

**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
LONGBLOB 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

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