testing

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```
##Getting the datasets from the Excel files
manhattan_data<-readxl::read_xlsx(here::here("data", "rollingsales_manhattan.xlsx")) |>janitor::clean_na
## New names:
## * ' ' -> ' . . . 2 '
## * ' ' -> '...3'
## * '' -> '...4'
## * '' -> '...5'
## * '' -> '...6'
## * '' -> '...7'
## * '' -> '...8'
## * '' -> '...9'
## * '' -> '...10'
## * '' -> '...11'
## * '' -> '...12'
## * '' -> '...13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
## * '' -> '...19'
## * '' -> '...21'
bronx_data<-readxl::read_xlsx(here::here("data", "rollingsales_bronx.xlsx")) |>janitor::clean_names()
## New names:
## * '' -> '...2'
## * ' ' -> '...3'
## * '' -> '...4'
## * '' -> '...5'
## * '' -> '...6'
## * '' -> '...7'
## * '' -> '...8'
## * '' -> '...9'
## * '' -> '...10'
## * '' -> '...11'
## * '' -> '...12'
## * '' -> '...13'
## * '' -> '...14'
## * ' '-> '...15'
```

```
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
## * '' -> '...19'
## * '' -> '...21'
brooklyn_data<-readxl::read_xlsx(here::here("data", "rollingsales_brooklyn.xlsx")) |>janitor::clean_name
## New names:
## * '' -> '...2'
## * '' -> '...3'
## * '' -> '...4'
## * ' ' -> '...5'
## * '' -> '...6'
## * ' ' -> '...7'
## * '' -> '...8'
## * '' -> '...9'
## * '' -> '...10'
## * '' -> '...11'
## * ' ' -> ' . . . 12 '
## * '' -> '...13'
## * ' ' -> ' . . . 14 '
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
## * '' -> '...19'
## * '' -> '...21'
queens_data<-readxl::read_xlsx(here::here("data","rollingsales_queens.xlsx")) |>janitor::clean_names()
## New names:
## * '' -> '...2'
## * '' -> '...3'
## * '' -> '...4'
## * '' -> '...5'
## * ' ' -> ' . . . 6 '
## * ' ' -> ' ... 7'
## * '' -> '...8'
## * '' -> '...9'
## * '' -> '...10'
## * '' -> '...11'
## * '' -> '...12'
## * '' -> '...13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * ' ' -> ' . . . 17'
## * '' -> '...18'
## * '' -> '...19'
## * '' -> '...21'
```

```
staten_island_data<-readxl::read_xlsx(here::here("data","rollingsales_statenisland.xlsx")) |>janitor::c
## New names:
## * '' -> '...2'
## * '' -> '...3'
## * '' -> '...4'
## * '' -> '...5'
## * ' ' -> ' ... 6 '
## * ' ' -> '...7'
## * '' -> '...8'
## * '' -> '...9'
## * '' -> '...10'
## * '' -> '...11'
## * '' -> '...12'
## * ' ' -> ' . . . 13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
## * '' -> '...18'
## * '' -> '...19'
## * '' -> '...21'
##Column Names are the 4th row
col_names<-make.names(c(manhattan_data[4,]))</pre>
##The Information in row 1 to 3 are descriptions of the dataset, and are not needed in the dataframe, t
manhattan_data<-manhattan_data[-c(1:4),]
bronx_data<-bronx_data[-c(1:4),]
brooklyn_data<-brooklyn_data[-c(1:4),]</pre>
queens_data<-queens_data[-c(1:4),]
staten_island_data<-staten_island_data[-c(1:4),]</pre>
##The column names are the same for all datasets, so we can use the same vector for all of them
colnames (manhattan_data) <-col_names</pre>
colnames(bronx_data)<-col_names</pre>
colnames(brooklyn_data)<-col_names</pre>
colnames (queens_data) <-col_names</pre>
colnames(staten_island_data)<-col_names</pre>
clean_data <- function(df) {</pre>
 df %>%
    filter(SALE.PRICE != 0) %>%
    filter(!is.na(TOTAL.UNITS)) %>%
    select(-NEIGHBORHOOD, -BLOCK, -LOT, -EASEMENT, -ADDRESS, -APARTMENT.NUMBER, -SALE.DATE) %>%
      BOROUGH= as.numeric(as.factor(BOROUGH)),
      BUILDING.CLASS.CATEGORY= as.numeric(as.factor(BUILDING.CLASS.CATEGORY)),
      TAX.CLASS.AT.PRESENT= as.numeric(as.factor(TAX.CLASS.AT.PRESENT)),
      BUILDING.CLASS.AT.PRESENT= as.numeric(as.factor(BUILDING.CLASS.AT.PRESENT)),
      ZIP.CODE= as.numeric(as.character(ZIP.CODE)),
      RESIDENTIAL.UNITS= as.numeric(RESIDENTIAL.UNITS),
```

```
COMMERCIAL.UNITS= as.numeric(COMMERCIAL.UNITS),
    TOTAL.UNITS= as.numeric(TOTAL.UNITS),
    LAND.SQUARE.FEET= as.numeric(LAND.SQUARE.FEET),
    GROSS.SQUARE.FEET= as.numeric(GROSS.SQUARE.FEET),
    YEAR.BUILT= as.numeric(YEAR.BUILT),
    TAX.CLASS.AT.TIME.OF.SALE= as.numeric(as.factor(TAX.CLASS.AT.TIME.OF.SALE)),
    BUILDING.CLASS.AT.TIME.OF.SALE= as.numeric(as.factor(BUILDING.CLASS.AT.TIME.OF.SALE)),
    SALE.PRICE = as.numeric(SALE.PRICE)
    )
}
manhattan_data <- clean_data(manhattan_data)
bronx_data <- clean_data(bronx_data)
brooklyn_data <- clean_data(brooklyn_data)
queens_data <- clean_data(queens_data)
staten_island_data <- clean_data(staten_island_data)
```