

Coloumn Type		
Purpose	Data Type	Example
Integers	int(M)	int(5)
Floating--point (real) numbers	float(M,D)	float(12,3)
Double-pr-ecision floating-point	double-(M,D)	double(20,3)
Dates and times	timest-amp(M)	timestamp(8) (for YYYYMMDD)
Fixed-length strings	char(M)	char(10)
Variable--length strings	varchar(M)	varchar(20)
A large amount of text	blob	blob
Values chosen from a list	enum('val-ue1',valu-e2',...)	enum('app-les','orange-s','bananas')

Mathematical Functions	
What	How
Count rows per group	COUNT(column *)
Average value of group	AVG(column)
Minumum value of group	MIN(column)
Maximum value of group	MAX(column)
Sum values in a group	SUM(column)
Absolute value	abs(number)
Rounding numbers	round(number)
Largest integer not greater	floor(number)

Mathematical Functions (cont)	
Smallest integer not smaller	ceiling(number)
Square root	sqrt(number)
nth power	pow(base,exp-onent)
random number n, 0<n < 1	rand()
sin (similar cos, etc.)	sin(number)

String Functions	
What	How
Compare strings	strcmp(string1,string2)
Convert to lower case	lower(string)
Convert to upper case	upper(string)
Left-trim whitespace (similar right)	ltrim(string)
Substring of string	substring(string,i-index1,index2)
Encrypt password	password(string)
Encode string	encode(string,key)
Decode string	decode(string,key)
Get date	curdate()
Get time	curtime()
Extract day name from date string	dayname(string)
Extract day number from date string	dayofweek(string)
Extract month from date string	monthname(string)

Date Functions	
DATEADD (datepart, number , date)	
DATEDIFF (datepart , start , end)	
DATENAME (datepart, date)	
DATEPART (datepart, date)	
DAY (date)	
GETDATE()	
GETUTCDATE()	
MONTH(date)	
YEAR(date)	

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

Type Conversion	
CAST (expressions AS datatype)	
CONVERT (datatype , expression)	

Ranking Functions	
RANK	NTILE
DENSE_RANK	ROW_NUMBER



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Grouping Functions

AVG	MAX
BINARY_CHECKSUM	MIN
CHECKSUM	SUM
CHECKSUM_AVG	STDEV
COUNT	STDEVP
COUNT_BIG	VAR
GROUPING	VARP

Table Functions

ALTER	DROP
CREATE	TRUNCATE

Create a Trigger

```
CREATE TRIGGER name
ON


|              |
|--------------|
| <i>table</i> |
|--------------|


FOR
DELETE, INSERT, UPDATE
AS
-- Comments
SELECT * FROM table
GO
```

Create a View

```
CREATE VIEW name
AS
-- Comments
SELECT FROM table*
GO
```

Create 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;*
(See below)
```

Delete data

```
DELETE FROM table
[WHERE condition(s)];
(Omit WHERE to delete all data)
```

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 (Careful!)

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

Create an Index

```
CREATE UNIQUE INDEX name
ON


|                                 |
|---------------------------------|
| <i>table</i> ( <i>columns</i> ) |
|---------------------------------|


```

Create a Stored Procedure

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

