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Sql compare dates between

Skip to main content please log in or sign up to add a comment. Please log in or sign up to add a comment. It's hard to use dates in the SQL Server query, especially if you don't have good knowledge of how DateTime type works in the SQL Server. For example, one of the frequent SQL requets on the interview is to select all rows where the date is 2015107? How would you do that? Having the following SQL query will work correctly select * from table where date = '20151007' It may or not, it entirely depends on data in your table. When you only assign part of a DateTime variable, it uses '00:00:00.000' for the part time. So if you have any rows with the same date, but different time then this query will not work. For example, you have the Order table where you have two orders, one with order_date = '20150107' and other with order_date = '20150107:01:00:00:00', then above query will only return first order. I will explain how to find rows between dates in SQL Server in little more detail in this article. Many Java or C++ programmers that use SQL Server do not pay enough attention to the data type of date column e.g. order_date, trade_date, etc. and many of them don't even know that how SQL Server will compare the conditions and the data in that column. It's not surprising because for them SQL is a high skill, while C++ or Java is a primary skill, but, to be honest there should be very few real-world applications where you don't have to work on SQL. So if you like to improve your knowledge of SQL Fundamentals, particularly in SQL Server, I suggest you join Microsoft SQL for beginners to learn more about DATE, TIME, and DATETIME data types. I referred that book before writing this article and it helped me incredibly fill the difference in my knowledge. In order to understand how dates are compared to SQL, let's see an instance where dateTime fields have some time values as well. Supposing we have the following table with a varchar course_name and datetime course_date columns: IF OBJECT_ID('tanpdb..#Course') IS NOT NULL DROP TABLE #COURSE; CREATE TABLE #Course(course_name varchar(10), course_date datetime); ENTER #Course('Java', '2015-10-06 11:16:10.496'); ENTER #Course value ('MySQL', '2015-10-07 00:00:00.000'); ENTER #Course('SQL SERVER', '2015-10-07 11:26:10.193'); ENTER #Course ('PostgreSQL', '2015-10-07 12:36:10.393'); ENTER #Course value ('Oracle', '2015-10-08 00:00:00.000'); Now you need to write a search to find all courses on '2015-10-07'? Query right, should return row 3 which contains start date with '2015-1-07', as shown as below: 'MySQL', '2015-10-07 00:00:00.000' 'SQL SERVER', '2015-10-07 11:26:10.193' 'PostgreSQL', '2015-10-07 12:36:10.393' Let's see how different solutions work: If you just compare date with = operator and only provide you will get the rows where time fields is zero because SQL Server will use '00:00:00.000 for time, as seen in this example: SELECT * FROM #Course WHERE course_date = '2015-107' course_name course_date MySQL 2015-10-07 00:00:00.000 You can see it only brings one row, where time is zero, it did not match the other two rows where time is non-zero. See Query Microsoft SQL Server 2012 to learn more about how SQL Server date format touches and missing date and time information. It seems between is the right option to compare dates without times. You can insert the current date and next date to cover all time where the date is even, but unfortunately that won't work. It will also grab the next date value as seen below: SELECT * FROM #Course WHERE course_date between '2015-10-07' and '2015-10-08' course_name course_date MySQL 2015-10-07 00:00:00.000 SQL SERVER 2015-10-07 11:26:1 0.193 PostgreSQL 2015-10-07 12:36:10.393 Oracle 2015-10-08 00: 00:00.00.000 You can also see between searching 2015-10-08 000:00:00.000 value, which is not desirable. This happens because Cal Clause will always pull any value at next midnight date. See Query Microsoft SQL Server 2012 to learn more about this topic. The discussion is valid for SQL Server 2014 as well. The right answer is to use greater than (>) and less than (<) operator. This will work as expected. In order to use this option, just set the date and next date to the location of clause as shown below: SELECT * FROM #Course WHERE course_date >= '2015-10-07' and course_date<= '2015-108' course_name course_date MySQL 2015-10-07 00:00:00 000 SQL SERVER 2015-10-07 1 1:26:10.193 PostgreSQL 2015-10-07 12:36:10.393 You can see we got exactly three row 3 as expected. Just remember to use <= and >= on the second preaching, this will ensure that '2015-10-08 00:00:00.000' will not get picked up. That's all about how to compare Date columns in SQL Server. You can see that it's very easy to find the SQL query with correct dates. Sometimes you feel that you're working fine but it fails in the real environment, why not? due to different data in both environments. In QA if you have no midnight date value then the date and between clauses will work fine but if you a midnight value in the real environment it will fail. The right way to compare dates only values with a DateTime column is by using <= and >= Conditions. This