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×Sorry to interruptCSS Error You can add leading zeros in SQL to number or string by using different functions like to_char. Most common one is to use to_char function with the required format.You can also use case statement but that requires more effort and is less flexible.We so often get the requirement to show numbers in some specific format or to add leading zeros to number if the length is short.Let us see an example:CREATE MULTISET VOLATILE TABLE vt_add_zeros (COL1 INTEGER NOT NULL) PRIMARY INDEX(COL1) ON COMMIT PRESERVE ROWS; INSERT INTO vt_add_zeros SELECT 1; INSERT INTO vt_add_zeros SELECT 10; INSERT INTO vt_add_zeros SELECT 100; INSERT INTO vt_add_zeros SELECT 1000;Now the data may look like:1101001000 We have an old SQL table that was used by SQL Server 2000 for close to 10 years. In it, our employee badge numbers are stored as char(6) from 000001 to 999999. I am writing a web application now, and I need to store employee badge numbers. In my new table, I could take the short cut and copy the old table, but I am hoping for better data transfer, smaller size, etc, by simply storing the int values from 1 to 999999. In C#, I can quickly format an int value for the badge number using public static string GetBadgeString(int badgeNum) { return string.Format("{0:000000}", badgeNum); // alternate // return string.Format("{0:d6}", badgeNum); } How would I modify this simple SQL query to format the returned value as well? SELECT EmployeeID FROM dbo.RequestItems WHERE ID=0 If EmployeeID is 7135, this query should return 007135. Below are examples of adding a leading zero to a number in SQL, using various DBMSs. Oracle Oracle has a TO_CHAR(number) function that allows us to add leading zeros to a number. It returns its result as a string in the specified format. SELECT TO_CHAR(7, '000') FROM DUAL; Result: 007 The 0 format element is what outputs the leading zeros. If we didn't want leading zeros, we could use 9. Here's a comparison between 0 and 9 to demonstrate what I mean: SELECT TO_CHAR(1234.456, '000G000D00') AS "0", TO_CHAR(1234.456, '999G999D99') AS "9" FROM DUAL; Result: 0 9 _____001,234.46 1,234.46 The G is for the group separator and the D is for the decimal separator. See this list of number format elements for a full list. Oracle also has an LPAD() function that enables us to pad a number with leading zeros (or any other character). See 2 Ways to Format a Number with Leading Zeros in Oracle for an example. PostgreSQL PostgreSQL also has a TO_CHAR() function, and it works like Oracle's function of the same name: SELECT TO_CHAR(7, '000'); Result: 007 And here's a comparison between 0 and 9: SELECT TO_CHAR(1234.456, '000G000D00') AS "0", TO_CHAR(1234.456, '999G999D99') AS "9"; Result: 0 | 9 -----+-----001,234.46 | 1,234.46 See Template Patterns & Modifiers for Numeric Formatting in Postgres for a full list of template patterns that can be used with this function in PostgreSQL. Like Oracle, PostgreSQL also has an LPAD() function that enables us to pad numbers with leading zeros. See 2 Ways to Add Leading Zeros in PostgreSQL for an example. MySQL MySQL has an LPAD() function that allows us to pad the left part of a string or number with our chosen character or series of characters. Therefore, we can use it to pad our number with zeros: SELECT LPAD(7, 3, 0); Result: 007 Fortunately, we can pass the number as a numeric type, so there's no need to convert it to a string first. See How to Add Leading Zeros to a Number in MySQL for more. MariaDB Like MySQL, MariaDB also has an LPAD() function that allows us to pad the left part of a string or number with our chosen character or series of characters: SELECT LPAD(7, 3, 0); Result: 007 And like with MySQL, we can pass the number as a numeric type, so there's no need to convert it to a string first. See How to Pad a Number with Leading Zeros in MariaDB for more. SQL Server SQL Server has a FORMAT() function that allows us to format numbers using a format string: SELECT FORMAT(7, '000'); Result: 007 Here it is, with a group separator and decimal separator: SELECT FORMAT(1234, '0,000.00'); Result: 1,234.00 See Add Leading & Trailing Zeros in SQL Server for more. SQLite SQLite has a PRINTF() function that can be used to add leading zeros to a number: SELECT PRINTF('%03d', 7); Result: 007 See How to Format Numbers with Leading Zeros in SQLite for an explanation. Update: SQLite 3.38.0 (released 22 Feb 2022) renamed the PRINTF() function to FORMAT(). The original PRINTF() name is retained as an alias for backwards compatibility. So the above example can be changed to this: SELECT FORMAT('%03d', 7); Result: 007 In this article we learn about Formatting number to add leading zeros in SQL Server. Please read the previous article Difference between ExecuteReader ExecuteScalar and ExecuteNonQuery. For more details about SQL Server please visit this link. Formatting numbers to add leading zeros can be done in SQL Server. It is just simple. Lets create a new table and see how it works: CREATE TABLE Numbers(Num INT); Lets insert few values and see INSERT Numbers VALUES('12'); INSERT Numbers VALUES('112'); INSERT Numbers VALUES('122'); INSERT Numbers VALUES('1222'); INSERT Numbers VALUES('1222'); 1 row(s) affected. 1 row(s) affected. 1 row(s) affected. 1 row(s) affected. 1 row(s) affected. Now we can see how the numbers are formatted with 6 digits, if it has less than 6 digits it will add leading zeros. Data: Num 12 112 12 122 122 Formatting: SELECT RIGHT('00000'+ CONVERT(VARCHAR,Num),6) AS NUM FROM Numbers; NUM 000012 000112 000012 000122 000122 Conclusion So far in this article we learnt about Formatting number to add leading zeros in SQL Server. Leave behind your valuable queries, suggestions in the comment section below. Also, if you think this article help to you, do not forget to share this within your developer community. Happy Coding A passionate developer keep focus on learning and working on new technology. Change the number 6 to whatever your total length needs to be. SELECT REPLICATE('0',6-LEN(EmployeeId)) + EmployeeId If the column is an INT, you can use RTRIM to implicitly convert it to a VARCHAR SELECT REPLICATE('0',6-LEN(RTRIM(EmployeeId))) + RTRIM(EmployeeId) And the code to remove these 0s and get back the 'real' number: SELECT RIGHT(EmployeeId,(LEN(EmployeeId) - PATINDEX('%[^0]%',EmployeeId) + 1) Just use the FORMAT function (works on SQL Server 2012 or newer): SELECT FORMAT(EmployeeID, '000000') FROM dbo.RequestItems WHERE ID=0 Reference: You can change your procedure in this way SELECT Right('000000' + CONVERT(NVARCHAR, EmployeeID), 6) AS EmpIDText, EmployeeID FROM dbo.RequestItems WHERE ID=0 However this assumes that your EmployeeID is a numeric value and this code change the result to a string. I suggest to add again the original numeric value EDIT Of course I have not read carefully the question above. It says that the field is a char(6) so EmployeeID is not a numeric value. While this answer has still a value per se, it is not the correct answer to the question above.

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