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1	2020	1	1		500	0
1	2020	1	2		10	0
1	2020	2	1		200	200
1	2020	2	2		15	0
2	2020	1	1		100	0
2	2020	1	2		10	0
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2	2020	2	2		15	0
			SUM		2350	1700
			AVG			212.5
			AVG2			850

Report Parameter Properties

General

Available Values

Default Values

Advanced

Choose the available values for this parameter.

Select from one of the following options:

☐None

☒Specify values

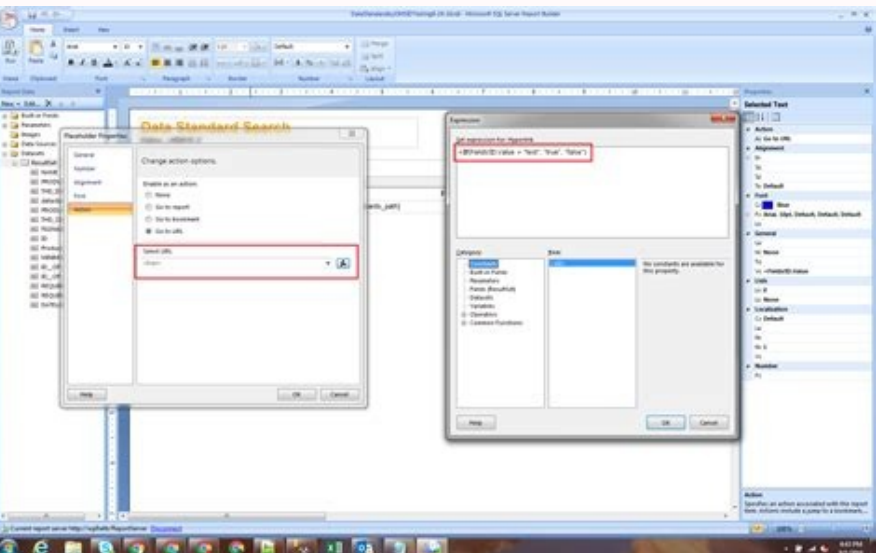
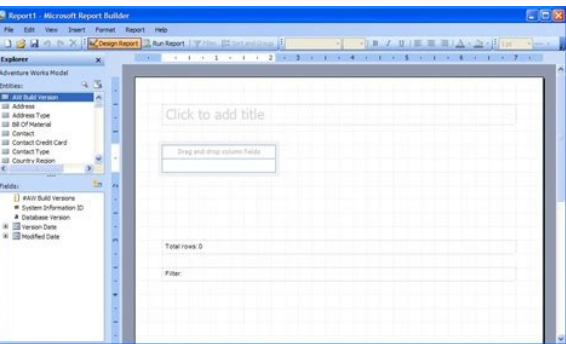
☐Get values from a query

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Label	Value
AM	6,7,8,9,10,11,12
PM	13,14,15,16,17,18
Night	19,20,21,22,23,0

Help

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Sql report builder if statement. Sql report builder grouping.

