**Power BI M Code Documentation**This query generates a Date Dimension table ranging from January 1, 2024, to May 1, 2025, with various date-related attributes used in time-based reporting in Power BI.

**Step-by-Step Implementation in Power Query**

**1. Create Blank query and name it: Custom Date Table  
  
2. Create Date List**

* Go to Home tab → Click "Advanced Editor".
* Replace the default code with:

let

StartDate = #date(2024, 1, 1),

EndDate = #date(2025, 5, 1),

NoOfDays = Duration.Days(EndDate - StartDate) + 1,

DateList = List.Dates(StartDate, NoOfDays, #duration(1, 0, 0, 0))

in

DateList

* Click **"Done"** → You'll see a **List**.

**3. Convert List to Table**

* Click "To Table" from the top ribbon (Transform tab).
* Use default options and click OK.

**Now, add further columns:**

let

**// Define the start and end dates for the calendar**

StartDate = #date(2024, 1, 1),

EndDate = #date(2025, 5, 1),

**// Calculate number of days between StartDate and EndDate**

NoOfDays = Duration.Days(EndDate - StartDate) + 1,

**// Generate a list of dates from StartDate to EndDate**

DateList = List.Dates(StartDate, NoOfDays, #duration(1, 0, 0, 0)),

**// Convert list to table format**

#"Converted to Table" = Table.FromList(DateList, Splitter.SplitByNothing(), null, null, ExtraValues.Error),

**// Rename the single column to "Order Date"**

#"Add Rename Column" = Table.RenameColumns(#"Converted to Table", {{"Column1", "Order Date"}}),

**// Change type of Order Date to date**

#"change type" = Table.TransformColumnTypes(#"Add Rename Column", {{"Order Date", type date}}),

**// Add full weekday name (e.g., Monday)**

#"Insert Day Name" = Table.AddColumn(#"change type", "Weekday", each Date.DayOfWeekName([Order Date]), type text),

**// Add first character of the weekday**

#"Insert First Characters" = Table.AddColumn(#"Insert Day Name", "First Characters", each Text.Start([Weekday], 1), type text),

**// Add weekday number (custom logic): Mon=1, Tue=2, Wed=3, ..., Sun=7**

#"Add Conditional Column" = Table.AddColumn(#"Insert First Characters", "Weekday no",

each if [Weekday] = "Monday" then 1

else if [Weekday] = "Tuesday" then 2

else if Text.StartsWith([Weekday], "W") then 3

else if Text.StartsWith([Weekday], "Th") then 4

else if Text.StartsWith([Weekday], "F") then 5

else if Text.StartsWith([Weekday], "Sa") then 6

else 7),

**// Extract Year**

#"Add Year" = Table.AddColumn(#"Add Conditional Column", "Year", each Date.Year([Order Date]), type number),

**// Extract Quarter number (1 to 4)**

#"Add quarter" = Table.AddColumn(#"Add Year", "Quarter", each Date.QuarterOfYear([Order Date]), type number),

**// Full month name (e.g., January)**

#"Add Month name" = Table.AddColumn(#"Add quarter", "Month name", each Date.MonthName([Order Date]), type text),

**// Short month name (e.g., Jan)**

#"Add short month name" = Table.AddColumn(#"Add Month name", "Short month name", each Date.ToText([Order Date], "MMM")),

**// Determine if the date is a weekend (Saturday or Sunday)**

#"Add Weekend" = Table.AddColumn(#"Add short month name", "Is Weekend",

each if Date.DayOfWeek([Order Date]) >= 1 and Date.DayOfWeek([Order Date]) <= 5 then false else true,

type logical),

**// Start date of the month for each date**

#"Add StartOfMonth" = Table.AddColumn(#"Add Weekend", "Start of month", each Date.StartOfMonth([Order Date]), type date),

**// Day number of the year (1 to 365/366)**

#"Add day no of year" = Table.AddColumn(#"Add StartOfMonth", "Day no of year", each Date.DayOfYear([Order Date]), type number),

**// Week number of the year using Monday as the first day of the week**

#"Add week no of year" = Table.AddColumn(#"Add day no of year", "Week no of year", each Date.WeekOfYear([Order Date], Day.Monday), type number)

in

**// Final output table**

#"Add week no of year"