# SQL Server

#### **Data Types Exact Numerics** decimal bit tinyint money smallint bit int numeric bigint int **Approximate Numerics** float **Date and Time** smalldatetime timestamp datetime Strings char text varchar **Unicode Strings** nchav ntext nvarchar **Binary Strings** binary image varbinary Miscellaneous cursor table sql\_variant xml

## Type Conversion

CAST (expression AS datatype) CONVERT (datatype, expression)

## Ranking Functions

RANK NTILE
DENSE\_RANK ROW\_NUMBER

## **Grouping (Aggregate) Functions**

AVG MAX
BINARY\_CHECKSUM MIN
CHECKSUM SUM
CHECKSUM\_AVG STDEV
COUNT STDEVP
COUNT\_BIG VAR
GROUPING VARP

### **Table Functions**

ALTER DROP
CREATE TRUNCATE

#### **Date Functions**

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

#### **Dateparts**

Year уу, уууу Quarter qq, q Month mm, m Day of Year dy, y Day dd, d Week wk, ww Hour hh Minute mi, n Second ss, s Millisecond ms

#### **Mathematical Functions**

ABS LOG10 **ACOS** PΙ **ASIN POWER ATAN RADIANS** ATN2 **RAND CEILING ROUND** COS SIGN COT SIN **DEGREES SQUARE EXP SQRT FLOOR** TAN LOG

## **String Functions**

**ASCII** REPLICATE CHAR **REVERSE CHARINDEX RIGHT DIFFERENCE** RTRIM **LEFT SOUNDEX** LEN **SPACE LOWER** STR LTRIM **STUFF NCHAR SUBSTRING PATINDEX** UNICODE **REPLACE UPPER** QUOTENAME

#### Create a Stored Procedure

CREATE PROCEDURE name

@variable AS datatype = value

AS

-- Comments

SELECT \* FROM table

#### Create a Trigger

CREATE TRIGGER name
ON
table
FOR
DELETE, INSERT, UPDATE
AS
-- Comments
SELECT \* FROM table
GO

#### Create a View

CREATE VIEW name

-- Comments
SELECT \* FROM table

GO

## Create an Index

CREATE UNIQUE INDEX name
ON
table (columns)

## Create a Function

CREATE FUNCTION name
(@variable datatype(length))

RETURNS

datatype(length)

AS

BEGIN

DECLARE @return datatype(length) SELECT @return = CASE @variable

WHEN 'a' THEN 'return a' WHEN 'b' THEN 'return b'

ELSE 'return c' RETURN @return

END

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