Data Cleaning Report

Veena Muralidharan

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Data Understanding Data Cleaning		
	• Ge	tting the feel of the Data
Un	dersta	nding the dataframe, its dimensions, the variables and building a summary of the data
Ste	р 1: Е	Basic Information of the data
who	_repo	<pre>prt_tbl <- read_rds("//project/00_Data/02_data_wrangled/who_report.rds") preport_tbl)</pre>
##	[1] 7	7758 25
nan	nes(wh	no_report_tbl)
## ## ## ## ## ##	[2] [3] [4] [5] [6] [7] [8]	<pre>"reported_date" "reporting_country_territory" "confirmed_cases" "new_confirmed_cases" "total_deaths" "new_total_deaths" "transmission_classification" "total_cases_with_travel_history_to_china"</pre>
##		"new_cases_with_travel_history_to_china"
##	[11] [12] [13]	"total_cases_with_possible_or_confirmed_transmission_outside_china" "new_cases_with_possible_or_confirmed_transmission_outside_china" "total_cases_with_site_of_transmission_under_investigation" "new_cases_with_site_of_transmission_under_investigation" "place_of_exposure_in_china_cases"
		"place_of_exposure_in_china_cases_new"

[16] "place_of_exposure_outside_reporting_country_and_china_cases"
[17] "place_of_exposure_outside_reporting_country_and_china_cases_new"

[18] "place_of_exposure_in_reporting_country_cases"

```
## [19] "place_of_exposure_in_reporting_country_cases_new"
## [20] "suspected_cases"
## [21] "daily_suspected_cases"
## [22] "daily_lab_confirmed_cases"
## [23] "cumulative_lab_confirmed_cases"
## [24] "days_since_last_reported"
## [25] "report_url"
```

Step 2: Basic Summary of the Data

summary(who_report_tbl)

```
## reported_date
                        reporting_country_territory confirmed_cases
## Min.
          :2020-01-21
                       Length:7758
                                                  Min.
                                                         :0.000e+00
## 1st Qu.:2020-02-29
                       Class :character
                                                   1st Qu.:5.000e+00
## Median :2020-03-15
                       Mode :character
                                                   Median :4.400e+01
## Mean
         :2020-03-11
                                                   Mean
                                                         :5.478e+05
## 3rd Qu.:2020-03-27
                                                   3rd Qu.:2.850e+02
## Max.
          :2020-04-05
                                                   Max.
                                                         :1.106e+09
##
                                                   NA's
                                                         :8
## new_confirmed_cases total_deaths
                                         new_total_deaths
                      Min. :
## Min. :
               0.0
                                  0.00
                                         Min. :
                                                   0.000
## 1st Qu.:
               0.0
                       1st Qu.:
                                  0.00
                                         1st Qu.:
                                                   0.000
## Median :
                      Median :
                                  0.00
                                         Median :
                                                   0.000
               1.0
## Mean : 172.3
                      Mean :
                                 76.43
                                         Mean :
                                                   7.469
## 3rd Qu.: 19.0
                       3rd Qu.:
                                  3.00
                                         3rd Qu.:
                                                   0.000
## Max.
        :56249.0
                      Max. :14681.00
                                         Max.
                                                :2003.000
                      NA's
                                                :764
## NA's
         :715
                             :635
                                         NA's
## transmission_classification total_cases_with_travel_history_to_china
## Length:7758
                             Mode :logical
## Class :character
                              FALSE:33
## Mode :character
                              TRUE :106
##
                              NA's :7619
##
##
##
## new_cases_with_travel_history_to_china
## Mode :logical
## FALSE:302
## TRUE:30
## NA's:7426
##
##
##
## total_cases_with_possible_or_confirmed_transmission_outside_china
## Mode :logical
## FALSE:206
## TRUE:33
## NA's :7519
##
##
## new_cases_with_possible_or_confirmed_transmission_outside_china
## Mode :logical
## FALSE:287
```

```
## TRUE: 24
  NA's :7447
##
##
##
##
## total_cases_with_site_of_transmission_under_investigation
## Mode :logical
## FALSE:94
## TRUE:13
## NA's :7651
##
##
##
## new_cases_with_site_of_transmission_under_investigation
## Mode :logical
## FALSE:44
## TRUE :5
## NA's:7709
##
##
##
## place_of_exposure_in_china_cases place_of_exposure_in_china_cases_new
## Mode :logical
                                    Mode :logical
## FALSE:79
                                    FALSE: 281
## TRUE :55
                                    TRUE:5
##
  NA's :7624
                                    NA's :7472
##
##
##
## place_of_exposure_outside_reporting_country_and_china_cases
## Mode :logical
## FALSE:170
## TRUE:37
## NA's :7551
##
##
##
## place_of_exposure_outside_reporting_country_and_china_cases_new
## Mode :logical
## FALSE:235
## TRUE :22
## NA's :7501
##
##
##
## place_of_exposure_in_reporting_country_cases
## Mode :logical
## FALSE:152
## TRUE: 23
## NA's :7583
##
##
##
##
   place_of_exposure_in_reporting_country_cases_new suspected_cases
```

```
## Mode :logical
                                                  Mode :logical
## FALSE:257
                                                  FALSE:598
                                                  TRUE:64
## TRUE :6
## NA's :7495
                                                  NA's :7096
##
##
##
## daily_suspected_cases daily_lab_confirmed_cases cumulative_lab_confirmed_cases
## Mode :logical
                        Mode :logical
                                                 Mode:logical
## FALSE:16
                        FALSE:19
                                                 TRUE:3
## TRUE :2
                        TRUE :10
                                                 NA's:7755
## NA's :7740
                        NA's :7729
##
##
## days_since_last_reported report_url
## Min. : 0.000
                           Length:7758
## 1st Qu.: 0.000
                           Class :character
## Median : 0.000
                           Mode :character
## Mean : 1.411
## 3rd Qu.: 1.000
## Max. :59.000
## NA's :2413
```