

# Conversion Function in SQL

**1. CAST:** These functions convert an expression of one data type to another

## **Condition:**

- We can not convert char data to int
- We can convert int to char
- We can convert DateTime to char
- we can convert char to DateTime if the valid date is there.

**Syntax:** CAST ( expression AS data\_type [ ( length ) ] )

**Example:** Select cast(CustomerKey as varchar(100))+' '+FirstName, \* from Dimcustomer

Select 'My Name is ' + FirstName + ' ' + LastName+ ' and my Yearly income is ' + YearlyIncome  
As Details ,\* from Dimcustomer

**2. Convert:** These functions convert an expression of one data type to another.

**Syntax:** CONVERT ( data\_type [ ( length ) ] , expression [ , style ] )

**Example:** Select CONVERT(int,YearlyIncome),\* from Dimcustomer

Select CONVERT(Varchar(100),CustomerKey )+ ''+ FirstName, \* from Dimcustomer

Select convert(varchar,BirthDate,111),BirthDate,\* from Dimcustomer

Select getdate()

--Datetime Conversion formats Example

SELECT convert(varchar,getdate()) -- Mar 15 2018 10:35AM

SELECT convert(varchar,getdate(),0) -- Mar 15 2018 10:35AM

SELECT convert(varchar,getdate(),1) -- 03/15/18

SELECT convert(varchar,getdate(),2) -- 18.03.15

SELECT convert(varchar,getdate(),3) -- 15/03/18

SELECT convert(varchar,getdate(),4) -- 15.03.18

SELECT convert(varchar,getdate(),5) -- 15-03-18

SELECT convert(varchar,getdate(),6) -- 15 Mar 18

SELECT convert(varchar,getdate(),7) -- Mar 15, 18

SELECT convert(varchar,getdate(),8) -- 10:39:39

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SELECT convert(varchar,getdate(),9) -- Mar 15 2018 10:39:48:373AM
SELECT convert(varchar,getdate(),10) -- 03-15-18
SELECT convert(varchar,getdate(),11) -- 18/03/15
SELECT convert(varchar,getdate(),15) -- 180315
SELECT convert(varchar,getdate(),13) -- 15 Mar 2018 10:41:07:590
SELECT convert(varchar,getdate(),14) -- 10:41:25:903
SELECT convert(varchar,getdate(),20) -- 2018-03-15 10:43:56
SELECT convert(varchar,getdate(),21) -- 2018-03-15 10:44:04.950
SELECT convert(varchar,getdate(),22) -- 03/15/18 10:44:50 AM
SELECT convert(varchar,getdate(),23) -- 2018-03-15
SELECT convert(varchar,getdate(),24) -- 10:45:45
SELECT convert(varchar,getdate(),25) -- 2018-03-15 10:46:11.263
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SELECT convert(varchar, getdate(), 100) -- Oct 23 2016 10:22AM (or PM)
SELECT convert(varchar, getdate(), 101) -- 10/23/2016
SELECT convert(varchar, getdate(), 102) -- 2016.10.23
SELECT convert(varchar, getdate(), 103) -- 23/10/2016
SELECT convert(varchar, getdate(), 104) -- 23.10.2016
SELECT convert(varchar, getdate(), 105) -- 23-10-2016
SELECT convert(varchar, getdate(), 106) -- 23 Oct 2016
SELECT convert(varchar, getdate(), 107) -- Oct 23, 2016
SELECT convert(varchar, getdate(), 108) -- 09:10:34
SELECT convert(varchar, getdate(), 109) -- Oct 23 2016 11:10:33:993AM (or PM)
SELECT convert(varchar, getdate(), 110) -- 10-23-2016
SELECT convert(varchar, getdate(), 111) -- 2016/10/23
SELECT convert(varchar, getdate(), 112) -- 20161023
SELECT convert(varchar, getdate(), 113) -- 23 Oct 2016 06:10:55:383
SELECT convert(varchar, getdate(), 114) -- 06:10:55:383(24h)
SELECT convert(varchar, getdate(), 120) -- 2016-10-23 06:10:55(24h)
SELECT convert(varchar, getdate(), 121) -- 2016-10-23 06:10:55.383
SELECT convert(varchar, getdate(), 126) -- 2016-10-23T06:10:55.383
```