

EDA_toilet_facilities_09

Group K

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1. Loading the dataset

Display the first 5 rows

Table 1: First 5 rows of the Access to Health Care Dataset (excluding first row)

ISO3	DataId	Indicator	Value	CountryName	SurveyYear
ZAF	795762	Households with an improved sanitation facility	50.1	South Africa	1998
ZAF	795768	Households with an unimproved sanitation facility	38.3	South Africa	1998
ZAF	795760	Households with a pit latrine without a slab or an open pit	31.2	South Africa	1998
ZAF	795764	Households with a bucket toilet	6	South Africa	1998
ZAF	795765	Households using open defecation	11.6	South Africa	1998

2. Data Overview

Summary statistics

```
## 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 2: Summary Statistics for Key Numeric Variables in the toilet_facilities Dataset

Variable	Statistic	Value
CIHigh	mean	NaN
CIHigh	sd	NA

Variable	Statistic	Value
CIHigh	min	Inf
CIHigh	max	-Inf
CILow	mean	NaN
CILow	sd	NA
CILow	min	Inf
CILow	max	-Inf
DenominatorUnweighted	mean	27495.238
DenominatorUnweighted	sd	16938.786
DenominatorUnweighted	min	11083.000
DenominatorUnweighted	max	52465.000
DenominatorWeighted	mean	27185.143
DenominatorWeighted	sd	16667.463
DenominatorWeighted	min	11083.000
DenominatorWeighted	max	52007.000
Value	mean	4942.057
Value	sd	13082.679
Value	min	0.400
Value	max	52465.000

3. Data Quality

Missing values per column

##	IS03	DataId	Indicator
##	0	0	0
##	Value	Precision	DHS_CountryCode
##	0	0	1
##	CountryName	SurveyYear	SurveyId
##	0	0	0
##	IndicatorId	IndicatorOrder	IndicatorType
##	0	1	1
##	CharacteristicId	CharacteristicOrder	CharacteristicCategory
##	1	1	1
##	CharacteristicLabel	ByVariableId	ByVariableLabel
##	1	0	46
##	IsTotal	IsPreferred	SDRID
##	1	1	1
##	RegionId	SurveyYearLabel	SurveyType
##	47	1	1
##	DenominatorWeighted	DenominatorUnweighted	CILow
##	5	5	47
##	CIHigh	LevelRank	
##	47	47	

Dupilcates

4. Visualization

Toilet Facilities Indicators in South Africa (2016)

