

STAT394 Group Project Report2

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```
diamonds <- read.csv("./diamonds.csv")
df <- data.frame(diamonds)
df$cut <- as.factor(df$cut)
df$clarity <- as.factor((df$clarity))
df$color <- as.factor(df$color)
```

```
summary(df)
```

```
##           X           carat           cut           color           clarity
##  Min.      :    1   Min.      :0.2000   Fair       : 1610   D: 6775   SI1      :13065
##  1st Qu.:13486   1st Qu.:0.4000   Good        : 4906   E: 9797   VS2      :12258
##  Median :26970   Median :0.7000   Ideal       :21551   F: 9542   SI2      : 9194
##  Mean    :26970   Mean    :0.7979   Premium     :13791   G:11292   VS1      : 8171
##  3rd Qu.:40455   3rd Qu.:1.0400   Very Good   :12082   H: 8304   VVS2     : 5066
##  Max.     :53940   Max.     :5.0100                   I: 5422   VVS1     : 3655
##                                           J: 2808   (Other): 2531
##           depth           table           price           x
##  Min.      :43.00   Min.      :43.00   Min.      : 326   Min.      : 0.000
##  1st Qu.:61.00   1st Qu.:56.00   1st Qu.: 950   1st Qu.: 4.710
##  Median :61.80   Median :57.00   Median : 2401   Median : 5.700
##  Mean    :61.75   Mean    :57.46   Mean    : 3933   Mean    : 5.731
##  3rd Qu.:62.50   3rd Qu.:59.00   3rd Qu.: 5324   3rd Qu.: 6.540
##  Max.     :79.00   Max.     :95.00   Max.     :18823   Max.     :10.740
##
##           y           z
```

```
## Min.      : 0.000   Min.      : 0.000
## 1st Qu.: 4.720   1st Qu.: 2.910
## Median : 5.710   Median : 3.530
## Mean    : 5.735   Mean    : 3.539
## 3rd Qu.: 6.540   3rd Qu.: 4.040
## Max.    :58.900   Max.    :31.800
##
```