Time Intelligence in Power BI

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- What is Time Intelligence
  - Time as a Dimension/Measure
  - Time?
    - Time is the indefinite continued progress of existence and events that occur in an apparently irreversible succession from the past, through the present, into the future.
  - Intelligence?
    - logic, understanding, self-awareness, learning, knowledge, reasoning, planning, creativity, critical thinking, and problem-solving
- Importance of Date Table
  - What is it?
    - A table/list of unique, continuous and contiguous dates of the data range.
  - Where to start?
    - Measuring Tape
  - What about the interval?
    - Day
    - Hour
  - Unique Records?
  - How To Create?
    - Power Query
      - { Number.From(List.Min(datefield))..Number.From(List.Max(datefield))}
    - Power BI
      - CALENDARAUTO(3)
      - Calendar(dStart, dEnd)
      - StartofYear(), Quarter(), Month()
      - Format(date, "M"), "MM", "MMM", "MMMM"
    - Points to be considered
      - Financial Year
      - Quarter
      - Monthname, month
      - Sort by Column
  - Multiple Date Columns?
    - UseRelationship()
- Time Intelligence Functions
  - Todate
    - TotalYTD
    - TotalQTD
    - TotalMTD
    - DatesYTD
    - DatesQTD
    - DatesMTD
  - SamePeriodLastYear
  - ParallelPeriod
  - Date
    - DateAdd
    - DatesBetween
    - DatesInPeriod
  - Previous-Next
    - PreviousDay
    - PreviousMonth
    - PreviousQuarter
    - PreviousYear
    - NextDay
    - NextMonth
    - NextQuarter
    - NextYear
  - Opening-Closing
    - OpeningBalanceMonth
    - OpeningBalanceQuarter
    - OpeningBalanceYear
    - ClosingBalanceMonth
    - ClosingBalanceQuarter
    - ClosingBalanceYear
  - Start-End
    - StartofTheMonth
    - StartofTheQuarter
    - StartofTheYear
    - EndofTheMonth
    - EndofTheQuarter
    - EndofTheMonth
  - First-Last
    - FirstDate
    - FirstNonBlank
    - FirstNonBlankValue
    - LastDate
    - LastNonBlank
    - LastNonBlankValue
- Other Date Functions
  - Calendar
    - Calendar
    - CalendarAuto
  - Create Date
    - Date
    - Time
    - DateValue
    - TimeValue
  - Extract from Date
    - Day
    - Month
    - WeekDay
    - WeekNum
    - Year
    - Hour
    - Minute
    - Second
  - Calculate from Date
    - EDate
    - EoMonth
    - DateDiff
  - Get Today's Date
    - Now
    - Today
    - UTCNow
    - UTCToday
- Useful Quick Measures
  - Year over Year Change %
  - Quarter over Quarter Change %
  - Month over Month Change %
  - Running Average