# Caveats and Pitfalls

## Ordinals – Ordered Category.

* Anything that is ordered and categorical.
* Example – Income Groups -Low , Medium, High
* Age Groups – 0-10, 11-25, 26-40, 41-60
* Satisfaction Levels – Extremely, Very, somewhat, not, not- all- all
* Performance reviews – Far Exceeds, Exceeds, meets all, meets some, does not meet.

## DATE-TIME as Numeric or Categorical?

* If we use Date-Time column as numeric, it indicates weightage with increasing time.
  + Population growth – fair numeric column
* If we convert the Date-Time to categorical or strings, it provides very little scope for learning.
* The cyclical could provide learning of repeating time patterns
  + Weekly, monthly, yearly.
  + The cycling function (sin and cosine) are used to transform the data.

## Numeric as Categorical