

SSMS Shortcuts

Display the context menu - SHIFT+F10 Display the Query Designer - CTRL+SHIFT+Q Toggle full screen mode - SHIFT+ALT+ENTER Cycle through Child windows - CTRL+SHIFT+TAB

Display Object Explorer - F8 Display the Summary Window - F7 - CTRL+K Set or remove a bookmark - CTRL+SHIFT+S Save all Complete word - ALT+RIGHT ARROW

Type Conversion

CAST (<<expression>> AS datatype) CONVERT (datatype, expression [, style])

Date time function

GETDATE() GETUTCDATE() SYSDATETIME() SYSDATETIMEOFFSET() SYSUTCDATETIME() DATENAME (datepart, date) DATEPART (datepart, date) DAY (date) MONTH (date) YEAR (date) DATEDIFF (datepart, startdate, enddate) DATEADD (datepart, number, date) SWITCHOFFSET (DATETIMEOFFSET, time_zone)

Datepart extensions

Year - yy, yyyy quarter - qq, q month - mm, m dayofyear - dy, y - dd, d day week - wk, ww weekday - dw - hh hour - mi, n minute second - SS, S millisecond - ms microsecond - mcs nanosecond - ns TZoffset

Date& Time datatype

- isowk, isoww

time date smalldatetime datetime datetime2 datetimeoffset

ISO WEEK

Index Creation construct

CREATE [UNIQUE] [CLUSTERED | NONCLUSTERED] INDEX index_name ON <object>(column [ASC | DESC] [,...n]) [INCLUDE (column_name [,...n])] [WHERE<filter_predicate>] [ON { partition_scheme_name (column_name) | filegroup_name | default }] [FILESTREAM_ON { filestream_filegroup_name | partition_scheme_name | "NULL" }]

Index Creation construct

ALTER INDEX { index_name | ALL } ON <object> { REBUILD | DISABLE | REORGANIZE [WITH (LOB COMPACTION = { ON | OFF })]

ColumnStore Index Construct

CREATE [NONCLUSTERED] COLUMNSTORE INDEX index name ON <object>(column [,...n])

Primary Key construct

ALTER TABLE <tablename> ADDCONSTRAINT <constraintName> PRIMARY KEY CLUSTERED (column_List)

T-SQL Statements

UPDATE Statement

ISDATE (expression)

UPDATE tabLe name SET coLumn_name = (expression I DEFAULT | NULLI [,...n] [WHERE <search_condition>]

DELETE Statement

DELETE [FROM] tabLe_name [WHERE < search condition>]

INSERT Statement

INSERT [INTO] table_name [(column_List)] VALUES ((DEFAULT | NULL | expression 1[,...n])

Object Operation

Stored Procedure

CREATE PROCEDURE < name > AS < sqL_statement >

Views

CREATE VIEW <name> [(<Column>,...)] AS <SELECT statement>

Triggers

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

Functions

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

Foreign Key construct

ALTER TABLE <tabte1> WITH CHECK ADD CONSTRAINT < constraintName> FOREIGN KEY (<table1col1>) REFERENCES <table2> (<table2col2>)

Drop Constraint

ALTER TABLE <tablename> DROP CONSTRAINT < constraintName>

Pseudo code for CTE

WITH cte_name(column_name [,...n])

(CTE query definition - Anchor member **UNION ALL**

CTE_query_definition -

Recursive member referencing cte name) SELECT *FROM cte name

SELECT Statement construct

SELECT [DISTINCT] [(TOP int I TOP int PERCENTJ] Columns list

[INTO new table]

FROM table_source

[[[INNER | [{ LEFT | RIGHT | FULL} [OUTER]}] JOIN | CROSS APPLY]

table source2

ON table_source.primairy_key =

table_source2. foreign_key][, ... n]

[WHERE search_condition]

[GROUP BY group_by_expression]

[HAVING search_condition]

[ORDER BY order_expression [ASC | DESC]]

PIVOT and UNPIVOT Construct

SELECT < non-pivoted column>,

[pivoted column] AS <column name>,

(<SELECT query that produces the data>)

AS <alias for the source query>

PIVOT

(<aggregation function>(<column being aggregated>)

FOR

[<column that contains the values that will become column headers>] IN ([pivoted column], ...) AS <alias for the pivot table>

<optional ORDER BY clause>;

New SQL 2012 Function

PARSE

(string_value AS data_type [USING culture])

TRY CONVERT

(data_type [(length)], expression [, style])

TRY_PARSE

(string_value AS data_type [USING culture])

DATEFROMPARTS

(year, month, day)

DATETIME2FROMPARTS

(year, month, day, hour, minute, seconds, fractions, precision)

DATETIMEFROMPARTS

(year, month, day, hour, minute, seconds, milliseconds)

DATETIMEOFFSETFROMPARTS

(year, month, day, hour, minute, seconds, fractions, hour_offset, minute_offset, precision)

EOMONTH (start_date

[, month_to_add])

SMALLDATETIMEFROMPARTS

(year, month, day, hour, minute)

TIMEFROMPARTS

(hour, minute, seconds, fractions, precision)

CHOOSE

(index, val_1, val_2 [, val_n]) IIF

(boolean expression, true value, false value) CONCAT

(string_value1, string_value2 [, string_valueN])

FORMAT

(value, format [, culture])

Ranking functions

RANK () OVER ([partition_by_clause] order_by_clause)

DENSE_RANK() OVER([<partition_by_clause>] <order_by_clause>)

NTILE (integer_expression) OVER ([<partition_by_clause>] <order_by_clause>)

ROW NUMBER() OVER([PARTITION BY value expression, ...[n]] order by clause)

SQL 2012 Analytic Functions

CUME DIST()

OVER ([partition_by_clause] order_by_clause)

FIRST_VALUE ([scalar_expression)

OVER ([partition_by_clause] order_by_clause [rows_range_clause])

LAG (scalar_expression [,offset] [,default])

OVER ([partition_by_clause] order_by_clause)

LAST_VALUE ([scalar_expression)

OVER ([partition by clause] order by clause rows range clause)

LEAD (scalar_expression [,offset], [default])

OVER ([partition by clause])

PERCENTILE CONT (numeric literal) WITHIN GROUP

(ORDER BY order by expression [ASC | DESC]) OVER ([<partition by clause>])

PERCENTILE DISC (numeric literal) WITHIN GROUP

(ORDER BY order_by_expression [ASC | DESC]) OVER ([<partition_by_clause>])

PERCENT RANK()

OVER ([partition_by_clause] order_by_clause)