will ensure that you will get range where start dates from midnight and end before midnight e.g. start date with '00:00:00.00.00' and ending at 59:59:59.999. Also worth remembering is that when you make date = '2015-10-08' and if the date is DateTime column then SQL Server will use '2015-10-08 00:00:00.000' value. So please know this. Btw, if you want to practice SQL queries challenge then you can also check Joe Celko's Puzzles and Answers, Second edition, one of the interesting books in SQL skills. Other SQL Server articles you may like How to join three tables in one SQL query? (tutorial) How to delete from a table using join in SQL? (tutorial) How to replace null with empty string in SQL Server? (solution) The difference between WHERE and THERE is clause in SQL? (reply) How to add columns on existing tables in Microsoft SQL Server? (solution) Difference between row_number(), rank(), and dense_rank() of SQL? (reply) How to increase the length of existing varchar columns in SQL Server? (solution) How to get just date or time from GETDATE() function in SQL Server? (reply) Difference between SQL requets to Oracle and Microsoft SQL Server? (reply) How to find the length of the string in MSSQL? (solution) SQL requets to find all table names in a database? (Motion) Introduction Learning to SQL Full SQL Bootcamp SQL for Newbs: Data Analysis for Beginners Express between Min and Max Contents in Syntax Description Example If deliberate greater than or equal to min and expire is less than or equal to max, Ant returns 1, otherwise it returns 0. This is equivalent to the expression (min <= expr and exploit <= max) if all arguments are of the same type. Otherwise type conversions take place according to the rules described in Type Conversion, but apply to all three arguments. SELECT 1 BETWEEN 2 AND 3; +-----+ | 1 BETWEEN 2 AND 3 | +-----+ | 0 | +-----+ SELECT 'b' BETWEEN 'a' AND 'c'; +-----+ | 'B' BETWEEN 'A' AND 'c' | +-----+ | 1 May 2019 +-----+ SELECT 2 BETWEEN 2 AND '3'; +-----+ | 2 BETWEEN 2 AND '3' | +-----+ | 1 May 2019 +-----+ SELECT 2 BETWEEN 2 AND 'x-3'; +-----+ | 2 CAL 2 AND 'x-3' | +-----+ | 0 | +-----+ +1 row in set, warning 1 (0.00sec) Warning(String 1292): Truncated incorrect double value: 'x-3' NULL; SELECT 1 BETWEEN 1 AND NULL; +-----+ | 1 BETWEEN 1 AND NULL | +-----+ | NULL | +-----+ DATE, DATETIME and TIMESTAMP instance. Increases the compared time against 00:00, so later times on the same date are not returned: CREATE TABLE 'x' (a date, date, datetime, champ) INSERT INTO values x ('2018-11-11', '2018-11-101-105:15', '2018-11-11 05:15'), ('2018-11-12', '2018-11-12 05:15', '2018-11-12 05:15'); SELECT * FROM x WHERE A BETWEEN '2018-11-11' AND '2018-11-12'; +-----+ | a | b | c | +-----+ | a | b | c | +-----+ | 2018-11-11 | 2018-11-11 05:15:00 | 2018-11-11 05:15:00 | 2018-11-12 | 2018-11-12 05:15:00 | 2018-11-12 05:15:00 | +-----+ | 2018-11-11 | 2018-11-11 05:15:00 | 2018-11-11 05:15:00 | 2018-11-12 | 2018-11-12 05:15:00 | 2018-11-12 05:15:00 | +-----+ | 2018-11-11 | 2018-11-11 05:15:00 | 2018-11-11 05:15:00 | 2018-11-12 | 2018-11-12 05:15:00 | 2018-11-12 05:15:00 | +-----+ There are a lot of bad responses and habits in this thread, when it comes to choosing based on a date range where the files might contain non-zero time values - including the second highest response at time of writing. Never use code like this: Date between '2011/02/25' and '2011/02/27 23:59:999' Or this: Date >= '2011/02/25' with Date <= '2011/02/27 23:59:59.99' To see why, try it yourself: DECLARE @DatetimeValues table (MyDatetime datetime); ENTER @DatetimeValues('2011-02-27T23:59:59.997'),('2011-02-28T00:00:00'); SELECT MyDatetime from @DatetimeValues WHERE Mydatetime between '2020-01-01T00:00:00' AND '2020-01-01-01T23:59:59.999'; SELECT MyDatetime from @DatetimeValues WHERE Mydatetime >= '2011-02-25T00:00:00' AND Mydatetime <= '2011-02-27T23:59:59.999'; In both cases, you will get both rows back. Let's assume the date value you are looking at are of the old datetime type, a literal date with a millisecond value of 999 used in a comparison with these dates will be rounded to 000 milliseconds in the next second, as datetime is not precise in the nearest millisecond. You can have 997 or 000, but there's nothing between. You could use the milliseconds value of 997, and that would work – suppose you only ever need to work with datetime2 values, and not datetime2 values, as these may be far more accurate. In this scenario, you would then miss files with a time value 23:59:59.99872, for example. The original code suggests would also miss records with a time value of 23:59:59.9995, for example. Far better is the other solution offered by the same response – Date >='2011/02/25' and Date <='2011/02/28'. Here, it doesn't matter if you're looking at the datetime2 column, this will work regardless. The other key point I'd like to increase is date and literal time. '2011/02/25' is not a good idea – depending on the settings of the system you are working at this might cast an error, as there is no 25 months. Use a literal format that works for all locals and language settings, such as '2011-02-25T00:00:00', '2011-02-25T00:00:00'.

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