

:

TRANSACT SQL MICROSOFT SQL SERVER

MS SQL Server — Transact SQL.

- :
1. Transact SQL.
 2. ,
 3. .
 4. Table Cursor.
 5. ,
 6. Query Analyzer. .

c

DB_Books,

Transact SQL

*		'''	-
-		‘ ’	-
%		<>	
+	- ()	[]	, -
=		!<	
<=		!>	
>=		>	
!=		<	
@	-	.	-
@ @		/	
--		/* */	

, Transact SQL. -
 “_”, “@”, “#”.
 «\$».

SET QUOTED_IDENTIFIER ON

, ().

SET QUOTED_IDENTIFIER OFF,

,
 .

@.

MS SQL Server:

DECLARE @ _ **1** _ , ..., @ _ **N** _
 ,
 :

DECLARE @ _ **1** _ (), ..., @ _ **N** _ ()
 :
 DECLARE @a INT, @b numeric(10,2)
 DECLARE @str CHAR(20)

SET - , :
 SET @ _ = .
 :
 DECLARE @a INT, @b numeric(10,2)
 SET @a = 20
 SET @b = (@a+@a)/15
 SELECT @b --

SELECT –

```
;  
DECLARE @a INT  
SELECT @a = COUNT(*) FROM Authors
```

```
;  
DECLARE @str CHAR(30)  
SELECT @str = name_ author FROM Authors
```

SET SELECT

```
;  
DECLARE @a INT  
SET @a = (SELECT COUNT(*) FROM Authors)
```

```
SET DATEFORMAT dmy | ymd | mdy
```

```
;  
SET DATEFORMAT dmy  
DECLARE @d DateTime  
SET @d = '31.01.2005 13:23:15'  
SET @d = @d+1  
SELECT @d
```

TABLE

```
DECLARE  
PRIMARY KEY UNIQUE.  
;  
DECLARE @mytable TABLE(id INT, myname CHAR(20) DEFAULT '  
)  
INSERT INTO @mytable(id) VALUES (1)  
SELECT * FROM @mytable  
;  
use DB_BOOKS  
DECLARE @mytable TABLE(id INT, myname CHAR(20) DEFAULT '  
)  
INSERT @mytable SELECT Code_publish, City FROM Publishing_house  
SELECT * FROM @mytable
```

CAST

```

CAST(@ AS - - )
:
DECLARE @d DateTime, @str char(20)
SET @d = '31.01.2005 13:23:15'
SET @str = CAST(@d AS Char(20))
SELECT @str

```

CONVERT

BEGIN

```

/*
.
,
-
-
*/
END

```

IF

```

:
IF
_____ 1
ELSE
_____ 2

```

```

:
DECLARE @a INT
DECLARE @str CHAR(30)
SET @a = (SELECT COUNT(*) FROM Authors)
IF @a > 10
BEGIN
SET @str = '10'
SELECT @str
END
ELSE
BEGIN
SET @str = ' = ' + str(@a)
SELECT @str
END

```

WHILE

```

:
WHILE
_____ 1
BREAK
_____ 2
CONTINUE
BREAK CONTINUE
BREAK.

```

CONTINUE.

```

:
DECLARE @a INT
SET @a = 1
WHILE @a <100
BEGIN
PRINT @a --
IF (@a>40) AND (@a<50)
BREAK
PRINT @a --
IF (@a>40) AND (@a<50)
BREAK
ELSE
SET @a = @a+rand()*10
CONTINUE
END
PRINT @a

```

```

CURSOR -- , -
. ( ),
.
, -
tempdb.
-
-
,

```

MS SQL Server:

```

DECLARE cursor_name [ INSENSITIVE ] [ SCROLL ] CURSOR
FOR select_statement
[ FOR { READ ONLY | UPDATE [ OF column_name [ ,...n ] ] } ]

```

```

:
DECLARE MyCursor1 CURSOR FOR (select * from Authors)
/* MyCursor1, -
,
. */

```

```

DECLARE MyCursor1 INSENSITIVE CURSOR FOR (select * from Authors)
/* MyCursor1, -
,
. */

