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SQL Server Tutorial

Part 123 - TRY_PARSE function in SQL Server 2012

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In this session we will learn

- TRY_PARSE function
- Difference between PARSE and TRY_PARSE functions

Link to Dot Net Basics, ASP.NET, C#, ADO.NET and SQL Server video series http://www.youtube.com/user/kudvenkat/playlists

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Part 120 - Reverse PIVOT table in SQL Server

Part 121 - Choose function in SQL Server

Part 122-IIF function in SQL Server

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TRY_PARSE function

- Introduced in SQL Server 2012
- · Converts a string to Date/Time or Numeric type
- · Returns NULL if the provided string cannot be converted to the specified data type
- Requires .NET Framework Common Language Runtime (CLR)

Syntax: TRY_PARSE (string_value AS data_type)

Example: As the string can be converted to INT, the result will be 99

SELECT TRY_PARSE('99' AS INT) AS Result 99

Example: As the string cannot be converted to INT, TRY_PARSE returns NULL

SELECT TRY_PARSE('ABC' AS INT) AS Result NULL

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Use CASE statement or IIF function to provide a meaningful error message instead of NULL when the conversion fails **Example:** Using CASE statement to provide a meaningful error message when the conversion fails SELECT CASE WHEN TRY PARSE('ABC' AS INT) IS NULL Result THEN 'Conversion Failed' Conversion Failed ELSE 'Conversion Successful' END AS Result Example: Using IIF function to provide a meaningful error message when the conversion fails SELECT IIF(TRY_PARSE('ABC' AS INT) IS NULL, Result 'Conversion Failed', Conversion Failed 'Conversion Successful') AS Result

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What is the difference between PARSE and TRY_PARSE PARSE will result in an error if the conversion fails, where as TRY_PARSE will return NULL instead of an error Since ABC cannot be converted to INT, PARSE will return an error SELECT PARSE ('ABC' AS INT) AS Result Msg 9819, Level 16, State 1, Line 1 Error converting string value 'ABC' into data type int using culture ''. Since ABC cannot be converted to INT, TRY_PARSE will return NULL instead of an error SELECT TRY_PARSE ('ABC' AS INT) AS Result NULL Result NULL

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SELECT Name, TRY_PARSE(Age AS INT) AS Age FROM Employees

Id	Name	Age		Name	Age
1	Mark	40	>	Mark	40
2	John	20		John	20
3	Amy	THIRTY		Amy	NULL
4	Ben	21		Ben	21
5	Sara	FIFTY		Sara	NULL
6	David	25		David	25

If you use PARSE instead of TRY_PARSE, the query fails with an error

SELECT NAME, PARSE(Age AS INT) AS Age FROM Employees

Msg 9819, Level 16, State 1, Line 1

Error converting string value 'THIRTY' into data type int using culture ''.

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