

Sybase Data Types

TINYINT	Integer (0 to 255)
SMALLINT	Integer (-32768 to +32767)
INT	Integer (-2147483648 to +2147483647)
BIGINT	Integer (-9233372036-854775808 to +92333-72036854775807)
DECIMAL	Decimal (-10 ³⁸ and 10 ³⁸ - 1)
NUMERIC	Decimal (-10 ³⁸ and 10 ³⁸ - 1)
FLOAT	Decimal (8 byte, machine-dependent)
REAL	Decimal (4 byte, machine-dependent)
CHAR(n)	String (1 to 255)
NCHAR(n)	String (1 to 255)
VARCHAR(n)	String (1 to 255)
NVARCHAR(n)	String (1 to 255)
TEXT	String (2 ³¹ characters)
MONEY	Decimal (92233720368-5477.5807 to -92233720-3685477.5808)
SMALLMONEY	Decimal (214748.3647 to -214748.3648)
DATE	Date (1753-01-01 to 9999-12-31)
DATETIME	DateTime (1753-01-01 to 9999-12-31)
SMALLDATETIME	DateTime (1900-01-01 to 2079-06-06)
TIME	Time (12:00:00AM to 11:59:59:999PM)
TIMESTAMP	Timestamp
BIGTIME	Time (12:00:00.000000 AM to 11:59:59.999999 PM)
BIGDATETIME	DateTime (0001-01-01 to 9999-12-31 and 12:00.0-00000AM to 11:59:59.9-99999 PM)
BIT	Boolean (0 or 1)
BINARY	Binary (0 - 256 bytes)
VARBINARY	Binary (0 - 255 bytes)
IMAGE	Blob (Binary 2 ³¹)

CASE Statement

```
CASE value-expression
  WHEN [constant | NULL] THEN
    statement -list ...
  [ WHEN [constant | NULL] THEN
    statement -list ] ...
  ELSE statement -list
END
```

IF Statement

```
IF condition THEN expression
[ELSE expression]
END [IF]
```

Local variables

```
DECLARE @c1 FLOAT, @c2 FLOAT
SELECT @c1 = 1000/1000
SELECT @c2 = @c1/30
SELECT @c1 , @c
```

LIST function [Aggregate]

```
LIST (
  [ALL | DISTINCT] string -expr
  [, 'delimiter-string']
  [ORDER BY order-by-expr [
  ASC | DESC ], ... ]
)
```

Example:

```
SELECT LIST(EmployeeID) FROM Employees
GROUP BY DepartmentID
```

sa_split_list system procedure

Takes a string of values, separated by a delimiter, and returns a set of rows—one row for each value.

```
sa_split_list( string [, delimiter [, maxlen ] ] )
```

Result set:

line_num Sequential number for the row.
row_value Value from the string, truncated to maxlen if required.

Local Temporary Table

DatePart abbreviations

datepart	abbr	values
year	yy	1753–9999 (datetime) 1753–2079 (smalldatetime) 0001–9999 (bigdatetime)
quarter	qq	1-4
month	mm	1-12
week	wk	1-54
day	dd	1-31
dayofyear	dy	1-366
weekday	dw	1–7 (Sun. – Sat.)
hour	hh	0-23
minute	mi	0-59
second	ss	0-59
millisecond	ms	0-999
microsecond	us	0-999999

DateAdd

```
DATEADD(date-part, value, timestamp)
```

Example: add 102 months to the date

```
SELECT DATEADD(month, 102, '1987/05/02')
```

DateDiff

```
DATEDIFF(datepart, {date, datetime | time, time | bigtime, bigtime | datetime, datetime | smalldatetime, bigdatetime})
```

Example: hours between two dates

```
SELECT DATEDIFF(hh, "apr 1, 1999", "apr 2, 1999")
```

REGEXP search condition

```
SELECT * FROM table-name
WHERE col-name REGEXP 'regular-expression';
```

Example:

```
SELECT Surname, City, Phone FROM Contacts
WHERE Phone REGEXP '\\d{8}00';
```

REGEXP_SUBSTR function

```
DROP TABLE IF EXISTS table-name
DECLARE LOCAL TEMPORARY TABLE
table-name
... ( col-name [ col-co nst raint
] ...
[ , col-name [ col-co nst raint
] ... ]
[ , table- con straint ] ... )
...[ ON COMMIT { DELETE | PRESERVE
} ROWS NOT TRANSA CTI ONAL]
```

Push data to temp table

```
INSERT INTO table-name SELECT ...
or
SELECT * INTO table-name FROM ..
.
```

```
SELECT REGEXP_SUBSTR( col-name,
'reg-expr' )
FROM table- name;
```

Example:

```
SELECT REGEXP _SU BSTR( Street,
'(?<=^ \\S +\\ \\s+).*$', ) FROM Cu
stomers;
```



By **pxlcore**
cheatography.com/pxlcore/

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