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**College: PCCOE**

**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,

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),

DATEPART(QUARTER, DateValue),

YEAR(DateValue)

FROM DateCTE

OPTION (MAXRECURSION 366);

END;