

Bid Analysis

Load Libraries

```
install.packages("tidyverse")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --  
## v dplyr      1.1.4      v readr      2.1.5  
## v forcats    1.0.0      v stringr    1.5.1  
## v ggplot2     3.5.1      v tibble     3.2.1  
## v lubridate  1.9.3      v tidyr      1.3.1  
## v purrr       1.0.2  
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()  
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
install.packages("ggplot2")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library(ggplot2)
```

```
install.packages("here")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library("here")
```

```
## here() starts at /Users/luanjiechen/Desktop/Personal Projects/bidding_analysis/Code
```

```
install.packages("skimr")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library("skimr")  
install.packages("janitor")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library("janitor")
```

```
##  
## Attaching package: 'janitor'  
##  
## The following objects are masked from 'package:stats':  
##  
## chisq.test, fisher.test
```

```
install.packages("dplyr")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library("dplyr")  
install.packages("readxl")
```

```
##  
## The downloaded binary packages are in  
## /var/folders/49/cyj4306s591c7v890zddyx_c0000gn/T//RtmpcWEFjN/downloaded_packages
```

```
library(readxl)
```

Prepare the data

```
library(dplyr)  
library(readxl)  
  
# Define the years and initialize an empty list to hold data frames  
years <- c("2021-22", "2022-23", "2023-24")  
bidding_data_list <- list()  
  
# For loop to read datasets for each year and add them to the list
```

```

for (year in years) {
  file_path <- paste0("../bidding_data/", year, "_T1.xls")
  temp <- read_excel(file_path)
  temp <- temp %>% mutate(Year = year)
  bidding_data_list[[year]] <- temp
}

# Combine all data frames in the list into a single data frame
bidding_data <- bind_rows(bidding_data_list)

```

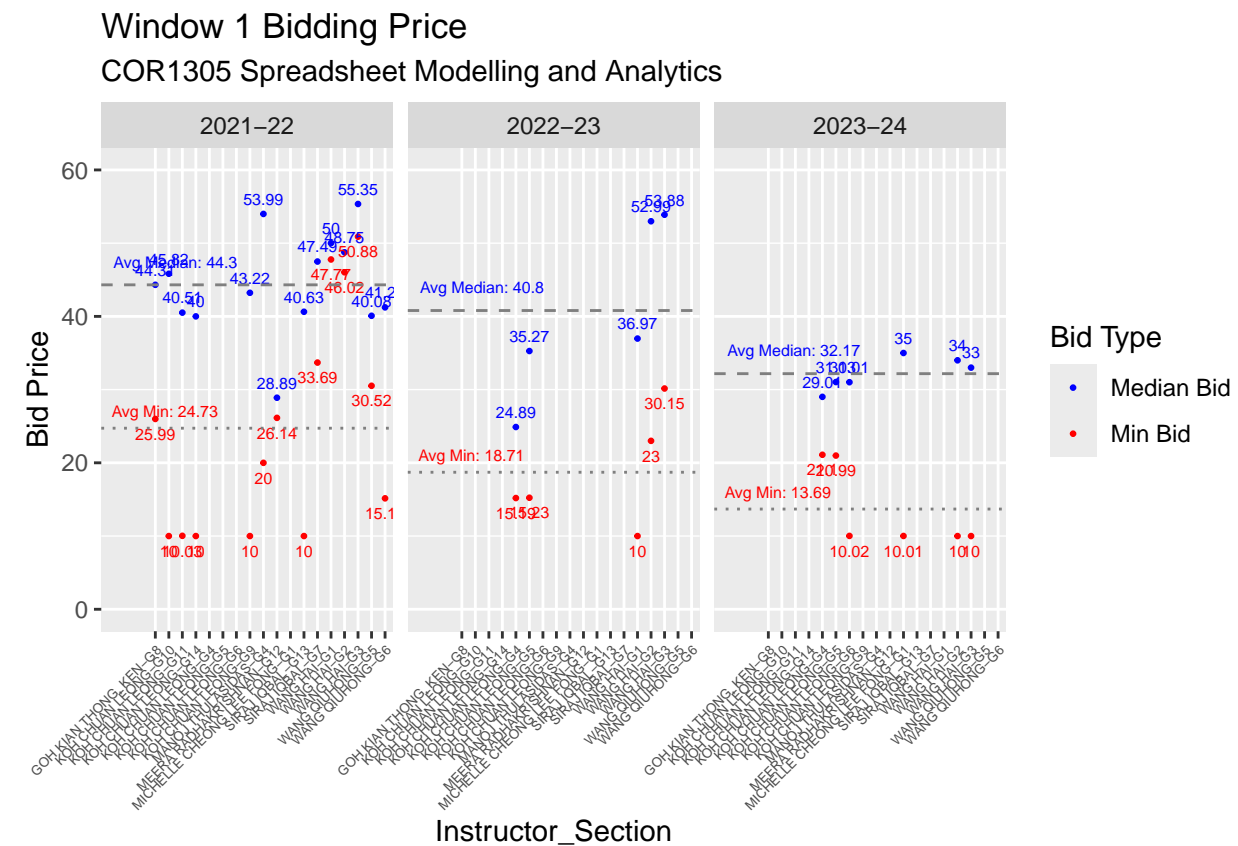
Module Information

```

course <- "COR1305" #edit intended course
course_name <- "Spreadsheet Modelling and Analytics" #edit intended course name
semester <- "Y2S1"
max_range <- 60
instructor <- "WANG HAI"

```

Plot 1 -> Bidding Price vs ALL Instructor



Plot 2 -> Bidding Price vs SPECIFIC Instructor

Window 1 Bidding Price

COR1305 Spreadsheet Modelling and Analytics

