

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

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



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		MYSQL FUNCTIONS IN PHP	
CHAR	String, length 0 - 255	mysql_affected_rows	
VARCHAR	String, length 0 - 255	mysql_close	
TINYTEXT	String, length 0 - 255	mysql_connect	
TEXT	String, length 0 - 65535	mysql_data_seek	
BLOB	String, length 0 - 65535	mysql_db_name	
MEDIUMTEXT	String, length 0 - 16777215	mysql_errno	
MEDIUMBLOB	String, length 0 - 16777215	mysql_error	
LONGTEXT	String, length 0 - 4294967295	mysql_fetch_array	
LOBLOB	String, length 0 - 4294967295	mysql_fetch_assoc	
* TINYINT	Integer, -128 to 127	mysql_fetch_field	
* SMALLINT	Integer, -32768 to 32767	mysql_fetch_lengths	
* MEDIUMINT	Integer, -8388608 to 8388607	mysql_fetch_object	
* INT	Integer, -2147483648 to 2147483647	mysql_fetch_row	
* BIGINT	Int, -9223372036854775808 to 9223372036854775807	mysql_field_flags	
FLOAT	Decimal (precise to 23 digits)	mysql_field_len	
DOUBLE	Decimal (24 to 53 digits)	mysql_field_name	
DECIMAL	"DOUBLE" stored as string	mysql_field_seek	
DATE	YYYY-MM-DD	mysql_field_table	
DATETIME	YYYY-MM-DD HH:MM:SS	mysql_field_type	
TIMESTAMP	YYYYMMDDHHMMSS	mysql_free_result	
TIME	HH:MM:SS	mysql_insert_id	
ENUM	One of preset options	mysql_list_dbs	
SET	Selection of preset options	mysql_list_processes	
		mysql_list_tables	
		mysql_num_fields	
		mysql_num_rows	
		mysql_pconnect	
		mysql_query	
		mysql_real_escape_string	
		mysql_select_db	
* 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.			
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	