

Forgotten T-SQL Cheat Sheet Cheat Sheet by Tigersi (renegrin) via cheatography.com/23975/cs/6298/

Logical Processing Order of SELECT

- 1. FROM table
- 2. ON join condition
- 3. JOIN table
- 4. WHERE clauses
- 5. GROUP BY columns
- 6. WITH CUBE / WITH ROLLUP
- 7. **HAVING** condition
- 8. SELECT columns
- 9. **DISTINCT**
- 10.ORDER BY columns
- 11.TOP % or number

The steps above show the logical processing order, or binding order, for a SELECT statement. This order determines when the objects defined in one step are made available to the clauses in subsequent steps.

CTFs

; WITH cteName (columnList)

AS (SELECT statement)

SELECT columns

FROM cteName

INNER JOIN table ON condition

Below, is a list of those statements and/or clauses that cannot be used in ANY CTE.

- > COMPUTE or COMPUTE BY
- > ORDER BY (except when a TOP clause is specified)
- > INTO
- > OPTION clause with query hints
- > FOR XML
- ✓ FOR BROWSE

Recusrsive CTEs

; WITH cteName (columnList)

AS (-- Anchor statement:

SELECT columns FROM table...

UNION ALL

-- Recursion statement:

SELECT columns FROM table...

INNER JOIN cteName ON ...

)

SELECT columns

FROM cteName

Here are the statements and/or clauses that cannot be used in a recursive CTE:

- > SELECT DISTINCT
- > GROUP BY
- > HAVING
- > Scalar aggregation (meaning you can't use min or max)
- > TOP
- > LEFT, RIGHT, OUTER JOIN (INNER JOIN is allowed)

EXCEPT/INTERSECT

SELECT col1, col2 FROM Table1

EXCEPT

SELECT col3, col4 FROM Table2

SELECT col1, col2 FROM Table1

INTERSECT

SELECT col3, col4 FROM Table2

ØINTERSECT, EXCEPT and UNION

MERGE

DECLARE @Changes

TABLE(Change VARCHAR(20))

; MERGE INTO DestTable

USING

(SELECT from sourceTable

) AS Source (columnList)

ON DestTable.ID = Source.ID

WHEN MATCHED THEN

Action on destination

-- E.g., UPDATE SET col1 = 1

WHEN NOT MATCHED BY TARGET|SOURCE

Action on destination

-- E.g., INSERT (col1) VALUES(1)

OUTPUT \$action INTO @Changes

SELECT * FROM @Changes

OVER and PARTITION BY

```
/* Aggregate functions include COUNT, MIN,
MAX, AVG, ROW_COUNT(), etc. */
SELECT
agg_func(col1) OVER(),
agg_func(col1)
OVER(PARTITION BY col2),
columns
FROM table...
```

OVER allows you to get aggregate information without using a GROUP BY. In other words, you can retrieve detail rows, and get aggregate data alongside it.

Using PARTITION BY the result set is broken into into partitions.

XML Trick: List of Details



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