```

```

DECLARE MyCursor1 SCROLL CURSOR FOR (select * from Authors)
/* MyCursor1, -
,
. */

```

```
DECLARE MyCursor1 INSENSITIVE SCROLL CURSOR FOR (select * from
Authors)
```

```
/*                                MyCursor1,                -
,
.*/
```

```
DECLARE MyCursor1 CURSOR FOR (select * from Authors) FOR READ
ONLY
```

```
/*                                MyCursor1,                -
,
.
.*/
```

```
DECLARE MyCursor1 CURSOR FOR (select * from Authors) FOR UPDATE
```

```
/*                                MyCursor1,                -
,
.
.*/
```

```
OPEN                                MS SQL Server:
OPEN { { [ GLOBAL ] cursor_name } | cursor_variable_name }
```

```
:
DECLARE MyCursor1 CURSOR FOR (select * from Authors)
OPEN MyCursor1
```

```
CLOSE                                MS SQL Server:
CLOSE { { [ GLOBAL ] cursor_name } | cursor_variable_name }
```

```
:
DECLARE MyCursor1 CURSOR FOR (select * from Authors)
OPEN MyCursor1
--
CLOSE MyCursor1
```

```
DEALLOCATE                                MS SQL Server:
DEALLOCATE { { [ GLOBAL ] cursor_name } | @cursor_variable_name }
```

```
:
DECLARE MyCursor1 CURSOR FOR (select * from Authors)
OPEN MyCursor1
```

```
--
CLOSE MyCursor1
DEALLOCATE MyCursor1
```

FETCH –

FETCH

MS SQL Server:

```
FETCH
[ [ NEXT | PRIOR | FIRST | LAST
| ABSOLUTE { n | @nvar }
| RELATIVE { n | @nvar }
]
FROM
]
{ { [ GLOBAL ] cursor_name } | @cursor_variable_name }
[ INTO @variable_name [ ,...n ] ]
```

:

```
DECLARE MyCursor1 SCROLL CURSOR FOR (select * from Authors)
DECLARE @i bigint, @s char(20), @d smalldatetime
OPEN MyCursor1
FETCH FIRST FROM MyCursor1 INTO @i, @s, @d
PRINT @i
PRINT @s
PRINT @d
CLOSE MyCursor1
DEALLOCATE MyCursor1
```

@@FETCH_STATUS –

```
: 0 – ( , ; 1 –
( ); 2 –
( ).
```

:

```
DECLARE MyCursor1 SCROLL CURSOR FOR (select * from Authors)
DECLARE @i bigint, @s char(20), @d smalldatetime
OPEN MyCursor1
FETCH FIRST FROM MyCursor1 INTO @i, @s, @d
WHILE @@FETCH_STATUS = 0
BEGIN
    FETCH NEXT FROM MyCursor1 INTO @i, @s, @d
    PRINT @i
    PRINT @s
    PRINT @d
END
CLOSE MyCursor1
DEALLOCATE MyCursor1
```

,

:

—
—
—
—
—
—
—

;

;

;

;

;

;

•

	,
ASCII	ASCII
CHAR	ASCII
CHARINDEX	,
DIFFERENCE	
LEFT	
LEN	
LOWER	
LTRIM	
NCHAR	Unicode
PATINDEX	
REPLACE	
QUOTENAME	Unicode
REPLICATE	
REVERSE	, -
	,
RIGHT	
RTRIM	
SOUNDEX	
SPACE	
STR	-
STUFF	,
SUBSTRING	
UNICODE	Unicode-
UPPER	

	,
ABS	
ACOS	
ASIN	
ATAN	
ATN2	
CEILING	
COS	
COT	
DEGREES	
EXP	
FLOOR	
LOG	
LOG10	
PI	" "
POWER	
RADIANS	
RAND	
ROUND	
SIGN	
SIN	
SQUARE	
SQRT	
TAN	

	,
DATEADD	, , . .
DATEDIFF	
DATENAME	
DATEPART	
DAY	
GETDATE	
ISDATE	
MONTH	
YEAR	
MINUTE	/
hour	/
SECOND	/

