

Lab Assignment 3

Raghul V

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```
names_v <- c()
for(i in letters){
  for(j in letters){ for(k in letters){
    names_v <- c(names_v, sprintf('%s%s%s',i,j,k)) }}}
Emp_data <- data.frame(
  emp_id = sample(seq(1000,9999),500),
  emp_name = sample(names_v, 500),
  emp_dept = sample(rep(c("R&D","HR","Marketing"),1000), 500), e_salary = sample(seq(10000,99999),500)
)
```

```
head(Emp_data)
```

```
##   emp_id emp_name emp_dept e_salary
## 1   6717     ivz     R&D    99604
## 2   5093     aou     R&D    43890
## 3   7847     lzc     R&D    58237
## 4   3617     pkm      HR    25162
## 5   9685     blm     R&D    80529
## 6   2996     rvf      HR    50035
```

```
summary(Emp_data)
```

```
##      emp_id      emp_name      emp_dept      e_salary
##  Min.   :1053   Length:500   Length:500   Min.   :10082
##  1st Qu.:3238   Class :character   Class :character   1st Qu.:30720
##  Median :5479   Mode  :character   Mode  :character   Median :51782
##  Mean   :5549                                     Mean   :53588
##  3rd Qu.:7859                                     3rd Qu.:76882
##  Max.   :9939                                     Max.   :99983
```

```
head(Emp_data[,c(2,4)])
```

```
##   emp_name e_salary
## 1     ivz   99604
## 2     aou   43890
## 3     lzc   58237
## 4     pkm   25162
## 5     blm   80529
## 6     rvf   50035
```

```
Emp_data[c(1,5),]
```

```
##   emp_id emp_name emp_dept e_salary
## 1   6717      ivz      R&D   99604
## 5   9685      blm      R&D   80529
```

```
Emp_data[c(1,5),c(2,4)]
```

```
##   emp_name e_salary
## 1      ivz   99604
## 5      blm   80529
```

```
head(Emp_data[order(Emp_data$emp_id),])
```

```
##   emp_id emp_name emp_dept e_salary
## 353   1053      wxg      R&D   83857
## 205   1061      avz      HR    11826
## 455   1062      jcu      R&D   84253
## 331   1068      bxj      R&D   76402
## 256   1083      lcy Marketing 73727
## 210   1104      nde      R&D   98158
```

```
new_data <- c()
```

```
for(i in Emp_data$e_salary){
  if(i > 20000){new_data <- c(new_data, 1)} else{new_data <- c(new_data, 0)}
}
Emp_data$binary <- new_data
```

```
head(Emp_data)
```

```
##   emp_id emp_name emp_dept e_salary binary
## 1   6717      ivz      R&D   99604      1
## 2   5093      aou      R&D   43890      1
## 3   7847      lzc      R&D   58237      1
## 4   3617      pkm      HR    25162      1
## 5   9685      blm      R&D   80529      1
## 6   2996      rvf      HR    50035      1
```

```
write.csv(Emp_data, '/Users/raghul/Downloads/Emp_data.csv', row.names = FALSE)
```