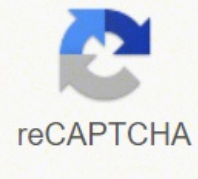




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Oracle sql convert date to number yyyymmdd

This Oracle tutorial explains how to use the Oracle/PLSQL TO_DATE function with syntax and examples. The Oracle/PLSQL TO_DATE function converts a string to a date. The syntax for the TO_DATE function in Oracle/PLSQL is: TO_DATE(string1 [, format_mask] [, nls_language]) Parameters or Arguments string1 The string that will be converted to a date. format_mask Optional. This is the format that will be used to convert string1 to a date. It can be one or a combination of the following values: Parameter Explanation YEAR Year, spelled out YYYY 4-digit year 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. A value between 0-49 will return a 20xx year. A value between 50-99 will return a 19xx 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. HH Hour of day (1-12). HH12 Hour of day (1-12). HH24 Hour of day (0-23). MI Minute (0-59). SS Second (0-59). SSSS Seconds past midnight (0-86399). AM, A.M., PM, or P.M. Meridian indicator AD or A.D AD indicator BC or B.C. BC indicator TZD Daylight savings information. For example, 'PST' TZH Time zone hour. TZM Time zone minute. TZR Time zone region. nls_language Optional. This is the nls language used to convert string1 to a date. The TO_DATE function returns a date value. The TO_DATE function can be used in the following versions of Oracle/PLSQL: Oracle 12c, Oracle 11g, Oracle 10g, Oracle 9i, Oracle 8i Let's look at some Oracle TO_DATE function examples and explore how to use the TO_DATE function in Oracle/PLSQL. For example: TO_DATE('2003/07/09', 'yyyymm/dd') Result: date value of July 9, 2003 TO_DATE('070903', 'MMDDYY') Result: date value of July 9, 2003 TO_DATE('20020315', 'yyyymmdd') Result: date value of Mar 15, 2002 You could use the TO_DATE function with the dual table as follows: SELECT TO_DATE('2015/05/15 8:30:25', 'YYYY/MM/DD HH:MI:SS') FROM dual; This would convert the string value of 2015/05/15 8:30:25 to a date value. In Oracle, TO_CHAR function converts a datetime value (DATE, TIMESTAMP data types i.e.) to a string using the specified format. In SQL Server, you can use CONVERT or CAST functions to convert a datetime value (DATETIME, DATETIME2 data types i.e.) to a string. Oracle: -- Convert the current date to YYYY-MM-DD format SELECT TO_CHAR(SYSDATE, 'YYYY-MM-DD') FROM dual; # 2012-07-19 SQL Server: -- Convert the current date to YYYY-MM-DD format SELECT CONVERT(VARCHAR(10), GETDATE(), 120); # 2012-07-19 Summary information: Oracle SQL Server Syntax TO_CHAR(datetime, format) CONVERT(VARCHAR(n), datetime, style) CAST(datetime as VARCHAR(n)) Default Format and Style Specified by NLS_DATE_FORMAT Mon DD YYYY HH12:MI Last Update: Oracle 11g R2 and Microsoft SQL Server 2012 Oracle TO_CHAR supports the following format specifiers for datetime values: Oracle TO_CHAR Format Specifier YYYY 4-digit year YY 2-digit year MON Abbreviated month (Jan - Dec) MONTH Month name (January - December) MM Month (1 - 12) DY Abbreviated day (Sun - Sat) DD Day (1 - 31) HH24 Hour (0 - 23) HH or HH12 Hour (1 - 12) MI Minutes (0 - 59) SS Seconds (0 - 59) Unlike Oracle TO_CHAR function that allows you to build any format string using format specifiers (YYYY and MM i.e.), in SQL Server, you have to use a datetime style that defines the format for the entire datetime string. In