

SQL Functions –Data Type Conversion Functions

Data Type Conversion Functions

The data type conversion functions are used to convert or change data from one data type to another.

Some of the data type conversion functions are stated below:

- to_date
- ♦ to_char
- ♦ to_number

TO_DATE

The To_date function converts a string to a date.

The general syntax of to_date function is:

TO_DATE (Expression1[, Expression2 [, Expression3]])

Parameter	Description
Expression1	A CHAR or VARCHAR2 expression.
Expression2	The format string. This expression is usually required. It is optional only when Expression1 is in the default date format YYYY-MM-DD HHMMSS.
Expression3	A CHAR or VARCHAR2 expression to specify the NLS parameter which is currently ignored.

TO_DATE

```
SQL> select To_Date('2005-09-22', 'YYYY-MM-DD')                               Date_val
     From Dual;
DATE_VAL
22-SEP-05
SQL> select To_Date('January 23, 2012', 'Month DD, YYYY') Date_Val
    From Dual:
DATE VAL
23-JAN-12
SQL> select To_Date('14/08/2010', 'DD/MM/YYYY')    Date_Ual
     From Dual;
DATE VAL
14-AHG-1Й
SQL> select To_Date('21042014', 'DDMMYYYY')    Date_Val
   From Dual:
DATE_VAL
21-APR-14
```

TO_CHAR

The To_char function converts a number or date to a string.

The general syntax of analytic function is:

TO_CHAR (Expression1[, Expression2 [, Expression3]])

Parameter	Description
Expression1	It can either be a number or date that will be converted to a string.
Expression2	This is the format that will be used to convert value to a string.
Expression3	This is the nls language used to convert <i>value</i> to a string.

TO_CHAR

```
2 From Dual:
DATE CHAR
2014-05-26
SQL>
SQL> select To_CHAR(SYSDATE, 'Month DD, YYYY')    Date_char
   From Dual:
DATE CHAR
  26. 2014
May
SQL>
SQL> select To_CHAR(SYSDATE, 'DD/MM/YYYY') Date_char
 2 From Dual;
DATE CHAR
26/05/2014
SQL>
From Dual:
DATE_CHA
26052014
2 From Dual:
NUM CH
15.345
```

TO_NUMBER

The To_Number function converts a string to a number

The general syntax of months_between is:

TO_NUMBER(Expression-1, [Expression-2])

Parameter	Description
Expression-1	It is the string that will be converted to a number
Expression-2	This is the format that will be used to convert <i>string</i> to a number. This is optional

TO_NUMBER

```
2 From dual;
NUMBER_VAL
    23567
SQL>
SQL> Select To_Number('55,345', '9,999,999') as Number_val
 2 From dual;
NUMBER_VAL
    55345
SQL>
SQL> Select To_Number('$67,890.45', '$999,999.99') as Number_val
 2 From dual;
NUMBER_VAL
 67890.45
SQL>
SQL> Select To_Number<'5000.9876', '999999.99999') as Number_val
 2 From dual;
NUMBER_VAL
5000.9876
```