

## Resource

### Online

Official Website

### Download

MySQL Cheat Sheet [.pdf]  
MySQL Database Quick Reference [.pdf]

### Related

DB2  
Oracle  
PostgreSQL  
SQL  
SQLite  
Sybase

## Data Types

### Types

CHAR

*String (0 - 255)*

VARCHAR

*String (0 - 255)*

TINYTEXT

*String (0 - 255)*

TEXT

*String (0 - 65535)*

BLOB

*String (0 - 65535)*

MEDIUMTEXT

*String (0 - 16777215)*

MEDIUMBLOB

*String (0 - 16777215)*

LONGTEXT

*String (0 - 429496-7295)*

LongBLOB

*String (0 - 429496-7295)*

TINYINT x

*Integer (-128 to 127)*

SMALLINT x

*Integer (-32768 to 32767)*

MEDIUMINT x

*Integer (-8388608 to 8388607)*

INT x

*Integer (-2147-483648 to 21474-8-3647)*

BIGINT x

*Integer (-9223-372-036-854-775-808 to 922337-203-685-477-5807)*

FLOAT

*Decimal (precise to 23 digits)*

DOUBLE

*Decimal (24 to 53 digits)*

DECIMAL

*"-DOU-BLE-" stored as string*

DATE

*YYYY-MM-DD*

DATETIME

*YYYY-MM-DD HH:MM:SS*

TIMESTAMP

*YYYYMM-DDH-HMMSS*

TIME

*HH:MM:SS*

ENUM

*One of preset options*

SET

*Selection of preset options*

## Operators

### Assignment Operators

=

:=

### Logical Operators

AND, &&

NOT, !

||, OR

XOR

### Comparison Operators

BETWEEN ... AND ...

BINARY

&

~

|

^

CASE

DIV

/

<=>

=

>=

>

IS NOT NULL

IS NOT

IS NULL

IS

<<

<=

<

LIKE

-

% or MOD

NOT BETWEEN ... AND ...

!=, <>

NOT LIKE

NOT REGEXP

+

REGEXP

>>

RLIKE

SOUNDS LIKE

\*

-

## String

### String Comparison

LIKE

NOT LIKE

STRCMP()

### Regular Expressions

NOT REGEXP

REGEXP

RLIKE

### String Functions

ASCII()

BIN()

BIT\_LENGTH()

CHAR\_LENGTH()

CHAR()

CHARACTER\_LENGTH()

CONCAT\_WS()

CONCAT()

ELT()

EXPORT\_SET()

FIELD()

FIND\_IN\_SET()

FORMAT()

HEX()

INSERT()

INSTR()

LCASE()

LEFT()

LENGTH()

LIKE

LOAD\_FILE()

LOCATE()

LOWER()

LPAD()

LTRIM()

MAKE\_SET()

MATCH

MID()

NOT LIKE

NOT REGEXP

OCTET\_LENGTH()

ORD()

POSITION()

QUOTE()

REGEXP

REPEAT()

REPLACE()

REVERSE()

RIGHT()

RLIKE

RPAD()

RTRIM()

SOUNDEX()

SOUNDS LIKE

SPACE()

STRCMP()

SUBSTR()

SUBSTRING\_INDEX()

SUBSTRING()

TRIM()

UCASE()

UNHEX()

UPPER()

## Numeric

### Arithmetic Operators

DIV

/

-

% or MOD

+

\*

-

### Mathematical Functions

ABS()

ACOS()

ASIN()

ATAN2(), ATAN()

ATAN()

CEIL()

CEILING()

CONV()

COS()

COT()

CRC32()

DEGREES()

EXP()

FLOOR()

LN()

LOG10()

LOG2()

LOG()

MOD()

OCT()

PI()

POW()

POWER()

RADIANS()

RAND()

ROUND()

SIGN()

SIN()

SQRT()

TAN()

TRUNCATE()

## Date

### Date and Time

ADDDATE()

ADDTIME()

CONVERT\_TZ()

CURDATE()

CURRENT\_DATE(), CURRENT\_

DATE

CURRENT\_TIME(), CURRENT\_

TIME

CURRENT\_TIMESTAMP(), CUR

RENT\_TIMESTAMP

CURTIME()

DATE\_ADD()

DATE\_FORMAT()

DATE\_SUB()

DATE()

DATEDIFF()

DAY()

DAYNAME()

DAYOFMONTH()

DAYOFWEEK()

DAYOFYEAR()

EXTRACT()

FROM\_DAYS()

FROM\_UNIXTIME()

GET\_FORMAT()

HOUR()

LAST\_DAY

LOCALTIME(), LOCALTIME

LOCALTIMESTAMP(), LOCALTIM

ESTAMP()

MAKEDATE()

MAKETIME

MICROSECOND()

MINUTE()

MONTH()

MONTHNAME()

NOW()

PERIOD\_ADD()

PERIOD\_DIFF()

QUARTER()

SEC\_TO\_TIME()

SECOND()

STR\_TO\_DATE()

SUBDATE()

SUBTIME()

SYSDATE()

TIME\_FORMAT()

TIME\_TO\_SEC()

TIME()

TIMEDIFF()

TIMESTAMP()

TIMESTAMPADD()

TIMESTAMPDIFF()

TO\_DAYS()

TO\_SECONDS()

UNIX\_TIMESTAMP()

UTC\_DATE()

UTC\_TIME()

UTC\_TIMESTAMP()

WEEK()

WEEKDAY()

WEEKOFYEAR()

YEAR()

YEARWEEK()

## Information

### Information Functions

BENCHMARK()

CHARSET()

COERCIBILITY()

COLLATION()

CONNECTION\_ID()

CURRENT\_USER(), CURRENT

\_USER

DATABASE()

FOUND\_ROWS()

LAST\_INSERT\_ID()

ROW\_COUNT()

SCHEMA()

SESSION\_USER()

SYSTEM\_USER()

USER()

VERSION()

## Miscellaneous

### Miscellaneous Functions

DEFAULT()

GET\_LOCK()

INET\_ATON()

INET\_NTOA()

IS\_FREE\_LOCK()

IS\_USED\_LOCK()

MASTER\_POS\_WAIT()

NAME\_CONST()

RAND()

RELEASE\_LOCK()

SLEEP()

UUID\_SHORT()

UUID()

VALUES()

## Ad

## Group

### GROUP BY Functions

AVG()

BIT\_AND()

BIT\_OR()

BIT\_XOR()

COUNT(DISTINCT)

COUNT()

GROUP\_CONCAT()

MAX()

MIN()

STD()

STDDEV\_POP()

STDDEV\_SAMP()

STDDEV()

SUM()

VAR\_POP()

VAR\_SAMP()

VARIANCE()

## Samples

### Select Queires

Returns all columns

*SELECT \* FROM table*

Returns all columns

*SELECT \* FROM table1, table2  
, ...*

Returns specific column

*SELECT field1, field2, ... FRO  
M table1, table2, ...*

Returns rows that match con  
dition

*SELECT ... FROM ... WHERE  
condition*

Returns with orders

*SELECT ... FROM ... WHERE  
condition GROUP BY field*

Returns with orders and ma  
tch condition

Returns and join

```
SELECT ... FROM t1 JOIN t2
ON t1.id1 = t2.id2 WHERE con
dition
```