Cheatography

SQL Server Danar124 Cheat Sheet

by danar124 via cheatography.com/20652/cs/3373/

Data Type

Exact Numerics	
bit	decimal
tinyint	money
smallint	numeric
bigint	
Approximate Numerics	
float	real
Date and Time	
smalldatetime	timestamp
datetime	
Strings	
char	text
varchar	
Unicode Strings	
nchar	ntext
nvarchar	
Binary Strings	
binary	image
varbinary	
Miscellaneous	
cursor	table
sql_variant	xml

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	

Type Conversion

CAST (exression AS datatype)

CONVERT (datatype, expression, [style])

Grouping (Aggregate) Functions

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

Date Functions

DATEADD (datepart, number, date)	SYSDATETIME()
DATEDIFF (datepart, start, end)	SYSUTCDATETIME()
DATENAME (datepart, date)	SYSDATETIMEOFFSET()
DATEPART (datepart, date)	SWITCHOFFSET (DATETIMEOFFSET,time_zone)
DAY (date)	ISDATE (expression)
GETDATE()	MONTH (date)
GETUTCDATE()	YEAR (date)

Mathematical Functions

ABS	LOG10
ACOS	PI
ASIN	POWER
ATAN	RADIANS
ATN2	RAND
COT	SIN
TAN	EXP
COS	DEGREES

Mathematical Functions (cont)

LOG	CEILING
ROUND	FLOOR
SQRT	SQUARE
SIGN	

Dateparts

Year	yy, yyyy
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

Object Operation

Stored Procedure

```
CREATE PROCEDURE <na me>
AS <sq l_s tat eme nt>
```

Views

```
CREATE VIEW<n ame >[( -
<Co lum n>,...)]
AS <SE LEC T_s tat eme -
nt>
```

Triggers

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Object Operation (cont)

> CREATE TRIGGER <name>
ON <table>
FOR INSERT, UPDATE,
DELETE AS <sql_statement>

Functions

CREATE FUNCTION <name>
RETURNS <data_type>
AS BEGIN <sql_statement>
RETURN <sql_expression> END

Create a Stored Procedure

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

Table Functions

ALTER	DROP
CREATE	TRUNCATE

Ranking Functions

RANK	NTILE
DENSE RANK	ROW_NUMBER

Foreign Key Construct

```
ALTER TABLE <table1>
WITH CHECK
ADD CONSTRAINT <co nst -
rai ntN ame>
FOREIGN KEY (<t abl -
e1c ol1 >)
REFERENCES <ta ble 2>
(<t abl e2c ol2 >)
```

Drop Constraint

```
ALTER TABLE <tablename>
DROP
CONSTRAINT <co nst rai -
ntN ame>
```

Primary Key construct

```
ALTER TABLE <tablename>
ADDCONSTRAINT
<constraintName>
PRIMARY KEY CLUSTERED
(colum n_List)
```

Create an Index

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

T-SQL Statements

UPDATE Statement

```
UPDATE table_name
SET column _na me= (ex -
pre ssion | DEFAULT |
NULL [,...n]
[WHERE <se arc h_c ond -
iti on>]
```

DELETE Statement

```
DELETE [FROM] table_name
[WHERE <se arc h_c ond -
iti on>]
```

INSERT Statement

```
INSERT [INTO] table_name
[(colu mn_ list)]
VALUES ((DEFAULT | NULL
| expression 1[,...n])
```

Select Statement Construct

```
SELECT [DISTINCT] [(TOP
int | TOP int PERCENT)]
Column list
[INTO new_table]
FROM table_ source
[[[INNER | {{ LEFT |
RIGHT | FULL}[ OUT ER]}]
JOIN | CROSS APPLY]
table_ source2
ON table_ sou rce.pr -
ima ry_key =
table_ sou rce 2.f ore -
ign _ke y][ ,...n]
[WHERE search _co ndi -
tion]
[GROUP BY group_ by_ -
exp res sion]
[HAVING search _co ndi -
tion]
[ORDER BY order_ exp -
ression [ASC | DESC]]
```