

# MKTG\_Assignment\_4

MinJae Jo

2025-11-06

## Part 1

### Step 1

```
MobilMax <- read.csv("MobilMax Case Data-1.csv")
head(MobilMax)
```

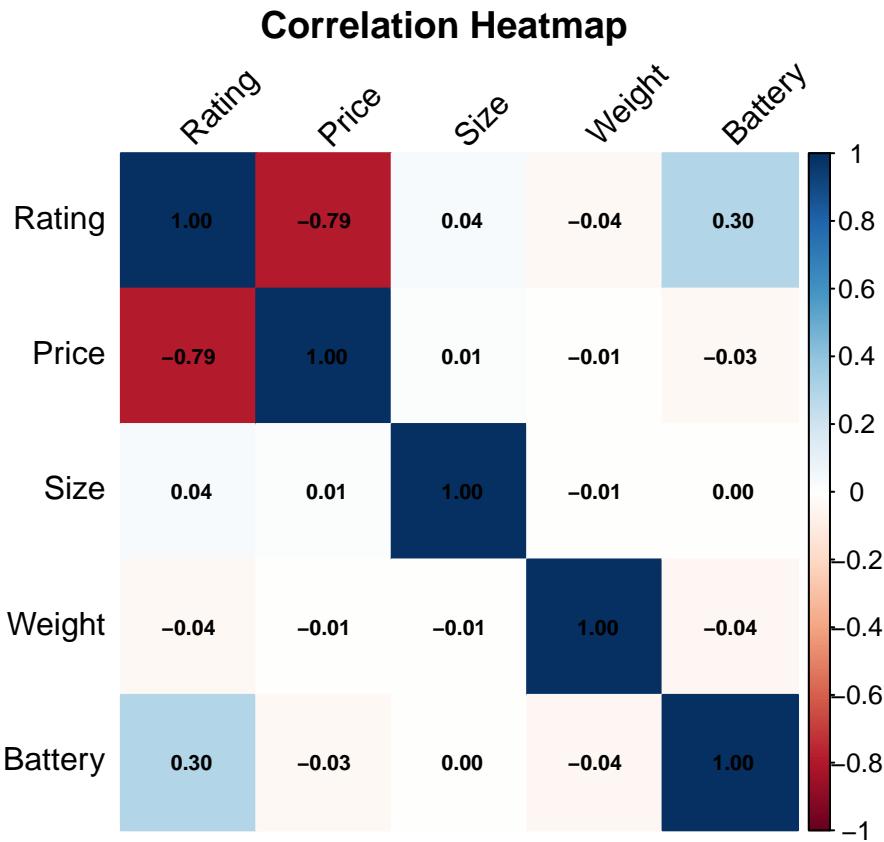
```
##      Rating Price Size Weight Battery Material
## 1 4.637272     5    7   1.5       8 Silicon
## 2 3.917012    12    8   1.0      10 Metal
## 3 4.427328     8   10   1.5       6 Silicon
## 4 2.806379    12    9   2.0       8 Ceramic
## 5 5.256741     5    8   2.0      10 Silicon
## 6 2.475075    12    9   2.0       4 Ceramic
```

### Step 2

```
##
## Ceramic   Metal Plastic Silicon
##     397      360     372     371

##           Min         Max        Mean
## Rating  2.358852  5.352971 3.973640
## Price   5.000000 12.000000 8.706000
## Size    7.000000 10.000000 8.515333
## Weight  0.500000  2.000000 1.257333
## Battery 4.000000 10.000000 7.012000
```

## Step 3



# Step 4

```
##
## Call:
## lm(formula = Rating ~ Price + Size + Weight + Battery + Material,
##      data = MobilMax)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -0.12896 -0.03837 -0.00111  0.03766  0.15410 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## (Intercept) 4.717420  0.007055 668.706 <2e-16 ***
## Price       -0.185192  0.000537 -344.880 <2e-16 ***
## Size8        0.037637  0.003965  9.493 <2e-16 ***
## Size9        0.043227  0.003935 10.986 <2e-16 ***
## Size10       0.098612  0.003975 24.808 <2e-16 ***
## Weight1      0.075714  0.003949 19.171 <2e-16 ***
## Weight1.5    -0.137548  0.003961 -34.727 <2e-16 ***
## Weight2       0.035227  0.003926  8.972 <2e-16 ***
## Battery6     0.382961  0.003930  97.434 <2e-16 ***
## Battery8     0.277156  0.003990  69.469 <2e-16 ***
## Battery10    0.581673  0.003939 147.686 <2e-16 ***
## 
```

```

## MaterialMetal    0.663985   0.003923   169.238   <2e-16 ***
## MaterialPlastic 0.649181   0.003891   166.858   <2e-16 ***
## MaterialSilicon  0.789295   0.003883   203.286   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.05373 on 1486 degrees of freedom
## Multiple R-squared:  0.9928, Adjusted R-squared:  0.9928
## F-statistic: 1.584e+04 on 13 and 1486 DF,  p-value: < 2.2e-16

```

## Step 5

```

##      (Intercept)          Price         Size8        Size9        Size10
## 4.71741993 -0.18519233  0.03763707  0.04322668  0.09861227
##      Weight1       Weight1.5      Weight2      Battery6      Battery8
## 0.07571395 -0.13754841  0.03522710  0.38296071  0.27715649
##      Battery10     MaterialMetal MaterialPlastic MaterialSilicon
## 0.58167350    0.66398486    0.64918146    0.78929485

## (Intercept)
## -919.7599

```

## Part 2