CL IYCF 09

Group K

2025-09-19

Firts 5 rows

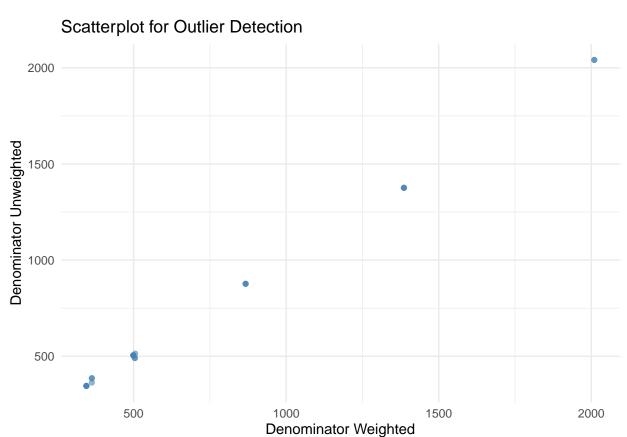
```
## # A tibble: 5 x 29
     ISO3 DataId Indicator Value Precision DHS_CountryCode CountryName SurveyYear
##
     <chr> <chr> <chr> <chr> <chr>
                                             <chr>
                                                             <chr>>
                                                                         <chr>>
## 1 #coun~ #meta~ #indicat~ #ind~ #indicat~ <NA>
                                                             #country+n~ #date+year
           795971 Children~ 87.4 1
## 2 ZAF
                                             ZA
                                                             South Afri~ 1998
## 3 ZAF
           795973 Children~ 38.9 1
                                             ZA
                                                             South Afri~ 1998
            621666 Children~ 6.9
## 4 ZAF
                                             ZA
                                                             South Afri~ 1998
           621667 Children~ 6.3
## 5 ZAF
                                                             South Afri~ 1998
## # i 21 more variables: SurveyId <chr>, IndicatorId <chr>, IndicatorOrder <dbl>,
      IndicatorType <chr>, CharacteristicId <dbl>, CharacteristicOrder <dbl>,
       CharacteristicCategory <chr>, CharacteristicLabel <chr>,
## #
## #
      ByVariableId <chr>, ByVariableLabel <chr>, IsTotal <dbl>,
      IsPreferred <dbl>, SDRID <chr>, RegionId <lgl>, SurveyYearLabel <dbl>,
## #
      SurveyType <chr>, DenominatorWeighted <dbl>, DenominatorUnweighted <dbl>,
## #
       CILow < lgl>, CIHigh < lgl>, LevelRank < lgl>
```

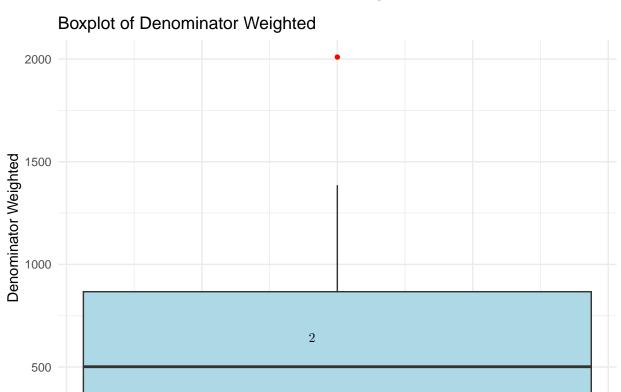
Convert Data Types

check for unique values

Drop the countries only one unquie value: reason, there is no useful information - county is also always za

Assumed pattern, the missing values can be filled with the previous non missing value in the opposite attribute





Outlier Handling

```
# Calculate IQR boundaries
Q1_w <- quantile(icy_df$DenominatorWeighted, 0.25, na.rm = TRUE)
Q3_w <- quantile(icy_df$DenominatorWeighted, 0.75, na.rm = TRUE)
IQR w <- Q3 w - Q1 w
lower_w <- Q1_w - 1.5 * IQR_w
upper_w <- Q3_w + 1.5 * IQR_w
Q1_uw <- quantile(icy_df$DenominatorUnweighted, 0.25, na.rm = TRUE)
Q3_uw <- quantile(icy_df$DenominatorUnweighted, 0.75, na.rm = TRUE)
IQR_uw <- Q3_uw - Q1_uw
lower_uw <- Q1_uw - 1.5 * IQR_uw</pre>
upper_uw <- Q3_uw + 1.5 * IQR_uw
# Cap values to the IQR limits
icy_df <- icy_df %>%
 mutate(
    DenominatorWeighted = pmin(pmax(DenominatorWeighted, lower_w), upper_w),
    DenominatorUnweighted = pmin(pmax(DenominatorUnweighted, lower_uw), upper_uw)
```