MySQL Data 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 - 4294967295)
LONGBLOB	String (0 - 4294967295)
TINYINT x	Integer (-128 to 127)
SMALLINT x	Integer (-32768 to 32767)
MEDIUMINT x	Integer (-8388608 to 8388607)
INT x	Integer (-2147483648 to 2147483647)
BIGINT x	Integer (-9223372036854-775808 to 922337203-6854775807)
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

Integers (marked x) that are "UNSIGNED" have the same range of values but start from 0 (i.e., an UNSIGNED TINYINT can have any value from 0 to 255).

MySQL Type Conversion

BINARY 'string'

CAST (expression AS datatype)

CONVERT (expression, datatype)

MySQL Grouping Functions

AVG	MAX
BIT_AND	STD
BIT_OR	STDDEV
COUNT	SUM
GROUP_CONCAT	VARIANCE
MIN	

MySQL Mathematical Functions

ABS	COS
SIGN	SIN
MOD	TAN
FLOOR	ACOS
CEILING	ASIN
ROUND	ATAN, ATAN2
DIV	COT
EXP	RAND
LN	LEAST
LOG, LOG2, LOG10	GREATEST
POW	DEGREES
POWER	RADIANS
SQRT	TRUNCATE
PI	

MySQL String Functions

ASCII	SUBSTRING
ORD	MID
CONV	SUBSTRING_INDEX
BIN	LTRIM
OCT	RTRIM
HEX	TRIM
CHAR	SOUNDEX
CONCAT	SPACE
CONCAT_WS	REPLACE

MySQL String Functions (cont)

LENGTH	REPEAT
CHAR_LENGTH	REVERSE
BIT_LENGTH	INSERT
LOCATE	ELT
INSTR	FIELD
LPAD	LCASE
RPAD	UCASE
LEFT	LOAD_FILE
RIGHT	QUOTE

MySQL Date and Time Functions

DAYOFWEEK	DATE_SUB
WEEKDAY	ADDDATE
DAYOFMONTH	SUBDATE
DAYOFYEAR	EXTRACT
MONTH	TO_DAYS
DAYNAME	FROM_DAYS
MONTHNAME	DATE_FORMAT
QUARTER	TIME_FORMAT
WEEK	CURRENT_DATE
YEAR	CURRENT_TIME
YEARWEEK	NOW
HOUR	SYSDATE
MINUTE	UNIX_TIMESTAMP
SECOND	FROM_UNIXTIME
PERIOD_ADD	SEC_TO_TIME
PERIOD_DIFF	TIME_TO_SEC
DATE_ADD	

MySQL Control Flow Functions

IF	NULLIF
IFNULL	

MySQL Miscellaneous Functions	
BIT_COUNT	DES_ENCRYPT
DATABASE	DES_DECRYPT
USER	LAST_INSERT_ID
SYSTEM_USER	FORMAT
SESSION_USER	VERSION
CURRENT_USER	CONNECTION_ID
PASSWORD	GET_LOCK
OLD_PASSWORD	RELEASE_LOCK
ENCRYPT	IS_FREE_LOCK
DECODE	BENCHMARK
MD5	INET_NTOA
SHA1	INET_ATON
AES_ENCRYPT	FOUND_ROWS
AES_DECRYPT	STRCMP