

TRY_CAST function in SQL Server

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Describe

The **TRY_CAST function** in SQL Server converts an expression from one data type to another. If the conversion fails, TRY_CAST will return NULL, otherwise it will return the corresponding conversion value.

Syntax

To use TRY_CAST function in SQL Server, we use the following syntax:

```
TRY_CAST(bieuthuc AS kieudulieu [(do_dai)])
```

Parameters :

1. *bieuthuc*: value to convert to another data type, can also be the name of a column in the table or a calculation expression that needs to be converted to a new data type.
2. *kieudulieu*: the new data type name to which the expression will be converted. Probably one of the following: *bigint*, *int*, *smallint*, *tinyint*, *bit*, *decimal*, *numeric*, *money*, *smallmoney*, *float*, *real*, *datetime*, *smalldatetime*, *char*, *varchar*, *text*, *nchar*, *nvarchar*, *ntext*, *binary*, *varbinary* or *image*.
3. *do_dai* (optional): data type length for the result of *char*, *varchar*, *nchar*, *nvarchar*, *binary* and *varbinary*.

Note :

1. When converting float or numeric data to int integers, TRY_CAST function will cut the decimal part behind.
2. See also CAST, CONVERT and TRY_CONVERT functions.
3. TRY_CAST can be used in later versions of SQL Server: SQL Server 2017, SQL Server 2016, SQL Server 2014, SQL Server 2012.

For example

Take a look and explore some examples of TRY_CAST functions in SQL Server.

```
SELECT TRY_CAST(14.85 AS int);
```

```
Result: 14
```

```
(kết quả là một giá trị int bất chấp phần thập phân)
```

```
SELECT TRY_CAST(14.85 AS float);
```

```
Result: 14.85
```

```
(kết quả được chuyển về định dạng giá trị float và không bị cắt ngắn)
```

```
SELECT TRY_CAST('14 Main St.' AS float);
```

```
Result: NULL
```

```
(kết quả là NULL vì không thể chuyển đổi giá trị chuỗi này thành float)
```

```
SELECT TRY_CAST(15.6 AS varchar);
```

```
Result: '15.6'
```

```
(kết quả được chuyển về định dạng varchar)
```

```
SELECT TRY_CAST(15.6 AS varchar(2));
```

```
Result: NULL
```

```
(kết quả là NULL vì chuyển đổi không thành công do giá trị không phù hợp với  
?i
```

```
varchar ?? dài 2 ký tự)
```

```
SELECT TRY_CAST('2018-09-13' AS datetime);
```

```
Result: '2018-09-13 00:00:00.000'
```

```
(kết quả được chuyển về định dạng datetime)
```

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Next lesson: [TRY_CONVERT function in SQL Server](#)

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