Question1.R

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```
library(tidyverse)
```

```
## -- Attaching packages ------------- tidyverse 1.2.1 --
```

```
## <U+221A> ggplot2 3.1.0     <U+221A> purrr   0.2.5
## <U+221A> tibble  1.4.2     <U+221A> dplyr   0.7.6
## <U+221A> tidyr   0.8.1     <U+221A> stringr 1.3.1
## <U+221A> readr   1.1.1     <U+221A> forcats 0.3.0
```

```
## Warning: package 'dplyr' was built under R version 3.5.1
```

```
## -- Conflicts ---------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
# Q1. Run the below command and the parts:
    mtcars %>%
        group_by(cyl) %>%
        summarize_at(.vars=c('mpg', 'drat'), funs(mean))
```

```
## # A tibble: 3 x 3
##     cyl   mpg  drat
##   <dbl> <dbl> <dbl>
## 1     4  26.7  4.07
## 2     6  19.7  3.59
## 3     8  15.1  3.23
```

```
    #1.Easy - Modify the "funs" command and see if you can calculate mean,
                    # sum and count, don't change the summarise_at command.
    #2.Hard - Can you use quantile instead of mean and see what happens?
                    # What error you got? Fix it and run for quantile
    #3.Easy - Find mean, count, median, sum for all the continous data in mtcars,
                    # grouped across cyl. Please avoid descrete column values.

# Q2. Easy - Use iris data and find the summary stats( count , sum , mean, std. deviation)
                    # for all the numeric columns grouped by Species
# Q3. Easy - Run a ggplot for the density plot for all the unique Species types from iris
                    # dataset for Sepal.Length column
# Q4. Easy - Plot a histogram across Each "cut" for depth from diamonds data
                    # (use library(ggplot2) to access diamonds dataset)
# Q5. Medium
    df <- list( df1 = data.frame(x = 1:10, y = letters[1:10]),
                     df2 = data.frame(x = 11:20, y= LETTERS[11:20]))
    # Use the above "df" and append the list item to make one table
    # Make column y in the appended column as all uppercase
    # Use lapply to fetch 1st column and 2nd column separately
# Q6. Hard - split the superhero names with their ages in the given vector:
    vector <- c("Superman1000", "Batman35", "Wonderwoman240")
# Q7. Easy - Return a copy of hflights that contains the four columns related to delay
                    # ( ActualElapsedTime , AirTime , ArrDelay , DepDelay )
```

```r
# Q8. Easy - Return a copy of hflights containing the columns Origin up to Cancelled
# Q9. V.Hard - Can you determine how many functions are present in Base R ? How will
                    # you do it programmatically?
# Q10.Medium - Use do.call to bind items of uneven list(lyst),
    # put NAs wherever necessary(Use program to generate NA values, don't hardcode).
        lyst <- list(a = 1:5, b = 1:3)
        # Your answer should match with below, Run at your end to find how it looks like:
        structure(list(X1 = c(1L, 1L), X2 = c(2L, 2L), X3 = c(3L, 3L),
                       X4 = c(4L, NA), X5 = c(5L, NA)), class = "data.frame",
                  row.names = c("a", "b"))
```

```
##   X1 X2 X3 X4 X5
## a  1  2  3  4  5
## b  1  2  3 NA NA
```