**CREATE TABLE**

    [ database\_name . [ schema\_name ] . | schema\_name . ] table\_name

    [ AS FileTable ]

    ( { <column\_definition> | <computed\_column\_definition>

        | <column\_set\_definition> | [ <table\_constraint> ] [ ,...n ] } )

[ ON { partition\_scheme\_name ( partition\_column\_name ) | filegroup

| "default" } ]

[ { TEXTIMAGE\_ON { filegroup | "default" } ]

[ FILESTREAM\_ON { partition\_scheme\_name | filegroup

| "default" } ]

[ WITH ( <table\_option> [ ,...n ] ) ]

[ ; ]

<column\_definition> ::=

column\_name <data\_type>

[ FILESTREAM ]

    [ COLLATE collation\_name ]

    [ SPARSE ]

    [ NULL | NOT NULL ]

    [

[ CONSTRAINT constraint\_name ] DEFAULT constant\_expression ]

| [ IDENTITY [ ( seed ,increment ) ] [ NOT FOR REPLICATION ]

]

    [ ROWGUIDCOL ]

    [ <column\_constraint> [ ...n ] ]

<data type> ::=

[ type\_schema\_name . ] type\_name

[ ( precision [ , scale ] | max |

[ { CONTENT | DOCUMENT } ] xml\_schema\_collection ) ]

<column\_constraint> ::=

[ CONSTRAINT constraint\_name ]

{     { PRIMARY KEY | UNIQUE }

        [ CLUSTERED | NONCLUSTERED ]

        [

WITH FILLFACTOR = fillfactor

        | WITH ( < index\_option > [ , ...n ] )

        ]

        [ ON { partition\_scheme\_name ( partition\_column\_name )

| filegroup | "default" } ]

  | [ FOREIGN KEY ]

        REFERENCES [ schema\_name . ] referenced\_table\_name [ ( ref\_column ) ]

        [ ON DELETE { NO ACTION | CASCADE | SET NULL | SET DEFAULT } ]

        [ ON UPDATE { NO ACTION | CASCADE | SET NULL | SET DEFAULT } ]

        [ NOT FOR REPLICATION ]

  | CHECK [ NOT FOR REPLICATION ] ( logical\_expression )

}

<computed\_column\_definition> ::=

column\_name AS computed\_column\_expression

[ PERSISTED [ NOT NULL ] ]

[

[ CONSTRAINT constraint\_name ]

    { PRIMARY KEY | UNIQUE }

        [ CLUSTERED | NONCLUSTERED ]

        [

WITH FILLFACTOR = fillfactor

          | WITH ( <index\_option> [ , ...n ] )

        ]

        [ ON { partition\_scheme\_name ( partition\_column\_name )

| filegroup | "default" } ]

   | [ FOREIGN KEY ]

        REFERENCES referenced\_table\_name [ ( ref\_column ) ]

        [ ON DELETE { NO ACTION | CASCADE } ]

        [ ON UPDATE { NO ACTION } ]

        [ NOT FOR REPLICATION ]

   | CHECK [ NOT FOR REPLICATION ] ( logical\_expression )

]

<column\_set\_definition> ::=

column\_set\_name XML COLUMN\_SET FOR ALL\_SPARSE\_COLUMNS

< table\_constraint > ::=

[ CONSTRAINT constraint\_name ]

{

{ PRIMARY KEY | UNIQUE }

        [ CLUSTERED | NONCLUSTERED ]

        (column [ ASC | DESC ] [ ,...n ] )

        [

WITH FILLFACTOR = fillfactor

         |WITH ( <index\_option> [ , ...n ] )

        ]

        [ ON { partition\_scheme\_name (partition\_column\_name)

| filegroup | "default" } ]

    | FOREIGN KEY

        ( column [ ,...n ] )

        REFERENCES referenced\_table\_name [ ( ref\_column [ ,...n ] ) ]

        [ ON DELETE { NO ACTION | CASCADE | SET NULL | SET DEFAULT } ]

        [ ON UPDATE { NO ACTION | CASCADE | SET NULL | SET DEFAULT } ]

