

q1

```
library(stargazer)
```

```
##
```

```
## Please cite as:
```

```
## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.
```

```
## R package version 5.2.3. https://CRAN.R-project.org/package=stargazer
```

```
setwd("~/Documents/GitHub/econ172/pset2/source")
```

Import the data and generate a table of summary statistics

```
df <- read.csv("../data/q1.csv", stringsAsFactors = TRUE)
```

```
stargazer(df)
```

```
##
```

```
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@sp.uz.edu.pl
```

```
## % Date and time: Sun, Oct 19, 2025 - 20:51:08
```

```
## \begin{table}[!htbp] \centering
```

```
## \caption{}
```

```
## \label{}
```

```
## \begin{tabular}{@{\extracolsep{5pt}}lcccc}
```

```
## \[-1.8ex]\hline
```

```
## \hline \[-1.8ex]
```

```
## Statistic & \multicolumn{1}{c}{N} & \multicolumn{1}{c}{Mean} & \multicolumn{1}{c}{St. Dev.} & \multicolumn{1}{c}{t-stat}
```

```
## \hline \[-1.8ex]
```

```
## student\_id & 533 & 310.246 & 177.595 & 1 & 619 \\\
```

```
## treatment & 533 & 0.493 & 0.500 & 0 & 1 \\\
```

```
## student\_age & 533 & 12.413 & 1.357 & 10 & 15 \\\
```

```
## student\_female & 533 & 0.771 & 0.421 & 0 & 1 \\\
```

```
## student\_grade & 533 & 7.182 & 1.101 & 4 & 9 \\\
```

```
## BL\_math\_percent & 533 & 0.316 & 0.124 & 0.010 & 0.758 \\\
```

```
## BL\_hindi\_percent & 533 & 0.435 & 0.167 & 0.041 & 0.923 \\\
```

```
## BL\_ses\_index & 533 & $-$0.053 & 1.657 & $-$5.548 & 4.117 \\\
```

```
## EL\_math\_percent & 533 & 0.504 & 0.179 & $-$0.009 & 1.007 \\\
```

```
## EL\_hindi\_percent & 533 & 0.555 & 0.193 & 0.072 & 1.005 \\\
```

```
## EL\_ses\_index & 533 & $-$0.059 & 1.661 & $-$5.681 & 4.128 \\\
```

```
## \hline \[-1.8ex]
```

```
## \end{tabular}
```

```
## \end{table}
```

Check whether the treatment and control groups are balanced

```
student_age <- lm(student_age ~ treatment, df)
```

```
student_female <- lm(student_female ~ treatment, df)
```

```
BL_ses_index <- lm(BL_ses_index ~ treatment, df)
```

```
BL_math_percent <- lm(BL_math_percent ~ treatment, df)
```

```
BL_hindi_percent <- lm(BL_hindi_percent ~ treatment, df)
```

```
stargazer(student_age, student_female)
```

```
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@vse.cz
## % Date and time: Sun, Oct 19, 2025 - 20:51:08
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcc}
## \hline
## \hline \hline
## & \multicolumn{2}{c}{\textit{Dependent variable:}} \\\
## \cline{2-3}
## \hline \hline & student\_age & student\_female \\\
## \hline \hline & (1) & (2) \\\
## \hline \hline
## treatment & 0.153 & 0.001 \\\
## & (0.117) & (0.036) \\\
## & & \\\
## Constant & 12.337$^{***}$ & 0.770$^{***}$ \\\
## & (0.083) & (0.026) \\\
## & & \\\
## \hline \hline
## Observations & 533 & 533 \\\
## R$^2$ & 0.003 & 0.00000 \\\
## Adjusted R$^2$ & 0.001 & $-$0.002 \\\
## Residual Std. Error (df = 531) & 1.356 & 0.421 \\\
## F Statistic (df = 1; 531) & 1.707 & 0.002 \\\
## \hline
## \hline \hline
## \textit{Note:} & \multicolumn{2}{r}{\textit{$^*$}p$<$0.1; \textit{$^{**}$}p$<$0.05; \textit{$^{***}$}p$<$0.01} \\\
## \end{tabular}
## \end{table}
```

```
stargazer(BL_ses_index, BL_math_percent, BL_hindi_percent)
```

```
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@vse.cz
## % Date and time: Sun, Oct 19, 2025 - 20:51:08
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lccc}
## \hline
## \hline \hline
## & \multicolumn{3}{c}{\textit{Dependent variable:}} \\\
## \cline{2-4}
## \hline \hline & BL\_ses\_index & BL\_math\_percent & BL\_hindi\_percent \\\
## \hline \hline & (1) & (2) & (3) \\\
## \hline \hline
## treatment & $-$0.191 & $-$0.014 & 0.010 \\\
## & (0.143) & (0.011) & (0.014) \\\
## & & & \\\
## Constant & 0.041 & 0.323$^{***}$ & 0.430$^{***}$ \\\
## & & & \\\
## \hline \hline
```

```
##      & (0.101) & (0.008) & (0.010) \\
##      & & & \\
## \hline \\[-1.8ex]
## Observations & 533 & 533 & 533 \\
## R2 & 0.003 & 0.003 & 0.001 \\
## Adjusted R2 & 0.001 & 0.001 & -$0.001 \\
## Residual Std. Error (df = 531) & 1.656 & 0.124 & 0.167 \\
## F Statistic (df = 1; 531) & 1.766 & 1.572 & 0.522 \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{3}{r}{*p<$0.1; **p<$0.05; ***p<$0.01} \\
## \end{tabular}
## \end{table}
```

Estimate impact of the treatment on math and Hindi scores at endline

```
math <- lm(EL_math_percent ~ treatment, df)
hindi <- lm(EL_hindi_percent ~ treatment, df)
```

```
stargazer(math, hindi)
```

```
##
## % Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac@spis.cz
## % Date and time: Sun, Oct 19, 2025 - 20:51:08
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lcc}
## \\[-1.8ex] \hline
## \hline \\[-1.8ex]
## & \multicolumn{2}{c}{\textit{Dependent variable:}} \\
## \cline{2-3}
## \\[-1.8ex] & EL\_math\_percent & EL\_hindi\_percent \\
## \\[-1.8ex] & (1) & (2) \\
## \hline \\[-1.8ex]
## treatment & 0.077*** & 0.065*** \\
## & (0.015) & (0.016) \\
## & & \\
## Constant & 0.466*** & 0.523*** \\
## & (0.011) & (0.012) \\
## & & \\
## \hline \\[-1.8ex]
## Observations & 533 & 533 \\
## R2 & 0.047 & 0.029 \\
## Adjusted R2 & 0.045 & 0.027 \\
## Residual Std. Error (df = 531) & 0.175 & 0.190 \\
## F Statistic (df = 1; 531) & 26.040*** & 15.689*** \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{2}{r}{*p<$0.1; **p<$0.05; ***p<$0.01} \\
## \end{tabular}
## \end{table}
```