current UTC date |
| UTC\_TIME() | Return the current UTC time |
| UTC\_TIMESTAMP() | Return the current UTC date and time |
| WEEK() | Return the week number |
| WEEKDAY() | Return the weekday index |
| WEEKOFYEAR() | Return the calendar week of the date (1-53) |
| YEAR() | Return the year |
| YEARWEEK() | Return the year and week |

## String Function and operators

|  |  |
| --- | --- |
| Name | **Description** |
| ASCII() | Return numeric value of left-most character |
| BIN() | Return a string containing binary representation of a number |
| BIT\_LENGTH() | Return length of argument in bits |
| CHAR() | Return the character for each integer passed |
| CHAR\_LENGTH() | Return number of characters in argument |
| CHARACTER\_LENGTH() | Synonym for CHAR\_LENGTH() |
| CONCAT() | Return concatenated string |
| CONCAT\_WS() | Return concatenate with separator |
| ELT() | Return string at index number |
| EXPORT\_SET() | Return a string such that for every bit set in the value bits, you get an on string and for every unset bit, you get an off string |
| FIELD() | Index (position) of first argument in subsequent arguments |
| FIND\_IN\_SET() | Index (position) of first argument within second argument |
| FORMAT() | Return a number formatted to specified number of decimal places |
| FROM\_BASE64() | Decode base64 encoded string and return result |
| HEX() | Hexadecimal representation of decimal or string value |
| INSERT() | Insert substring at specified position up to specified number of characters |
| INSTR() | Return the index of the first occurrence of substring |
| LCASE() | Synonym for LOWER() |
| LEFT() | Return the leftmost number of characters as specified |
| LENGTH() | Return the length of a string in bytes |
| LIKE | Simple pattern matching |
| LOAD\_FILE() | Load the named file |
| LOCATE() | Return the position of the first occurrence of substring |
| LOWER() | Return the argument in lowercase |
| LPAD() | Return the string argument, left-padded with the specified string |
| LTRIM() | Remove leading spaces |
| MAKE\_SET() | Return a set of comma-separated strings that have the corresponding bit in bits set |
| MATCH | Perform full-text search |
| MID() | Return a substring starting from the specified position |
| NOT LIKE | Negation of simple pattern matching |
| NOT REGEXP | Negation of REGEXP |
| OCT() | Return a string containing octal representation of a number |
| OCTET\_LENGTH() | Synonym for LENGTH() |
| ORD() | Return character code for leftmost character of the argument |
| POSITION() | Synonym for LOCATE() |
| QUOTE() | Escape the argument for use in an SQL statement |
| REGEXP | Whether string matches regular expression |
| REPEAT() | Repeat a string the specified number of times |
| REPLACE() | Replace occurrences of a specified string |
| REVERSE() | Reverse the characters in a string |
| RIGHT() | Return the specified rightmost number of characters |
| RLIKE | Whether string matches regular expression |
| RPAD() | Append string the specified number of times |
| RTRIM() | Remove trailing spaces |
| SOUNDEX() | Return a soundex string |
| SOUNDS LIKE | Compare sounds |
| SPACE() | Return a string of the specified number of spaces |
| STRCMP() | Compare two strings |
| SUBSTR() | Return the substring as specified |
| SUBSTRING() | Return the substring as specified |
| SUBSTRING\_INDEX() | Return a substring from a string before the specified number of occurrences of the delimiter |
| TO\_BASE64() | Return the argument converted to a base-64 string |
| TRIM() | Remove leading and trailing spaces |
| UCASE() | Synonym for UPPER() |
| UNHEX() | Return a string containing hex representation of a number |
| UPPER() | Convert to uppercase |
| WEIGHT\_STRING() | Return the weight string for a string |

## Aggregate Functions

|  |  |
| --- | --- |
| Name | Description |
| AVG() | Return the average value of the argument |
| BIT\_AND() | Return bitwise AND |
| BIT\_OR() | Return bitwise OR |
| BIT\_XOR() | Return bitwise XOR |
| COUNT() | Return a count of the number of rows returned |
| COUNT(DISTINCT) | Return the count of a number of different values |
| GROUP\_CONCAT() | Return a concatenated string |
| JSON\_ARRAYAGG() | Return result set as a single JSON array |
| JSON\_OBJECTAGG() | Return result set as a single JSON object |
| MAX() | Return the maximum value |
| MIN() | Return the minimum value |
| STD() | Return the population standard deviation |
| STDDEV() | Return the population standard deviation |
| STDDEV\_POP() | Return the population standard deviation |
| STDDEV\_SAMP() | Return the sample standard deviation |
| SUM() | Return the sum |
| VAR\_POP() | Return the population standard variance |
| VAR\_SAMP() | Return the sample variance |
| VARIANCE() | Return the population standard variance |

