EDA_Literacy_07

Group K

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1. Loading the dataset

```
## # A tibble: 5 x 29
          DataId Indicator Value Precision DHS_CountryCode CountryName SurveyYear
     <chr> <chr> <chr> <chr>
                                            <chr>
                                                            <chr>
## 1 #coun~ #meta~ #indicat~ #ind~ #indicat~ <NA>
                                                            #country+n~ #date+year
## 2 ZAF
           563770 Women wi~ 11.8 1
                                                            South Afri~ 2016
## 3 ZAF
           563771 Women wh~ 76.2 1
                                                            South Afri~ 2016
                                            ZA
## 4 ZAF
           563772 Women wh~ 8.2
                                            ZA
                                                            South Afri~ 2016
## 5 ZAF
           563773 Women wh~ 3.5
                                 1
                                            ZA
                                                            South Afri~ 2016
## # 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>
```

2. Data Overview

Summary statistics

##	ISO3	DataId	Indicator	Value
##	Length:21	Length:21	Length:21	Length:21
##	Class :character	Class :character	Class :character	Class :character
##	Mode :character	Mode :character	Mode :character	Mode :character
##				
##				
##				
##				
##	Precision	DHS_CountryCode	CountryName	SurveyYear
##	Length:21	Length:21	Length:21	Length:21
##	Class :character	Class :character	Class :character	Class :character
##	Mode :character	Mode :character	Mode :character	Mode :character
##				
##				
##				
##				
##	SurveyId	IndicatorId	IndicatorOrder	IndicatorType

```
Length:21
                       Length:21
                                          Min.
                                                  :231233010
                                                               Length:21
   Class : character
                       Class : character
                                           1st Qu.:231233058
                                                               Class : character
##
   Mode :character
                       Mode :character
                                           Median :231233615
                                                               Mode :character
##
                                          Mean
                                                  :231233614
                                           3rd Qu.:231234162
##
##
                                          Max.
                                                  :231234220
##
                                           NA's
                                                  :1
##
  CharacteristicId CharacteristicOrder CharacteristicCategory
##
   Min.
           :10000
                     Min.
                            :10000
                                          Length:21
##
  1st Qu.:10000
                     1st Qu.:10000
                                          Class :character
## Median :10000
                     Median :10000
                                          Mode : character
## Mean
          :10000
                            :10000
                     Mean
   3rd Qu.:10000
                     3rd Qu.:10000
## Max.
          :10000
                            :10000
                     Max.
## NA's
           :1
                     NA's
                            :1
## CharacteristicLabel ByVariableId
                                            ByVariableLabel
                                                                  IsTotal
##
   Length:21
                        Length:21
                                            Length:21
                                                               Min.
                                                                      :1
##
   Class :character
                        Class :character
                                            Class : character
                                                               1st Qu.:1
##
   Mode :character
                        Mode :character
                                           Mode :character
                                                               Median:1
##
                                                               Mean
                                                                      :1
##
                                                               3rd Qu.:1
##
                                                               Max.
                                                                      :1
##
                                                               NA's
                                                                      :1
##
     IsPreferred
                    SDRID
                                    RegionId
                                                    SurveyYearLabel
          :1
##
  Min.
                 Length:21
                                    Mode:logical
                                                    Min.
                                                          :2016
   1st Qu.:1
                 Class : character
                                    NA's:21
                                                    1st Qu.:2016
  Median :1
                 Mode :character
##
                                                    Median:2016
   Mean
                                                    Mean
                                                           :2016
## 3rd Qu.:1
                                                    3rd Qu.:2016
## Max.
                                                    Max.
                                                           :2016
           :1
## NA's
                                                    NA's
           :1
                                                           :1
##
    SurveyType
                       DenominatorWeighted DenominatorUnweighted CILow
##
  Length:21
                       Min.
                              :3202
                                           Min.
                                                  : 3179
                                                                  Mode:logical
                       1st Qu.:3202
##
  Class :character
                                            1st Qu.: 3179
                                                                  NA's:21
                       Median:5858
                                           Median : 7492
##
   Mode :character
##
                       Mean
                              :5858
                                           Mean
                                                  : 7492
##
                       3rd Qu.:8514
                                            3rd Qu.:11805
##
                       Max.
                              :8514
                                           Max.
                                                   :11805
                       NA's
                                           NA's
##
                              :3
                                                   :3
##
                   LevelRank
     CIHigh
   Mode:logical
                   Mode:logical
   NA's:21
                   NA's:21
##
##
##
##
##
##
```

3. Data Quality

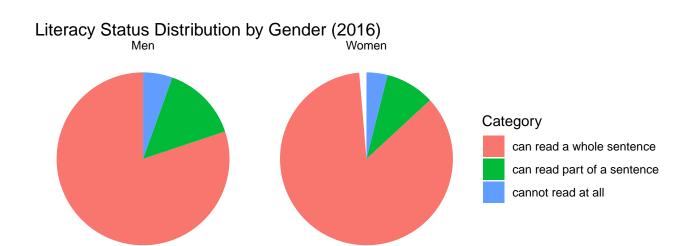
Missing values per column

##	ISO3	DataId	Indicator
##	0	0	0
##	Value	Precision	DHS_CountryCode
##	0	0	1
##	${\tt CountryName}$	SurveyYear	SurveyId
##	0	0	0
##	IndicatorId	IndicatorOrder	${\tt IndicatorType}$
##	0	1	1
##	${\tt CharacteristicId}$	CharacteristicOrder	CharacteristicCategory
##	1	1	1
##	${\tt CharacteristicLabel}$	${ t ByVariableId}$	${ t ByVariable Label}$
##	1	0	20
##	IsTotal	IsPreferred	SDRID
##	1	1	1
##	${ t RegionId}$	SurveyYearLabel	SurveyType
##	21	1	1
##	DenominatorWeighted	${\tt Denominator Unweighted}$	CILow
##	3	3	21
##	CIHigh	LevelRank	
##	21	21	

Dupilcates

[1] 0

4. Visualizations





5. Summary Tables

```
## Warning: There were 4 warnings in 'summarise()'.
## The first warning was:
## i In argument: 'across(...)'.
## Caused by warning in 'min()':
## ! no non-missing arguments to min; returning Inf
## i Run 'dplyr::last_dplyr_warnings()' to see the 3 remaining warnings.
```

Table 1: Summary Statistics for Key Numeric Variables in the Literacy Dataset

Variable	Statistic	Value
CIHigh	mean	NaN
CIHigh	sd	NA
CIHigh	\min	Inf
CIHigh	max	-Inf
CILow	mean	NaN
CILow	sd	NA
CILow	\min	Inf
CILow	max	-Inf
DenominatorUnweighted	mean	7492.000
DenominatorUnweighted	sd	4438.040
DenominatorUnweighted	\min	3179.000
DenominatorUnweighted	max	11805.000
DenominatorWeighted	mean	5858.000
DenominatorWeighted	sd	2733.001
DenominatorWeighted	\min	3202.000
DenominatorWeighted	max	8514.000
Value	mean	1364.555
Value	sd	3203.736
Value	\min	0.000
Value	max	11805.000