SQL Server 2012 introduced a new built-in logical function SQL IIF. It is a shorthand form of writing CASE statement logic or IF-ELSE logic. We explored Case Statement in SQL in my earlier article. We use a case statement to return a result based on the defined condition. It is similar to an IF..ELSE...THEN statement evaluates an expression and returns the output. The case statement is available in almost all versions of SQL Server. Let's explore this SQL IIF function in this article. SQL IIF Statement overview We use the following format to write Case statement logic in SQL queries SELECT CASE Expression When expression1 Then Result1 When expression2 Then Result2 ... ELSE Result END We can write this code using SQL IIF statement syntax as following. IIF(boolean_expression, true_value, false_value) Boolean expression: The first parameter in SQL IIF statement is a boolean expression. It should be a valid boolean expression else we get an exception True Value: If the boolean_expression is TRUE, it returns value specified in the true_value parameter False Value: If the boolean_expression is FALSE, it returns value specified in the false_value parameter Let's explore SQL IIF statement using examples. Example 1: SQL IIF statement for comparing integer values In the following example, specified Boolean expression return False (2>3 is not TRUE). Due to this, it returns the value specified in the false_value parameter. SELECT IIF(2 > 3, 'TRUE', 'FALSE') Similarly, if the condition is TRUE (5>3 is TRUE) so it returns the value of true_value parameter. SELECT IIF(5 > 3, 'TRUE', 'FALSE') Example 2: SQL IIF statement with variables In the following example, we specified two integer variables and assigned values. We use variables for comparison in the IIF statement. DECLARE @A INT = 80, @B INT = 70SELECT IIF(@A >= @B, 'PASS', 'FAIL') The specified condition (80>70) is TRUE, so it returns the value PASS. Example 3: SQL IIF statement to compare two strings In the following example, we want to compare the string data using SQL IIF statement. We want to know the person liking based on the person name. DECLARE @Person Varchar(100) = 'Raj'SELECT IIF(@Person='Raj','Likes Apple','NA') We can specify multiple conditions in SQL IIF statement as well. Let's define the following condition Raj and Mohan both likes Apple Else all other persons like orange DECLARE @Person Varchar(100) = 'Raj'SELECT IIF(@Person in('Raj', 'Mohan'),'Likes Apple','Likes Orange') The query should return Likes Orange if the person name is not in the IN clause. In the following example, person Vinay does not exist in the variable @Person, so it returns value for a false clause. Example 4: Nested SQL IIF statement We can use Nested SQL IIF statement as well to specify multiple conditions DECLARE @Person VARCHAR(100)= 'Vinay';SELECT IIF(@Person = 'Raj', 'Likes Apple',IIF(@Person = 'Vinay', 'Likes Orange','Person does not exists in the list')) AS Result; In this SQL IIF function, it checks for the first condition and if the condition is TRUE, it returns the value. In our case, it is FALSE (Person Vinay does not match with Raj).It checks for the other condition and returns results if it is TRUE. If none of the conditions is true, it returns the default false message. Example 5: SQL IIF statement with a table column In the previous examples, we either specify values directly in the IIF statement or specified variables for it. Usually, we want to use it with the existing data in a SQL table. We can use the IIF statement with a table column as well. In the following example, we want to know the supplier name from the PurchaseOrders table in the WideWorldImporters database. DECLARE @SupplierID TINYINT= 1; @SupplierID AS SupplierID, IIF(@SupplierID = 1, 'A Datum Corporation', IIF(@SupplierID = 2, 'Contoso, Ltd.', IIF(@SupplierID = 3, 'Consolidated Messenger', IIF(@SupplierID = 4, 'Fabrikam, Inc.', Humongous Insurance')))) SupplierNameFROM [WideWorldImporters].[Purchasing].[PurchaseOrders]; If the supplier name does not exist for a particular supplier id, it returns the specified false value in SQL IIF statement. Example 6: SQL IIF statement with a table column and aggregate function SUM(IIF(status = 1, 1, 0)) AS 'Pending', SUM(IIF(status = 2, 1, 0)) AS 'Processing', SUM(IIF(status = 3, 1, 0)) AS 'Rejected', SUM(IIF(status = 5, 1, 0)) AS 'Completed' [AdventureWorks2017].[Sales].[SalesOrderHeader] Example 7: SQL IIF statement and data type precedence We might have different data types for the results. If we have different data types specified in the result conditions, SQL Server gives the highest precedence data type. In the following example, for the false condition(11>19), the result will be the false_value argument, i.e. 100. It should be of e integer data type, but we get the output 40.0 because the other argument float (2.6) is of high precedence than an integer. SELECT IIF(11 > 19, 2.6, 40) You can check the data type precedence in the following image Example 8: SQL IIF with NULL values We should be careful in NULL values inside the SQL IIF function. IIF(100 > 99, NULL, NULL) AS Result; We cannot specify NULL in both the true and false arguments. We get the following error message. Msg 8133, Level 16, State 1, Line 1 At least one of the result expressions in a CASE specification must be an expression other than the NULL constant. In the error message, you can see it gives information about the CASE specification however we used SQL IIF function. We will look at this in the next example. You should specify at least one of a true or false argument. IIF(100 > 99, 'Hello', NULL) AS Result; The similarity between SQL IIF statement and CASE Statement In the introduction of SQL IIF Statement, we mentioned that it is a shorthand form of writing CASE statement logic or IF-ELSE logic. Yes, it is true. Internally SQL Server converts the statement into the CASE statement and executes. We can check it using the actual execution plan of a query. Execute the query from Example 6 with an Actual execution plan. In the actual execution plan, look at the properties of Compute Scalar. You can see it executes the CASE statement internally. Conclusion In this article, we explored the SQL IIF Statement that is a new way of writing CASE statement related conditions. It is available from SQL 2012 onwards. You should explore this to be familiar with this. If you have any comments or questions, feel free to leave them in the comments below. Hi! I am Rajendra Gupta, Database Specialist and Architect, helping organizations implement Microsoft SQL Server, Azure, Couchbase, AWS solutions fast and efficiently, fix related issues, and Performance Tuning with over 14 years of experience.I am the author of the book "DP-300 Administering Relational Database on Microsoft Azure". I published more than 650 technical articles on MSSQLTips, SQLShack, Quest, CodingSight, and SeveralNines.I am the creator of one of the biggest free online collections of articles on a single topic, with his 50-part series on SQL Server Always On Availability Groups.Based on my contribution to the SQL Server community, I have been recognized as the prestigious Best Author of the Year continuously in 2019, 2020, and 2021 (2nd Rank) at SQLShack and the MSSQLTIPS champions award in 2020.Personal Blog: am always interested in new challenges so if you need consulting help, reach me at rajendra.gupta16@gmail.com View all posts by Rajendra Gupta 80,814 Views Hi,I am trying to add a calculated member with the following logic - IIF([Client],[Client Number] NOT IN 028193, 093386, [Client],[Client Type]=62, [Client],[Client Number] IN 028193, 093386). The purpose is to combine certain client numbers and client type which are two distinct fields and report builder doesn't offer "OR" functionality.The logic reads if client not equal to 028193 and 093386 then use client type = 62, otherwise, show those two clients.But I don't know how to do it correctly. If you have any suggestions, please help. Thank you for reading this! You pretty much solved this one yourself! To write this in T-SQL you right click the Chart Name and change its value to the following expression: IIF(Fields!chart.Value="110300" AND Fields!division.Value="100",Intercompany AP - USA",IIF(Fields!chart.Value="110300" AND Fields!division.Value="100",Intercompany AP - RUS",Default Chart Name")) Thanks for your response but it did not work, it remains red when the condition is Nan or > 0.here is some few things i have tried.IIF(Fields!GrandTotalBillableRatio.Value >= 2.0, "Green", IIF(Fields!GrandTotalBillableRatio.Value >= 1.75, "Yellow", IIF(Fields!GrandTotalBillableRatio.Value >= 0, "Red", "Silver"))-----IIF(ReportItems!Textbox38.Value >= 2, "Green", IIF(ReportItems!Textbox38.Value >= 1.75, "Yellow", IIF(ReportItems!Textbox38.Value >= 0, "Red", IIF(ReportItems!Textbox38.Value = "Nan", "Silver", "Silver"))))remain blank.Thanks

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