        [ NOT FOR REPLICATION ]

    | CHECK [ NOT FOR REPLICATION ] ( logical\_expression )

}

<table\_option> ::=

{

    [DATA\_COMPRESSION = { NONE | ROW | PAGE }

      [ ON PARTITIONS ( { <partition\_number\_expression> | <range> }

      [ , ...n ] ) ]]

    [ FILETABLE\_DIRECTORY = <directory\_name> ]

    [ FILETABLE\_COLLATE\_FILENAME = { <collation\_name> | database\_default } ]

    [ FILETABLE\_PRIMARY\_KEY\_CONSTRAINT\_NAME = <constraint\_name> ]

    [ FILETABLE\_STREAMID\_UNIQUE\_CONSTRAINT\_NAME = <constraint\_name> ]

    [ FILETABLE\_FULLPATH\_UNIQUE\_CONSTRAINT\_NAME = <constraint\_name> ]

}

<index\_option> ::=

{

PAD\_INDEX = { ON | OFF }

| FILLFACTOR = fillfactor

| IGNORE\_DUP\_KEY = { ON | OFF }

| STATISTICS\_NORECOMPUTE = { ON | OFF }

| ALLOW\_ROW\_LOCKS = { ON | OFF}

| ALLOW\_PAGE\_LOCKS ={ ON | OFF}

| DATA\_COMPRESSION = { NONE | ROW | PAGE }

       [ ON PARTITIONS ( { <partition\_number\_expression> | <range> }

       [ , ...n ] ) ]

}

<range> ::=

<partition\_number\_expression> TO <partition\_number\_expression>

**CREATE [ UNIQUE ] [ CLUSTERED | NONCLUSTERED ] INDEX** index\_name

    ON <object> ( column [ ASC | DESC ] [ ,...n ] )

    [ INCLUDE ( column\_name [ ,...n ] ) ]

[ WHERE <filter\_predicate> ]

    [ WITH ( <relational\_index\_option> [ ,...n ] ) ]

    [ ON { partition\_scheme\_name ( column\_name )

         | filegroup\_name

         | default

         }

    ]

[ FILESTREAM\_ON { filestream\_filegroup\_name | partition\_scheme\_name | "NULL" } ]

[ ; ]

<object> ::=

{

    [ database\_name. [ schema\_name ] . | schema\_name. ]

    table\_or\_view\_name

}

<relational\_index\_option> ::=

{

    PAD\_INDEX = { ON | OFF }

  | FILLFACTOR = fillfactor

  | SORT\_IN\_TEMPDB = { ON | OFF }

  | IGNORE\_DUP\_KEY = { ON | OFF }

  | STATISTICS\_NORECOMPUTE = { ON | OFF }

  | DROP\_EXISTING = { ON | OFF }

  | ONLINE = { ON | OFF }

  | ALLOW\_ROW\_LOCKS = { ON | OFF }

  | ALLOW\_PAGE\_LOCKS = { ON | OFF }

  | MAXDOP = max\_degree\_of\_parallelism

  | DATA\_COMPRESSION = { NONE | ROW | PAGE}

     [ ON PARTITIONS ( { <partition\_number\_expression> | <range> }

     [ , ...n ] ) ]

}

<filter\_predicate> ::=

<conjunct> [ AND <conjunct> ]

<conjunct> ::=

<disjunct> | <comparison>

<disjunct> ::=

column\_name IN (constant ,...n)

<comparison> ::=

column\_name <comparison\_op> constant

<comparison\_op> ::=

{ IS | IS NOT | = | <> | != | > | >= | !> | < | <= | !< }

<range> ::=

<partition\_number\_expression> TO <partition\_number\_expression>

**ALTER TABLE [ database\_name . [ schema\_name ] . | schema\_name . ] table\_name**

{

ALTER COLUMN column\_name

{

[ type\_schema\_name. ] type\_name [ ( { precision [ , scale ]

| max | xml\_schema\_collection } ) ]

[ COLLATE collation\_name ]

