

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)
LOBLOB	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 (-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
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	