CL Access To Healthcare 01

Group K

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#Loading Libraries

Display Dataset content

```
## # A tibble: 5 x 29
##
     IS03
            DataId Indicator Value Precision DHS_CountryCode CountryName SurveyYear
##
            <chr> <chr>
                             <chr> <chr>
                                              <chr>>
## 1 #coun~ #meta~ #indicat~ #ind~ #indicat~ <NA>
                                                              #country+n~ #date+year
## 2 ZAF
            751751 Antenata~ 28.5 1
                                              ZA
                                                              South Afri~ 1998
## 3 ZAF
            567476 Antenata~ 30
                                             ZA
                                                              South Afri~ 1998
## 4 ZAF
            205488 Antenata~ 27.3
                                             ZA
                                                              South Afri~ 1998
## 5 ZAF
            751748 Antenata~ 66.6 1
                                             ZA
                                                              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>
```

Remove the first row(meta data)

```
acc_df <- acc_df[-1, ]</pre>
```

Check data types

```
Column pasteO.sapply.acc_df..typeof..
##
## 1
                         IS03
                                                     character
## 2
                       DataId
                                                     character
## 3
                    Indicator
                                                     character
## 4
                        Value
                                                     character
## 5
                    Precision
                                                     character
             DHS_CountryCode
## 6
                                                     character
## 7
                  CountryName
                                                     character
## 8
                   SurveyYear
                                                     character
## 9
                     SurveyId
                                                     character
## 10
                  IndicatorId
                                                     character
              IndicatorOrder
## 11
                                                        double
```

```
IndicatorType
## 12
                                                     character
## 13
            CharacteristicId
                                                        double
## 14
         CharacteristicOrder
                                                        double
## 15 CharacteristicCategory
                                                     character
## 16
         CharacteristicLabel
                                                     character
## 17
                ByVariableId
                                                     character
## 18
             ByVariableLabel
                                                     character
## 19
                      IsTotal
                                                        double
## 20
                  IsPreferred
                                                        double
## 21
                        SDRID
                                                     character
## 22
                     RegionId
                                                       logical
## 23
             SurveyYearLabel
                                                        double
## 24
                   SurveyType
                                                     character
## 25
         DenominatorWeighted
                                                        double
## 26
                                                        double
       DenominatorUnweighted
## 27
                        CILow
                                                       logical
## 28
                       CIHigh
                                                       logical
## 29
                    LevelRank
                                                       logical
```

Convert Data Types

Check for unique values

```
## # A tibble: 29 x 3
##
      column
                     n_unique sample_values
##
      <chr>
                        <int> <chr>
##
  1 ISO3
                             1 ZAF
                           239 751751, 567476, 205488
##
   2 DataId
## 3 Indicator
                           68 Antenatal care provider: Doctor, Antenatal care pro~
## 4 Value
                           190 28.5, 30, 27.3
## 5 Precision
                             2 1, 0
   6 DHS_CountryCode
                             1 ZA
## 7 CountryName
                             1 South Africa
## 8 SurveyYear
                             2 1998, 2016
                             2 ZA1998DHS, ZA2016DHS
## 9 SurveyId
## 10 IndicatorId
                           70 RH_ANCP_W_DOC, RH_ANCP_W_NRS, RH_ANCP_W_TBA
```

i 19 more rows

#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



