**Fill In Missing Dates for SQL Server Query Output using CTE**

<https://ittutorial.org/fill-in-missing-dates-for-sql-server-query-output-using-cte/>

SELECT CONVERT(varchar(10),B.call\_time,111) AS OriginalDate, COUNT(\*) as total

FROM Test1 B

GROUP BY CONVERT(varchar(10),B.call\_time,111)

ORDER BY CONVERT(varchar(10),B.call\_time,111)

-- Create the table

CREATE TABLE Test1(

call\_time datetime,

name varchar(10) default ('Mehedi')

)

GO

-- Populate with sample data

INSERT INTO Test1 (call\_time, name)

VALUES ('2021-06-01 08:00','A')

,('2021-06-01 09:05','C')

,('2021-06-01 12:50','E')

,('2021-06-01 16:17','D')

,('2021-06-01 18:53','G')

,('2021-06-03 11:07','F')

,('2021-06-03 13:09','A')

,('2021-06-03 16:26','E')

,('2021-06-03 19:56','C')

,('2021-06-03 21:24','A')

,('2021-06-04 19:13','A')

,('2021-06-04 11:45','B')

,('2021-06-04 15:02','C')

,('2021-06-08 23:02','A')

,('2021-06-09 03:04','E')

DECLARE @StartDate DATE, @EndDate DATE

SET @StartDate = '2021-11-01'

SET @EndDate = '2021-11-08'

;WITH cte AS

( SELECT @StartDate AS sDate

UNION ALL

SELECT DATEADD(DAY,1,sDate)

FROM cte

WHERE sDate < @EndDate

)

SELECT sDate

FROM cte;

**Now this CTE is will be refactored to make a sub query with LEFT OUTER JOIN so that the date which does not have the value appears and contains 0 value.**

DECLARE @startdate DATETIME = '2021-06-01'

DECLARE @endDate DATETIME = '2021-06-10'

;WITH cte

AS

(

SELECT @startdate as sDate

UNION All

SELECT DATEADD(day,1,sDate) From cte where DATEADD(day,1,sDate) <= @endDate

)

SELECT

C.OriginalDate

,C.total

FROM

(

SELECT CONVERT(varchar(10),A.sDate,111) AS OriginalDate, COUNT(B.call\_time) as total

FROM cte A

LEFT OUTER JOIN Test1 B

ON A.sDate = CONVERT(varchar(10),B.call\_time,111)

GROUP by CONVERT(varchar(10),A.sDate,111)

) C

ORDER BY C.OriginalDate