Oracle, the default format of a datetime string depends on the NLS_DATE_FORMAT session variable: Oracle: -- Convert to string with the default format SELECT TO_CHAR(SYSDATE) FROM dual; # 20-JUL-12 -- Change the default format ALTER SESSION SET NLS_DATE_FORMAT = 'Mon DD, YYYY'; -- Convert to string with the default format SELECT TO_CHAR(SYSDATE) FROM dual; # Jul 20, 2012 In SQL Server, the default format is Mon DD YYYY HH12:MI: SQL Server: -- Convert to sting with the default format SELECT CAST(GETDATE() AS VARCHAR); # Jul 20 2012 1:04PM -- Convert to sting with the default format SELECT CONVERT(VARCHAR, GETDATE()); # Jul 20 2012 1:04PM Note that SQL Server CAST can convert with the default format only. The only thing you can do is to right-trim the string by specifying the size of VARCHAR: SQL Server: -- Get Mon DD YYYY format using CAST SELECT CAST(GETDATE() AS VARCHAR(11)); # Jul 20 2012 Using CONVERT function in SQL Server, you can specify different output formats. You can map an Oracle TO_CHAR format to SQL Server CONVERT style as follows: Oracle TO_CHAR Format SQL Server CONVERT Data Type SQL Server CONVERT Style 1 YYYY-MM-DD VARCHAR(10) 20, 21, 120, 121, 126 and 127 2 YYYY-MM-DD HH24:MI:SS VARCHAR(19) 20, 21, 120 and 121 3 YYYYMMDD VARCHAR(8) 112 4 YYYYMM VARCHAR(6) 112 5 YYMM VARCHAR(4) 12 6 YYYY VARCHAR(4) 112 7 YYYY/MM/DD VARCHAR(10) 111 8 HH24:MI VARCHAR(5) 8, 108, 14 and 114 9 HH24:MI:SS VARCHAR(8) 8, 108, 14 and 114 Conversion examples: Oracle SQL Server 1 TO_CHAR(SYSDATE, 'YYYY-MM-DD') CONVERT(VARCHAR(10), GETDATE(), 20) 2 TO_CHAR(SYSDATE, 'YYYY-MM-DD HH24:MI:SS') CONVERT(VARCHAR(19), GETDATE(), 20) 3 TO_CHAR(SYSDATE, 'YYYYMMDD') CONVERT(VARCHAR(8), GETDATE(), 112) 4 TO_CHAR(SYSDATE, 'YYYYMM') CONVERT(VARCHAR(6), GETDATE(), 112) 5 TO_CHAR(SYSDATE, 'YMM') CONVERT(VARCHAR(4), GETDATE(), 12) 6 TO_CHAR(SYSDATE, 'YYYY') CONVERT(VARCHAR(4), GETDATE(), 112) CONVERT(VARCHAR, DATETIME) (YEAR, GETDATE()) CONVERT(VARCHAR, YEAR(GETDATE())) 7 TO_CHAR(SYSDATE, 'YYYYMMDD') CONVERT(VARCHAR(10), GETDATE(), 111) 8 TO_CHAR(SYSDATE, 'HH24:MI') CONVERT(VARCHAR(5), GETDATE(), 8) 9 TO_CHAR(SYSDATE, 'HH24:MI:SS') CONVERT(VARCHAR(8), GETDATE(), 8) SQLLines offers services and tools to help you migrate databases and applications. For more information, please contact us at support@sqlines.com. Written by Dmitry Tolpeko, dmtolpeko@sqlines.com - August 2013 (Updated). Burleson is the American Team Note: This Oracle documentation was created as a support and Oracle training reference for use by our DBA performance tuning consulting professionals. Feel free to ask questions on our Oracle forum. Verify experience! Anyone considering using the services of an Oracle support expert should independently investigate their credentials and experience, and not rely on advertisements and self-proclaimed expertise. All legitimate Oracle experts publish their Oracle qualifications. Errata? Oracle technology is changing and we strive to update our BC Oracle support information. If you find an error or have a suggestion for improving our content, we would appreciate your feedback. Just e-mail: and include the URL for the page. Copyright © 1996 - 2020 All rights reserved by Burleson Oracle ® is the registered trademark of Oracle Corporation. By: Jim Evans | Updated: 2021-07-22 | Comments (6) | Related: More > Dates Problem Often when working with dates in SQL Server you