## Other Functions and Operators

|  |  |
| --- | --- |
| Name | **Description** |
| BINARY | Cast a string to a binary string |
| CAST() | Cast a value as a certain type |
| CONVERT() | Cast a value as a certain type |
| ExtractValue() | Extract a value from an XML string using XPath notation |
| UpdateXML() | Return replaced XML fragment |
| & | Bitwise AND |
| >> | Right shift |
| << | Left shift |
| ^ | Bitwise XOR |
| BIT\_COUNT() | Return the number of bits that are set |
| | | Bitwise OR |
| ~ | Bitwise inversion |
| AES\_DECRYPT() | Decrypt using AES |
| AES\_ENCRYPT() | Encrypt using AES |
| ASYMMETRIC\_DECRYPT() | Decrypt ciphertext using private or public key |
| ASYMMETRIC\_DERIVE() | Derive symmetric key from asymmetric keys |
| ASYMMETRIC\_ENCRYPT() | Encrypt cleartext using private or public key |
| ASYMMETRIC\_SIGN() | Generate signature from digest |
| ASYMMETRIC\_VERIFY() | Verify that signature matches digest |
| COMPRESS() | Return result as a binary string |
| CREATE\_ASYMMETRIC\_PRIV\_KEY() | Create private key |
| CREATE\_ASYMMETRIC\_PUB\_KEY() | Create public key |
| CREATE\_DH\_PARAMETERS() | Generate shared DH secret |
| CREATE\_DIGEST() | Generate digest from string |
| DECODE() (deprecated) | Decode a string encrypted using ENCODE() |
| DES\_DECRYPT() (deprecated) | Decrypt a string |
| DES\_ENCRYPT() (deprecated) | Encrypt a string |
| ENCODE() (deprecated) | Encode a string |
| ENCRYPT() (deprecated) | Encrypt a string |
| MD5() | Calculate MD5 checksum |
| PASSWORD() (deprecated) | Calculate and return a password string |
| RANDOM\_BYTES() | Return a random byte vector |
| SHA1(), SHA() | Calculate an SHA-1 160-bit checksum |
| SHA2() | Calculate an SHA-2 checksum |
| UNCOMPRESS() | Uncompress a string compressed |
| UNCOMPRESSED\_LENGTH() | Return the length of a string before compression |
| VALIDATE\_PASSWORD\_STRENGTH() | Determine strength of password |
| GET\_LOCK() | Get a named lock |
| IS\_FREE\_LOCK() | Whether the named lock is free |
| IS\_USED\_LOCK() | Whether the named lock is in use; return connection identifier if true |
| RELEASE\_ALL\_LOCKS() | Release all current named locks |
| RELEASE\_LOCK() | Release the named lock |
| BENCHMARK() | Repeatedly execute an expression |
| CHARSET() | Return the character set of the argument |
| COERCIBILITY() | Return the collation coercibility value of the string argument |
| COLLATION() | Return the collation of the string argument |
| CONNECTION\_ID() | Return the connection ID (thread ID) for the connection |
| CURRENT\_USER(), CURRENT\_USER | The authenticated user name and host name |
| DATABASE() | Return the default (current) database name |
| FOUND\_ROWS() | For a SELECT with a LIMIT clause, the number of rows that would be returned were there no LIMIT clause |
| LAST\_INSERT\_ID() | Value of the AUTOINCREMENT column for the last INSERT |
| ROW\_COUNT() | The number of rows updated |
| SCHEMA() | Synonym for DATABASE() |
| SESSION\_USER() | Synonym for USER() |
| SYSTEM\_USER() | Synonym for USER() |
| USER() | The user name and host name provided by the client |
| VERSION() | Return a string that indicates the MySQL server version |
| ANY\_VALUE() | Suppress ONLY\_FULL\_GROUP\_BY value rejection |
| DEFAULT() | Return the default value for a table column |
| INET\_ATON() | Return the numeric value of an IP address |
| INET\_NTOA() | Return the IP address from a numeric value |
| INET6\_ATON() | Return the numeric value of an IPv6 address |
| INET6\_NTOA() | Return the IPv6 address from a numeric value |
| IS\_IPV4() | Whether argument is an IPv4 address |
| IS\_IPV4\_COMPAT() | Whether argument is an IPv4-compatible address |
| IS\_IPV4\_MAPPED() | Whether argument is an IPv4-mapped address |
| IS\_IPV6() | Whether argument is an IPv6 address |
| MASTER\_POS\_WAIT() | Block until the slave has read and applied all updates up to the specified position |
| NAME\_CONST() | Cause the column to have the given name |
| SLEEP() | Sleep for a number of seconds |
| UUID() | Return a Universal Unique Identifier (UUID) |
| UUID\_SHORT() | Return an integer-valued universal identifier |
| VALUES() | Define the values to be used during an INSERT |

