## TO\_NUMBER function

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| **Format Model** | **Description** |
| ,(comma) | It returns a comma in the specified position. You can specify multiple commas in a number format model. Restrictions:A comma element cannot begin a number format model. A comma cannot appear to the right of a decimal character or period in a number format model. |
| .(period) | Returns a decimal point, which is a period (.) in the specified position. Restriction: You can specify only one period in a number format model |
| $ | Returns value with a leading dollar sign |
| 0 | Returns leading zeros. Returns trailing zeros. |
| 9 | Returns value with the specified number of digits with a leading space if positive or with a leading minus if negative. Leading zeros are blank, except for a zero value, which returns a zero for the integer part of the fixed-point number. |
| B | Returns blanks for the integer part of a fixed-point number when the integer part is zero (regardless of "0"s in the format model). |
| C | Returns in the specified position the ISO currency symbol (the current value of the NLS\_ISO\_CURRENCY parameter). |
| D | Returns in the specified position the decimal character, which is the current value of the NLS\_NUMERIC\_CHARACTER parameter. The default is a period (.). Restriction: You can specify only one decimal character in a number format model. |
| EEE | Returns a value using in scientific notation. |
| FM | Returns a value with no leading or trailing blanks. |
| G | Returns in the specified position the group separator (the current value of the NLS\_NUMERIC\_CHARACTER parameter). You can specify multiple group separators in a number format model. Restriction: A group separator cannot appear to the right of a decimal character or period in a number format model |
| L | Returns in the specified position the local currency symbol (the current value of the NLS\_CURRENCY parameter). |
| MI | Returns negative value with a trailing minus sign (-). Returns positive value with a trailing blank. Restriction: The MI format element can appear only in the last position of a number format model. |
| PR | Returns negative value in . It can appear only in the end of a number format model. |
| RN,rm | Returns a value as Roman numerals in uppercase. Returns a value as Roman numerals in lowercase. Value can be an integer between 1 and 3999. |
| S | Returns negative value with a leading or trailing minus sign (-). Returns positive value with a leading or trailing plus sign (+). Restriction: The S format element can appear only in the first or last position of a number format model. |
| TM | "Text minimum". Returns (in decimal output) the smallest number of characters possible. This element is case-insensitive. |
| U | Returns in the specified position the "Euro" (or other) dual currency symbol (the current value of the NLS\_DUAL\_CURRENCY parameter). |
| V | Returns a value multiplied by 10n (and if necessary, round it up), where n is the number of 9's after the "V". |
| X | Returns the hexadecimal value of the specified number of digits. |

TO\_CHAR function

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| **Format Model** | **Description** |
| CC | Century |
| SCC | Century BC prefixed with - |
| YYYY | Year with 4 numbers |
| SYYY | Year BC prefixed with - |
| IYYY | ISO Year with 4 numbers |
| YY | Year with 2 numbers |
| RR | Year with 2 numbers with Y2k compatibility |
| YEAR | Year in characters |
| SYEAR | Year in characters, BC prefixed with - |
| BC | BC/AD Indicator |
| Q | Quarter in numbers (1,2,3,4) |
| MM | Month of year 01, 02...12 |
| MONTH | Month in characters (i.e. January) |
| MON | JAN, FEB |
| WW | Week number (i.e. 1) |
| W | Week number of the month (i.e. 5) |
| IW | Week number of the year in ISO standard. |
| DDD | Day of year in numbers (i.e. 365) |
| DD | Day of the month in numbers (i.e. 28) |
| D | Day of week in numbers(i.e. 7) |
| DAY | Day of the week in characters (i.e. Monday) |
| FMDAY | Day of the week in characters (i.e. Monday) |
| DY | Day of the week in short character description (i.e. SUN) |
| J | Julian Day (number of days since January 1 4713 BC, where January 1 4713 BC is 1 in Oracle) |
| HH,H12 | Hour number of the day (1-12) |
| HH24 | Hour number of the day with 24Hours notation (0-23) |
| AM, PM | AM or PM |
| MI, SS | Number of minutes and seconds (i.e. 59) , |
| SSSSS | Number of seconds this day. |
| DS | Short date format. Depends on NLS-settings. Use only with timestamp. |
| DL | Long date format. Depends on NLS-settings. Use only with timestamp. |
| E | Abbreviated era name. Valid only for calendars: Japanese Imperial, ROC Official, Thai Buddha. |
| EE | The full era name |
| FF | The fractional seconds. Use with timestamp. |
| FF1..FF9 | The fractional seconds. Use with timestamp. The digit controls the number of decimal digits used for fractional seconds. |
| FM | Fill Mode: suppresses blanks in output from conversion |
| FX | Format Exact: requires exact pattern matching between data and format model. |
| IYY OR IY OR I | The last 3,2,1 digits of the ISO standard year. Output only |
| RM | The Roman numeral representation of the month (I .. XII) |
| RR | The last 2 digits of the year. |
| RRRR | The last 2 digits of the year when used for output. Accepts fout-digit years when used for input. |
| SP | Spelled format. Can appear of the end of a number element. The result is always in english. For example month 10 in format MMSP returns "ten" |
| SPTH | Spelled and ordinal format; 1 results in first. |
| TH | Converts a number to it's ordinal format. For example 1 becoms 1st. |
| TS | Short time format. Depends on NLS-settings. Use only with timestamp. |
| TZD | Abbreviated time zone name. ie PST. |
| TZH,TZM | Time zone hour/minute displacement. |
| TZR | Time zone region |
| X | Local radix character. In America this is a period (.) |

## TO\_DATE function

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| **Format Model** | **Description** |
| YEAR | Year, spelled out |
| YYYY | 4-digit year |
| YYY,YY,Y | Last 3, 2, or 1 digit(s) of year. |
| IYY,IY,I | Last 3, 2, or 1 digit(s) of ISO year. |
| IYYY | 4-digit year based on the ISO standard |
| RRRR | Accepts a 2-digit year and returns a 4-digit year. |
| Q | Quarter of year (1, 2, 3, 4; JAN-MAR = 1). |
| MM | Month (01-12; JAN = 01). |
| MON | Abbreviated name of month. |
| MONTH | Name of month, padded with blanks to length of 9 characters. |
| RM | Roman numeral month (I-XII; JAN = I). |
| WW | Week of year (1-53) where week 1 starts on the first day of the year and continues to the seventh day of the year. |
| W | Week of month (1-5) where week 1 starts on the first day of the month and ends on the seventh. |
| IW | Week of year (1-52 or 1-53) based on the ISO standard. |
| D | Day of week (1-7). |
| DAY | Name of day. |
| DD | Day of month (1-31). |
| DDD | Day of year (1-366). |
| DY | Abbreviated name of day. |
| J | Julian day; the number of days since January 1, 4712 BC. |
| HH12 | Hour of day (1-12). |
| HH24 | Hour of day (0-23). |
| MI,SS | Minute (0-59). |
| SSSSS | Seconds past midnight (0-86399). |
| FF | Fractional seconds. Use a value from 1 to 9 after FF to indicate the number of digits in the fractional seconds. For example, 'FF4'. |
| AM,PM | Meridian indicator |
| AD,BC | AD, BC indicator |
| TZD | Daylight savings information. For example, 'PST' |
| TZH,TZM,TZR | Time zone hour/minute/region. |