[ NULL | NOT NULL ] [ SPARSE ]

| {ADD | DROP }

        { ROWGUIDCOL | PERSISTED | NOT FOR REPLICATION | SPARSE }

}

        | [ WITH { CHECK | NOCHECK } ]

    | ADD

   {

<column\_definition>

   | <computed\_column\_definition>

   | <table\_constraint>

      | <column\_set\_definition>

   } [ ,...n ]

    | DROP

     {

         [ CONSTRAINT ]

         {

              constraint\_name

              [ WITH

               ( <drop\_clustered\_constraint\_option> [ ,...n ] )

              ]

          } [ ,...n ]

          | COLUMN

          {

              column\_name

          } [ ,...n ]

     } [ ,...n ]

    | [ WITH { CHECK | NOCHECK } ] { CHECK | NOCHECK } CONSTRAINT

   { ALL | constraint\_name [ ,...n ] }

    | { ENABLE | DISABLE } TRIGGER

   { ALL | trigger\_name [ ,...n ] }

    | { ENABLE | DISABLE } CHANGE\_TRACKING

   [ WITH ( TRACK\_COLUMNS\_UPDATED = { ON | OFF } ) ]

    | SWITCH [ PARTITION source\_partition\_number\_expression ]

   TO target\_table

[ PARTITION target\_partition\_number\_expression ]

| SET ( FILESTREAM\_ON = { partition\_scheme\_name | filegroup |

"default" | "NULL" } )

    | REBUILD

      [ [PARTITION = ALL]

        [ WITH ( <rebuild\_option> [ ,...n ] ) ]

      | [ PARTITION = partition\_number

           [ WITH ( <single\_partition\_rebuild\_option> [ ,...n ] ) ]

        ]

      ]

    | <table\_option>

| <filetable\_option>

}

[ ; ]

**ALTER INDEX { index\_name | ALL }**

    ON <object>

    { REBUILD

        [ [PARTITION = ALL]

          [ WITH ( <rebuild\_index\_option> [ ,...n ] ) ]

          | [ PARTITION = partition\_number

                [ WITH ( <single\_partition\_rebuild\_index\_option>

                        [ ,...n ] )

                ]

            ]

        ]

    | DISABLE

    | REORGANIZE

        [ PARTITION = partition\_number ]

        [ WITH ( LOB\_COMPACTION = { ON | OFF } ) ]

  | SET ( <set\_index\_option> [ ,...n ] )

    }

[ ; ]

<object> ::=

{

    [ database\_name. [ schema\_name ] . | schema\_name. ]

    table\_or\_view\_name

}

<rebuild\_index\_option > ::=

{

    PAD\_INDEX = { ON | OFF }

  | FILLFACTOR = fillfactor

  | SORT\_IN\_TEMPDB = { ON | OFF }

  | IGNORE\_DUP\_KEY = { ON | OFF }

  | STATISTICS\_NORECOMPUTE = { ON | OFF }

  | ONLINE = { ON | OFF }

  | ALLOW\_ROW\_LOCKS = { ON | OFF }

  | ALLOW\_PAGE\_LOCKS = { ON | OFF }

  | MAXDOP = max\_degree\_of\_parallelism

  | DATA\_COMPRESSION = { NONE | ROW | PAGE }

     [ ON PARTITIONS ( { <partition\_number\_expression> | <range> }

     [ , ...n ] ) ]

}

<range> ::=

<partition\_number\_expression> TO <partition\_number\_expression>

}

<single\_partition\_rebuild\_index\_option> ::=

{

    SORT\_IN\_TEMPDB = { ON | OFF }

  | MAXDOP = max\_degree\_of\_parallelism

  | DATA\_COMPRESSION = { NONE | ROW | PAGE } }

}

<set\_index\_option>::=

{

    ALLOW\_ROW\_LOCKS = { ON | OFF }

  | ALLOW\_PAGE\_LOCKS = { ON | OFF }

  | IGNORE\_DUP\_KEY = { ON | OFF }

  | STATISTICS\_NORECOMPUTE = { ON | OFF }

}

[ WITH <common\_table\_expression> [,...n] ]

**MERGE**

    [ TOP ( expression ) [ PERCENT ] ]