may want to use the Year, Month, Day format 'yyyymmdd' as output or to filter your results. This is a condensed way to display the Date in a sortable format. This format can be used when you do not want to show the delimiter between the year, month, and day. This is a good option when looking for a consistent standard for an international audience and you do not need to include the time portion of a date stamp. However, when using this format as a filter there may be a gotcha that you should be aware of. Solution In this tutorial I'll set up a test table of date values with various data types: DATE, DATETIME, CHAR(8) and load sample date and show examples of outputs and filtering. I will use the CAST and CONVERT functions for date conversions in Microsoft SQL Server. Create a Test Table For this step we will create a test table: dbo.TestDate and load it with sample data. Here is the T-SQL syntax: Use Tempdb; CREATE TABLE [dbo].[TestDate] ([ID] [int] IDENTITY(1,1) NOT NULL, [MyDate] [date] NULL, -- date column [CharDate] [char](8) NULL, -- date column [MyDateTime] [datetime] NULL, -- date column) ON [PRIMARY]; GO Load Sample Test Data For this limited example we will only load 20 rows of test data. For the data load to convert the date to 'yyyymmdd' format, I will use CONVERT(CHAR(8), TheDate, 112). Format 112 is the ISO standard for yyyymmdd. SET NOCOUNT ON; DECLARE @SetDate DATETIME = '2020-01-01 14:04:03.230'; -- current date INSERT INTO [dbo].[TestDate] ([MyDate],[CharDate],[MyDateTime]) SELECT CAST(Convert(CHAR(8),@SetDate,112) AS DATETIME), Convert(CHAR(8),@SetDate,112), CAST(Convert(CHAR(8),@SetDate,112) AS DATETIME); INSERT INTO [dbo].[TestDate] ([MyDate],[CharDate],[MyDateTime]) SELECT @SetDate,Time, Convert(CHAR(8),@SetDate,112), @SetDate GO INSERT INTO [dbo].[TestDate] ([MyDate],[CharDate],[MyDateTime]) SELECT top 1 [MyDateTime]+1, Convert(CHAR(8),[MyDateTime]+1,112), [MyDateTime]+1 FROM [dbo].[TestDate] ORDER BY 1 desc GO 20 --load 20 days of dates Results: Example SQL Server dates loaded. Convert Dates to Char 'yyyymmdd' Next, converting a DATE and DATETIME datatype to character 8 'yyyymmdd' output using CONVERT and FORMAT functions. --A. CONVERT use style = 112 to CHAR 8 or NCAHR 8 SELECT CONVERT(CHAR(8),[MyDate],112) as 'MyDate',CONVERT(CHAR(8),[MyDateTime],112) as 'MyDateTime' FROM [dbo].[TestDate]; --B. NCHAR(8) SELECT CONVERT(NCHAR(8),[MyDate],112) as 'MyDate',CONVERT(NCHAR(8),[MyDateTime],112) as 'MyDateTime' FROM [dbo].[TestDate]; --C. FORMAT Function (new in SQL 2012) use format = yyyyMMdd returning the results as nvarchar. SELECT FORMAT([MyDate],'yyyyMMdd') as 'MyDate', FORMAT([MyDateTime],'yyyyMMdd') as 'MyDateTime' FROM [dbo].[TestDate]; Results: The results of the 3 queries all show the conversion to 'yyyymmdd' regardless of the format or the conversion method. The results below were reduced to 3 rows each for the demo. Convert Char 'yyyymmdd' back to Date data types in SQL Server Now, convert the Character format 'yyyymmdd' to a Date and DateTime data type using CAST and CONVERT. --A. Cast and Convert datatype DATE: SELECT [CharDate], CAST([CharDate] AS DATE) as 'Date-CAST', CONVERT(DATE,[CharDate]) as 'Date-CONVERT' FROM [dbo].[TestDate]; --B. Cast and Convert datatype DATETIME: SELECT [CharDate], CAST([CharDate] AS DATETIME) as 'DateTime-CAST', CONVERT(DATETIME,[CharDate]) as 'DateTime-CONVERT' FROM [dbo].