Date Calendar Code

Wednesday, February 5, 2025 4:02 PM

```
let
  // Define Start & End Dates (Adjust as Needed)
  StartDate = #date(1900, 1, 1),  // Modify as needed
  EndDate = #date(2100, 12, 31),  // Modify as needed
  DateList = List.Dates(StartDate, Number.From(EndDate - StartDate) + 1, #duration(1,0,0,0)),

  // Convert List to Table
  TableFromList = Table.FromList(DateList, Splitter.SplitByNothing(), {"Date"}),

  // Add Essential Date Components
  AddYear = Table.AddColumn(TableFromList, "Year", each Date.Year([Date])),
  AddMonth = Table.AddColumn(AddYear, "Month", each Date.ToText([Date], "MMM")),
  AddMonthNumber = Table.AddColumn(AddMonth, "MonthNumber", each Date.Month([Date])),
  AddQuarter = Table.AddColumn(AddMonthNumber, "Quarter", each "Q" &
Number.ToText(Date.QuarterOfYear([Date]))),
  AddWeekday = Table.AddColumn(AddQuarter, "Weekday", each Date.ToText([Date], "ddd")),
  AddWeekdayNumber = Table.AddColumn(AddWeekday, "WeekdayNumber", each Date.DayOfWeek([Date],
Day.Sunday) + 1), //  Week starts on Sunday

  // Fiscal Year (Default: July–June, Adjust as Needed)
  FiscalYearStartMonth = 7,  // Change for different fiscal years
  AddFiscalYear = Table.AddColumn(AddWeekdayNumber, "FiscalYear", each if Date.Month([Date]) >=
FiscalYearStartMonth then Date.Year([Date]) + 1 else Date.Year([Date])),
  AddFiscalQuarter = Table.AddColumn(AddFiscalYear, "FiscalQuarter", each "FQ" & Number.ToText(1 +
Number.Mod(Date.QuarterOfYear([Date]) + (4 - Number.RoundDown(FiscalYearStartMonth / 3, 0)), 4))),

  // ISO Week Number (Sunday Start)
  AddISOWeek = Table.AddColumn(AddFiscalQuarter, "ISOWeekNumber", each Date.WeekOfYear([Date], Day.Sunday)),

  // Leap Year Flag
  AddLeapYearFlag = Table.AddColumn(AddISOWeek, "IsLeapYear", each if Date.IsLeapYear([Date]) then "Yes" else
"No"),

  // Semi-Annual Tracking
  AddHalfYear = Table.AddColumn(AddLeapYearFlag, "HalfYear", each "H" & Number.ToText( if Date.Month([Date]) <= 6
then 1 else 2)),

  // Ensure Correct Data Types
  FinalTable = Table.TransformColumnTypes(AddHalfYear, {
     {"Date", type date}, {"Year", Int64.Type}, {"Month", type text}, {"MonthNumber", Int64.Type},
     {"Quarter", type text}, {"Weekday", type text}, {"WeekdayNumber", Int64.Type},
     {"FiscalYear", Int64.Type}, {"FiscalQuarter", type text}, {"ISOWeekNumber", Int64.Type},
     {"IsLeapYear", type text}, {"HalfYear", type text}
  })

in
  FinalTable
```