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]]
```


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