[TestDate]; Results: Below shows the results of converting CHAR 'yyyymmdd' to a DATE and DATETIME data types! SQL does this gracefully. Filtering Dates by Char 'yyyymmdd' and the Gotcha Using Character 'yyyymmdd' as a filter in the WHERE clause against date datatypes. -- Test 'YYYYMMDD' filter against Date datatypes --A. DATE datatype SELECT [MyDate] FROM [dbo].[TestDate] WHERE [MyDate] = '20200101' --B. DATETIME datatype SELECT [MyDateTime] FROM [dbo].[TestDate] WHERE [MyDateTime] = '20200101' --implicit conversion to datetime Midnight!; Results: Note the difference in the 2 result sets. When filtering against a DATETIME datatype, SQL implicitly converts the Character and appends a Midnight timestamp. Any rows with MyDateTime value other than midnight are excluded, i.e. 2020-01-01 14:04:03.230. This is the 'Gotcha'! How to use Char 'yyyymmdd' filter against Datetime datatype to adjust for the Gotcha When using the 'yyyymmdd' in the filter against DateTime datatype you must account for the timestamp part of the datatype! --A. Use Greater Than and Equal and Less Than to get all dates with a Char 'yyyymmdd' Filter: SELECT * FROM [dbo].[TestDate] WHERE [MyDateTime] >= '20200101' AND [MyDateTime] < '20200102' --implicit conversion to datetime Midnight!; What happens if we filter with yyyymmdd as an Integer value? --A. Test yyyymmdd filter against Date datatype using and integer SELECT * FROM [dbo].[TestDate] WHERE [MyDate] = 20200101; Results: We can't do this because it results in an error! Alternative Formats Last, I will share examples of alternative formats for returning dates. Also, I will show how robust SQL is at converting the other formats when used in a where clause. --A. Alternative formats that returns Year Month Day mixing Date and Datetime formats using CONVERT: SELECT CONVERT(CHAR(10),[MyDate],120) as 'MyDate w Dash', CONVERT(CHAR(10),[MyDateTime],111) as 'MyDateTime w Slash', CONVERT(CHAR(10),[MyDateTime],102) as 'MyDateTime_w_Dot' FROM [dbo].[TestDate]; --B. Alternative formats that returns Year Month Day mixing Date and Datetime formats using FORMAT: SELECT FORMAT([MyDate],'yyyy-MM-dd') as 'MyDate w Dash', FORMAT([MyDate], 'yyyy/MM/dd') as 'MyDate w Slash', FORMAT([MyDateTime],'yyyy.MM.dd') as 'MyDateTime_w_Dot' FROM [dbo].[TestDate]; --C. Note using Year, month, day in the where clause that SQL server will recognize different delimiters: dash, slash, dot or no delimiter as shown above. SELECT * FROM [dbo].[TestDate] WHERE [MyDateTime] = '2020.01.01' --or '2020/01/01' or '2020-01-01' or '20200101'; Results: Review the 3 result sets from the queries! Note the different date delimiters and the ability to use different delimited dates as filters. Wrap Up I hope you enjoyed this exercise on year, month, day date formats and can see the flexibility that SQL Server has handling dates. Other ways to take advantage of the Year Month Day short format, might include concatenating a date to a file name or naming a monthly billing batch. I have also seen the use of Char(6) YYYYMM to denote financial monthly periods. Please comment on other ways you may have used the yyyymmdd date format! Next Steps Jim Evans is an IT Manager currently with Harsco who has managed DBAs, Application and BI Developers and Data Management teams for over 20 years. View all my tips Article Last Updated: 2021-07-22

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