    [ INTO ] <target\_table> [ WITH ( <merge\_hint> ) ] [ [ AS ] table\_alias ]

    USING <table\_source>

    ON <merge\_search\_condition>

    [ WHEN MATCHED [ AND <clause\_search\_condition> ]

        THEN <merge\_matched> ] [ ...n ]

    [ WHEN NOT MATCHED [ BY TARGET ] [ AND <clause\_search\_condition> ]

        THEN <merge\_not\_matched> ]

    [ WHEN NOT MATCHED BY SOURCE [ AND <clause\_search\_condition> ]

        THEN <merge\_matched> ] [ ...n ]

    [ <output\_clause> ]

    [ OPTION ( <query\_hint> [ ,...n ] ) ]

;

<target\_table> ::=

{

    [ database\_name . schema\_name . | schema\_name . ]

  target\_table

}

<merge\_hint>::=

{

    { [ <table\_hint\_limited> [ ,...n ] ]

    [ [ , ] INDEX ( index\_val [ ,...n ] ) ] }

}

<table\_source> ::=

{

    table\_or\_view\_name [ [ AS ] table\_alias ] [ <tablesample\_clause> ]

        [ WITH ( table\_hint [ [ , ]...n ] ) ]

  | rowset\_function [ [ AS ] table\_alias ]

        [ ( bulk\_column\_alias [ ,...n ] ) ]

  | user\_defined\_function [ [ AS ] table\_alias ]

  | OPENXML <openxml\_clause>

  | derived\_table [ AS ] table\_alias [ ( column\_alias [ ,...n ] ) ]

  | <joined\_table>

  | <pivoted\_table>

  | <unpivoted\_table>

}

<merge\_search\_condition> ::=

    <search\_condition>

<merge\_matched>::=

{ UPDATE SET <set\_clause> | DELETE }

<set\_clause>::=

SET

{ column\_name = { expression | DEFAULT | NULL }

| { udt\_column\_name.{ { property\_name = expression

| field\_name = expression }

| method\_name ( argument [ ,...n ] ) }

}

| column\_name { .WRITE ( expression , @Offset , @Length ) }

| @variable = expression

| @variable = column = expression

| column\_name { += | -= | \*= | /= | %= | &= | ^= | |= } expression

| @variable { += | -= | \*= | /= | %= | &= | ^= | |= } expression

| @variable = column { += | -= | \*= | /= | %= | &= | ^= | |= } expression

} [ ,...n ]

<merge\_not\_matched>::=

{

    INSERT [ ( column\_list ) ]

        { VALUES ( values\_list )

        | DEFAULT VALUES }

}

<clause\_search\_condition> ::=

    <search\_condition>

<search condition> ::=

    { [ NOT ] <predicate> | ( <search\_condition> ) }

    [ { AND | OR } [ NOT ] { <predicate> | ( <search\_condition> ) } ]

[ ,...n ]

<predicate> ::=

    { expression { = | < > | ! = | > | > = | ! > | < | < = | ! < } expression

    | string\_expression [ NOT ] LIKE string\_expression

  [ ESCAPE 'escape\_character' ]

    | expression [ NOT ] BETWEEN expression AND expression

    | expression IS [ NOT ] NULL

    | CONTAINS

  ( { column | \* } , '< contains\_search\_condition >' )

    | FREETEXT ( { column | \* } , 'freetext\_string' )

    | expression [ NOT ] IN ( subquery | expression [ ,...n ] )

    | expression { = | < > | ! = | > | > = | ! > | < | < = | ! < }

  { ALL | SOME | ANY} ( subquery )

    | EXISTS ( subquery ) }

<output\_clause>::=

{

    [ OUTPUT <dml\_select\_list> INTO { @table\_variable | output\_table }

        [ (column\_list) ] ]

    [ OUTPUT <dml\_select\_list> ]

}

<dml\_select\_list>::=

    { <column\_name> | scalar\_expression }

        [ [AS] column\_alias\_identifier ] [ ,...n ]

<column\_name> ::=

    { DELETED | INSERTED | from\_table\_name } . { \* | column\_name }

  | $action