

Mathematical

ABS

SIGN

MOD

FLOOR

CEILING

ROUND

DIV

EXP

LN

LOG, LOG2, LOG10

POW

POWER

SQRT

PI

COS

SIN

TAN

ACOS

ASIN

ATAN, ATAN2

COT

RAND

LEAST

GREATEST

DEGREES

RADIANS

TRUNCATE

**Control Flow**

IFNULL

NULLIF

IF

String

ASCII

ORD

CONV

BIN, OCT, HEX

CHAR

CONCAT

CONCAT_WS

LENGTH

CHAR_LENGTH

BIT_LENGTH

LOCATE

INSTR

LPAD

RPAD

LEFT

RIGHT

SUBSTRING

MID

SUBSTRING_INDEX

LTRIM

RTRIM

TRIM

SOUNDEX

SPACE

REPLACE

REPEAT

REVERSE

INSERT

ELT

FIELD

LCASE

UCASE

LOAD_FILE

QUOTE

Comparison

STRCMP

Cast

CAST

CONVERT

Other

BIT_COUNT

DATABASE

USER

SYSTEM_USER

SESSION_USER

CURRENT_USER

PASSWORD

OLD_PASSWORD

ENCRYPT

DECODE

MD5

SHA1

AES_ENCRYPT

AES_DECRYPT

DES_ENCRYPT

DES_DECRYPT

LAST_INSERT_ID

FORMAT

VERSION

CONNECTION_ID

GET_LOCK

RELEASE_LOCK

IS_FREE_LOCK

BENCHMARK

INET_NTOA

INET_ATON

FOUND_ROWS

DATA TYPES

CHAR	String, length 0 - 255
VARCHAR	String, length 0 - 255
TINYTEXT	String, length 0 - 255
TEXT	String, length 0 - 65535
BLOB	String, length 0 - 65535
MEDIUMTEXT	String, length 0 - 16777215
MEDIUMBLOB	String, length 0 - 16777215
LONGTEXT	String, length 0 - 4294967295
LOBLOB	String, length 0 - 4294967295
* TINYINT	Integer, -128 to 127
* SMALLINT	Integer, -32768 to 32767
* MEDIUMINT	Integer, -8388608 to 8388607
* INT	Integer, -2147483648 to 2147483647
* BIGINT	Int, -9223372036854775808 to 9223372036854775807
FLOAT	Decimal (precise to 23 digits)
DOUBLE	Decimal (24 to 53 digits)
DECIMAL	"DOUBLE" stored as string
DATE	YYYY-MM-DD
DATETIME	YYYY-MM-DD HH:MM:SS
TIMESTAMP	YYYYMMDDHHMMSS
TIME	HH:MM:SS
ENUM	One of preset options
SET	Selection of preset options

* Note: "UNSIGNED" TINYINT, SMALLINT, MEDIUMINT, INT, BIGINT have the same range of values but start at 0, e.g. TINYINT UNSIGNED is between 0 and 255.

MYSQL FUNCTIONS IN PHP

mysql_affected_rows
mysql_close
mysql_connect
mysql_data_seek
mysql_db_name
mysql_errno
mysql_error
mysql_fetch_array
mysql_fetch_assoc
mysql_fetch_field
mysql_fetch_lengths
mysql_fetch_object
mysql_fetch_row
mysql_field_flags
mysql_field_len
mysql_field_name
mysql_field_seek
mysql_field_table
mysql_field_type
mysql_free_result
mysql_insert_id
mysql_list_dbs
mysql_list_processes
mysql_list_tables
mysql_num_fields
mysql_num_rows
mysql_pconnect
mysql_query
mysql_real_escape_string
mysql_select_db

SAMPLE SELECT QUERIES

SELECT * FROM tablename	# Returns all columns
SELECT column FROM tablename	# Returns specific column
SELECT COUNT(*) FROM tablename	# Returns number of rows
SELECT SUM(column) FROM tablename	# Returns sum of column
SELECT DISTINCT column FROM tablename	# Returns unique values of column
SELECT * FROM tablename WHERE condition	# Returns rows that match condition
SELECT * FROM tablename WHERE BINARY condition	# Condition is case-sensitive
SELECT * FROM table1 INNER JOIN table2 on table1.id = table2.id	# Join two tables, return all columns
SELECT table1.* FROM table1 INNER JOIN table2 on table1.id = table2.id	# Only return columns from table1
SELECT LAST_INSERT_ID() as new_id	# Returns ID of last created row
SELECT max(column) AS alias	# Return maximum value in column as "alias"
SELECT * FROM table ORDER BY column	# Return all rows ordering by column
SELECT * FROM table LIMIT 10, 20	# Return first 20 rows after row 10

Date and Time

DAYOFWEEK

WEEKDAY

DAYOFMONTH

DAYOFYEAR

MONTH

DAYNAME

MONTHNAME

QUARTER

WEEK

YEAR

YEARWEEK

HOUR

MINUTE

SECOND

PERIOD_ADD

PERIOD_DIFF

DATE_ADD

DATE_SUB

ADDDATE

SUBDATE

EXTRACT

TO_DAYS

FROM_DAYS

DATE_FORMAT

TIME_FORMAT

CURRENT_DATE

CURRENT_TIME

NOW

SYSDATE

UNIX_TIMESTAMP

FROM_UNIXTIME

SEC_TO_TIME

TIME_TO_SEC

Group

COUNT

AVG

MIN

MAX

SUM

GROUP_CONCAT

VARIANCE

STD

STDDEV

BIT_OR

BIT_AND