R_1_upload_viewing_database

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```r
### 1
library(readxl)
```

```
## Warning: package 'readxl' was built under R version 4.3.2
```

```r
CarInsurances <- read_excel("C:/Users/mmsax/School_Portfolio/Coding_Skills/CarInsurances.xlsx")
View(CarInsurances)
```

```r
### 2 & 3
dim(CarInsurances)
```

```
## [1] 52  4
```

```r
nrow(CarInsurances)
```

```
## [1] 52
```

```r
ncol(CarInsurances)
```

```
## [1] 4
```

```r
### 4
first.eight.rows <- head(CarInsurances, 8)
print(first.eight.rows)
```

```
## # A tibble: 8 x 4
##   State         MRC    FC    AD
##   <chr>       <dbl> <dbl> <dbl>
## 1 Average       699  1537   838
## 2 Alabama       563  1367   804
## 3 Alaska        419  1105   686
## 4 Arizona       684  1527   843
## 5 Arkansas      578  1449   871
## 6 California    629  1654  1025
## 7 Colorado      713  1738  1025
## 8 Connecticut  1029  1984   955
```

```
### 5
five.rows <- tail(CarInsurances, 5)
(five.rows) # alternate method
```

```
## # A tibble: 5 x 4
##   State          MRC    FC    AD
##   <chr>        <dbl> <dbl> <dbl>
## 1 Virginia       431  1039   608
## 2 Washington     545  1009   464
## 3 West Virginia  635  1501   866
## 4 Wisconsin      491  1084   593
## 5 Wyoming        329  1085   756
```

```
### 6
ls(CarInsurances)
```

```
## [1] "AD"    "FC"    "MRC"   "State"
```

```
objects(CarInsurances)
```

```
## [1] "AD"    "FC"    "MRC"   "State"
```

```
### 7 summary to find means
summary(CarInsurances)
```

```
##     State               MRC             FC             AD
##  Length:52         Min.   : 309.0   Min.   : 961   Min.   : 464.0
##  Class :character  1st Qu.: 492.5   1st Qu.:1106   1st Qu.: 655.0
##  Mode  :character  Median : 598.5   Median :1453   Median : 795.5
##                    Mean   : 700.2   Mean   :1539   Mean   : 838.6
##                    3rd Qu.: 824.5   3rd Qu.:1682   3rd Qu.: 986.8
##                    Max.   :2696.0   Max.   :3986   Max.   :1794.0
```

```
### 7a mean MRC
mean(CarInsurances$MRC)
```

```
## [1] 700.1923
```

```
### 7b mean FC
CarInsurances$FC |>
  mean()
```

```
## [1] 1538.827
```

```
### 7a mean AD
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.3.2
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
CarInsurances |>
  pull(AD) |>
  mean()
```

```
## [1] 838.6346
```