

## Data Type

Integers	int(M)	int(2)
Floating-- point (real) numbers	float(M,D)	float(3,2)
Double-pr- recision floating-point	double- (M,D)	double(17,2)
Date and time	timest- amp(m)	timestamp(8) (for YYYYMMDD)
Fixed Length Strings	char(M)	char(10)
Variable length Strings	varchar(M)	varchar(20)
Large amount of text	blob	blob
Values chosen from a list	enum('val- ue1',.....,'v alue n')	enum('toy- ota','daihat- su','suzuki')

## Date Parts

Mili second	ms
Second	ss, s
Minute	mi, n
Hour	hh
Day	dd, d
Day of year	dy, y
Week	wk, ww
Month	mm, m
Year	yy, yyyy
Quarter	qq, q

## Mathematical Functions

Function	Code
Find minimum Value of Group	MIN(column)
Find maximum Value of Group	MAX(co- lumn)

## Mathematical Functions (cont)

Find average Value of Group	AVG(column)
Sum Values in a Group	SUM(column)
Count rows per Group	COUNT(column)
Rounding numbers	round(number)
Randomize numbers	rand()
Absolute Value	abs(number)
Largest integer not greater	floor(number)
Smallest integer not smaller	ceiling(number)
Square root	sqrt(number)
nth power	pow(base, exponent)
sin cos tan, etc	sin(number)

## String Functions

Functions	Code
Compare Strings	strcmp(strin- g1,string2)
Convert to Upper Case	upper(string)
Convert to Lower Case	lower(string)
Left-trim whitespace	ltrim(string)
Encrypt Password	password(- string)
Encode String	encode(strin- g,key)
Decode String	decode(strin- g,key)
Get date	curdate()
Get time	curtime()
Extract day name from date string	dayname(string)
Extract day number from date string	dayofweek(st- ring)
Extract month from date string	monthname(st- ring)

## Create a Table

```
CREATE TABLE table (
column1 type [[NOT] NULL]
[AUTO_INCREMENT],
column2 type [[NOT] NULL]
[AUTO_INCREMENT],
...
other options,
PRIMARY KEY (column(s)) );
```

## Insert Data

```
INSERT INTO table VALUES
(list of values);
INSERT INTO table SET
column1=value1,
column2=value2,
...
columnk=valuek;
INSERT INTO table (column1,column2,...)
VALUES (value1,value2...);
```

## Insert/Select

```
INSERT INTO *table (column1,column2,...)
SELECT statement;*
```

## Delete data

```
DELETE FROM table
[WHERE condition(s)];
```

## Updating Data

```
UPDATE table SET
column1=value1,
column2=value2,
...
columnk=valuek
[WHERE condition(s)];
```



## Insert Column

```
ALTER TABLE table ADD COLUMN  
column type options;
```

## Delete Column

```
ALTER TABLE table  
DROP COLUMN column;
```

## Delete Table

```
DROP TABLE [IF EXISTS] table;
```

## Create an Index

```
CREATE UNIQUE INDEX name  
ON  
table (columns)
```

## Create Stored Procedure

```
CREATE PROCEDURE name  
@variable AS datatype = value  
AS  
-- Comments  
SELECT FROM table*  
GO
```



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