

```
## Merge data by country codes
matchedData <- merge(gdpData, eduData, by.x = "CountryCode", by.y = "CountryCode")
    ## Number of matched countries
54
    dim(matchedData)[1]
     \mbox{\tt \#\#} Arrange by GDP rank (descending) and get the name of the 13th country
58
    library(plyr)
     arrange(matchedData, desc(Rank))[13, 3]
59
60
    ### ANSWER 3. [1] "St. Kitts and Nevis"
    ### QUESTION 4. What is the average GDP ranking for the "High income: OECD" and "High income: nonOECD" group?
64
65
    ## Subset "High income: OECD" and calculate the mean GDP Rank
66
    mean(subset(matchedData, Income.Group %in% "High income: OECD", select = c(Rank))$Rank)
67
    ## [1] 32.96667
68
69
    ## Subset "High income: nonOECD"
    mean(subset(matchedData, Income.Group %in% "High income: nonOECD", select = c(Rank))$Rank)
70
    ## [1] 91.91304
    #### QUESTION 5. Cut the GDP ranking into 5 separate quantile groups. Make a table versus Income.Group. How many countries are Lower middle
74
76
    ## Cut Ranks into 5 groups and store as factor variable
    matchedData$Rank.Groups = cut2(matchedData$Rank, g = 5)
78
    ## Build a table of Income Groups across Rank Groups
    table(matchedData$Income.Group, matchedData$Rank.Groups)
79
80
81
                               [ 1, 39) [ 39, 77) [ 77,115) [115,154) [154,190]
82
    ## High income: nonOECD
                                   4
                                            5
                                                     8
                                                                 5
83 ## High income: OECD
                                  18
                                            10
                                                       1
                                                                 1
                                                                           0
84 ## Low income
                                                                          11
                                             1
                                                                16
85 ## Lower middle income
                                   *5*
                                              13
                                                        12
                                                                   8
                                                                            16
86
    ## Upper middle income
                                  11
                                              9
                                                                 8
```

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