# SQL Statements

## Data Definition Statements（DDL）

### ALTER DATABASE

### ALTER EVENT

### ALTER FUNCTION

### ALTER INSTANCE

### ALTER LOGFILE GROUP

### ALTER PROCEDURE

### ALTER SERVER

### ALTER TABLE

### ALTER TABLESPACE

### ALTER VIEW

### CREATE DATABASE

### CREATE EVENT

### CREATE FUNCTION

### CREATE INDEX

### CREATE LOGFILE GROUP

### CREATE PROCEDURE and CREATE FUNCTIONs

### CREATE SERVER

### CREATE TABLE

### CREATE TABLESPACE

### CREATE TRIGGER

### CREATE VIEW

### DROP DATABASE

### DROP EVENT

### DROP FUNCTION

### DROP INDEX

### DROP LOGFILE GROUP

### DROP PROCEDURE and DROP FUNCTIONs

### DROP SERVER

### DROP TABLE

### DROP TABLESPACE

### DROP TRIGGER

### DROP VIEW

### RENAME TABLE

### TRUNCATE TABLE

## Data Manipulation Statements（DML）

### INSERT

### UPDATE

### SELECT Statement

### Subqueries

### DELETE

### CALL

### DO

### HANDLER

### LOAD DATA

### LOAD XML

### REPLACE

## Transactional and Locking Statements

### Transctional

### XA Transactions

### LOCK TABLE

## Database Administration Statements

### SHOW

|  |  |
| --- | --- |
| 语句 | 说明 |
| SHOW BINARY LOGS |  |
| SHOW BINLOG EVENTS |  |
| SHOW CHARACTER SET |  |
| SHOW COLLATION |  |
| SHOW COLUMNS |  |
| SHOW CREATE DATABASE |  |
| SHOW CREATE EVENT |  |
| SHOW CREATE FUNCTION |  |
| SHOW CREATE PROCEDURE |  |
| SHOW CREATE TABLE |  |
| SHOW CREATE TRIGGER |  |
| SHOW CREATE USER |  |
| SHOW CREATE VIEW |  |
| SHOW DATABASES |  |
| SHOW ENGINE |  |
| SHOW ENGINES |  |
| SHOW ERRORS |  |
| SHOW EVENTS |  |
| SHOW FUNCTION CODE |  |
| SHOW FUNCTION STATUS |  |
| SHOW GRANTS |  |
| SHOW INDEX |  |
| SHOW MASTER STATUS |  |
| SHOW OPEN TABLES |  |
| SHOW PLUGINS |  |
| SHOW PRIVILEGES |  |
| SHOW PROCEDURE CODE |  |
| SHOW PROCEDURE STATUS |  |
| SHOW PROCESSLIST |  |
| SHOW PROFILE |  |
| SHOW PROFILES |  |
| SHOW RELAYLOG EVENTS |  |
| SHOW SLAVE HOSTS |  |
| SHOW SLAVE STATUS |  |
| SHOW STATUS |  |
| SHOW TABLE STATUS |  |
| SHOW TABLES |  |
| SHOW TRIGGERS |  |
| SHOW VARIABLES |  |
| SHOW WARNINGS |  |

### ALTER USER

### CREATE USER

### DROP USER

### GRANT

### RENAME USER

### REVOKE

### SET PASSWORD

### ANALYZE TABLE

### CHECK TABLE

### CHECKSUM TABLE

### OPTIMIZE TABLE

### REPAIR TABLE

### SET Variable

### Other

|  |  |
| --- | --- |
| 语句 | 说明 |
| CREATE FUNCTION |  |
| DROP FUNCTION |  |
| INSTALL PLUGIN |  |
| UNINSTALL PLUGIN |  |
| BINLOG |  |
| CACHE INDEX |  |
| FLUSH |  |

## Utility Statements

### EXPLAIN

### Other

|  |  |
| --- | --- |
| 描述 | 说明 |
| HELP |  |
| USE |  |

## Replication Statements

## Compound Statements

## Prepared Statements