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Domain: SQL

WEEK 8 TASK

CREATE PROCEDURE PopulateDateDimension

 @InputDate DATE

AS

BEGIN

 DECLARE @StartDate DATE = DATEFROMPARTS(YEAR(@InputDate), 1, 1);

 DECLARE @EndDate DATE = DATEFROMPARTS(YEAR(@InputDate), 12, 31);

 ;WITH DateCTE AS (

 SELECT @StartDate AS DateValue

 UNION ALL

 SELECT DATEADD(DAY, 1, DateValue)

 FROM DateCTE

 WHERE DateValue < @EndDate

)

 INSERT INTO DateDimension (

 Date,

 CalendarDay,

 CalendarMonth,

 CalendarQuarter,

 CalendarYear,

 DayNameLong,

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DayNameShort,
DayNumberOfWeek,
DayNumberOfYear,
DaySuffix,
FiscalWeek,
FiscalPeriod,
FiscalQuarter,
FiscalYear
)
SELECT
    DateValue,
    DAY(DateValue),
    MONTH(DateValue),
    DATEPART(QUARTER, DateValue),
    YEAR(DateValue),
    DATENAME(WEEKDAY, DateValue),
    LEFT(DATENAME(WEEKDAY, DateValue), 3),
    DATEPART(WEEKDAY, DateValue),
    DATEPART(DAYOFYEAR, DateValue),
    CASE
        WHEN DAY(DateValue) IN (11,12,13) THEN CAST(DAY(DateValue) AS VARCHAR) + 'th'
        WHEN DAY(DateValue) % 10 = 1 THEN CAST(DAY(DateValue) AS VARCHAR) + 'st'
        WHEN DAY(DateValue) % 10 = 2 THEN CAST(DAY(DateValue) AS VARCHAR) + 'nd'
        WHEN DAY(DateValue) % 10 = 3 THEN CAST(DAY(DateValue) AS VARCHAR) + 'rd'
        ELSE CAST(DAY(DateValue) AS VARCHAR) + 'th'
    END,
    DATEPART(WEEK, DateValue),
    MONTH(DateValue),

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DATEPART(QUARTER, DateValue),  
YEAR(DateValue)  
FROM DateCTE  
OPTION (MAXRECURSION 366);  
END;
```